May 12, 2019

Mr. Albert Mabus, P.G.
Licensed Professional Geologist
Environmental Cleanup and Brownfields Program
Pennsylvania Department of Environmental Protection
2 Public Square
Wilkes-Barre, PA 18701-1915

VIA CERTIFIED MAIL #7018 00040 0000 5540 1865

RE: Abbreviated Final Site Characterization Report – Incident #51850
Quinn's Café Stop Property
224 North Main Street
Borough of Archbald, Lackawanna County, Pennsylvania
PADEP Facility ID# 35-20617
USTIF Claim Number: #2019-0194
LaBella Associates Project Number: 2171853

Dear Mr. Mabus,

LaBella Associates, P.C. (LaBella) is pleased to present this Abbreviated Site Characterization Report (Abbreviated SCR) to document site characterization activities completed to evaluate the petroleum release at the diesel/off-road diesel dispensers located at the above-referenced Quinn's Café Stop property (herein referred to as the Site or subject property). The apparent petroleum release at the diesel/off-road dispensers is identified as PADEP Incident #51850 and USTIF Claim No. 2019-0194. A Site Location Map (**Figure 1**) and an Incident Identification Map (**Figure 2**) are presented in Attachment A. Tables summarizing site characterization data are included in Attachment B. LaBella representative resumes are included in Attachment C. Refer to Attachment D for a photograph log depicting the subject property. Site characterization activities summarized herein were completed according to the guidelines and standards developed 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); and the PADEP's Groundwater Monitoring Guidance Manual dated December 1, 2001.

Background

On November 6, 2019, PADEP conducted a Compliance Evaluation (CE) inspection of the Site. During the CE inspection, PADEP observed soil discoloration and noted petroleum-related odors beneath Dispensers 5/6 (Diesel) and 7 (Off Road Diesel). Weeping of the piping and/or pump was reportedly observed beneath both diesel dispensers. Soil contamination in an area with

approximate dimensions of 4 inches by 30 inches was noted near Dispensers 5/6 where the pavement had degraded along the concrete pad. The concrete pad associated with the diesel dispensers was stained and some residual absorbent material from a recent spill cleanup was present. A copy of the PADEP Reported Release Incident Information Form that documents the CE inspection is included in Attachment E. Based on the findings of the CE inspection, PADEP issued a Notice of Violation (NOV) to DK & DK, LLC on November 7, 2019 and requested completion of a site characterization to evaluate the petroleum release. A copy the PADEP NOV November 7, 2019 correspondence is included in Attachment F.

On November 15, 2019, Francis Smith & Sons, Inc. of Scott Township, Pennsylvania tightened the union at the diesel dispenser, replaced the control board for the diesel dispenser, and cleaned the card readers in all the dispensers as needed.

Project Parameters

For the purpose of this investigation, the parameters of concern are limited to Diesel Fuel / Fuel Oil #2 Parameters specified in the April 1, 1998 PADEP Technical Document: Closure Requirements for Underground Storage Tank Systems, as amended. A list of the Project Parameters is as follows:

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

Determination of Cleanup Standard for Data Comparison

For the purpose of comparing the analytical results obtained during the site characterization activities, LaBella reviewed the three options provided in the PADEP's Act 2 program, as described in 25 Pa. Code Chapter 250 and PADEP's Act 2 Technical Guidance Manual. These options include Background, Statewide Health and Site Specific cleanup standards. In addition, the Site does not qualify as a Special Industrial Area as it is not located within a designated Keystone Opportunity Zone. Therefore, the SHS and SSS are viable options for the site. Based on the nature of the project and data available, LaBella chose to use the Statewide Health Standards (SHSs) as the anticipated cleanup criteria to be applied to this site. These standards are referred to as the medium specific concentrations (MSCs) that must be achieved to demonstrate attainment of the SHS for each contaminant compound of concern.

To demonstrate attainment of the SHS, site soil and groundwater must be remediated to concentrations equivalent to the EPA drinking water standards. Selection of the SSS requires elimination of risks associated with elevated target compounds. Elimination of risks cannot be completed without implementing institutional and/or engineering controls placed on the Site. Therefore, the property owner has chosen to demonstrate attainment of the Act 2 Non-Residential, Used Aquifer (TDS<2500 mg/l), SHS for the Project Parameters for Site soil. The Used Aquifer scenario was used since a Non-Use Aquifer Designation was not requested as part of this investigation. Refer to Table 1 for a summary of the respective SHS MSCs. The standards are reflective of the August 27, 2016 revisions to the regulations.

Table 1
Quinn's Café Stop Property
Summary of Act 2 Non-Residential Statewide Health Standards

Parameter	Soil MSCs (mg/kg)*
Benzene	0.5 / 0.5
Cumene	600 / 84
Ethylbenzene	70 / 70
MTBE	2.0 / 2.0
Naphthalene	25 / 10
Toluene	100 / 100
1,2,4-TMB	8.4 / 1.5
1,3,5-TMB	74 / 42
Total Xylenes	1,000 / 1,000

(*) Soil MSCs for unsaturated / saturated conditions

Geophysical Investigation

Prior to implementing the soils investigation, LaBella retained Delta Geophysics, Inc. (Delta Geophysics) of Catasauqua, Pennsylvania to complete a geophysical investigation to identify the locations of subsurface utilities and piping associated with the diesel/off-road diesel dispensers. Delta used ground penetrating radar and electromagnetic methods to identify subsurface utilities and subsurface piping associated with the diesel/off-road diesel dispensers. The results of the geophysical investigation were used to define the optimal locations of test borings in the proximity of the diesel/off-road diesel dispensers.

Site Soil Investigation

On January 6, 2020, LaBella implemented a soils investigation to evaluate the extent and degree of petroleum-related impacts to Site soils due to possible releases of diesel fuel to the subsurface from the diesel/off-road diesel dispensers. The soil investigation involved: (1) completed six (6) test borings (designated TB-21 through TB-26) at locations proximal to the diesel dispensers; and (2) collecting two (2) soil samples from each of the test borings for laboratory analysis of the Project Parameters. At each boring location, one (1) soil sample each was collected from the Vadose and Smear Zones. Each of the six (6) test borings was advanced to the soil/groundwater or refusal, interpreted as bedrock, whichever was encountered first. Drilling depths ranged from 4.5 feet (TB-22) to 5.5 feet (TB-25) below grade.

Odyssey Environmental Services, Inc. (Odyssey) of Dauphin, Pennsylvania completed test borings TB-21 through TB-26 using soft dig techniques with a Vacmaster 4000. Soft dig techniques were used due to the proximity of underground utilities and subsurface piping associated with the underground storage systems. A LaBella environmental scientist was present to collect soil samples for lithologic information, screen the soil samples for total volatile organic vapors using a photo ionization (PID) detector, and select soil samples for laboratory analysis of the Project Parameters. Each of test borings TB-21 through TB-26 was advanced to the soil/groundwater interface or refusal, whichever was encountered first. Copies of test boring logs for TB-21 through TB-26 are presented in Attachment G.

A total of twelve (12) soil samples were collected from TB-21 through TB-26. At each of the aforementioned test boring locations, one (1) soil sample each was collected from the Vadose (unsaturated) and Smear (saturated) zones. In addition to the twelve (12) test boring soil samples, two (2) soil samples (one each) were collected from beneath the diesel and off-road diesel dispensers. LaBella shoveled and vacuumed a small quantity (half of a 55-gallon drum) of visibly contaminated soil prior to collecting the two (2) soil samples from beneath the diesel and off-road diesel dispensers. Off-site disposal of this soil is pending initiation of SVE/AS remedial activities. Refer to Attachment A for a Test Boring Location Map (**Figure 3**) depicting the location of TB-21 through TB-26. The fourteen (14) soil samples were delivered to ALS Environmental located in Middletown, Pennsylvania under proper chain-of-custody procedures for analysis of the Project Parameters specified above. A Sample Log is provided in Table 2, as follows:

Table 2
Quinn's Café Stop Property
Sample Log – TB-21 through TB-26

Sample Number	Sample Date	Sample Depth (ft)	Condition
116-0106-21A	01/06/2020	2.5 - 3.0	Vadose
116-0106-21B	01/06/2020	4.5 – 5.0	Smear
116-0106-22A	01/06/2020	2.0 – 2.5	Vadose
116-0106-22B	01/06/2020	4.0 – 4.5	Smear
116-0106-23A	01/06/2020	2.5 – 3.0	Vadose
116-0106-23B	01/06/2020	4.5 – 5.0	Smear
116-0106-24A	01/06/2020	2.5 – 3.0	Vadose
116-0106-24B	01/06/2020	4.5 – 5.0	Smear
116-0106-25A	01/06/2020	2.0 – 2.5	Vadose
116-0106-25B	01/06/2020	5.0 – 5.5	Smear
116-0106-26A	01/06/2020	2.5 – 3.0	Vadose
116-0106-26B	01/06/2020	4.5 – 5.0	Smear
116-0106-OFF ROAD	01/06/2020	2.0 – 2.5	Vadose
116-0106-DIESEL	01/06/2020	2.0 – 2.5	Vadose

In subsequent sections of this SCR, LaBella indicates that it appears no residual soil or groundwater contamination can be definitively attributed to the 2019 release of diesel fuel, beyond the small quantity of impacted soil removed from the area beneath the dispensers. However, based on the results of the limited investigation conducted on January 6, 2020, Labella was of the opinion that additional soil sampling was necessary. In response, on April 20, 2020, Odyssey completed five (5) additional test borings (identified as TB-27 through TB-31) to delineate potential petroleum-related impacts identified in test borings TB-25 and TB-26. As with test borings TB-21 through TB-26, test borings TB-27 through TB-31 were completed with a Vacmaster using soft dig techniques. A LaBella environmental scientist was present to collect soil samples for lithologic information, screen the soil samples for total volatile organic vapors using a photo ionization (PID) detector, and select soil samples for laboratory analysis of the Project Parameters. Copies of test boring logs for TB-27 through TB-31 are presented in Attachment G.

A total of ten (10) soil samples were collected from TB-27 through TB-31. At each of the aforementioned test boring locations, one (1) soil sample each was collected from the Vadose (unsaturated) and Smear (saturated) zones. Refer to Attachment A for a Test Boring Location Map (**Figure 3**) depicting the location of TB-27 through TB-31. The ten (10) soil samples were delivered to ALS under proper chain-of-custody procedures for analysis of the Project Parameters specified above. A Sample Log is provided in Table 3, as follows:

Table 3
Quinn's Café Stop Property
Sample Log – SB-27 through SB-31

Sample Number	Sample Date	Sample Depth (ft)	Condition
1853-0420-TB-27A	4/20/20	2.0 – 2.5	Vadose
1853-0420-TB-27B	4/20/20	4.5 -5.0	Smear
1853-0420-TB-28A	4/20/20	2.0 – 2.5	Vadose
1853-0420-TB-28B	4/20/20	4.5 – 5.0	Smear
1853-0420-TB-29A	4/20/20	2.0 – 2.5	Vadose
1853-0420-TB-29B	4/20/20	4.5 – 5.0	Smear
1853-0420-TB-30A	4/20/20	2.5 – 3.0	Vadose
1853-0420-TB-30B	4/20/20	5.0 – 5.5	Smear
1853-0420-TB-31A	4/20/20	2.0 – 3.0	Vadose
1853-0420-TB-31B	4/20/20	5.0 – 5.5	Smear

Groundwater Monitoring Well Installations

Between January 30, 2017 and August 22, 2019, LaBella installed groundwater monitoring wells MW-1 thru MW-17 at the Site, at adjacent properties, and in roadways maintained by the Borough of Archbald. These monitoring wells were installed to evaluate soil and groundwater quality conditions associated with USTIF Claim No. 2016-0136. Refer to Attachment A for a Monitoring Well Location Map (**Figure 4**) depicting the locations of the groundwater monitoring wells. Refer to Attachment H for copies of the Monitoring Well Logs for MW-1 through MW-17 and to Attachment I for Well Construction Details. A summary of the well construction information is detailed in Table 4 as follows. Note, * denotes POC well.

Table 4
Quinn's Café Stop Property
Well Construction Information

Well #	Total Depth (ft)	Screen Size (in.)	Screen Interval (ft bgs)	Sand Interval (ft bgs)	Bentonite Seal (ft bgs)
MW-1	14.73	0.010 Slot	14.73 – 2.73	14.73 – 2	2 – 0.75
MW-2	14.84	0.010 Slot	14.84 – 2.84	14.84 – 2	2 – 0.75
MW-3	15.48	0.010 Slot	15.48 – 3.48	15.48 – 2	2 – 0.75
MW-4	15.26	0.010 Slot	15.26 – 3.26	15.26 – 2	2 – 0.75
MW-5	15.50	0.010 Slot	15.50 – 3.5	15.5 – 2	2 – 0.75
MW-6	15.25	0.010 Slot	15.25 – 3.25	15.25 – 2	2 – 0.75
MW-7	17.10	0.010 Slot	17.10 – 3.1	17.1 – 2	2 – 0.75
MW-8	17.56	0.010 Slot	17.56 – 3.56	17.56 – 2	2 – 0.75
MW-9	17.17	0.010 Slot	17.17 – 3.17	17.17 – 2	2 – 0.75
MW-10	23.89	0.010 Slot	23.89 – 3.89	23.89' – 2	2 – 0.75
MW-11	17.00	0.010 Slot	17 – 3	17 – 2	2 – 0.75
MW-12	17.00	0.010 Slot	17 – 3	17 – 2	2 – 0.75
MW-13	17.00	0.010 Slot	17 – 3	17 – 2	2 – 0.75
MW-14*	15.00	0.010 Slot	3 - 15	2 - 15	2 – 0.75
MW-15*	15.00	0.010 Slot	3 - 15	2 - 15	2 – 0.75
MW-16*	15.00	0.010 Slot	3 – 15	2 – 15	2 – 0.75
MW-17*	15.00	0.010 Slot	3 – 15	2 – 15	2 – 0.75

Determination of Groundwater Flow

Following the discovery of an apparent petroleum release at the diesel/off-road diesel dispensers, LaBella completed two quarterly groundwater monitoring events on December 6, 2019 and February 6, 2020. LaBella used depth to groundwater (DTW) data collected during the February 5-6, 2020 monitoring event from monitoring wells MW-1 through MW-17, and pilot test monitoring points MP-2 and MP-3. Salem Consultants, Inc. determined well casing elevations by completing a site survey and level run. Well casing elevations were referenced to an arbitrary datum established on the Site. The direction of groundwater flow was determined using EnviroInsite 5.0 software (copyright HydroAnalysis, Inc., 2007). A table (**Table B-1**) summarizing historical DTW and associated groundwater elevation data is provided in Attachment B. A copy of the groundwater contour map for the February 5, 2020 monitoring event is included in Attachment J. Site-specific observations are as follows:

- During the most recent groundwater monitoring event (February 5-6, 2020), groundwater was encountered in monitoring wells MW-1 through MW-17 at depths ranging from 4.02 feet (MW-5) to 10.45 feet (MW-13) below ground surface (bgs).
- The groundwater contour map prepared from February 5, 2020 groundwater elevation data indicates the principal direction of groundwater flow beneath the Site is to the northeast.
- Comparison of the February 5, 2019 groundwater elevation data with groundwater elevation data collected during the December 5-6, 2019 monitoring event indicates groundwater elevations at the site have risen an average of 0.13 feet since the December 2019 monitoring event. With the exception of monitoring wells MW-1, MW-4, MW-6, and MW-10, groundwater elevations in the monitoring wells have risen since the December 5, 2019 groundwater monitoring event. Further review of groundwater elevation data indicates the largest increases in groundwater elevations since December 2019 were recorded in monitoring wells MW-11 (0.49 feet), MW-14 (0.66 feet), MW-11 (1.93 feet), and MW-13 (0.77 feet).
- Based on review of groundwater elevation data collected during the February 5, 2020 monitoring event, the hydraulic gradient across the Site was determined to be **0.0414 feet / foot** to the northeast.
    - The hydraulic gradient (i) was determined using groundwater elevation data (h) collected from monitoring wells MW-1 (h_2) and MW12 (h_1).
    - The distance (d) between monitoring wells MW-1 and MW-12 is 260 feet.
    - (i) = (h_2-h_1) / d
    - (i) = (947.63 – 936.85) / 260 = **0.0414 ft/ft** (based on 2/5/20 data)
    - The measured hydraulic gradient (**0.0414**) has decreased slightly since the December 5, 2019 monitoring event when a hydraulic gradient of **0.0454** was calculated.

- Because deep bedrock monitoring wells have not been installed at the subject property, the vertical component of groundwater flow could not be determined.

Quarterly Groundwater Monitoring Activities

Since November 2019, two (2) quarterly groundwater sampling events have been conducted at the Site resulting in the collection of thirty-eight (38) groundwater samples. As discussed above, the 4th Quarter 2019 and 1st Quarter 2020 groundwater monitoring events events were conducted on December 5-6, 2019 and February 5-6, 2020, respectively. During the December 2019 and February 2020 quarterly groundwater sampling events, LaBella collected groundwater samples from monitoring wells MW-1 through MW-17 for laboratory analysis of the Project Parameters.

During each groundwater sampling event, LaBella purged the groundwater monitoring wells using low flow / low stress pumping methods. Low flow / low stress purging activities included monitoring of pH, temperature, specific conductance, dissolved oxygen (D.O.), turbidity and oxidation-reduction potential (ORP). Well purging was deemed complete when pH, temperature and specific conductance had stabilized for a minimum of three (3) consecutive readings. Groundwater effluent generated during well purging activities was treated onsite with activated carbon and discharged to the groundwater surface in accordance with the provisions in Table A-2 of the TGM. Field notes generated for the December 6, 2019 and February 6, 2020 sampling events were included in 4th Quarter 2019 and 1st Quarter 2020 quarterly Remedial Action Progress Reports. Refer to Attachment K for copies of field notes generated during the 4th Quarter 2019 and 1st Quarter 2020 sampling events.

Nineteen (19) groundwater samples, including two (2) QA/QC Field Blanks (FB-1 and FB-2), were collected during the 4th Quarter 2019 sampling event. Following collection, the groundwater samples were delivered to ALS Environmental (ALS), a PADEP-certified laboratory located in Middletown, Pennsylvania for analysis of the Project Parameters. A Sample Log is provided in Table 5, as follows:

Table 5
Quinn's Café Property
Sample Log
December 5-6, 2019 Groundwater Monitoring Event

Sample Number	Sample Description	Analysis
116-1205-MW1	MW-1	Project Parameters
116-1205-MW2	MW-2	Project Parameters
116-1205-MW3	MW-3	Project Parameters
116-1205-MW4	MW-4	Project Parameters
116-1205-MW5	MW-5	Project Parameters
116-1205-MW6	MW-6	Project Parameters
116-1205-MW7	MW-7	Project Parameters
116-1205-MW8	MW-8	Project Parameters
116-1205-MW9	MW-9	Project Parameters
116-1205-MW10	MW-10	Project Parameters
116-1205-MW11	MW-11	Project Parameters
116-1205-MW12	MW-12	Project Parameters
116-1205-MW13	MW-13	Project Parameters

Table 5 (Cont.)
Quinn's Café Property
Sample Log
December 5-6, 2019 Groundwater Monitoring Event

Sample Number	Sample Description	Analysis
116-1205-MW14	MW-14	Project Parameters
116-1205-MW15	MW-15	Project Parameters
116-1205-MW16	MW-16	Project Parameters
116-1205-MW17	MW-17	Project Parameters
116-1205-FB1	Field Blank FB-1	Project Parameters
116-1205-FB2	Field Blank FB-2	Project Parameters

During the 1st Quarter 2020 groundwater monitoring event, LaBella collected groundwater samples from monitoring wells MW-1 through MW-17 along with two (2) QA/QC samples for laboratory analysis of the Project Parameters. Following collection, the nineteen (19) groundwater samples were submitted to ALS for analysis. A Sample Log is provided in Table 6, as follows:

Table 6
Quinn's Café Property
Sample Log
February 5-6, 2020 Groundwater Monitoring Event

Sample Number	Sample Description	Analysis
116-0205-MW1	MW-1	Project Parameters
116-0205-MW2	MW-2	Project Parameters
116-0205-MW3	MW-3	Project Parameters
116-0205-MW4	MW-4	Project Parameters
116-0205-MW5	MW-5	Project Parameters
116-0205-MW6	MW-6	Project Parameters
116-0205-MW7	MW-7	Project Parameters
116-0205-MW8	MW-8	Project Parameters
116-0205-MW9	MW-9	Project Parameters
116-0205-MW10	MW-10	Project Parameters
116-0205-MW11	MW-11	Project Parameters
116-0205-MW12	MW-12	Project Parameters
116-0205-MW13	MW-13	Project Parameters
116-0205-MW14	MW-14	Project Parameters
116-0205-MW15	MW-15	Project Parameters
116-0205-MW16	MW-16	Project Parameters
116-0205-MW17	MW-17	Project Parameters
116-0205-FB1	Field Blank FB-1	Project Parameters
116-0205-FB2	Field Blank FB-2	Project Parameters

Separate Phase Liquids

Measurable SPL was not detected in monitoring wells MW-1 through MW-17 during the 4th Quarter 2019 and 1st Quarter 2020 groundwater monitoring events.

Analytical Results - Soils Investigation

Subsurface Conditions

Review of test boring logs for TB-21 through TB-31 indicate subsurface materials, beneath a thin veneer of asphalt, consist of sand and silt with abundant angular to sub-angular pebbles. Lesser amounts of clay, coal ash, and coal fragments were also encountered in the test borings. PID field screening results ranged from 0 parts per million (ppm) for test borings TB-21 through TB-24, and TB-27, and TB-31 to 128 ppm at approximately 5 feet in test boring TB-28. In addition to test boring TB-28, positive (>1 ppm) PID reading were measured in test borings TB-25, TB-26, TB-29, and TB-29. The highest PID screening results were recorded in the test borings at around 5 feet below grade. Wet soil conditions, interpreted as groundwater, were encountered in the aforementioned test borings at depths ranging from 3 feet to 5 feet below grade.

Soil Analytical Results - General

Twenty-two (22) soil samples were collected from test borings TB-21 through TB-31. Two (2) additional soil samples (one each) were collected from directly beneath the diesel and off-road diesel dispensers. To complete the horizontal and vertical delineation of the site soils, samples were collected as follows:

- Vadose Zone Samples: Thirteen (13) soil samples were collected from the Vadose Zone, which includes the permanently unsaturated zone and the capillary fringe. The Act 2 MSCs for unsaturated conditions are the applicable standards to be used for comparison.

- Zone of Groundwater Saturation – Smear Zone: A total of eleven (11) soil samples were collected from the Smear Zone. The PADEP defines the Zone of Groundwater Saturation as the soil that is below the seasonal high water level. LaBella further bisected the Zone of Groundwater Saturation into the Smear Zone and the Permanently Saturated Zone. The Smear Zone is not saturated at all times and is subject to seasonal fluctuations in the groundwater table. The MSCs associated with saturated conditions are the applicable standards to be used for comparison.

- Permanently Saturated Zone: No soil samples were collected from the permanently saturated zone (PSZ). The PSZ is defined as the soil that is saturated on a continuous basis. The Act 2 MSCs for saturated conditions are the applicable standards to be used for comparison.

Laboratory analytical data sheets for soil samples collected from TB-21 through TB-26 plus the two dispenser samples and TP-27 through TB-31 are included in Attachment L. A table summarizing soil analytical data generated at the Site during site activities conducted between January 2020 and April 2020 is included as **Table B-2** in Attachment B.

Discussion of the Vadose Zone Results

None of the thirteen (13) soil samples collected from the Vadose Zone reported concentrations of the Project Parameters exceeding their Act 2 Non-Residential Used Aquifer MSCs. Refer to Appendix A for a Soil Contamination Distribution Map **(Figure 5)** that depicts contamination in the Vadose Zone. As shown on **Figure 5**, the historical extent of vadose zone contamination is

limited to the vicinity of test boring TB-11 and the fill for Tank 001, well beyond the confines of the diesel/off-road diesel dispensers.

Discussion of the Smear Zone Results

Eleven (11) soil samples were collected from the Smear Zone. Petroleum-related contamination, in excess of current Act 2 MSCs, was detected in four (4) of the eleven (11) soil samples. Refer to Appendix A for a Soil Contamination Distribution Map depicting contamination in the Smear Zone (**Figure 6**). Review of **Figure 6** indicates test borings TB-25, TB-26, TB-28, and TB-30 are located within the previously delineated Smear Zone associated with the gasoline UST systems. A summary of the exceedances is included in Table 7 as follows:

Table 7
Quinn's Café Stop
Soil Sample Analytical Data (mg/kg)
Summary of Exceedances – Smear Zone

Sample #	Sample Date	Depth (ft)	Parameter	Concentration (mg/kg)	Act 2 MSC (mg/kg)*
TB-25B	01/06/2020	5.0 – 5.0	1,2,4-TMB	34.5	1.5
TB-26B	01/06/2020	4.5 – 5.0	Naphthalene	18.3	10
			1,2,4-TMB	47.7	1.5
TB-28B	04/20/2020	4.5 – 5.0	Naphthalene	10.4	10
			1,2,4-TMB	112	1.5
TB-30B	04/20/2020	5.0 – 5.5	Naphthalene	18.8	10
			1,2,4-TMB	49.4	1.5

(*) denotes saturated soil condition

Analytical Results – Quarterly Groundwater Sampling

General

Laboratory analytical results were compared to the standards developed pursuant to Pennsylvania's "*Land Recycling and Environmental Remediation Standards Act*" (Act 2) of July, 1995, as amended. The laboratory analytical data sheets for the 4th Quarter 2019 and 1st Quarter 2020 quarterly sampling events were included in RAPRs submitted on January 7, 2020 and March 23, 2020. Refer to Attachment M for copies of the analytical data sheets for the December 5-6, 2019 and February 5-6, 2020 groundwater monitoring events. **Table B-3** in Attachment B summarizes historical groundwater data at the Site.

Comparison of Groundwater Data to Statewide Health Standard MSCs –4th Quarter 2019

Review of analytical results for the **4th Quarter 2019** groundwater monitoring event indicates several Project Parameters (Benzene, Ethylbenzene, MTBE, Naphthalene, and/or 1,2,4-TMB), were detected in groundwater samples collected from monitoring wells MW-2 through MW-5, and MW-14 through MW-17, at concentrations exceeding the applicable Act 2 SHS MSCs. The remaining contaminant concentrations were reported below their respective SHS MSCs for each

compound analyzed. Groundwater isopleth maps depicting the distribution of contaminants, are included in Attachment N. Refer to Table 8 for a Summary of Exceedances.

Table 8
Quinn's Café Property
December 5-6, 2019 Groundwater Monitoring Event
Summary of Groundwater Exceedances (ug/l)

Location	Parameter	Concentration (ug/L)	Act 2 MSC (ug/L)
MW-2	Benzene	67.7	5
	Naphthalene	139	100
	1,2,4-TMB	25.9	15
MW-3	Benzene	501	5
	Ethylbenzene	870	700
	MTBE	65.0	20
	1,2,4-TMB	40.1	15
MW-4	MTBE	246	20
MW-5	Benzene	77.8	5
	Naphthalene	126	100
	1,2,4-TMB	28.1	15
MW-14	Benzene	6.3	5
	1,2,4-TMB	99.6	15
MW-15	Benzene	259	5
	Ethylbenzene	834	700
	MTBE	47.3	20
	Naphthalene	224	100
	1,2,4-TMB	557	15
MW-16	MTBE	380	20
MW-17	Benzene	11.3	5

Further review of laboratory analytical results and groundwater isopleth maps suggest the contaminant plume has migrated to, but not beyond the POC as evidenced by the absence of contamination above respective Act 2 MSCs in off-site wells MW-6 through MW-12.

Comparison of Groundwater Data to Statewide Health Standard MSCs –1st Quarter 2020

Review of analytical results for the **1st Quarter 2020** groundwater monitoring event indicates several Project Parameters (Benzene, Ethylbenzene, MTBE, Naphthalene, and/or 1,2,4-TMB), were detected in groundwater samples collected from monitoring wells MW-2 through MW-5, and MW-14 through MW-17, at concentrations exceeding the applicable Act 2 SHS MSCs. The remaining contaminant concentrations were reported below their respective SHS MSCs for each

compound analyzed. Groundwater isopleth maps depicting the distribution of contaminants are included in Attachment N. Refer to Table 9 for a Summary of Exceedances.

Table 9
Quinn's Café Property
February 5-6, 2020 Groundwater Monitoring Event
Summary of Groundwater Exceedances (ug/l)

Location	Parameter	Concentration (ug/L)	Act 2 MSC (ug/L)
MW-2	Benzene	43.5	5
	1,2,4-TMB	29.9	15
MW-3	Benzene	371	5
	Ethylbenzene	899	700
	MTBE	27.1	20
	1,2,4-TMB	64.1	15
MW-4	MTBE	238	20
MW-5	Benzene	67.3	5
	Ethylbenzene	749	700
	Naphthalene	212	100
	1,2,4-TMB	475	15
MW-14	1,2,4-TMB	17.6	15
MW-15	Benzene	115	5
	Ethylbenzene	887	700
	MTBE	25.7	20
	Naphthalene	276	100
	1,2,4-TMB	743	15
MW-16	Benzene	50.1	5
	MTBE	185	20
MW-17	1,2,4-TMB	24.8	15

Further review of laboratory analytical results and groundwater isopleth maps suggest the contaminant plume has migrated to, but not beyond the POC as evidenced by the absence of contamination above respective Act 2 MSCs in off-site wells MW-6 through MW-12.

Temporal Trend Analysis

Time-series graphs were prepared for each compound that exceeded the respective MSCs within the last four (4) groundwater sampling events in MW-2 through MW-6 and MW-14 through MW-16. These graphs are included in Attachment O. 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 10 for a summary of the trends have been identified based on a review of the time-series graphs:

Table 10
Quinn's Café Property
Groundwater Analytical Data – Trend Summary

Well #	Compound	Trend	Concentration
MW-2	Benzene	Decreasing	Above MSC
	Naphthalene	Decreasing	Below MSC
	1,2,4-TMB	Decreasing	Above MSC
MW-3	Benzene	Decreasing	Above MSC
	Ethylbenzene	Increasing	Above MSC
	MTBE	Increasing	Above MSC
	Naphthalene	Stable	Below MSC
	1,2,4-TMB	Decreasing	Above MSC
MW-4	Benzene	Decreasing	Below MSC
	MTBE	Stable	Above MSC
MW-5	Benzene	Decreasing	Above MSC
	Ethylbenzene	Decreasing	Above MSC
	Naphthalene	Decreasing	Above MSC
	1,2,4-TMB	Decreasing	Above MSC
MW-6	Benzene	Decreasing	Below MSC
	MTBE	Decreasing	Below MSC
MW-14	Benzene	Decreasing	Below MSC
	1,2,4-TMB	Decreasing	Above MSC
MW-15	Benzene	Decreasing	Above MSC
	Ethylbenzene	Increasing	Above MSC
	MTBE	Decreasing	Above MSC
	Naphthalene	Increasing	Above MSC
	1,2,4-TMB	Increasing	Above MSC
MW-16	Benzene	Increasing	Above MSC
	MTBE	Decreasing	Above MSC
MW-17	Benzene	Decreasing	Below MSC
	1,2,4-TMB	Decreasing	Above MSC

As discussed above, several Project Parameters (Benzene, Ethylbenzene, MTBE, Naphthalene, and/or 1,2,4-TMB) were detected in groundwater samples collected from POC wells MW-14 through MW-17 at concentrations exceeding their respective Act 2 MSCs.

Vapor Intrusion Evaluation

As indicated in the Remedial Action Plan (RAP) dated May 1, 2019, and approved by PADEP on June 24, 2019, LaBella evaluated vapor intrusion exposure pathways as part of site characterization activities. As part of evaluating potential vapor intrusion exposure pathways, LaBella collected two (2) rounds of sub-slab vapor samples from beneath the Site building and adjacent Krenitsky property building. Two (2) sub-slab vapor samples were collected from beneath the property building and Krenitsky property during each round of sub-slab sampling. The results of the vapor intrusion evaluation indicate did not identify potentially complete soil-vapor exposure pathways or groundwater-vapor exposure pathways at the Site or adjacent Krenitsky property.

Site Conceptual Model / Findings

The Quinn's Café Stop property is located at 224 Main Street in the Borough of Archbald, Lackawanna County, Pennsylvania. The approximately 0.2-acre subject property is developed with a single-story, masonry block convenience store building (~1,800 square feet) constructed on a concrete slab, with two (2) fuel dispenser canopies, and five (5) associated UST systems. The Site maintains PADEP Facility ID #35-20617 for the five (5) current UST systems. The subject property is entirely covered by asphalt, concrete, and the above-referenced convenience store and canopies and serviced by public utilities, which include electric, municipal water, sanitary sewer, and natural gas. The average elevation of the subject property is approximately 952 feet above mean sea level (M.S.L.).

The Site Conceptual Model is as follows:

- The subject property is located along a shoulder of a narrow stream valley in the northeastern portion of Lackawanna County, Pennsylvania. Historically, the area surrounding the subject property consisted of a combination of residential, commercial, and industrial properties. In addition, the strip mining and deep mining of anthracite coal was a major industry in Archbald from the late 1800s through the 1950s. Since the 1960s, the Borough has seen a decrease in industrial activity and the current land usage is mostly residential and commercial in nature.

- Review of test boring logs indicate the Site and surrounding properties are underlain by brown sands and silts with abundant sandstone pebbles, cobbles and boulders typical of an alluvial deposit. A shallow groundwater aquifer has been identified in the unconsolidated geologic unit. This aquifer is located at an approximate depth of 5 feet below grade. This depth varies in response to the infiltration of precipitation. A relatively thin Smear Zone of 1- to 2 feet has been documented onsite.

- Bedrock beneath the Site has been mapped as the Pennsylvania-age Llewellyn Formation. The Llewellyn Formation consists of gray sandstones and shales containing numerous thick beds of anthracite coal. Depth to bedrock surface at the Site ranges from 1 foot to 9 feet below grade. Review of coal mine maps indicates a mine pool is located at an approximate depth of 117 feet below grade.

- A review of site drainage patterns indicates the Lackawanna River is located approximately 0.4 miles northeast of the subject property. The calculated

groundwater flow direction at the subject property (in the shallow aquifer) is to the southeast toward the Lackawanna River. Due to the effects of coal mining, the Lackawanna River is considered an influent stream.

- On November 6, 2019, PADEP conducted a Compliance Evaluation (CE) inspection of the Site. During the CE inspection, PADEP observed soil discoloration and noted petroleum-related odors beneath Dispensers 5/6 (Diesel) and 7 (Off Road Diesel). Weeping of the piping and/or pump was reportedly observed beneath both diesel dispensers. Soil contamination in an area with approximate dimensions of 4 inches by 30 inches was noted near Dispensers 5/6 where the pavement had degraded along the concrete pad. The concrete pad associated with the diesel dispensers was stained and some residual absorbent material from a recent spill cleanup was present. Based on the findings of the CE inspection, PADEP issued a NOV to DK & DK, LLC on November 7, 2019 and requested completion of a site characterization to evaluate the petroleum release. On November 15, 2019, Francis Smith & Sons, Inc. of Scott Township, Pennsylvania tightened the union at the diesel dispenser, replaced the control board for the diesel dispenser, and cleaned the card readers in all the dispensers as needed.

- Between January 6, 2020 and April 20, 2020, LaBella conducted field activities to characterize the petroleum release at the diesel/off-road diesel dispensers. Site characterization activities included: (1) completion of eleven test borings (designated SB-21 through SB-31); and (2) collection and analysis of twenty-four (24) soil samples from the aforementioned test borings (22 soil samples) and two (2) soil samples collected from beneath the diesel and off-road diesel dispensers.

- The results of the abbreviated SCR identified the presence of soil contamination in the Smear Zone at the subject property. No soil contamination of the overlying Vadose Zone was identified during site characterization activities. Soil contamination is located in the previously identified Smear Zone associated with the gasoline USTs. As such, the presence of Project Parameters (naphthalene and 1,2,4-TMB) in the Smear Zone of test borings TB-25, TB-25, TB-28, and TB-30 cannot be definitively attributable to the release from the diesel/off-road diesel dispensers.

- Review of the most recent quarterly groundwater monitoring results (4th Quarter 2019 and 1st Quarter 2020) and the associated groundwater isopleth maps suggest the November 2019 petroleum release at the diesel/off-road diesel dispensers has not contributed to groundwater contamination at the Site.

Implementation of the Remedial Action Plan

As indicated in this Abbreviated SCR, it appears no residual soil or groundwater contamination can be definitively attributed to the 2019 release of diesel fuel, beyond the small quantity of impacted soil removed from the area beneath the dispensers. Since the May 1, 2019 RAP addresses soil and groundwater contamination in this general area of the site, LaBella concludes that the RAP is applicable to this 2019 release as well. PADEP did approve this RAP via correspondence dated June 24, 2019. The major components of the RAP are provided in the following project schedule **(Table 11)** summary:

Table 11
Project Schedule
Proposed Soil & Groundwater Remediation
Quinn's Café Stop

Task #	Description	Timeframe
	Submit RAP to PADEP	Completed
	Obtain RAP Approval From PADEP	Completed
	Quarterly Groundwater Monitoring & RAPR Preparation	Ongoing
	1st Quarter Groundwater Monitoring	Completed
	1st Quarter RAPR Submittal	Completed
	2nd Quarter Groundwater Monitoring	May 2020
	2nd Quarter RAPR Submittal	July 30, 2020
	Claim 2019-0194 Abbreviated Site Characterization Test Borings	Completed
	Claim 2019-0194 Abbreviated Site Characterization – Delineation Test Borings	Completed
	Abbreviated Site Characterization Report	Completed
1.0	Project Planning / Project Management	Completed
1.1	Scope of Work & Project Guidance Documents	Completed
1.2	Project Management	Ongoing
2.0	Baseline Groundwater Monitoring Activities	May 2020
3.0	Access Agreements and Permits	
	Prepare & Submit PADEP Form M-5	Completed
	Receive PennDOT M-5 Approval (Estimated)	May 2020
	Submit USEPA UIC Permit Documentation	Completed
	Receive USEPA Approval	Completed
	Submit PADEP Request for Determination Application	Completed
	Receive PADEP Approval	Completed
4.0	Supplemental AS Only Pilot Test	
	Install Additional AS Point & POC Monitoring Wells	Completed
	Complete Supplemental AS Only Pilot Test	Completed
5.0	Installation of Full Scale System	June 2020
	Initiate SVE/AS System Operation	June 2020
6.0	Quarterly Groundwater Monitoring Activities	
6.1 – 6.8	Remediation Monitoring	June 2020 – March 2022
6.9 – 6.16	Attainment Monitoring	June 2022 – March 2024

Table 11 (Cont.)
Project Schedule
Proposed Soil & Groundwater Remediation
Quinn's Café Stop

Task #	Description	Timeframe
7.0	Waste Material Handling – Disposal of Spoils	
	Waste Material Handling – Disposal of Spent Carbon	As Necessary
	Waste Material Handling – Disposal of System Water	As Necessary
8.0	Demonstration of Soil Attainment	April 2024
9.0	Preparation of RACR	June 2024
10.0	Site Closure	TBD

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,

Donald Coleman
Senior Geologist
LaBella Associates, P.C.

Martin Gilgallon, P.G.
Regional Environmental Manager
LaBella Associates, P.C.
Pennsylvania Registered Professional
Geologist No. 000639-G

"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"

DC/mg – 2171853 – Incident #51850

Attachments

cc: Mr. Joe Mott/ DK & DK, LLC
Shane Marion / ICF International
LaBella Associates Project File #2171853

ATTACHMENT A

Site Maps and Figures

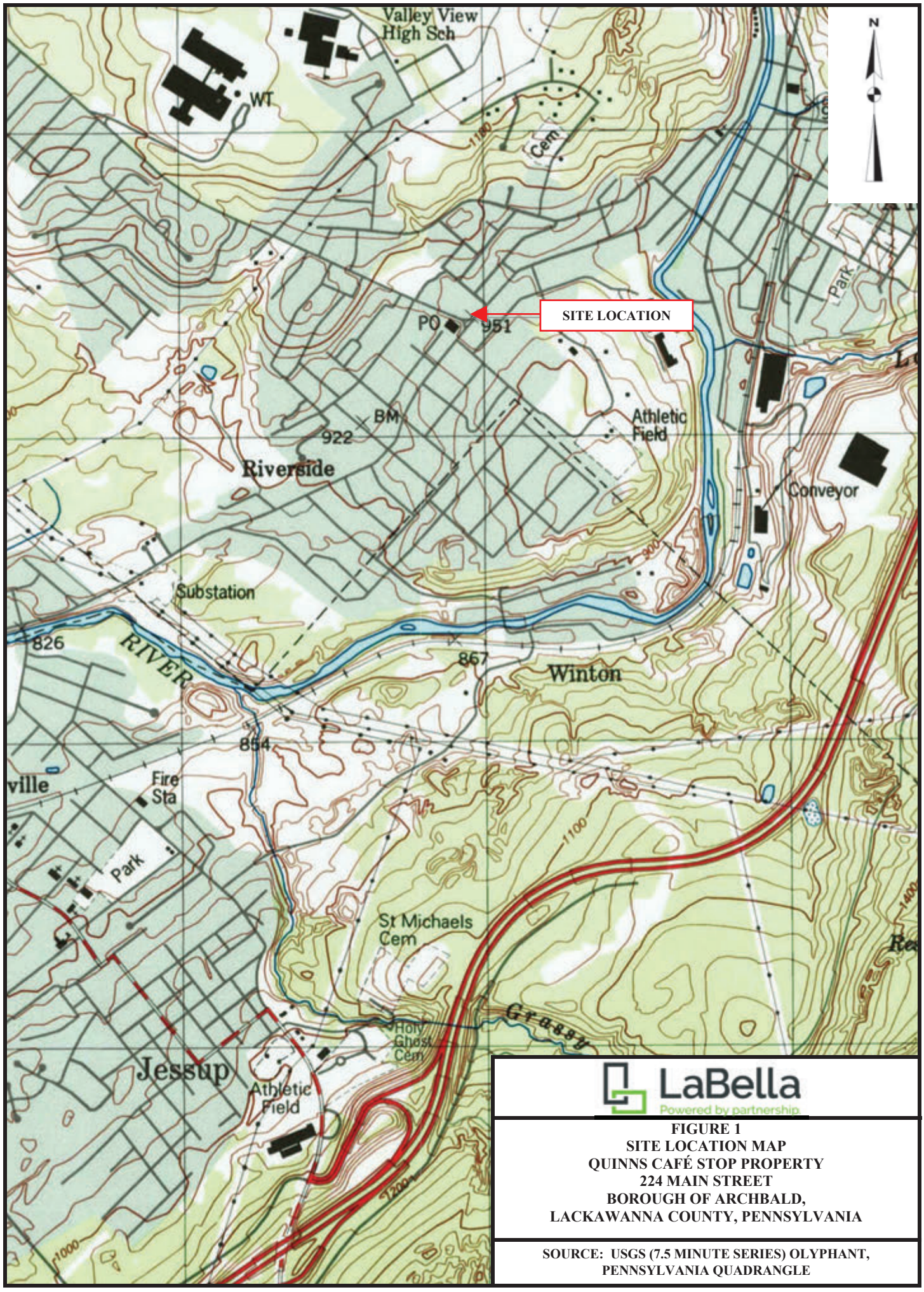

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FIGURE 1
SITE LOCATION MAP
QUINNS CAFÉ STOP PROPERTY
224 MAIN STREET
BOROUGH OF ARCHBALD,
LACKAWANNA COUNTY, PENNSYLVANIA

SOURCE: USGS (7.5 MINUTE SERIES) OLYPHANT, PENNSYLVANIA QUADRANGLE

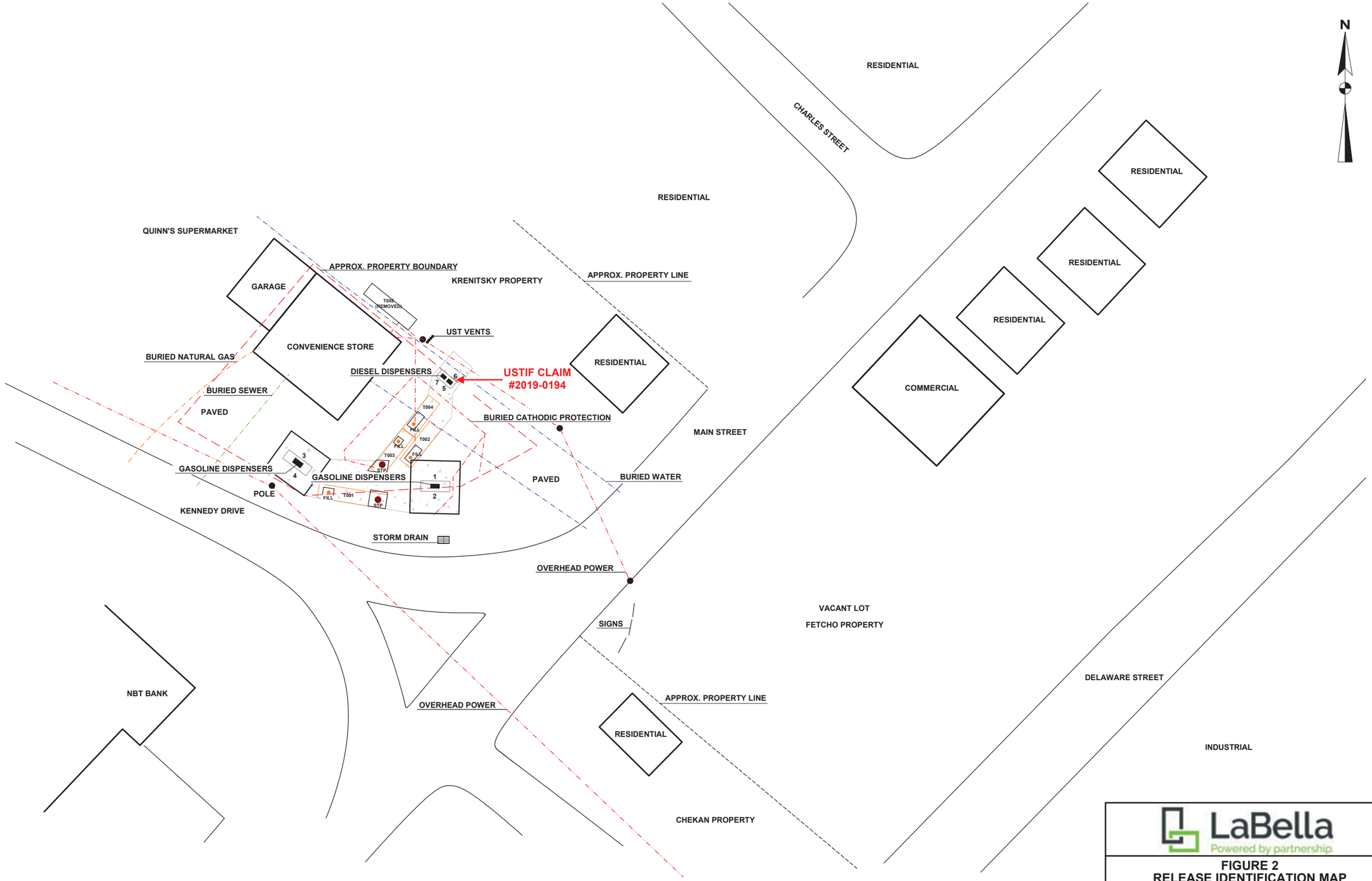

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FIGURE 2
RELEASE IDENTIFICATION MAP
QUINN'S CAFE STOP PROPERTY
224 MAIN STREET
BOROUGH OF ARCHBALD,
LACKAWANNA COUNTY, PENNSYLVANIA

DRAWN BY: KC DATE: 10/29/2019
SCALE: 1" = 40'

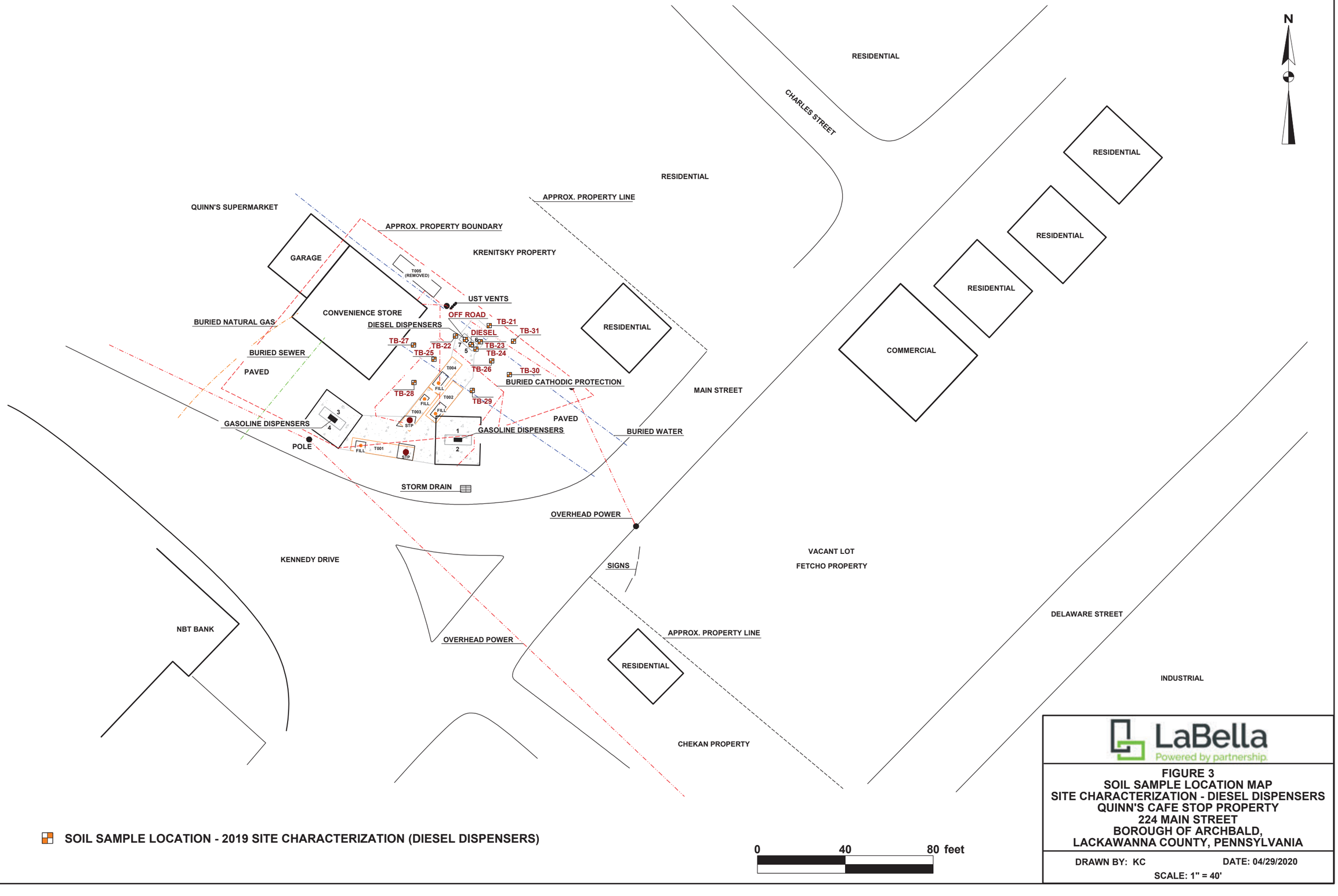

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FIGURE 3
SOIL SAMPLE LOCATION MAP
SITE CHARACTERIZATION - DIESEL DISPENSERS
QUINN'S CAFE STOP PROPERTY
224 MAIN STREET
BOROUGH OF ARCHBALD,
LACKAWANNA COUNTY, PENNSYLVANIA

DRAWN BY: KC DATE: 04/29/2020
SCALE: 1" = 40'

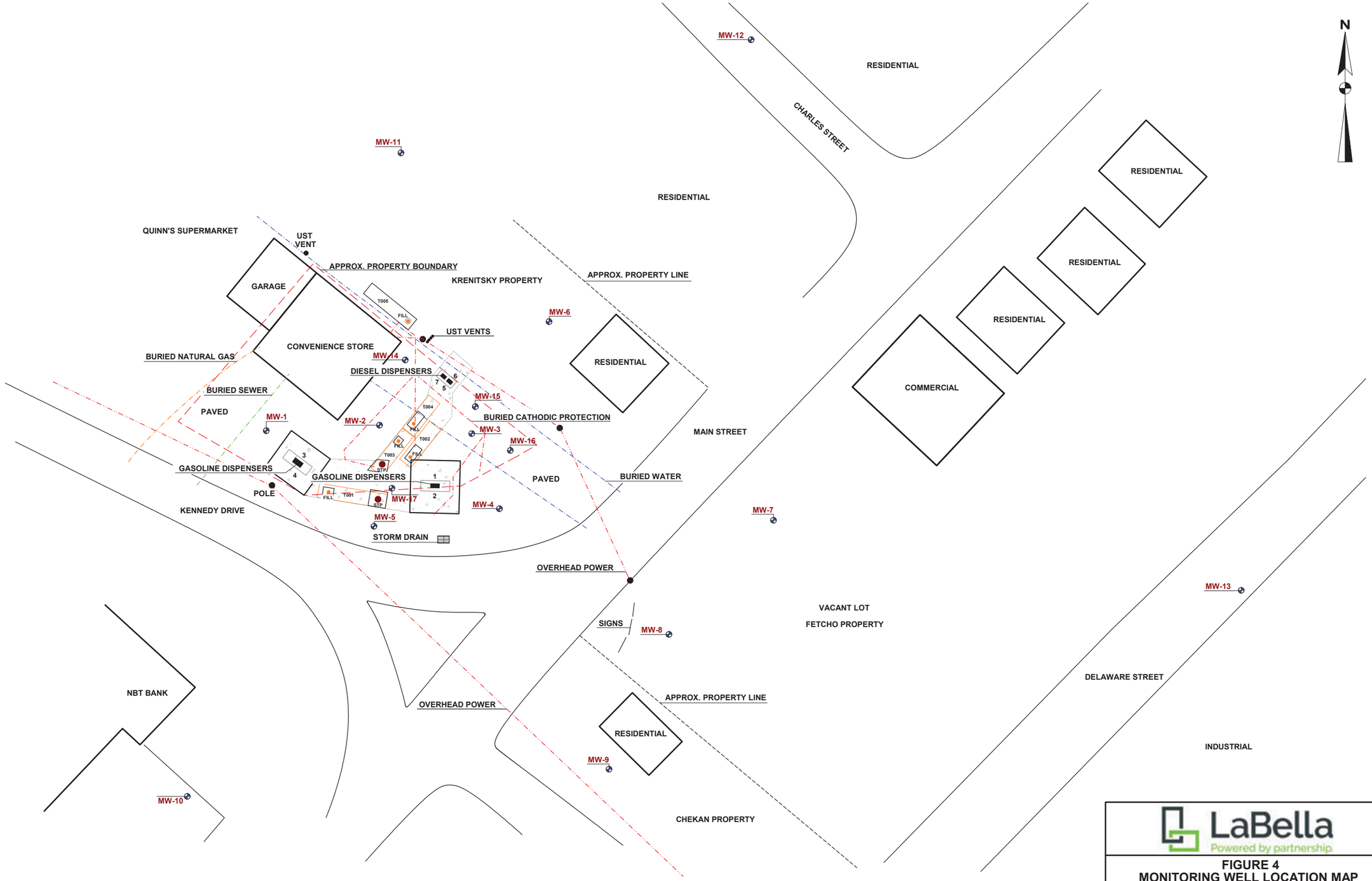

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FIGURE 4
MONITORING WELL LOCATION MAP
QUINN'S CAFE STOP PROPERTY
224 MAIN STREET
BOROUGH OF ARCHBALD,
LACKAWANNA COUNTY, PENNSYLVANIA

DRAWN BY: KC DATE: 10/29/2019
SCALE: 1" = 40'

EXTENT OF VADOSE ZONE CONTAMINATION

ANALYTICAL DATA ABOVE RESPECTIVE MSCs

ANALYTICAL DATA BELOW RESPECTIVE MSCs

ANALYTICAL DATA BELOW LABORATORY MDLs

N

MW-12

RESIDENTIAL

CHARLES STREET

RESIDENTIAL

RESIDENTIAL

RESIDENTIAL

RESIDENTIAL

COMMERCIAL

TB-8

RESIDENTIAL

APPROX. PROPERTY LINE

QUINN'S SUPERMARKET

APPROX. PROPERTY BOUNDARY

KRENITSKY PROPERTY

GARAGE

T005 (REMOVED)

TB-15

MW-6

UST VENTS

CONVENIENCE STORE

OFF ROAD

TB-3

TB-21

BURIED NATURAL GAS

DIESEL DISPENSERS

DIESEL

TB-31

TB-14

TB-16

TB-27

TB-22

TB-23

RESIDENTIAL

BURIED SEWER

TB-25

TB-24

TB-9

T004 FILL

T004

TB-26

TB-10

PAVED

MW-2

TB-30

MW-1

TB-13

MW-3

BURIED CATHODIC PROTECTION

TB-28

TB-17

TB-2

T003 FILL

T002

TB-29

MAIN STREET

TB-1

T003 STP

TB-5

TB-11

TB-12

PAVED

GASOLINE DISPENSERS

T002 FILL

GASOLINE DISPENSERS

BURIED WATER

T001 FILL

T001 STP

TB-18

TB-20

POLE

TB-6

MW-4

TB-4

TB-19

MW-5

TB-7

STORM DRAIN

MW-7

OVERHEAD POWER

MW-13

KENNEDY DRIVE

VACANT LOT

FETCHO PROPERTY

SIGNS

MW-8

DELAWARE STREET

NBT BANK

APPROX. PROPERTY LINE

OVERHEAD POWER

RESIDENTIAL

MW-9

INDUSTRIAL

MW-10

CHEKAN PROPERTY

0 40 80 feet

LaBella
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FIGURE 5
SOIL CONTAMINATION DISTRIBUTION MAP
VADOSE ZONE
QUINN'S CAFE STOP PROPERTY
224 MAIN STREET
BOROUGH OF ARCHBALD, LACKAWANNA COUNTY, PENNSYLVANIA

DRAWN BY: KC DATE: 04/29/2020

SCALE: 1" = 40'

EXTENT OF SMEAR ZONE CONTAMINATION

ANALYTICAL DATA ABOVE RESPECTIVE MSCs

ANALYTICAL DATA BELOW RESPECTIVE MSCs

ANALYTICAL DATA BELOW LABORATORY MDLs

N

MW-12

RESIDENTIAL

CHARLES STREET

RESIDENTIAL

RESIDENTIAL

RESIDENTIAL

COMMERCIAL

TB-8

RESIDENTIAL

APPROX. PROPERTY LINE

QUINN'S SUPERMARKET

APPROX. PROPERTY BOUNDARY

KRENITSKY PROPERTY

GARAGE

T005 (REMOVED)

TB-15

MW-6

UST VENTS

CONVENIENCE STORE

TB-3

TB-21

BURIED NATURAL GAS

DIESEL DISPENSERS

TB-31

TB-14

TB-16

TB-27

TB-22

TB-23

RESIDENTIAL

BURIED SEWER

TB-25

TB-24

TB-10

PAVED

T004

TB-26

TB-30

MW-2

MW-3

BURIED CATHODIC PROTECTION

TB-13

FILL

TB-28

T002

TB-17

MAIN STREET

TB-29

FILL

T003

TB-5

TB-11

TB-12

GASOLINE DISPENSERS

STP

PAVED

1

GASOLINE DISPENSERS

BURIED WATER

POLE

TB-20

FILL

T001

2

TB-18

TB-6

MW-4

TB-4

STP

STORM 1

MW-7

TB-19

MW-5

TB-7

STORM DRAIN

SIDEWALL

UNDER PIPE

STORM 2

OVERHEAD POWER

MW-13

KENNEDY DRIVE

VACANT LOT

FETCHO PROPERTY

SIGNS

MW-8

DELAWARE STREET

NBT BANK

APPROX. PROPERTY LINE

OVERHEAD POWER

RESIDENTIAL

INDUSTRIAL

MW-9

MW-10

CHEKAN PROPERTY

0 40 80 feet

LaBella Powered by partnership

FIGURE 6
SOIL CONTAMINATION DISTRIBUTION MAP
QUINN'S CAFE STOP PROPERTY
224 MAIN STREET
BOROUGH OF ARCHBALD,
LACKAWANNA COUNTY, PENNSYLVANIA

DRAWN BY: KC DATE: 04/29/2020

SCALE: 1" = 40'

ATTACHMENT B

Tables

Table B-1
LaBella Associates, P.C.
Groundwater Elevation Data
Quinn's Café Stop Property

Date	Number	MW-1 Static	MW-1 Elevation	MW-1 GW Elevation	MW-2 Static	MW-2 Elevation	MW-2 GW Elevation	MW-3 Static	MW-3 Elevation	MW-3 GW Elevation	MW-4 Static	MW-4 Elevation	MW-4 GW Elevation	MW-5 Static	MW-5 Elevation	MW-5 GW Elevation
2/3/2017	42769.00	4.61	952.41	947.80	4.45	951.84	947.39	3.73	951.10	947.37	4.44	950.71	946.27	3.38	950.65	947.27
2/15/2017	42781.00	4.00	952.41	948.41	4.41	951.84	947.43	3.70	951.10	947.40	4.44	950.71	946.27	3.34	950.65	947.31
6/16/2017	42902.00	5.08	952.41	947.33	5.05	951.84	946.79	4.69	951.10	946.41	4.88	950.71	945.83	3.89	950.65	946.76
6/27/2017	42913.00	4.46	952.41	947.95	4.91	951.84	946.93	4.63	951.10	946.47	4.88	950.71	945.83	3.78	950.65	946.87
9/11/2017	42989.00	3.98	952.41	948.43	4.30	951.84	947.54	3.73	951.10	947.37	5.15	950.71	945.56	3.32	950.65	947.33
11/30/2017	43069.00	5.45	952.41	946.96	5.39	951.84	946.45	5.28	951.10	945.82	5.24	950.71	945.47	4.28	950.65	946.37
1/22/2018	43122.00	5.53	952.41	946.88	5.43	951.84	946.41	5.18	951.10	945.92	5.32	950.71	945.39	4.28	950.65	946.37
4/9/2018	43199.00	4.92	952.41	947.49	4.80	951.84	947.04	4.29	951.10	946.81	5.21	950.71	945.50	3.68	950.65	946.97
7/9/2018	43290.00	5.21	952.41	947.20	5.39	951.84	946.45	4.98	951.10	946.12	5.30	950.71	945.41	4.28	950.65	946.37
1/28/2019	43290.00	4.32	952.41	948.09	4.56	951.84	947.28	3.89	951.10	947.21	4.99	950.71	945.72	3.50	950.65	947.15
5/28/2019	43613.00	4.61	952.41	947.80	4.63	951.84	947.21	4.08	951.10	947.02	5.04	950.71	945.67	3.55	950.65	947.10
9/10/2019	43718.00	5.43	952.41	946.98	5.55	951.84	946.29	5.18	951.10	945.92	5.47	950.71	945.24	4.56	950.65	946.09
12/5/2019	43804.00	4.01	952.41	948.40	5.15	951.84	946.69	4.82	951.10	946.28	5.27	950.71	945.44	4.19	950.65	946.46
2/5/2020	43866.00	4.78	952.41	947.63	5.01	951.84	946.83	4.69	951.10	946.41	5.35	950.71	945.36	4.02	950.65	946.63

NM **Not Measured**

Table B-1
LaBella Associates, P.C.
Groundwater Elevation Data
Quinn's Café Stop Property

Date	Number	MW-6 Static	MW-6 Elevation	MW-6 GW Elevation	MW-7 Static	MW-7 Elevation	MW-7 GW Elevation	MW-8 Static	MW-8 Elevation	MW-8 GW Elevation	MW-9 Static	MW-9 Elevation	MW-9 GW Elevation	MW-10 Static	MW-10 Elevation	MW-10 GW Elevation
2/3/2017	42769.00	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
2/15/2017	42781.00	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
6/16/2017	42902.00	4.36	950.38	946.02	7.48	952.77	945.29	6.31	951.98	945.67	6.31	951.73	945.42	9.89	957.32	947.43
6/27/2017	42913.00	4.27	950.38	946.11	7.49	952.77	945.28	6.27	951.98	945.71	6.12	951.73	945.61	15.32	957.32	942.00
9/11/2017	42989.00	3.64	950.38	946.74	7.23	952.77	945.54	5.02	951.98	946.96	5.05	951.73	946.68	8.17	957.32	949.15
11/30/2017	43069.00	4.71	950.38	945.67	7.71	952.77	945.06	6.05	951.98	945.93	6.04	951.73	945.69	9.47	957.32	947.85
1/22/2018	43122.00	2.94	950.38	947.44	7.58	952.77	945.19	6.05	951.98	945.93	5.97	951.73	945.76	8.43	957.32	948.89
4/9/2018	43199.00	3.94	950.38	946.44	7.14	952.77	945.63	5.13	951.98	946.85	5.04	951.73	946.69	8.03	957.32	949.29
7/9/2018	43290.00	4.78	950.38	945.60	7.78	952.77	944.99	6.66	951.98	945.32	6.48	951.73	945.25	9.76	957.32	947.56
1/28/2019	43290.00	3.53	950.38	946.85	6.37	952.77	946.40	4.67	951.98	947.31	4.38	951.73	947.35	7.47	957.32	949.85
5/28/2019	43613.00	3.45	950.38	946.93	6.89	952.77	945.88	4.69	951.98	947.29	3.82	951.73	947.91	7.88	957.32	949.44
9/10/2019	43718.00	4.84	950.38	945.54	7.74	952.77	945.03	6.70	951.98	945.28	6.52	951.73	945.21	9.96	957.32	947.36
12/5/2009	40152.00	4.19	950.38	946.19	7.11	952.77	945.66	4.89	951.98	947.09	5.10	951.73	946.63	7.88	957.32	949.44
2/5/2020	43866.00	4.43	950.38	945.95	6.97	952.77	945.80	4.61	951.98	947.37	4.91	951.73	946.82	8.04	957.32	949.28

NM **Not Measured**

Table B-1
LaBella Associates, P.C.
Groundwater Elevation Data
Quinn's Café Stop Property

Date	Number	MW-11 Static	MW-11 Elevation	MW-11 GW Elevation	MW-12 Static	MW-12 Elevation	MW-12 GW Elevation	MW-13 Static	MW-13 Elevation	MW-13 GW Elevation	MW-14 Static	MW-14 Elevation	MW-14 GW Elevation	MW-15 Static	MW-15 Elevation	MW-15 GW Elevation
2/3/2017	42769.00	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
2/15/2017	42781.00	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
6/16/2017	42902.00	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
6/27/2017	42913.00	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
9/11/2017	42989.00	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
11/30/2017	43069.00	6.26	953.36	953.36	5.99	941.59	935.60	13.14	954.76	941.62	NM	NM	NM	NM	NM	NM
1/22/2018	43122.00	5.80	953.36	947.56	5.74	941.59	935.85	12.63	954.76	942.13	NM	NM	NM	NM	NM	NM
4/9/2018	43199.00	4.66	953.36	948.70	4.95	941.59	936.64	10.93	954.76	943.83	NM	NM	NM	NM	NM	NM
7/9/2018	43290.00	6.78	953.36	946.58	6.53	941.59	935.06	12.59	954.76	942.17	NM	NM	NM	NM	NM	NM
1/28/2019	43290.00	NM	953.36	NA	4.17	941.59	937.42	10.31	954.76	944.45	NM	NM	NM	NM	NM	NM
5/28/2019	43613.00	5.00	953.36	948.36	3.91	941.59	937.68	10.01	954.76	944.75	NM	NM	NM	NM	NM	NM
9/10/2019	43718.00	7.16	953.36	946.20	6.08	941.59	935.51	11.18	954.76	943.58	5.68	952.08	946.40	5.18	951.12	945.94
12/5/2019	43804.00	5.23	953.36	948.13	5.00	941.59	936.59	11.22	954.76	943.54	5.16	952.08	946.92	4.74	951.12	946.38
2/5/2020	43866.00	4.74	953.36	948.62	4.74	941.59	936.85	10.45	954.76	944.31	5.10	952.08	946.98	4.66	951.12	946.46

NM **Not Measured**

Table B-1
LaBella Associates, P.C.
Groundwater Elevation Data
Quinn's Café Stop Property

Date	Number	MW-16 Static	MW-16 Elevation	MW-16 GW Elevation	MW-17 Static	MW-17 Elevation	MW-17 GW Elevation
2/3/2017	42769.00	NM	NM	NM	NM	NM	NM
2/15/2017	42781.00	NM	NM	NM	NM	NM	NM
6/16/2017	42902.00	NM	NM	NM	NM	NM	NM
6/27/2017	42913.00	NM	NM	NM	NM	NM	NM
9/11/2017	42989.00	NM	NM	NM	NM	NM	NM
11/30/2017	43069.00	NM	NM	NM	NM	NM	NM
1/22/2018	43122.00	NM	NM	NM	NM	NM	NM
4/9/2018	43199.00	NM	NM	NM	NM	NM	NM
7/9/2018	43290.00	NM	NM	NM	NM	NM	NM
1/28/2019	43290.00	NM	NM	NM	NM	NM	NM
5/28/2019	43613.00	NM	NM	NM	NM	NM	NM
9/10/2019	43718.00	5.32	950.61	945.29	4.56	951.39	946.83
12/5/2019	43804.00	5.14	950.61	945.47	4.18	951.39	947.21
2/5/2020	43866.00	5.12	950.61	945.49	4.06	951.39	947.33

NM **Not Measured**

Table B-1
LaBella Associates, P.C.
Groundwater Elevation Data
Quinn's Café Stop Property

Date	Number	AS-1 Static	AS-1 Elevation	AS-1 GW Elevation	MP-2 Static	MP-2 Elevation	MP-2 GW Elevation	MP-3 Static	MP-3 Elevation	MP-3 GW Elevation
2/3/2017	42769.00	NM	NM	NM	NM	NM	NM	NM	NM	NM
2/15/2017	42781.00	NM	NM	NM	NM	NM	NM	NM	NM	NM
6/16/2017	42902.00	NM	NM	NM	NM	NM	NM	NM	NM	NM
6/27/2017	42913.00	NM	NM	NM	NM	NM	NM	NM	NM	NM
9/11/2017	42989.00	NM	NM	NM	NM	NM	NM	NM	NM	NM
11/30/2017	43069.00	NM	NM	NM	NM	NM	NM	NM	NM	NM
1/22/2018	43122.00	NM	NM	NM	NM	NM	NM	NM	NM	NM
4/9/2018	43199.00	NM	NM	NM	NM	NM	NM	NM	NM	NM
7/9/2018	43290.00	NM	NM	NM	NM	NM	NM	NM	NM	NM
1/28/2019	43290.00	6.63	NM	NM	3.76	NM	NM	3.85	NM	NM
5/28/2019	43613.00	4.37	NM	NM	3.68	NM	NM	3.70	NM	NM
9/10/2019	43718.00	5.08	NM	NM	4.60	NM	NM	4.46	NM	NM
12/5/2019	43804.00	5.04	NM	NM	4.39	NM	NM	4.61	NM	NM
2/5/2020	43866.00	NM	NM	NM	NM	NM	NM	NM	NM	NM

NM **Not Measured**

Table B-2
Site Characterization Activities
Quinn's Café Stop Property
Summary of Soil Analytical Data (mg/kg)
Diesel and Off-Road Diesel Dispensers

Parameter	TB-21A	TB-21B	TB-22A	TB-22B	TB-23A	TB-23B	SHS MSC*	SHS MSC**
Depth (ft)	**2.5-3.0**	**4.5-5.0**	**2.0-2.5**	**4.0-4.5**	**2.5-3.0**	**4.5-5.0**		
Condition	**Vadose**	**Smear**	**Vadose**	**Smear**	**Vadose**	**Smear**		
% Moisture	**13.6%**	**28.2%**	**6.1%**	**5.0%**	**10.2%**	**16.1%**		
Sample Date	**1/6/2020**	**1/6/2020**	**1/6/2020**	**1/6/2020**	**1/6/2020**	**1/6/2020**		
Benzene	**0.0404**	<0.0597	<0.0362	<0.0298	<0.0347	<0.0404	0.5	0.5
Ethylbenzene	**0.44**	<0.0597	**0.162**	<0.0298	<0.0347	<0.0404	70	70
Isopropylbenzene (Cumene)	**0.4**	<0.0597	<0.0362	<0.0298	<0.0347	<0.0404	2,500	350
MTBE	<0.0378	<0.0597	<0.0362	<0.0298	<0.0347	<0.0404	2	2
Naphthalene	**1.88**	<0.119	**0.076**	<0.0595	<0.0347	<0.0809	25	10
Toluene	**0.0554**	**0.242**	<0.0362	<0.0298	**0.0366**	<0.0404	100	100
1,2,4-Trimethylbenzene	<0.0378	<0.0597	**0.504**	<0.0298	<0.0347	<0.0404	35	6.2
1,3,5-Trimethylbenzene	<0.0378	<0.0597	<0.0362	<0.0298	<0.0347	<0.0404	210	120

MTBE	Methyl Tert Butyl Ether	PA Act 2 Statewide Health Standards for Non-Residential Used Aquifer setting
1,2,4-TMB	1,2,4-Trimethylbenzene	
1,3,5-TMB	1,3,5-Trimethylbenzene	Shaded values indicate Act 2 SHS exceedances - Unsaturated Zone*
		Shaded values indicate Act 2 SHS exceedences - Saturated Zone**

Condition:
Vadose: Vadose Zone - Unsaturated MSCs Apply
Smear: Zone of Groundwater Saturation (Smear Zone) - Saturated MSCs Apply

Table B-2
Site Characterization Activities
Quinn's Café Stop Property
Summary of Soil Analytical Data (mg/kg)
Diesel and Off-Road Diesel Dispensers

Test Boring	TB-24A	TB-24B	TB-25A	TB-25B	TB-26A	TB-26B	SHS MSC*	SHS MSC**
Depth (ft)	**2.5-3.0**	**4.5-5.0**	**2.0-2.5**	**5.0-5.5**	**2.5-3.0**	**4.5-5.0**		
Condition	**Vadose**	**Smear**	**Vadose**	**Smear**	**Vadose**	**Smear**		
% Moisture	**3.6%**	**15.1%**	**7.6%**	**24.2%**	**8.2%**	**32.8%**		
Sample Date	**1/6/2020**	**1/6/2020**	**1/6/2020**	**1/6/2020**	**1/6/2020**	**1/6/2020**		
Benzene	<0.0235	<0.0347	<0.0303	**0.0618**	<0.0313	**0.198**	0.5	0.5
Ethylbenzene	<0.0235	<0.0347	<0.0303	**8.96**	**0.0329**	**8.09**	70	70
Isopropylbenzene (Cumene)	<0.0235	<0.0347	<0.0303	**1.69**	<0.0313	**3.34**	2,500	350
MTBE	<0.0235	<0.0347	<0.0303	<0.0411	<0.0313	<0.0537	2	2
Naphthalene	<0.0469	<0.0695	<0.0605	**7.76**	**0.203**	**18.3**	25	10
Toluene	<0.0235	**0.0768**	<0.0303	**0.107**	**0.0356**	**0.148**	100	100
1,2,4-Trimethylbenzene	<0.0235	<0.0347	<0.0303	**34.5**	**0.135**	**47.7**	35	6.2
1,3,5-Trimethylbenzene	<0.0235	<0.0347	<0.0303	**0.687**	<0.0313	<0.0537	210	120

MTBE	Methyl Tert Butyl Ether	PA Act 2 Statewide Health Standards for Non-Residential Used Aquifer setting
1,2,4-TMB	1,2,4-Trimethylbenzene	
1,3,5-TMB	1,3,5-Trimethylbenzene	Shaded values indicate Act 2 SHS exceedances - Unsaturated Zone*
		Shaded values indicate Act 2 SHS exceedences - Saturated Zone**

Condition:
Vadose: Vadose Zone - Unsaturated MSCs Apply
Smear: Zone of Groundwater Saturation (Smear Zone) - Saturated MSCs Apply

Table B-2
Site Characterization Activities
Quinn's Café Stop Property
Summary of Soil Analytical Data (mg/kg)
Diesel and Off-Road Diesel Dispensers

Test Boring	TB-27A	TB-27B	TB-28A	TB-28B	TB-29A	TB-29B	SHS MSC*	SHS MSC**
Depth (ft)	**2.0'-2.5'**	**4.5'-5.0'**	**2.0'-2.5'**	**4.5'-5.0'**	**2.0'-2.5'**	**4.5'-5.0'**		
Condition	**Vadose**	**Smear**	**Vadose**	**Smear**	**Vadose**	**Smear**		
% Moisture	**15.4%**	**20.5%**	**12.5%**	**19.0%**	**15.1%**	**16.3%**		
Sample Date	**4/20/2020**	**4/20/2020**	**4/20/2020**	**4/20/2020**	**4/20/2020**	**4/20/2020**		
Benzene	<0.0367	<0.0347	<0.0289	<0.0320	<0.0311	<0.0305	0.5	0.5
Ethylbenzene	<0.0367	<0.0347	<0.0289	**13.0**	**0.0534**	<0.0305	70	70
Isopropylbenzene (Cumene)	<0.0367	<0.0347	<0.0289	**2.63**	<0.0311	<0.0305	2,500	350
MTBE	<0.0367	<0.0347	<0.0289	<0.0320	<0.0311	<0.0305	2	2
Naphthalene	<0.0733	<0.0694	<0.0577	**10.4**	<0.0621	<0.0609	25	10
Toluene	<0.0367	<0.0347	<0.0289	**0.086**	**0.0579**	<0.0305	100	100
Xylenes, Total	<110	<104	<0.0866	**32.2**	**0.199**	<0.0914	1,000	1,000
1,2,4-Trimethylbenzene	<0.0367	<0.0347	<0.0289	**112**	**0.086**	<0.0305	35	6.2
1,3,5-Trimethylbenzene	<0.0367	<0.0347	<0.0289	**23.4**	<0.0311	<0.0305	210	120

MTBE	Methyl Tert Butyl Ether
1,2,4-TMB	1,2,4-Trimethylbenzene
1,3,5-TMB	1,3,5-Trimethylbenzene

PA Act 2 Statewide Health Standards for Non-Residential Used Aquifer setting

Shaded values indicate Act 2 SHS exceedances - Unsaturated Zone*

Shaded values indicate Act 2 SHS exceedences - Saturated Zone**

Condition:
Vadose: Vadose Zone - Unsaturated MSCs Apply
Smear: Zone of Groundwater Saturation (Smear Zone) - Saturated MSCs Apply

Table B-2
Site Characterization Activities
Quinn's Café Stop Property
Summary of Soil Analytical Data (mg/kg)
Diesel and Off-Road Diesel Dispensers

Test Boring	TB-30A	TB-30B	TB-31A	TB-31B	OFF-ROAD	DIESEL	SHS MSC*	SHS MSC**
Depth (ft)	**2.5'-3.0'**	**5.0'-5.5'**	**2.0'-3.0'**	**5.0'-5.5'**	**2.0 - 2.5**	**2.0 - 2.5**		
Condition	**Vadose**	**Smear**	**Vadose**	**Smear**	**Vadose**	**Vadose**		
% Moisture	**12.8%**	**24.6%**	**16.8%**	**39.2%**				
Sample Date	**4/20/2020**	**4/20/2020**	**4/20/2020**	**4/20/2020**	**1/6/2020**	**1/6/2020**		
Benzene	<0.0294	<0.215	<0.0344	<0.0571	<0.0225	<0.0449	0.5	0.5
Ethylbenzene	<0.0294	**6.1**	<0.0344	<0.0571	<0.0225	<0.0449	70	70
Isopropylbenzene (Cumene)	<0.0294	**1.45**	<0.0344	<0.0571	<0.0225	<0.0449	2,500	350
MTBE	<0.0294	<0.215	<0.0344	<0.0571	<0.0225	<0.0449	2	2
Naphthalene	<0.0587	**18.8**	**0.0904**	<0.114	<0.045	<0.0898	25	10
Toluene	<0.0294	<0.215	<0.0344	<0.0571	<0.0225	<0.0449	100	100
Xylenes, Total	<0.0881	**8.51**	<0.103	<0.171	<0.0225	<0.0449	1,000	1,000
1,2,4-Trimethylbenzene	**0.0519**	**49.4**	**0.0732**	<0.0571	<0.0225	<0.0449	35	6.2
1,3,5-Trimethylbenzene	<0.0294	<0.215	<0.0344	<0.0571	<0.0225	<0.0449	210	120

MTBE	Methyl Tert Butyl Ether	PA Act 2 Statewide Health Standards for Non-Residential Used Aquifer setting
1,2,4-TMB	1,2,4-Trimethylbenzene	
1,3,5-TMB	1,3,5-Trimethylbenzene	Shaded values indicate Act 2 SHS exceedances - Unsaturated Zone*
		Shaded values indicate Act 2 SHS exceedences - Saturated Zone**

Condition:
Vadose: Vadose Zone - Unsaturated MSCs Apply
Smear: Zone of Groundwater Saturation (Smear Zone) - Saturated MSCs Apply
Diesel - Diesel Dispenser
Off - Road - Off-Road Diesel Dispenser

Table B-3
Site Characterization Activities
Quinn's Café Stop 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)
							5	700	840	20	100	1,000	10,000	15	420
MW-1	2/15/2017	952.41	4.00	948.41	0.00	Characterization	**3.9**	**4.9**	**2.8**	<1.0	**4.5**	**1.8**	**12.6**	**21.6**	**10.0**
	6/27/2017	952.41	4.46	947.95	0.00	Characterization	**3.2**	**1.5**	<1.0	<1.0	<2.0	<1.0	<3.0	**2.8**	<1.0
	9/11/2017	952.41	3.98	948.43	0.00	Characterization	**2.3**	**2.3**	<1.0	<1.0	<2.0	**1.1**	<3.0	**7.0**	**1.7**
	11/30/2017	952.41	5.45	946.96	0.00	Characterization	**1.3**	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	**1.3**	<1.0
	1/23/2018	952.41	5.53	946.88	0.00	Characterization	<1.0	<1.0	**1.7**	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	4/10/2018	952.41	4.92	947.49	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
Screened Interval: 2.73' - 14.73' Total Depth: 14.73'	7/10/2018	952.41	5.21	947.20	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	10/9/2018	952.41	4.03	948.38	0.00	Characterization	**1.1**	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	1/29/2019	952.41	4.32	948.09	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	**1.0**	<1.0
	5/29/2019	952.41	4.61	947.80	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	9/10/2019	952.41	5.43	946.98	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	**1.1**	<1.0
	12/6/2019	952.41	4.01	948.40	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	2/6/2020	952.41	4.78	947.63	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
MW-2	2/15/2017	951.84	4.41	947.43	Trace	Characterization	82.7	**342**	**49.3**	<5.0	158	**26.1**	**298**	132	**26.8**
	6/28/2017	951.84	4.91	946.93	Trace	Characterization	85.4	**324**	**45.2**	<5.0	217	**22.7**	**254**	120	**26.0**
	9/11/2017	951.84	4.30	947.54	0.00	Characterization	82.5	**462**	**55.2**	<5.0	181	**31.0**	**374**	243	**56.7**
	12/1/2017	951.84	5.39	946.45	0.00	Characterization	69.5	**291**	**49.2**	<5.0	169	**23.0**	**157**	54	**13.6**
	1/23/2018	951.84	5.43	946.41	0.00	Characterization	50.5	**192**	**44.5**	<5.0	125	**14.1**	**99.9**	30.5	**7.1**
	4/10/2018	951.84	4.80	947.04	0.00	Characterization	46.6	**248**	**41.2**	<5.0	**95.7**	**19.4**	**159**	43.5	**8.1**
Screened Interval: 2.84' - 14.84' Total Depth: 14.84'	7/10/2018	951.84	5.39	946.45	0.00	Characterization	77.2	**190**	**41.0**	<5.0	130	**18.7**	**115**	38.0	**6.7**
	10/9/2018	951.84	4.41	947.43	0.00	Characterization	79.6	**291**	**47.8**	<5.0	139	**24.3**	**166**	51.1	**9.8**
	1/29/2019	951.84	4.56	947.28	0.00	Characterization	41.0	**178**	**44.5**	<5.0	135	**13.7**	**117**	35.8	**7.6**
	5/29/2019	951.84	4.63	947.21	0.00	Characterization	48.9	**196**	**39.9**	<1.0	136	**21.0**	**150**	33.2	**6.2**
	9/11/2019	951.84	5.55	946.29	0.00	Characterization	92.3	**307**	**49.5**	**2.7**	155	**38.0**	**297**	48.0	**10.6**
	12/6/2019	951.84	5.15	946.69	0.00	Characterization	67.7	**203**	**38.8**	**2.1**	139	**27.2**	**178**	25.9	**6.5**
	2/6/2020	951.84	5.01	946.83	0.00	Characterization	43.5	**213**	**43.9**	<10.0	**83.9**	**19.9**	**160**	29.9	<10.0
MW-3	2/15/2017	951.10	3.70	947.40	0.00	Characterization	376	**62.2**	**6.1**	**15.0**	**14.4**	**535**	**236**	75.6	**24.2**
	6/27/2017	951.10	4.63	946.47	0.00	Characterization	583	1210	**98.6**	57.7	545	**44.1**	**1460**	830	**72.9**
	9/11/2017	951.10	3.73	947.37	0.00	Characterization	208	**13.1**	**6.7**	**9.6**	**15.7**	<5.0	<15.0	15.9	<5.0
	12/1/2017	951.10	5.28	945.82	0.00	Characterization	679	1080	**124.0**	40.3	520	**44**	**696**	309	<5.0
	1/23/2018	951.10	5.18	945.92	0.00	Characterization	585	1110	**90.1**	47.1	243	**42**	**344**	49	<25.0
Screened Interval: 3.48' - 15.48' Total Depth: 15.48'	4/10/2018	951.10	4.29	946.81	0.00	Characterization	277	**425**	**34.0**	**11.7**	**79.9**	**20.8**	**349**	195	<5.0
	7/10/2018	951.10	4.98	946.12	0.00	Characterization	670	1160	**94.1**	74.9	394	**43.2**	**553**	176	**18.9**
	10/9/2018	951.10	3.78	947.32	0.00	Characterization	98.7	**73.4**	**15.7**	**7.0**	**14.8**	**3.3**	**41.9**	34.1	**2.0**
	1/29/2019	951.10	3.89	947.21	0.00	Characterization	80.3	**151**	**16.4**	**6.0**	**33.7**	**4.2**	**45.5**	22.8	**1.7**
	5/29/2019	951.10	4.08	947.02	0.00	Characterization	192	**392**	**38.5**	**11.8**	**86.1**	**12.2**	**130**	67.2	<1.0
	9/11/2019	951.10	5.18	945.92	0.00	Characterization	357	**565**	**75.1**	**84.1**	**160**	**17.9**	**211**	54.0	**3.4**
	12/6/2019	951.10	4.82	946.28	0.00	Characterization	501	870	**85.8**	65.0	**86.5**	**15.5**	**78.3**	40.1	<1.0
	2/6/2020	951.10	4.69	946.41	0.00	Characterization	371	899	**91.4**	27.1	**71.1**	**17.7**	**87.3**	64.1	<10.0

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 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 Eleavation and Depth to Groundwater measured from Top of Casing

Table B-3
Site Characterization Activities
Quinn's Café Stop 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)
							5	**700**	**840**	**20**	**100**	**1,000**	**10,000**	**15**	**420**
MW-4	2/15/2017	950.71	4.44	946.27	0.00	Characterization	49	**6.1**	**2.7**	189	**3.1**	**7.1**	**19.5**	**5.9**	**2.8**
	6/28/2017	950.71	4.88	945.83	0.00	Characterization	128	**5.6**	**6.7**	280	**8.6**	**6.2**	**12.3**	**3.9**	<1.0
	9/11/2017	950.71	5.15	945.56	0.00	Characterization	37.6	<1.0	**3.4**	315	**3.4**	<1.0	**3.2**	<1.0	<1.0
	12/1/2017	950.71	5.24	945.47	0.00	Characterization	<5.0	<5.0	<5.0	306	<10.0	<5.0	<15.0	<5.0	<5.0
	1/23/2018	950.71	5.32	945.39	0.00	Characterization	9.5	<5.0	<5.0	234	<10.0	<5.0	<15.0	<5.0	<5.0
	4/10/2018	950.71	5.21	945.50	0.00	Characterization	38.0	**9.9**	<5.0	218	<10.0	<5.0	<15.0	<5.0	<5.0
Screened Interval: 3.26' - 15.26' Total Depth: 15.26'	7/10/2018	950.71	5.30	945.41	0.00	Characterization	11.6	<5.0	<5.0	225	<10.0	<5.0	<15.0	<5.0	<5.0
	10/9/2018	950.71	4.99	945.72	0.00	Characterization	17.0	<5.0	<5.0	297	<10.0	<5.0	<15.0	<5.0	<5.0
	1/29/2019	950.71	4.99	945.72	0.00	Characterization	63.9	**11.7**	**6.6**	199	**5.6**	**1.7**	**17.0**	**5.5**	<1.0
	5/29/2019	950.71	5.04	945.67	0.00	Characterization	17.7	**3.9**	**2.9**	188	**4.0**	<1.0	<3.0	<1.0	<1.0
	9/11/2019	950.71	5.47	945.24	0.00	Characterization	69.5	**1.3**	**9.8**	296	**5.8**	**1.7**	**10.5**	<1.0	<1.0
	12/5/2019	950.71	5.27	945.44	0.00	Characterization	2.1	1.0	<1.0	246	**2.1**	<1.0	<3.0	<1.0	<1.0
	2/5/2020	950.71	5.35	945.36	0.00	Characterization	<5.0	<5.0	<5.0	238	<10.0	<5.0	<15.0	<5.0	<5.0
MW-5	2/15/2017	950.65	3.34	947.31	0.00	Characterization	162	854	**116**	**6.1**	294	**46.2**	**843**	1130	**59.9**
	6/28/2017	950.65	4.78	945.87	0.00	Characterization	227	**475**	**76.1**	**6.7**	235	**71.9**	**487**	707	**40.9**
	9/11/2017	950.65	3.32	947.33	0.00	Characterization	330	**610**	**82.0**	**10.3**	210	**41.7**	**528**	646	**43.4**
	12/1/2017	950.65	4.28	946.37	0.00	Characterization	209	**422**	**57.5**	<5.0	249	**30.0**	**313**	353	**32.6**
	1/23/2018	950.65	4.28	946.37	0.00	Characterization	133	**415**	**65.3**	<5.0	134	**22.0**	**289**	330	**22.1**
	4/10/2018	950.65	3.68	946.97	0.00	Characterization	468	**591**	**81.6**	<5.0	164	**29.6**	**586**	766	<5.0
Screened Interval: 3.50' - 15.50' Total Depth: 15.50'	7/10/2018	950.65	4.28	946.37	0.00	Characterization	264	**282**	**38.4**	**11.3**	109	**6.9**	**251**	373	<5.0
	10/9/2018	950.65	3.54	947.11	0.00	Characterization	158	**567**	**100**	<5.0	197	**21.9**	**378**	503	**36.4**
	1/29/2019	950.65	3.50	947.15	0.00	Characterization	66.9	**429**	**80.4**	<5.0	122	**16.4**	**335**	407	**27.7**
	5/29/2019	950.65	3.55	947.10	0.00	Characterization	59.0	**359**	**60.0**	<5.0	187	**14.4**	**288**	390	**18.1**
	9/11/2019	950.65	4.56	946.09	0.00	Characterization	109	**610**	**90.3**	<5.0	213	**23.2**	**251**	150	**18.8**
	12/5/2019	950.65	4.19	946.46	0.00	Characterization	77.8	**353**	**53.1**	**9.3**	126	**17.7**	**109**	28.1	<5.0
	2/5/2020	950.65	4.02	946.63	0.00	Characterization	67.3	749	**117**	<5.0	212	**27.7**	**1060**	475	**29.8**
MW-6	2/15/2017	NM	NM	NM	0.00	Characterization	NS	NS	NS	NS	NS	NS	NS	NS	NS
	6/27/2017	950.38	4.27	946.11	0.00	Characterization	13.1	**1.3**	**3.7**	20.7	**2.8**	<1.0	<3.0	<1.0	<1.0
	9/11/2017	950.38	3.64	946.74	0.00	Characterization	5.9	<1.0	**3.3**	**11.4**	<2.0	<1.0	<3.0	<1.0	<1.0
	12/1/2017	950.38	4.71	945.67	0.00	Characterization	6.0	<1.0	**3.4**	**6.0**	<2.0	<1.0	<3.0	<1.0	<1.0
	1/23/2018	950.38	2.94	947.44	0.00	Characterization	<1.0	<1.0	**1.4**	**4.1**	<2.0	<1.0	<3.0	<1.0	<1.0
	4/10/2018	950.38	3.94	946.44	0.00	Characterization	**4.1**	<1.0	**1.4**	**4.6**	<2.0	<1.0	<3.0	<1.0	<1.0
Screened Interval: 3.25' - 15.25' Total Depth: 15.25'	7/10/2018	950.38	4.78	945.60	0.00	Characterization	6.9	<1.0	**3.0**	**10.9**	<2.0	<1.0	<3.0	<1.0	<1.0
	10/9/2018	950.38	3.55	946.83	0.00	Characterization	**1.6**	<1.0	**1.9**	**7.0**	<2.0	<1.0	<3.0	<1.0	<1.0
	1/29/2019	950.38	3.53	946.85	0.00	Characterization	<1.0	<1.0	<1.0	**1.3**	<2.0	<1.0	<3.0	<1.0	<1.0
	5/29/2019	950.38	3.45	946.93	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	6/10/2019	950.38	4.84	945.54	0.00	Characterization	**1.7**	<1.0	**1.8**	**13.9**	<2.0	<1.0	<3.0	<1.0	<1.0
	12/6/2019	950.38	4.19	946.19	0.00	Characterization	**3.2**	**10.3**	**1.4**	**4.5**	<2.0	<1.0	**3.2**	**3.4**	<1.0
	2/6/2020	950.38	4.43	945.95	0.00	Characterization	<1.0	<1.0	<1.0	**4.9**	<2.0	<1.0	<3.0	<1.0	<1.0

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 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 Eleavation and Depth to Groundwater measured from Top of Casing

Table B-3
Site Characterization Activities
Quinn's Café Stop 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)
							5	700	840	20	100	1,000	10,000	15	420
MW-7	2/15/2017	NM	NM	NM	0.00	Characterization	NS	NS	NS	NS	NS	NS	NS	NS	NS
	6/27/2017	952.77	7.49	945.28	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	9/11/2017	952.77	7.23	945.54	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	12/1/2017	952.77	7.71	945.06	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	1/22/2018	952.77	7.58	945.19	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	4/9/2018	952.77	7.14	945.63	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
Screened Interval: 3.10' - 17.10' Total Depth: 17.10'	7/9/2018	952.77	7.78	944.99	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	10/9/2018	952.77	6.68	946.09	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	1/28/2019	952.77	6.37	946.40	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	5/28/2019	952.77	6.89	945.88	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	9/10/2019	952.77	7.74	945.03	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	12/5/2019	952.77	7.11	945.66	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	2/5/2020	952.77	6.97	945.80	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
MW-8	2/15/2017	NM	NM	NM	0.00	Characterization	NS	NS	NS	NS	NS	NS	NS	NS	NS
	6/27/2017	951.98	6.27	945.71	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	9/11/2017	951.98	5.02	946.96	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	11/30/2017	951.98	6.05	945.93	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	1/22/2018	951.98	6.05	945.93	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	4/9/2018	951.98	5.13	946.85	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
Screened Interval: 3.56' - 17.56' Total Depth: 17.56'	7/9/2018	951.98	6.66	945.32	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	10/8/2018	951.98	4.54	947.44	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	1/28/2019	951.98	4.67	947.31	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	5/28/2019	951.98	4.69	947.29	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	6/10/2019	951.98	6.70	945.28	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	12/5/2019	951.98	4.89	947.09	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	2/5/2020	951.98	4.61	947.37	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
MW-9	2/15/2017	NM	NM	NM	0.00	Characterization	NS	NS	NS	NS	NS	NS	NS	NS	NS
	6/27/2017	951.73	6.12	945.61	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	9/11/2017	951.73	5.05	946.68	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	11/30/2017	951.73	6.04	945.69	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	1/22/2018	951.73	5.97	945.76	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	4/9/2018	951.73	5.04	946.69	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
Screened Interval: 3.17' - 17.17' Total Depth: 17.17'	7/9/2018	951.73	6.48	945.25	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	10/8/2018	951.73	4.58	947.15	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	1/28/2019	951.73	4.38	947.35	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	5/29/2019	951.73	3.82	947.91	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	6/10/2019	951.73	6.52	945.21	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	12/5/2019	951.73	5.10	946.63	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	2/6/2020	951.73	4.91	946.82	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0

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 Residential Used Aquifer TDS <2,500 mg/l setting

Shaded values indicate Act 2 Statewide Health Standard exceedances

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

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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)
							5	**700**	**840**	**20**	**100**	**1,000**	**10,000**	**15**	**420**
MW-10	2/15/2017	NM	NM	NM	0.00	Characterization	NS	NS	NS	NS	NS	NS	NS	NS	NS
	6/28/2017	957.32	15.32	942.00	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	9/11/2017	957.32	8.17	949.15	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	12/1/2017	957.32	9.47	947.85	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	1/23/2018	957.32	8.43	948.89	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
Screened Interval: 3.89' - 23.89' Total Depth: 23.89'	4/10/2018	957.32	8.03	949.29	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	7/10/2018	957.32	9.76	947.56	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	10/9/2018	957.32	7.58	949.74	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	1/29/2019	957.32	7.47	949.85	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	5/28/2019	957.32	7.88	949.44	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	9/10/2019	957.32	9.96	947.36	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	12/5/2019	957.32	7.88	949.44	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	2/5/2020	957.32	8.04	949.28	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
MW-11	2/15/2017	NM	NM	NM	0.00	Characterization	NS	NS	NS	NS	NS	NS	NS	NS	NS
	6/28/2017	NM	NM	NM	0.00	Characterization	NS	NS	NS	NS	NS	NS	NS	NS	NS
	9/11/2017	NM	NM	NM	0.00	Characterization	NS	NS	NS	NS	NS	NS	NS	NS	NS
	12/1/2017	953.36	6.26	947.10	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	1/22/2018	953.36	5.80	947.56	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
Screened Interval: 3.03' - 17.03' Total Depth: 23.89'	4/9/2018	953.36	4.66	948.70	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	**1.2**	<3.0	<1.0	<1.0
	7/9/2018	953.36	6.78	946.58	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	10/8/2018	953.36	4.51	948.85	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	1/28/2019	953.36	NM	NM	0.00	Characterization	NS	NS	NS	NS	NS	NS	NS	NS	NS
	5/28/2019	953.36	5.00	948.36	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	9/10/2019	953.36	7.16	946.20	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	12/5/2019	953.36	5.23	948.13	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	2/5/2020	953.36	4.74	948.62	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
MW-12	2/15/2017	NM	NM	NM	0.00	Characterization	NS	NS	NS	NS	NS	NS	NS	NS	NS
	6/28/2017	NM	NM	NM	0.00	Characterization	NS	NS	NS	NS	NS	NS	NS	NS	NS
	9/11/2017	NM	NM	NM	0.00	Characterization	NS	NS	NS	NS	NS	NS	NS	NS	NS
	12/1/2017	941.59	5.99	935.60	0.00	Characterization	<1.0	<1.0	<1.0	**1.4**	<2.0	<1.0	<3.0	<1.0	<1.0
	1/22/2018	941.59	5.74	935.85	0.00	Characterization	<1.0	<1.0	<1.0	**1.5**	<2.0	<1.0	<3.0	<1.0	<1.0
Screened Interval: 2.57' - 19.57' Total Depth: 19.57'	4/9/2018	941.59	4.95	936.64	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	7/9/2018	941.59	6.53	935.06	0.00	Characterization	<1.0	<1.0	<1.0	**1.2**	<2.0	<1.0	<3.0	<1.0	<1.0
	10/8/2018	941.59	4.55	937.04	0.00	Characterization	<1.0	<1.0	<1.0	**1.4**	<2.0	<1.0	<3.0	<1.0	<1.0
	1/28/2019	941.59	4.17	937.42	0.00	Characterization	<1.0	<1.0	<1.0	**1.8**	<2.0	<1.0	<3.0	<1.0	<1.0
	5/29/2019	941.59	3.91	937.68	0.00	Characterization	<1.0	<1.0	<1.0	**1.7**	<2.0	<1.0	<3.0	<1.0	<1.0
	9/10/2019	941.59	6.08	935.51	0.00	Characterization	<1.0	<1.0	<1.0	**2.0**	<2.0	<1.0	<3.0	<1.0	<1.0
	12/5/2019	941.59	5.00	936.59	0.00	Characterization	<1.0	<1.0	<1.0	**1.4**	<2.0	<1.0	<3.0	<1.0	<1.0
	2/6/2020	941.59	4.74	936.85	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0

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 Residential Used Aquifer TDS <2,500 mg/l setting

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Notes:
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Table B-3
Site Characterization Activities
Quinn's Café Stop 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)
							5	**700**	**840**	**20**	**100**	**1,000**	**10,000**	**15**	**420**
MW-13	2/15/2017	NM	NM	NM	0.00	Characterization	NS	NS	NS	NS	NS	NS	NS	NS	NS
	6/28/2017	NM	NM	NM	0.00	Characterization	NS	NS	NS	NS	NS	NS	NS	NS	NS
	9/11/2017	NM	NM	NM	0.00	Characterization	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/30/2017	954.76	13.54	941.22	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	**1.0**	<3.0	<1.0	<1.0
	1/22/2018	954.76	12.63	942.13	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	4/9/2018	954.76	10.93	943.83	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
Screened Interval: 2.64' - 16.64' Total Depth: 16.64'	7/9/2018	954.76	12.59	942.17	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	10/8/2018	954.76	10.66	944.10	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	1/28/2019	954.76	10.31	944.45	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	5/28/2019	954.76	10.01	944.75	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	9/10/2019	954.76	11.18	943.58	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	12/5/2019	954.76	11.22	943.54	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	2/5/2020	954.76	10.45	944.31	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
MW-14	2/15/2017	NM	NM	NM	0.00	Characterization	NS	NS	NS	NS	NS	NS	NS	NS	NS
	6/28/2017	NM	NM	NM	0.00	Characterization	NS	NS	NS	NS	NS	NS	NS	NS	NS
	9/11/2017	NM	NM	NM	0.00	Characterization	NS	NS	NS	NS	NS	NS	NS	NS	NS
	12/1/2017	NM	NM	NM	0.00	Characterization	NS	NS	NS	NS	NS	NS	NS	NS	NS
	1/22/2018	NM	NM	NM	0.00	Characterization	NS	NS	NS	NS	NS	NS	NS	NS	NS
Screened Interval: 3.00' - 15.00' Total Depth: 15.00'	4/9/2018	NM	NM	NM	0.00	Characterization	NS	NS	NS	NS	NS	NS	NS	NS	NS
	7/9/2018	NM	NM	NM	0.00	Characterization	NS	NS	NS	NS	NS	NS	NS	NS	NS
	10/8/2018	NM	NM	NM	0.00	Characterization	NS	NS	NS	NS	NS	NS	NS	NS	NS
	1/28/2019	NM	NM	NM	0.00	Characterization	NS	NS	NS	NS	NS	NS	NS	NS	NS
	5/29/2019	NM	NM	NM	0.00	Characterization	NS	NS	NS	NS	NS	NS	NS	NS	NS
	9/11/2019	952.08	5.68	946.40	0.00	Characterization	97.8	**311**	**36.0**	**14.2**	**67.9**	**32.9**	**555**	781	**132**
	12/5/2019	952.08	5.16	946.92	0.00	Characterization	6.3	**28.8**	**5.6**	<1.0	**11.0**	**1.6**	**56.8**	99.6	**15.6**
	2/5/2020	952.08	5.10	946.98	0.00	Characterization	<1.0	**4.7**	**1.2**	<1.0	<2.0	<1.0	**7.6**	17.6	**2.9**
MW-15	2/15/2017	NM	NM	NM	0.00	Characterization	NS	NS	NS	NS	NS	NS	NS	NS	NS
	6/28/2017	NM	NM	NM	0.00	Characterization	NS	NS	NS	NS	NS	NS	NS	NS	NS
	9/11/2017	NM	NM	NM	0.00	Characterization	NS	NS	NS	NS	NS	NS	NS	NS	NS
	12/1/2017	NM	NM	NM	0.00	Characterization	NS	NS	NS	NS	NS	NS	NS	NS	NS
	1/22/2018	NM	NM	NM	0.00	Characterization	NS	NS	NS	NS	NS	NS	NS	NS	NS
Screened Interval: 3.00' - 15.00' Total Depth: 15.00'	4/9/2018	NM	NM	NM	0.00	Characterization	NS	NS	NS	NS	NS	NS	NS	NS	NS
	7/9/2018	NM	NM	NM	0.00	Characterization	NS	NS	NS	NS	NS	NS	NS	NS	NS
	10/8/2018	NM	NM	NM	0.00	Characterization	NS	NS	NS	NS	NS	NS	NS	NS	NS
	1/28/2019	NM	NM	NM	0.00	Characterization	NS	NS	NS	NS	NS	NS	NS	NS	NS
	5/29/2019	NM	NM	NM	0.00	Characterization	NS	NS	NS	NS	NS	NS	NS	NS	NS
	9/11/2019	951.12	5.18	945.94	0.00	Characterization	213	**197**	**31.0**	82.7	**60.5**	**10.5**	**331**	219	<5.0
	12/6/2019	951.12	4.74	946.38	0.00	Characterization	259	834	**86.7**	47.3	224	**12.6**	**478**	557	<5.0
	2/6/2020	951.12	4.66	946.46	0.00	Characterization	115	887	**112**	25.7	276	**12.6**	**610**	743	<5.0

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

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Notes:
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03/16/20

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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)
							5	**700**	**840**	**20**	**100**	**1,000**	**10,000**	**15**	**420**
MW-16	2/15/2017	NM	NM	NM	0.00	Characterization	NS	NS	NS	NS	NS	NS	NS	NS	NS
	6/28/2017	NM	NM	NM	0.00	Characterization	NS	NS	NS	NS	NS	NS	NS	NS	NS
	9/11/2017	NM	NM	NM	0.00	Characterization	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/30/2017	NM	NM	NM	0.00	Characterization	NS	NS	NS	NS	NS	NS	NS	NS	NS
	1/22/2018	NM	NM	NM	0.00	Characterization	NS	NS	NS	NS	NS	NS	NS	NS	NS
	4/9/2018	NM	NM	NM	0.00	Characterization	NS	NS	NS	NS	NS	NS	NS	NS	NS
Screened Interval: 3.00' - 15.00' Total Depth: 15.00'	7/9/2018	NM	NM	NM	0.00	Characterization	NS	NS	NS	NS	NS	NS	NS	NS	NS
	10/8/2018	NM	NM	NM	0.00	Characterization	NS	NS	NS	NS	NS	NS	NS	NS	NS
	1/28/2019	NM	NM	NM	0.00	Characterization	NS	NS	NS	NS	NS	NS	NS	NS	NS
	5/28/2019	NM	NM	NM	0.00	Characterization	NS	NS	NS	NS	NS	NS	NS	NS	NS
	9/11/2019	950.61	5.32	945.29	0.00	Characterization	10.2	**6.2**	**1.5**	363	**2.1**	<1.0	**6.4**	**2.9**	<1.0
	12/5/2019	950.61	5.14	945.47		Characterization	**3.3**	<1.0	<1.0	380	<2.0	<1.0	<3.0	<1.0	<1.0
	2/5/2020	950.61	5.12	945.49		Characterization	50.1	**44.2**	**10.5**	185	<2.0	**1.1**	<3.0	<1.0	<1.0
MW-17	2/15/2017	NM	NM	NM	0.00	Characterization	NS	NS	NS	NS	NS	NS	NS	NS	NS
	6/28/2017	NM	NM	NM	0.00	Characterization	NS	NS	NS	NS	NS	NS	NS	NS	NS
	9/11/2017	NM	NM	NM	0.00	Characterization	NS	NS	NS	NS	NS	NS	NS	NS	NS
	12/1/2017	NM	NM	NM	0.00	Characterization	NS	NS	NS	NS	NS	NS	NS	NS	NS
	1/22/2018	NM	NM	NM	0.00	Characterization	NS	NS	NS	NS	NS	NS	NS	NS	NS
	4/9/2018	NM	NM	NM	0.00	Characterization	NS	NS	NS	NS	NS	NS	NS	NS	NS
Screened Interval: 3.00' - 15.00' Total Depth: 15.00'	7/9/2018	NM	NM	NM	0.00	Characterization	NS	NS	NS	NS	NS	NS	NS	NS	NS
	10/8/2018	NM	NM	NM	0.00	Characterization	NS	NS	NS	NS	NS	NS	NS	NS	NS
	1/28/2019	NM	NM	NM	0.00	Characterization	NS	NS	NS	NS	NS	NS	NS	NS	NS
	5/29/2019	NM	NM	NM	0.00	Characterization	NS	NS	NS	NS	NS	NS	NS	NS	NS
	9/11/2019	951.39	4.56	946.83	0.00	Characterization	59.7	**23.5**	**17.1**	**3.8**	**12.0**	**4.6**	**35.7**	28.6	**6.0**
	12/6/2019	951.39	4.18	947.21	0.00	Characterization	11.3	<1.0	**4.2**	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	12/6/2020	951.39	4.06	947.33	0.00	Characterization	4.3	<1.0	**3.1**	<1.0	<2.0	<1.0	<3.0	24.8	<1.0
AS-1	2/15/2017	NM	NM	NM	0.00	Characterization	NS	NS	NS	NS	NS	NS	NS	NS	NS
	6/28/2017	NM	NM	NM	0.00	Characterization	NS	NS	NS	NS	NS	NS	NS	NS	NS
	9/11/2017	NM	NM	NM	0.00	Characterization	NS	NS	NS	NS	NS	NS	NS	NS	NS
	12/1/2017	NM	NM	NM	0.00	Characterization	NS	NS	NS	NS	NS	NS	NS	NS	NS
	1/22/2018	NM	NM	NM	0.00	Characterization	NS	NS	NS	NS	NS	NS	NS	NS	NS
	4/9/2018	NM	NM	NM	0.00	Characterization	NS	NS	NS	NS	NS	NS	NS	NS	NS
Screened Interval: 9.00' - 10.00' Total Depth: 10.50'	7/9/2018	NM	NM	NM	0.00	Characterization	NS	NS	NS	NS	NS	NS	NS	NS	NS
	10/8/2018	NM	NM	NM	0.00	Characterization	NS	NS	NS	NS	NS	NS	NS	NS	NS
	1/28/2019		6.63	-6.63	0.00	Characterization	NS	NS	NS	NS	NS	NS	NS	NS	NS
	5/29/2019		4.37	-4.37	0.00	Characterization	136	**177**	**21.2**	23.4	**22.8**	**7.7**	**113**	97.6	**28.5**
	9/10/2019		5.08	-5.08	0.00	Characterization	NS	NS	NS	NS	NS	NS	NS	NS	NS
	12/5/2019		5.04	-5.04	0.00	Characterization	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2/5/2020		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

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Notes:
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							5	**700**	**840**	**20**	**100**	**1,000**	**10,000**	**15**	**420**
MP-2	2/15/2017	NM	NM	NM	0.00	Characterization	NS	NS	NS	NS	NS	NS	NS	NS	NS
	6/28/2017	NM	NM	NM	0.00	Characterization	NS	NS	NS	NS	NS	NS	NS	NS	NS
	9/11/2017	NM	NM	NM	0.00	Characterization	NS	NS	NS	NS	NS	NS	NS	NS	NS
	12/1/2017	NM	NM	NM	0.00	Characterization	NS	NS	NS	NS	NS	NS	NS	NS	NS
	1/22/2018	NM	NM	NM	0.00	Characterization	NS	NS	NS	NS	NS	NS	NS	NS	NS
Screened Interval:	4/9/2018	NM	NM	NM	0.00	Characterization	NS	NS	NS	NS	NS	NS	NS	NS	NS
3.00' -10.00'	7/9/2018	NM	NM	NM	0.00	Characterization	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total Depth:	10/8/2018	NM	NM	NM	0.00	Characterization	NS	NS	NS	NS	NS	NS	NS	NS	NS
10.00'	1/28/2019	NM	3.76	NA	0.00	Characterization	353	**442**	**52.0**	446	120	**21.4**	**561**	298	**17.3**
	5/29/2019	NM	3.68	NA	0.00	Characterization	193	**441**	**53.4**	333	175	**11.8**	**381**	288	**13.5**
	9/10/2019	NM	4.60	NA	0.00	Characterization	NS	NS	NS	NS	NS	NS	NS	NS	NS
	12/5/2019	NM	4.39	NA	0.00	Characterization	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2/5/2020	NM	NM	NM	0.00	Characterization									
MP-3	2/15/2017	NM	NM	NM	0.00	Characterization	NS	NS	NS	NS	NS	NS	NS	NS	NS
	6/28/2017	NM	NM	NM	0.00	Characterization	NS	NS	NS	NS	NS	NS	NS	NS	NS
	9/11/2017	NM	NM	NM	0.00	Characterization	NS	NS	NS	NS	NS	NS	NS	NS	NS
	12/1/2017	NM	NM	NM	0.00	Characterization	NS	NS	NS	NS	NS	NS	NS	NS	NS
	1/22/2018	NM	NM	NM	0.00	Characterization	NS	NS	NS	NS	NS	NS	NS	NS	NS
Screened Interval:	4/9/2018	NM	NM	NM	0.00	Characterization	NS	NS	NS	NS	NS	NS	NS	NS	NS
3.00' - 10.00'	7/9/2018	NM	NM	NM	0.00	Characterization	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total Depth:	10/8/2018	NM	NM	NM	0.00	Characterization	NS	NS	NS	NS	NS	NS	NS	NS	NS
10.00'	1/28/2019	NM	3.85	NA	0.00	Characterization	533	**670**	**80.1**	156	125	**121**	**949**	239	**44.3**
	5/29/2019	NM	3.70	NA	0.00	Characterization	686	**933**	**118**	171	269	**109**	**805**	187	**31.1**
	9/10/2019	NM	4.46	NA	0.00	Characterization	NS	NS	NS	NS	NS	NS	NS	NS	NS
	12/5/2019	NM	4.61	NA	0.00	Characterization	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2/5/2020	NM	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
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ATTACHMENT C

LaBella Resumes

KEVIN CUCURA

Environmental Analyst

Kevin has twelve years of experience in site assessments, site remediation, water quality and natural resource monitoring and management. He has worked on numerous environmental remediation/restoration projects. He has also served as Site Supervisor for underground storage tank removals, assessments, soil boring/ monitoring well installations and sampling programs.

EDUCATION

B.A. – Environmental Geology, Lock Haven University

CERTIFICATIONS/ REGISTRATIONS

ASTM: Phase I and Phase II Environmental Site Assessments for Commercial Real Estate

Pennsylvania Department of Environmental Protection Certified UST Installer

OSHA 1910.120 Hazardous Waste Site Training: 40 Hour

Lackawanna River 2000 Program - Lackawanna River Basin in Northeast PA

Kevin was Project Manager for this project which was an EPA funded watershed reclamation project involving acid mine drainage (AMD) and combined sewer overflows (CSO) identification and remediation, non-point source pollution control method applications, riverbank restoration, and water quality monitoring.

US Army Corps of Engineer: Lackawanna River watershed - Northeast PA

Kevin was Project Manager for a US Army Corps of Engineers funded project, aimed at assessing tributaries and their confluences in the upper Lackawanna River watershed in Northeast Pennsylvania. The project involved quantifying metal concentrations (Aluminum, Total Iron, Ferrous Iron and Manganese) versus flow and monitoring water quality in the Lackawanna River and its tributaries.

Additional experience includes:

Hazardous Waste Characterization And Remediation

Phase I And Phase II

Environmental Site Assessment

Test Borings And Monitoring

Well Installation Oversight And Sampling

Underground Storage Tank Compliance

Closure, Release Investigations

Watershed Monitoring

Remote And Real-Time Field Instrumentation Operation And Data Acquisition

GPS Surveying

Environmental Data Collection And Management

Scott Fuel Stop, Inc: Scott Fuel Stop Property - Scott Township, PA

Served as PADEP Certified Tank Handler (PADEP UMR 5585) during the removal of the diesel fuel supply lines and dispensers at the site. Roles included project planning, PADEP coordination, oversight of field activities, sample collection, determining applicable cleanup standards and final report preparation.

Pump-n-Pantry, Inc.: Pump-n-Pantry #002 Property - Great Bend Township, PA

Currently serving as project manager during ongoing site characterization and interim remedial activities

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at the site. Roles include client coordination, PADEP coordination, subcontractor coordination, obtaining access to off-site properties, mapping/ data presentation and report preparation.

Community Bank, NA: Phillips Road Property - Springville, PA

Served as project manager and site supervisor during the removal of a buried oil-water separator at the site. Roles included project planning, subcontractor coordination, oversight of field activities, sample collection, determining applicable cleanup standards, contaminated soil disposal and final report preparation.

DONALD COLEMAN

Senior Geologist

Don is a Senior Geologist in our Scranton, PA office and has 32 years of experience in the environmental field, specializing in Phase I/II due diligence projects, environmental compliance/permitting, RCRA HAZMAT training, soil and groundwater contaminant investigations, SUPERFUND, US DOD UST closures/remediation, geotechnical investigations, and PA Act 2/Brownfields investigations. Don has worked with various regulatory agencies on behalf of private clients, which include utilities, commercial and residential developers regarding technical issues and site closure.

PG
Professional Geologist, VA

EDUCATION
M.S. Geology, University of Alaska, Fairbanks, 1985

B.S. - Geology, University of Kentucky, 1979

ORGANIZATIONS
Harrisburg Geological Society

CERTIFICATIONS/ REGISTRATIONS
OSHA 1910.120 Hazardous Waste Site Training: 40 Hour, Supervisor, and Annual 8 Hour

PPL Services Corporation: PA Act 2 Multi-Site Agreement, Characterization and Remedial Investigations - PA

As Project Manager, completed remedial investigations at 24 electrical substations and 30 natural gas meter/regulator facilities with documented PCB and mercury contamination, supervised characterization/ remedial investigations, and prepared Act 2 reports.

Act 2/Brownfield Characterization and Remedial Investigations, Former Textile Manufacturing Facility - Lansdale, PA.

As Project Manager, completed an Act 2 investigation of a former manufacturing facility subsequently redeveloped as residential development. Act 2 characterization completed following completion of Phase I/II ESA, which identified fuel oil USTs, asbestos, hazardous materials storage, and contaminated soil/groundwater as areas of environmental concern. Supervised partial building demolition, excavation and off-site disposal of abandoned USTs, an oil/water separator, 400 cubic yards of contaminated soil, and hazardous waste drums and asbestos. The groundwater investigation and fate/transport analysis determined chlorinated hydrocarbons would not migrate beyond downgradient property boundaries. Prepared Act 2 Final Report and secured Act 2 release of liability for soil and groundwater from PADEP using Statewide Health Standards. Property redeveloped as The Silk Factory Lofts.

PENNDOT RCRA HAZMAT Compliance Training

Mr. Coleman provided HAZMAT General Awareness/Familization, and function-specific training to PENNDOT maintenance and construction personnel at various district offices. Course topics included USDOT hazardous materials regulations and hazard classification system, hazardous materials table, shipping papers, preparation of hazardous waste manifests, recordkeeping requirements, and RCRA hazardous waste regulations.

Virginia Department of Environmental Quality State-Lead Program for Petroleum Contaminated Sites.

As Project Manager, completed

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multiple investigations for VDEQ to characterize UST contaminated properties. Responsibilities included preparing cost estimates and Work Plans, interacting with property owners, vendors, subcontractors, and regulatory agencies, supervising characterization and remedial investigations, alternate water supply development, and preparing technical reports.

Due Diligence Phase I Environmental Site Assessments

As Project Manager and Technical Lead, Mr. Coleman has completed hundreds of Phase I ESAs on various retail, industrial, and commercial properties located across the U.S. and at various international locations.

Pennsylvania Department of Environmental Protection General Technical Assistance Contract (GTAC) (2015-2018).

As Project Manager, supervised the cleanouts of legacy hazardous chemicals stored at 95 middle/high schools located across Pennsylvania. Responsibilities included preparing Work Plans, bid specifications, supervising removal of hazardous chemicals within expedited deadlines, and preparing technical reports,

Specialty Granules, Inc.: Large Non-Coal Mine Permit Application - Adams County, PA.

As Task Manager, completed geologic, geotechnical, and hydrogeologic investigations in support of a mine permit application for a proposed lateral/vertical expansion of an operating mining facility. Supervised installation of bedrock monitoring wells and piezometers to define geologic and groundwater flow conditions, geotechnical borings to evaluate subsurface soil conditions relative to the stability of foundation soils and slope configurations for proposed quarry stockpile areas. Evaluated 3,600 linear feet of rock core obtained from 17 exploratory coreholes completed within two proposed mine expansion areas. Evaluation included delineation of major/accessory mineralogy, degree and orientation of bedrock fractures, and identification of major alteration zones. Authored Geology and Hydrology sections of Large Non-Coal Permit application.

Senior Geologist, Atlantic Sunrise Natural Gas Pipeline Project, PA.

As Senior Geologist, provided field oversight for geologic and geotechnical field investigations in support of a proposed natural gas pipeline. Responsibilities included evaluation of bedrock lithology, identifying bedrock fracture zones and orientation, competency, groundwater zones, and potential karst features.

Senior Geologist, Proposed Natural Gas Facility - Bradford County, PA.

Completed a Phase I ESA of a 200-acre property proposed for development as a natural gas liquidfaction facility. During Phase I ESA, identified the presence of an unregulated landfill within a wooded area of site. Prepared Work Plan and cost estimate to complete Phase II investigation to evaluate the contents of landfill, determine horizontal and vertical extent of dump, and potential impacts to subsurface soil and groundwater quality. Phase II investigation included coordinating site clearing of wooded areas, completion of surface geology surveys (EM and GPR), 33 test pits, and installation of soil borings and groundwater monitoring wells,

Orthodox Street Properties, LLC - Philadelphia, PA.

As Project Manager, completed an Act 2 investigation of a former steel manufacturing facility located in a Keystone Opportunity Zone. Completed Phase I ESA, Baseline Remedial Investigation, Baseline Investigation Work Plan, and Special Industrial Area (SIA) Consent Order and Agreement. PADEP granted relief of cleanup liability using the SIA standard.

Act 2 Investigation, Hempt Road - Mechanicsburg, PA.

Completed an Act 2 investigation following an accident, which resulted in approximately 3,000 gallons of unleaded gasoline being discharged to nearby stormwater sewer and dry creek bed. Emergency response measures implemented included free product recovery and excavation and disposal of 1,700 cubic yards of soil. Completed Act 2 characterization activities, which included monitoring well installations, quarterly groundwater sampling, aquifer testing, fate/transport analysis, and completion of PADEP-approved Act 2 Final Report, which demonstrated attainment of the Statewide Health Standards for soil and groundwater. In addition to Act 2 activities, supervised the rmediation of karst features located on the remediated site.

MARTIN GILGALLON

Regional Environmental Manager

Marty is our Regional Manager in Scranton, PA and has 28 years of experience in the environmental field, specializing in environmental assessment, water quality and waste stream treatment evaluation, site characterization, subsurface investigations, and remedial design/action. Marty has worked with a variety of clients including energy and utility clients, development corporations, and commercial and residential developers throughout the Mid-Atlantic region.

PG

Professional Geologist, PA

EDUCATION

B.S. - Geosciences, Penn State University, 1987

ORGANIZATIONS

Association of Groundwater Scientists and Engineers.

National Groundwater Association

The Geological Society of America

Lackawanna River Corridor Association

CERTIFICATIONS/ REGISTRATIONS

Commonwealth of Pennsylvania Registered Professional Geologist

Pennsylvania Department of Environmental Protection Certified UST Installer

OSHA 1910.120 Hazardous Waste Site Training: 40 Hour and Annual 8 Hour

Lackawanna Watershed 2000 Program - Lackawanna River Basin in Northeastern PA

Marty served as Project Manager for this program on the Lackawanna River Basin in Northeastern Pennsylvania. He previously served as Project Manager under the Strategic Environmental Research and Development Program (SERDP) in conjunction with the completion of watershed studies on the Lackawanna River Basin and the Winters Run River Basin at the Aberdeen Proving Ground in Harford County, Maryland. The associated Scopes of Work included:

Completion of the mapping of each basin utilizing GPS and GIS technologies.

Generation of channel morphology data utilizing traditional surveying methods.

Collection of wet chemistries to determine baseline chemical characteristics of each river system.

Collection of water quality data utilizing in-situ real-time data collection equipment pursuant to the development of the prototypes.

Pilot demonstrations for an environmental Monitoring and Management System (EMMS) under SERDP.

In each investigation, the real-time data was collected from the field stations utilizing cellular telephone technologies and downloaded, via modem, to a central data collection laboratory at the National Institute for Environmental Renewal (NIER) located in Mayfield, Lackawanna County, Pennsylvania.

As Project Manager, his responsibilities also included coordination with officials of the Army Environmental Center at the Aberdeen Proving Ground; completion of the collection of atmospheric data with field representatives of the Waterways Experimental Station (WES) in Vicksburg, Mississippi; and coordination with local, county and state regulators and authorities.

Site Characterization

Marty conducted evaluations of Publicly Owned Treatment Works (POTW) effluent characterization protocols relative to compliance with PA Clean Streams and US EPA Clean Water Act requirements, as they apply

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to receiving water limitations on quantities, rates, and concentrations of chemical and physical constituents.

Dye Tracer Studies

Marty also designed and implemented Dye Tracer studies for a variety of commercial and industrial clients, in order to determine the configuration of both sanitary and industrial piping systems. As part of a Design Study relative to a Groundwater Pump and Treat System, he evaluated the capability of a private Sewage Treatment Plant to process treated discharges from a hydrocarbon-contaminated wastestream. In support of Permit Applications for encroachments into wetlands, he prepared environmental assessment documentation regarding wetland aerial extent, value, function, adverse impacts and adverse environmental effect.

Project Hydrogeologist

As Project Hydrogeologist, Marty was responsible for the assessment of hydrologic and geologic conditions pertaining to project performance. Projects of note include the initiation and supervision of release investigations in conjunction with failed underground storage tank (UST) systems at numerous sites and UST Closures. These projects typically include the development of test boring and monitoring well networks and soil and groundwater sampling programs in order to discern migration pathways and the extent of potential contamination present at a facility. Marty's responsibilities included the design and implementation of remedial action plans to address soil and groundwater contamination; associated coordination with regulatory agencies; and the preparation of UST Closure Reports. Remedial action projects include: the design and implementation of vacuum extraction and remediation systems to address petroleum contaminated soil and groundwater; and pump and treat remedial systems to address petroleum impacted groundwater in deep, bedrock aquifers.

Environmental Assessments

As Project Manager for environmental assessments and site characterizations, responsibilities included the preparation of and adherence to site specific health and safety plans, performance of background reviews and field investigations, oversight of field technicians, data review, and reporting. Projects of note include: the remedial investigation/feasibility study of a 120 acre industrial facility contaminated with various petroleum hydrocarbons, volatile organics and PCBs; hydrogeological study and quarterly monitoring of an abandoned industrial site contaminated with 1,1,1 Trichloroethane; geophysical documents review; and Phase I and Phase II environmental site assessments of commercial and industrial facilities.

Geologist

As Staff Geologist, Marty's duties included the design of groundwater monitoring systems for landfills and UST systems. Marty was responsible for the installation of test borings and construction of groundwater monitoring wells, and the development and implementation of soil and aqueous sampling programs. He was also responsible for environmental site assessments and geotechnical investigations in conjunction with building design and construction, and report preparation. Projects of note include the hydrogeological investigation including project and client coordination for a US Environmental Protection Agency Superfund Site in New Jersey; and numerous geologic investigations for both government agencies and private corporations.

ATTACHMENT D

Photograph Log

Table D-1

Photograph Log

Photo	Description	Date
1.	View to northwest of geophysical investigation in area of diesel/off road diesel dispensers.	01/02/20
2.	View to north of water line entering convenience store.	01/02/20
3.	View to northwest of subsurface water and subsurface electric lines on northeast side of diesel.	01/02/20
4.	View to northwest of subsurface piping in vicinity of diesel dispensers.	01/02/20
5.	Advancing test boring on southwest side of diesel dispensers using soft dig methods.	01/06/20
6.	Advancing test boring on southeast side of diesel dispensers.	01/06/20
7.	Review of contaminated backfill material beneath diesel dispenser.	01/06/20
8.	Removing contaminated material from beneath off-road diesel dispenser.	01/06/20
9.	View beneath diesel pump after backfilling with gravel.	01/07/20
10.	View to southeast – saw cutting pavement for test boring TB-27.	04/20/20
11.	View to southwest – soft dig at test boring TB-28.	07/20/20
12.	View to southeast – soft dig at test boring TB-31.	04/20/20

Photo #1
01/2/20
View to northwest of geophysical investigation in area of diesel/off-road diesel dispensers.

Photo #2
01/2/20
View to north of water line entering convenience store.

Photo #3
01/2/20
View to northwest of subsurface water and subsurface electric lines on northeast side of diesel.

Photo #4
01/2/20
View to northwest of subsurface piping in vicinity of diesel dispensers.

Photo #5
01/06/20
Advancing test boring on southwest side of diesel dispensers using soft dig methods.

Photo #6
01/06/20
Advancing test boring on southeast side of diesel dispensers.

Photo #7
01/06/29
Review of contaminated backfill material beneath diesel dispenser.

Photo #8
01/6/20
Removing contaminated material from beneath off-road diesel dispenser.

Photo #9
01/7/20
View beneath diesel pump after backfilling with gravel.

Photo #10
04/20/20
View to southeast—saw cutting pavement for test boring TB-27.

Photo #11
04/20/20
View to southwest — soft dig at test boring TB-28.

Photo #12
4/20/20
View to southeast — soft dig at test boring TB-31.

ATTACHMENT E

PADEP Reported Release Information Incident Report

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF ENVIRONMENTAL CLEANUP AND BROWNFIELDS

App Version: 1.0.1

Storage Tank Narrative Report

Inspection Type	CEI - Compliance Evaluation	**Facility ID**	35-20617
Client ID/Name	247440/DK & DK LLC	**Facility Name**	QUINNS CAFE STOP
Address 1	224 N MAIN ST	**Address 2**	
City	ARCHBALD	**State/ZIP Code**	PA/18403-1945
Municipality	Archbald Borough	**County**	Lackawanna
Arrival Date / Time	11/06/2019 11:29 AM	**Depart Date / Time**	11/06/2019 11:29 AM
Inspection ID	2955249	**Enforcement ID**	
Inspection Result	NOVIO - No Violations Noted	**CTS Number**	

Inspector Details

DEP Inspector Name	JOSHUA MATULEVICH	**Telephone Number**	(570) 826-5488	**Email**	jmatulevic@pa.gov

Tank Summary

	001	002	003	004	005
Dispenser Inspection					
Tank System Information					

⚠ = Action Required, ■ = Not Inspected, C = Compliant

Narrative

On November 6, 2019, I performed a Compliance Evaluation Inspection (CEI) on the facility above. A Facility Operations Inspection (FOI) was due on September 9, 2019. Joe Motts, Manager, and Tricia Lorenzetti, Responsible Official, was onsite for this inspection.

During this CEI, I printed out and reviewed an Inventory Report and a CSLD Test with passing results. Water was indicated in Tanks 001, 002, and 003 (T4, T2, and T3 on the Inventory Report); however, the facility manually gauges the tanks with water-finding paste on a monthly basis. The tanks were manually gauged during the CEI, and no water was present. All spill containment buckets had water and/or debris present.

There was no containment under the dispensers or at the tank top sumps. Soil contamination and weeping was noted under Dispenser 5/6 (Diesel) and Dispenser 7 (Off Road Diesel), and soil contamination was noted near Dispenser 5/6 where the pavement had degraded along the concrete pad in an approximately 4 inch by 30 inch area.

Cody P. Scott, IUM, of Francis Smith & Sons was contacted by phone who indicated that the FOI was completed on September 13, 2019 and that Tank 005 (Off Road Diesel) had failing Cathodic Protection results. The facility presented documentation that indicated Tanknology Inc. was onsite on October 22, 2019 to evaluate repairs. A rectifier reading from the impressed current system was taken with the following results: 1.4 Volts and 4.8 Amps.

Based on these observations, violations were noted as detailed in the Findings section below. Any violations noted during the FOI will be addressed by a formal letter from DEP.

By December 8, 2019, please send this office documentation as noted in the Findings section below. Documentation can be submitted by e-mail to jmatulevic@pa.gov or by fax to 570-820-4907.

Please be advised, a site characterization will be required, in accordance with 245.309, and will be addressed in a formal letter from DEP.

Findings

Dispenser Inspection

Violation:

Code and Description 245.432 - Failure to meet underground storage tank system operational requirements

Tank ID(s)	004	**Date**	11/06/2019
Remark	Please send this office documentation to demonstrate that Dispenser 5/6, Diesel, has been evaluated for leaks and has been repaired accordingly.		

Violation: **Code and Description** 245.432 - Failure to meet underground storage tank system operational requirements			
Tank ID(s)	005	**Date**	11/06/2019
Remark	Please send this office documentation to demonstrate that Dispenser 7, has been evaluated for leaks and has been repaired accordingly.		

Signatures

DEP Inspector Name	JOSHUA MATULEVICH	**DEP Inspector Signature**	
Date	11/06/2019 11:29 AM	**Title**	WTR QLTY SPCST

Signature by the person interviewed does not necessarily imply concurrence with the findings on this report, but does acknowledge that the person was shown the report or that a copy was left with the person.

On-Site Representative	Joe Motts	**On-Site Representative Signature**	
Date	11/06/2019 11:29 AM	**Title**	Manager
Telephone Number	(570) 876-3340		

Inspection Images

EE-30017:EE-5

Photo #: Dispenser Inspection-30017, EE-5 Dispenser 7, Off Road Diesel, weeping noted on piping; picture taken facing East parallel to Main Street.

EE-30017:EE-5:EE-26

Photo #: Dispenser Inspection-30017, EE-26 Dispenser 7, Off Road Diesel: Pea gravel/soil contamination evident and petroleum-like odors noted.

EE-30016:EE-5

Photo #: Dispenser Inspection-30016, EE-5 Dispenser 5/6, Diesel: Diesel pump is weeping; picture taken facing East parallel to Main Street.

EE-30016:EE-5:EE-26

Photo #: Dispenser Inspection-30016, EE-26 Dispenser 5/6, Diesel: soil staining noted, and mild petroleum-like odors detected.

Photo # Contaminated soil near Dispenser 5/6; taken overhead while facing North.

Photo # Contaminated area in relation to Dispenser 5/6: Lower left of picture; picture taken facing West towards Kennedy Drive.

ATTACHMENT F

PADEP Notice of Violation – November 7, 2019

pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

November 7, 2019

DK & DK, LLC
c/o Ms. Tricia Lorenzetti
224 N. Main St.
Archbald, PA 18403-1945

Re: ECB-Storage Tanks Program
Storage Tank System Releases
Quinn's Cafe
Facility ID #:35-20617
Incident#(s): #54106
224 N. Main St.
Archbald Borough, Lackawanna County

Dear Ms. Lorenzetti:

On November 6, 2019, the Department of Environmental Protection (DEP) received notification of a reportable release of a regulated substance, referenced above, at the above-named facility. The release was confirmed on November 7, 2019. This release is a violation of Section 1310 of the Pennsylvania Storage Tank and Spill Prevention Act. A copy of DEP's notification of a reported release form is enclosed for your reference.

This letter is to advise you that you have certain responsibilities regarding the release under the Corrective Action Process (CAP) regulations found in 25 PA Code Chapter 245, Subchapter D. You should carefully review these regulations to determine the specific requirements applicable to the release at your facility. The CAP regulations and several helpful fact sheets are available on DEP's website at www.dep.pa.gov, keyword "Tank Cleanup." In addition, please see the enclosed CAP Regulations Overview-Fact Sheet and CAP Flowchart. Collectively, this information can help you address the release quickly and effectively.

You should know that upon confirmation of a release, the CAP regulations require that you immediately implement any necessary interim remedial actions as described in Section 245.306 including: removing regulated substances from leaking tank systems; mitigating fire, explosion and safety hazards; preventing further migration of released substances; and identifying and sampling affected or potentially affected water supplies. Appropriate and timely interim remedial actions can often resolve environmental impacts caused by the release or limit their severity, thus making site cleanup easier and less expensive.

A site characterization must also be performed upon confirmation of a release in accordance with Section 245.309 of the CAP regulations. A Site Characterization Report (SCR) detailing the findings of the site characterization must be submitted to this office within 180 days of reporting the release as mandated in Section 245.310. We recommend that you engage the services of an experienced environmental consulting firm, with a Licensed Professional Geologist on staff, to conduct the site characterization and prepare the SCR. Completion of a comprehensive site characterization and

submission of a detailed SCR are critical in determining whether additional steps are needed to address the release at your facility. **The Site Characterization Report for this release is due on or before May 15, 2020.** Please note that due dates in this letter do not constitute an extension of compliance dates already established for previously reported contamination.

Your SCR must address all the elements of Section 245.310 and be submitted by the deadline listed above. A copy of Section 245.310 is enclosed for your reference. Requests for an extension of the deadline for SCR submittal will only be considered in limited cases based on valid technical reasons. Requests for an extension must be made in writing to this office at least 30 days before the SCR due date. Your written request must specify the technical reason(s) for the extension and include a new proposed submission date. No extension of the SCR due date will be permitted without written approval from DEP.

Financial assistance for corrective action may be available from the Underground Storage Tank Indemnification Fund (USTIF). You should immediately contact USTIF by calling 717-787-0763 or 800-595-9887 (in PA only) or by email to ra-ustif@pa.gov. Failure to notify USTIF within 60 days after knowledge of a potential claim will result in denial of coverage. You may wish to investigate other potential sources of financial assistance. We recommend that you contact the Pennsylvania Department of Community and Economic Development at 866-466-3972 or visit their website at www.newpa.com.

Please forward all documents, reports, and written requests at the northeast regional office address listed above. If you have any questions concerning the corrective action process or if you wish to have an on-site meeting to discuss corrective action requirements as they relate to your site, then please contact Albert Mabus – Licensed Professional Geologist, who is DEP project officer assigned to manage reported release incidents at your facility, and who can be reached by either telephone at (570) 826-5434 or by email to amabus@pa.gov.

If you have any questions concerning this letter, then please contact me either by telephone at (570) 826-2324 or through e-mail to susathomas@pa.gov.

Sincerely,

Susan E. Thomas

Susan E. Thomas
Environmental Program Compliance Specialist
Environmental Cleanup & Brownfields Program

Enclosures: NORRs, CAP Overview-Fact Sheet, CAP Flowchart, Chapter 245.310

cc: Archbald Borough, Lackawanna County
LaBella Associate, P.C. / Mr. Martin Gilgallon, P.G.
USTIF

ATTACHMENT G

Test Boring Logs

LaBella Associates, P.C.	TEST BORING LOG

Project:	Quinn's Café Stop Property	Date Started: January 6, 2020	
Client:	DK & DK, LLC	Date Finished: January 6, 2020	
Purpose:	Diesel Dispenser Borings		
Contractor:	Odyssey Environmental	Boring Number: TB-21	
Driller:	Josh Kuhn	Job Number: 26116 / 2171853	
Inspector:	Chris Herman	Sheet: 1 of 1	

TIME LOG	Begin	Finish	Depth	S.W.L. Elevation TOC	TOC/GL Surface
	12:54	13:20	5.0'		

Dept (feet)	Sample No's	PID (ppm)	Field Assessment Log	Lithologic Description	Notes
	SS-1		Rec: NA	0.0' - 5.0'	Asphalt Surface
---	0'-3'			Medium - dark brown sand,	Boring advanced via
1---	(13:10)	0.0		silt and clay with abundant	soft dig and hand auger
---				sub-angular pebbles and	Moist
2---		0.0		cobbles to 4.5', change to	
---				fly ash and silt with some	
3---	SS-2	0.0	Rec: NA	small sub-angular pebbles	
---	3'-5'				
4---	(13:20)	0.0			

5---		0.0			

6---					

7---					

8---					

9---					

10---					**Sample Log:**

11---					116-0106-TB21A
---					Sample Depth:
12---					2.5' - 3.0'
---					Sample Time: 1310
13---					
---					116-0106-TB21B
14---					Sample Depth:
---					4.5' - 5.0'
15---					Sample Time: 1320

16---					

17---					

18---					

19---				Log Approved By:	
---				Martin Gilgallon, P.G.	

LaBella Associates, P.C.	TEST BORING LOG

Project:	Quinn's Café Stop Property	Date Started: January 6, 2020	
Client:	DK & DK, LLC	Date Finished: January 6, 2020	
Purpose:	Diesel Dispenser Borings		
Contractor:	Odyssey Environmental	Boring Number: TB-22	
Driller:	Josh Kuhn	Job Number: 26116 / 2171853	
Inspector:	Chris Herman	Sheet: 1 of 1	

TIME LOG	Begin	Finish	Depth	S.W.L. Elevation TOC	TOC/GL Surface
	10:40	11:03	4.5'		

Dept (feet)	Sample No's	PID (ppm)	Field Assessment Log	Lithologic Description	Notes
	SS-1		Rec: NA	0.0' - 4.5'	Asphalt Surface
---	0'-3'			Very dark brown sand, silt and	Boring advanced via
1---	(10:54)	0.0		clay with very abundant	soft dig and hand auger
---				sub-angular pebbles and	Moist
2---		0.0		cobbles to 2.0', change to	
---				pea gravel to 4.5', change to	Very Moist
3---	SS-2	0.0	Rec: NA	bedrock or boulder	
---	3'-5'				
4---	(11:03)	0.0			

5---					

6---					

7---					

8---					

9---					

10---					**Sample Log:**

11---					116-0106-TB22A
---					Sample Depth:
12---					2.0' - 2.5'
---					Sample Time: 1054
13---					
---					116-0106-TB22B
14---					Sample Depth:
---					4.0' - 4.5'
15---					Sample Time: 1103

16---					

17---					

18---					

19---				Log Approved By:	
---				Martin Gilgallon, P.G.	

LaBella Associates, P.C.	TEST BORING LOG

Project:	Quinn's Café Stop Property	Date Started: January 6, 2020	
Client:	DK & DK, LLC	Date Finished: January 6, 2020	
Purpose:	Diesel Dispenser Borings		
Contractor:	Odyssey Environmental	Boring Number: TB-23	
Driller:	Josh Kuhn	Job Number: 26116 / 2171853	
Inspector:	Chris Herman	Sheet: 1 of 1	

TIME LOG	Begin	Finish	Depth	S.W.L. Elevation TOC	TOC/GL Surface
	13:34	14:01	5.0'		

Dept (feet)	Sample No's	PID (ppm)	Field Assessment Log	Lithologic Description	Notes
	SS-1		Rec: NA	0.0' - 5.0'	Concrete Surface
---	0'-3'			Medium - dark brown sand,	Boring advanced via
1---	(13:52)	0.0		silt and clay with abundant	soft dig and hand auger
---				sub-angular pebbles and	Moist
2---		0.0		cobbles to 3.0', change to	
---				pea gravel to 4.5', change to	
3---	SS-2	0.0	Rec: NA	light brown-tan silty sand with	Wet
---	3'-5'			some sub-angular pebbles	
4---	(14:01)	0.0			

5---		0.0			

6---					

7---					

8---					

9---					

10---					**Sample Log:**

11---					116-0106-TB23A
---					Sample Depth:
12---					2.5' - 3.0'
---					Sample Time: 1352
13---					
---					116-0106-TB23B
14---					Sample Depth:
---					4.5' - 5.0'
15---					Sample Time: 1401

16---					

17---					

18---					

19---				Log Approved By:	
---				Martin Gilgallon, P.G.	

LaBella Associates, P.C.	TEST BORING LOG

Project:	Quinn's Café Stop Property	Date Started: January 6, 2020	
Client:	DK & DK, LLC	Date Finished: January 6, 2020	
Purpose:	Diesel Dispenser Borings		
Contractor:	Odyssey Environmental	Boring Number: TB-24	
Driller:	Josh Kuhn	Job Number: 26116 / 2171853	
Inspector:	Chris Herman	Sheet: 1 of 1	

TIME LOG	Begin	Finish	Depth	S.W.L. Elevation TOC	TOC/GL Surface
	14:05	14:26	5.0'		

Dept (feet)	Sample No's	PID (ppm)	Field Assessment Log	Lithologic Description	Notes
	SS-1		Rec: NA	0.0' - 5.0'	Concrete Surface
---	0'-3'			Dark brown sand, silt and clay	Boring advanced via
1---	(14:22)	0.0		with abundant sub-angular	soft dig and hand auger
---				pebbles and cobbles to 2.0',	Moist
2---		0.0		change to pea gravel to 4.5',	
---				change to dark gray-brown	Wet
3---	SS-2	0.0	Rec: NA	sand, silt and clay with some	
---	3'-5'			sub-angular pebbles and	
4---	(14:26)	0.0		cobbles	

5---		0.0			

6---					

7---					

8---					

9---					

10---					**Sample Log:**

11---					116-0106-TB24A
---					Sample Depth:
12---					2.5' - 3.0'
---					Sample Time: 1422
13---					
---					116-0106-TB24B
14---					Sample Depth:
---					4.5' - 5.0'
15---					Sample Time: 1426

16---					

17---					

18---					

19---				Log Approved By:	
---				Martin Gilgallon, P.G.	

LaBella Associates, P.C.	TEST BORING LOG

Project:	Quinn's Café Stop Property	Date Started: January 6, 2020	
Client:	DK & DK, LLC	Date Finished: January 6, 2020	
Purpose:	Diesel Dispenser Borings		
Contractor:	Odyssey Environmental	Boring Number: TB-25	
Driller:	Josh Kuhn	Job Number: 26116 / 2171853	
Inspector:	Chris Herman	Sheet: 1 of 1	

TIME LOG	Begin	Finish	Depth	S.W.L. Elevation TOC	TOC/GL Surface
	10:00	10:29	5.5'		

Dept (feet)	Sample No's	PID (ppm)	Field Assessment Log	Lithologic Description	Notes
	SS-1		Rec: NA	0.0' - 5.5'	Asphalt Surface
---	0'-3'			Very dark brown sand, silt and	Boring advanced via
1---	(10:18)	0.0		clay with extremely abundant	soft dig and hand auger
---				sub-angular pebbles and	Moist
2---		0.0		cobbles to 4.5', change to	
---				fly ash with small-medium	Very Moist
3---	SS-2	0.0	Rec: NA	sub-angular pebbles to 5.0',	
---	3'-5'			change to dark gray fine sand	Wet
4---	(10:29)	4		and silt with some clay	

5---		21			

6---					

7---					

8---					

9---					

10---					**Sample Log:**

11---					116-0106-TB25A
---					Sample Depth:
12---					2.0' - 2.5'
---					Sample Time: 1018
13---					
---					116-0106-TB25B
14---					Sample Depth:
---					5.0' - 5.5'
15---					Sample Time: 1029

16---					

17---					

18---					

19---				Log Approved By:	
---				Martin Gilgallon, P.G.	

LaBella Associates, P.C.	TEST BORING LOG

Project:	Quinn's Café Stop Property	Date Started: January 6, 2020	
Client:	DK & DK, LLC	Date Finished: January 6, 2020	
Purpose:	Diesel Dispenser Borings		
Contractor:	Odyssey Environmental	Boring Number: TB-26	
Driller:	Josh Kuhn	Job Number: 26116 / 2171853	
Inspector:	Chris Herman	Sheet: 1 of 1	

TIME LOG	Begin	Finish	Depth	S.W.L. Elevation TOC	TOC/GL Surface
	11:14	11:51	5.0'		

Dept (feet)	Sample No's	PID (ppm)	Field Assessment Log	Lithologic Description	Notes
	SS-1		Rec: NA	0.0' - 5.0'	Asphalt Surface
---	0'-3'			Medium brown sand, silt and	Boring advanced via
1---	(11:35)	0.0		clay with extremely abundant	soft dig and hand auger
---				medium size sub-angular	Damp
2---		0.0		cobbles and sub-angular	
---				pebbles to 4.0', change to	
3---	SS-2	0.0	Rec: NA	fly ash with some sub-angular	Very Moist
---	3'-5'			pebbles to 4.5', change to	
4---	(11:51)	9		dark gray silty clay	Wet

5---		50			

6---					

7---					

8---					

9---					

10---					**Sample Log:**

11---					116-0106-TB26A
---					Sample Depth:
12---					2.5' - 3.0'
---					Sample Time: 1135
13---					
---					116-0106-TB26B
14---					Sample Depth:
---					4.5' - 5.0'
15---					Sample Time: 1151

16---					

17---					

18---					

19---				Log Approved By:	
---				Martin Gilgallon, P.G.	

LaBella Associates, P.C.	TEST BORING LOG

Project:	Quinn's Café Stop Property	Date Started: April 20, 2020	
Client:	DK & DK, LLC	Date Finished: April 20, 2020	
Purpose:	Soil Delineation - 2019 Claim		
Contractor:	Odyssey Environmental	Boring Number: TB-27	
Driller:	Clint Hoffman	Job Number: 26116 / 2171853	
Inspector:	Kevin Cucura	Sheet: 1 of 1	

TIME LOG	Begin	Finish	Depth	S.W.L. Elevation TOC	TOC/GL Surface
	9:05	9:27	5.0'		

Dept (feet)	Sample No's	PID (ppm)	Field Assessment Log	Lithologic Description	Notes
---				0.0' - 5.0' Brown sand and silt with abundant angular pebbles and cobbles to 1.0', change to dark brown sand and silt with abundant angular pebbles and cobbles to 2.0', change to medium brown sand and silt with abundant sub-angular pebbles and cobbles to 3.0', change to medium brown sand and silt with some clay and abundant angular and sub-angular pebbles and cobbles to 4.0', change to dark brown silt and clay to 4.5', change to medium brown sand, silt and clay with sub-angular pebbles	Asphalt Surface 5" Thick
1---		0.0			Damp

2---		0.0			Damp

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

5---		0.0			Moist

6---					

7---					

8---					Wet

9---					

10---				Refusal at 5.0'	**Sample Log:**
---					Sample ID #:
11---					1853-0420-TB27A
---					Sample Depth:
12---					2.0' - 2.5'
---					Sample Time: 0913
13---					
---					Sample ID #:
14---					1853-0420-TB27B
---					Sample Depth:
15---					4.5' - 5.0'
---					Sample Time: 0927
16---					

17---					

18---					

19---				Log Approved By:	
---				Martin Gilgallon, P.G.	

LaBella Associates, P.C.	TEST BORING LOG

Project:	Quinn's Café Stop Property	Date Started: April 20, 2020	
Client:	DK & DK, LLC	Date Finished: April 20, 2020	
Purpose:	Soil Delineation - 2019 Claim		
Contractor:	Odyssey Environmental	Boring Number: TB-28	
Driller:	Clint Hoffman	Job Number: 26116 / 2171853	
Inspector:	Kevin Cucura	Sheet: 1 of 1	

TIME LOG	Begin	Finish	Depth	S.W.L. Elevation TOC	TOC/GL Surface
	9:51	10:18	5.0'		

Dept (feet)	Sample No's	PID (ppm)	Field Assessment Log	Lithologic Description	Notes
---				0.0' - 5.0'	Asphalt Surface
1---		0.0		Brown sand and silt with	7" Thick
---				abundant angular pebbles and	Dry / Damp
2---		0.0		cobbles to 1.0', change to	
---				brown sand and silt with	Damp / Moist
3---		0.0		abundant angular pebbles and	
---				cobbles to 3.0', change to	
4---		0.0		dark brown silt and clay with	
---				abundant coal fragments to	
5---		128		3.5', change to gray silt and	Moist
---				clay with some organics to 4.0',	
6---				change to gray sand, silt and	Wet
---				clay to 5.0'	
7---					

8---					

9---					

10---					**Sample Log:**
---					Sample ID #:
11---					1853-0420-TB28A
---					Sample Depth:
12---					2.0' - 2.5'
---					Sample Time: 1008
13---					
---					Sample ID #:
14---					1853-0420-TB28B
---					Sample Depth:
15---					4.5' - 5.0'
---					Sample Time: 1018
16---					

17---					

18---					

19---				Log Approved By:	
---				Martin Gilgallon, P.G.	

LaBella Associates, P.C.	TEST BORING LOG

Project:	Quinn's Café Stop Property	Date Started: April 20, 2020	
Client:	DK & DK, LLC	Date Finished: April 20, 2020	
Purpose:	Soil Delineation - 2019 Claim		
Contractor:	Odyssey Environmental	Boring Number: TB-29	
Driller:	Clint Hoffman	Job Number: 26116 / 2171853	
Inspector:	Kevin Cucura	Sheet: 1 of 1	

TIME LOG	Begin	Finish	Depth	S.W.L. Elevation TOC	TOC/GL Surface
	10:32	10:59	5.0'		

Dept (feet)	Sample No's	PID (ppm)	Field Assessment Log	Lithologic Description	Notes
---				0.0' - 5.0'	Asphalt Surface
1---		0.0		Brown and orange brown sand with abundant angular pebbles and cobbles to 1.5', change to	8" Thick Dry / Damp
---					
2---		0.0		dark brown and gray sand and silt with abundant angular	Damp / Moist
---					
3---		0.0		pebbles and cobbles to 3.0',	
---				change to brown and gray	Moist
4---		0.0		sand, silt and clay with abundant sub-angular pebbles	

5---		70		and cobbles to 4.0', change to	
---				brown and gray sand and silt	Wet
6---					

7---					

8---					

9---					

10---					**Sample Log:**
---					Sample ID #:
11---					1853-0420-TB29A
---					Sample Depth:
12---					2.0' - 2.5'
---					Sample Time: 1053
13---					
---					Sample ID #:
14---					1853-0420-TB29B
---					Sample Depth:
15---					4.5' - 5.0'
---					Sample Time: 1059
16---					

17---					

18---					

19---				Log Approved By:	
---				Martin Gilgallon, P.G.	

LaBella Associates, P.C.	TEST BORING LOG

Project:	Quinn's Café Stop Property	Date Started: April 20, 2020	
Client:	DK & DK, LLC	Date Finished: April 20, 2020	
Purpose:	Soil Delineation - 2019 Claim		
Contractor:	Odyssey Environmental	Boring Number: TB-30	
Driller:	Clint Hoffman	Job Number: 26116 / 2171853	
Inspector:	Kevin Cucura	Sheet: 1 of 1	

TIME LOG	Begin	Finish	Depth	S.W.L. Elevation TOC	TOC/GL Surface
	11:22	12:00	5.5'		

Dept (feet)	Sample No's	PID (ppm)	Field Assessment Log	Lithologic Description	Notes
---				0.0' - 5.5' Brown sand and silt with abundant pebbles and cobbles to 1.5', change to medium brown and orange and brown sand and silt with abundant angular pebbles and cobbles to 3.0', change to dark brown granular silt and clay with some sub-rounded pebbles to 4.5', change to dark gray sand, silt and clay	Asphalt Surface 9" Thick
1---		0.0			Damp

2---		0.0			Damp / Mist

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

5---		14			Wet
---		22			
6---					

7---					

8---					

9---					

10---					**Sample Log:**
---					Sample ID #:
11---					1853-0420-TB30A
---					Sample Depth:
12---					2.5' - 3.0'
---					Sample Time: 1140
13---					
---					Sample ID #:
14---					1853-0420-TB30B
---					Sample Depth:
15---					5.0' - 5.5'
---					Sample Time: 1200
16---					

17---					

18---					

19---				Log Approved By:	
---				Martin Gilgallon, P.G.	

LaBella Associates, P.C.	TEST BORING LOG

Project:	Quinn's Café Stop Property	Date Started: April 20, 2020	
Client:	DK & DK, LLC	Date Finished: April 20, 2020	
Purpose:	Soil Delineation - 2019 Claim		
Contractor:	Odyssey Environmental	Boring Number: TB-31	
Driller:	Clint Hoffman	Job Number: 26116 / 2171853	
Inspector:	Kevin Cucura	Sheet: 1 of 1	

TIME LOG	Begin	Finish	Depth	S.W.L. Elevation TOC	TOC/GL Surface
	12:50	13:09	5.5'		

Dept (feet)	Sample No's	PID (ppm)	Field Assessment Log	Lithologic Description	Notes
---				0.0' - 5.5'	Asphalt Surface
				Dark brown and gray sand and	5.5" Thick
1---		0.0		silt with abundant angular	Damp / Moist
---				pebbles and cobbles to 2.0',	
2---		0.0		change to dark brown and gray	Moist
---				silt and clay with abundant	
3---		0.0		angular pebbles and cobbles	
---				to 4.0', change to black silt and	Wet
4---		0.0		coal ash	

5---		0.0			
---		0.0			
6---					

7---					

8---					

9---					

10---					**Sample Log:**
---					Sample ID #:
11---					1853-0420-TB31A
---					Sample Depth:
12---					2.0' - 3.0'
---					Sample Time: 1303
13---					
---					Sample ID #:
14---					1853-0420-TB31B
---					Sample Depth:
15---					5.0' - 5.5'
---					Sample Time: 1309
16---					

17---					

18---					

19---				Log Approved By:	
---				Martin Gilgallon, P.G.	

ATTACHMENT H

Monitoring Well Logs

LaBella Associates, P.C.	TEST BORING LOG

Project:	Quinn's Café Stop Property				Date Started: Geoprobe: 01.31.17 / Drilling: 02.01.17	
Client:	Quinn's Café Stop				Date Finished: Geoprobe: 01.31.17 / Drilling: 02.01.17	
Purpose:	Site Characterization Activities					
Contractor:	Odyssey Environmental				Boring Number: MW-1	
Driller:	Jake Shaffer				Job Number: 26116	
Inspectors: Chris Herman (Geoprobe) / Kevin Cucura (Drill)					Sheet: 1 of 1	
TIME	LOG	Begin	Finish	Depth	S.W.L. Elevation TOC	TOC/GL Surface
	Geoprobe	10:08	10:10	3.0'		
	Drilling	14:50	16:05	15.0'		

Dept (feet)	Sample No's	PID (ppm)	Field Assessment Log	Lithologic Description	Notes
	SS-1		Rec: 1.6'	0.0' - 3.0'	Asphalt Surface
---	0' - 3'			Brown sand and silt with	Geoprobe 0.0' - 3.0'
1---		0.0		sub-rounded pebbles to 2.5',	
---				change to pulverized	10" Diameter Hollow-
2---		0.0		orange brown weathered	Stem Auger 0.0' - 2.5'
---			Choppy Drilling	bedrock - Geoprobe refusal	
3---		0.0	2.5' - 4.5	3.0' - 4.5'	6" Diameter Air-Rotary
---			Dry	Orange brown weathered	2.5' - 15.0'
4---		--		bedrock	
---			Hard Steady	4.5' - 15.0'	Competent Bedrock
5---		--	Drilling 4.5' - 9.5'	Gray medium grained	at 4.5'
---				sandstone	
6---		--			

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

9---		--			
---			Choppy Drilling		Water Bearing Fracture
10---		--	9.5' - 10.0'		at 9.5'
---			Strong Odor		
11---		--			
---			Hard Steady		
12---		--	Drilling 10.0' - 15.0'		
---					**Sample Log:**
13---		--	Rod Change at		Sample ID #:
---			12.0' - Wet		116-0130-MW-1
14---		--			Sample Depth:
---					1.5' - 2.5'
15---		--			Sample Time: 1010
---				Note: A diverter was utilized	
16---				during the air-rotary drilling	
---				from 2.5' - 15.0'. As such,	
17---				no PID readings were	
---				collected.	
18---					

19---				Log Approved By:	
---				Martin Gilgallon, P.G.	

LaBella Associates, P.C.	TEST BORING LOG

Project:	Quinn's Café Stop Property	Date Started: Soft Dig: 01.30.17 / Drilling: 02.01.17	
Client:	Quinn's Café Stop	Date Finished: Soft Dig: 01.30.17 / Drilling: 02.01.17	
Purpose:	Site Characterization Activities		
Contractor:	Odyssey Environmental	Boring Number: MW-2	
Driller:	Jake Shaffer	Job Number: 26116	
Inspector:	Chris Herman (Soft) / Kevin Cucura (Drill)	Sheet: 1 of 1	

TIME	LOG	Begin	Finish	Depth	S.W.L. Elevation TOC	TOC/GL Surface
	Soft Dig	11:20	11:45	5.0'		
	Drilling	9:40	10:40	15.0'		

Dept (feet)	Sample No's	PID (ppm)	Field Assessment Log	Lithologic Description	Notes
---				0.0' - 5.0'	Asphalt Surface
1---		4		Brown and gray sand and silt with some sub-rounded	Soft Dig 0.0' - 5.0'
---				pebbles	10" Diameter Hollow-
2---					Stem Auger 0.0' - 5.0'
---		3			
3---					

4---		475	Wet at 4.0'		

5---		--	Choppy Drilling	5.0' - 9.5'	6" Diameter Air-Rotary
---			5.0' - 9.5'	Weathered bedrock	5.0' - 15.0'
6---		--			

7---		--	Rod Change at 7.0'		
---			Wet		
8---		--			

9---		--			
---			Hard Steady	9.5' - 15.0'	Competent Bedrock
10---		--	Drilling 9.5' - 15.0'	Gray medium grained	at 9.5'
---				sandstone	**Sample Log:**
11---		--			Sample ID #:
---					116-0130-MW2A
12---		--	Rod Change at		Sample Depth:
---			12.0' - Wet		1.5' - 2.5'
13---		--			Sample Time: 1130

14---		--			Sample ID #:
---					116-0130-MW2B
15---		--			Sample Depth:
---				Note: A diverter was utilized	4.0' - 5.0'
16---				during the air-rotary drilling	Sample Time: 1145
---				from 5.0' - 15.0'. As such,	
17---				no PID readings were	
---				collected.	
18---					

19---				Log Approved By:	
---				Martin Gilgallon, P.G.	

LaBella Associates, P.C.	TEST BORING LOG

Project:	Quinn's Café Stop Property				Date Started: Soft Dig: 01.30.17 / Drilling: 02.01.17	
Client:	Quinn's Café Stop				Date Finished: Soft Dig: 01.30.17 / Drilling: 02.01.17	
Purpose:	Site Characterization Activities					
Contractor:	Odyssey Environmental				Boring Number: MW-3	
Driller:	Jake Shaffer				Job Number: 26116	
Inspector:	Chris Herman (Soft) / Kevin Cucura (Drill)				Sheet: 1 of 1	
TIME	LOG	Begin	Finish	Depth	S.W.L. Elevation TOC	TOC/GL Surface
	Soft Dig	13:15	13:40	5.0'		
	Drilling	12:15	13:45	15.5'		

Dept (feet)	Sample No's	PID (ppm)	Field Assessment Log	Lithologic Description	Notes
---		0.0		0.0' - 5.0' Very dark brown sand and silt with abundant sub-angular pebbles and cobbles to 3.0', change to dark gray sand and silt with some sub-angular pebbles	Asphalt Surface Soft Dig 0.0' - 5.0' 10" Diameter Hollow-Stem Auger 0.0' - 9.0'
1---					

2---		0.0			

3---		6			

4---			Wet at 4.0'		

5---		55			

6---		102			

7---		21			

8---					
---		15			Competent Bedrock at 9.0'
9---			Hard Steady Drilling 9.0' - 15.5'	9.0' - 15.5' Gray medium grained sandstone	6" Diameter Air-Rotary 9.0' - 15.5'

10---		--			**Sample Log:**
---					Sample ID #: 116-0130-MW3A
11---		--	Rod Change at 11.0' - Wet		Sample Depth: 1.5' - 2.5'
---					Sample Time: 1331
12---		--			
---					Sample ID #: 116-0130-MW3B
13---		--			Sample Depth: 4.0' - 5.0'
---					Sample Time: 1340
14---		--			

15---		--			
---				Note: A diverter was utilized during the air-rotary drilling from 9.0' - 15.5'. As such, no PID readings were collected	
16---					

17---					

18---					

19---				Log Approved By: Martin Gilgallon, P.G.	

LaBella Associates, P.C.	TEST BORING LOG

Project:	Quinn's Café Stop Property	Date Started: Geoprobe: 01.31.17 / Drilling: 02.01.17	
Client:	Quinn's Café Stop	Date Finished: Geoprobe: 01.31.17 / Drilling: 02.01.17	
Purpose:	Site Characterization Activities		
Contractor:	Odyssey Environmental	Boring Number: MW-4	
Driller:	Jake Shaffer	Job Number: 26116	
Inspector:	Chris Herman	Sheet: 1 of 1	

TIME LOG	Begin	Finish	Depth	S.W.L. Elevation TOC	TOC/GL Surface
Geoprobe	11:35	11:45	7.0'		
Drilling	12:48	13:55	15.5'		

Dept (feet)	Sample No's	PID (ppm)	Field Assessment Log	Lithologic Description	Notes
	SS-1		Rec: 2.5'	0.0' - 5.0'	Asphalt Surface
---	0'-5'			Medium brown sand and silt	Geoprobe 0.0' - 7.0'
1---	(11:37)	5		with pulverized slag and	
---				sandstone to 4.0', change to	10" Diameter Hollow-
2---		41		gray sand and silt	Stem Auger 0.0' - 7.0'

3---		45			

4---		47			Wet at 4.0'

5---	SS-2	32	Rec: 2.8'	5.0' - 7.0'	Moist
---	5'-7'			Brown sand and silt to 6.0',	
6---	(11:40)	>999		change to pulverized	
---				weathered bedrock	
7---		120	Hard Steady	7.0' - 11.0'	Competent Bedrock
---			Drilling 7.0' - 11.0'	Gray medium grained	at 7.0'
8---		--		sandstone	6" Diameter Air-Rotary
---					7.0' - 15.5'
9---		--			

10---		--			
---					**Sample Log:**
11---		--	Choppy Drilling	11.0' - 12.0'	Sample ID #:
---			11.0' - 12.0'	Brown weathered sandstone	116-0130-MW4A
12---		--	Rod Change at	12.0' - 15.5'	Sample Depth:
---			12.0' - Dry	Gray medium grained	1.5' - 2.5'
13---		--	Hard Steady	sandstone	Sample Time: 1137
---			Drilling 12.0' - 15.5'		
14---		--			Sample ID #:
---					116-0130-MW4B
15---		--			Sample Depth:
---				Note: A diverter was utilized	4.0' - 5.0'
16---				during the air-rotary drilling	Sample Time: 1140
---				from 7.0' - 15.5'. As such,	
17---				no PID readings were	
---				collected.	
18---					

19---				Log Approved By:	
---				Martin Gilgallon, P.G.	

LaBella Associates, P.C.	TEST BORING LOG

Project:	Quinn's Café Stop Property	Date Started: Geoprobe: 01.31.17 / Drilling: 02.01.17	
Client:	Quinn's Café Stop	Date Finished: Geoprobe: 01.31.17 / Drilling: 02.01.17	
Purpose:	Site Characterization Activities		
Contractor:	Odyssey Environmental	Boring Number: MW-5	
Driller:	Jake Shaffer	Job Number: 26116	
Inspector:	Chris Herman	Sheet: 1 of 1	

TIME LOG	Begin	Finish	Depth	S.W.L. Elevation TOC	TOC/GL Surface
Geoprobe	10:52	10:57	5.0'		
Drilling	15:09	15:57	15.5'		

Dept (feet)	Sample No's	PID (ppm)	Field Assessment Log	Lithologic Description	Notes
	SS-1		Rec: 3.4'	0.0' - 5.0'	Asphalt Surface
---	0'-5'			Dark brown sand and silt with	Geoprobe 0.0' - 5.0'
1---	(10:55)	6		sub-angular pebbles to 3.5',	
---				change to light brown sand	10" Diameter Hollow-
2---		6		and silt with some clay to 4.5',	Stem Auger 0.0' - 5.0'
---				change to pulverized	
3---		6		sandstone	
---			Wet at 3.5'		
4---		5			

5---		41	Soft Steady Drilling	5.0' - 8.0'	6" Diameter Air-Rotary
---			5.0' - 8.0'	Weathered bedrock	5.0' - 15.5'
6---		--			
---			Rod Chage at 7.0'		
7---		--	Dry		

8---		--	Hard Steady	8.0' - 15.5'	Competent Bedrock
---			Drilling 8.0' - 15.5'	Gray medium grained	at 8.0'
9---		--		sandstone	

10---		--			
---					**Sample Log:**
11---		--			Sample ID #:
---					116-0130-MW5A
12---		--	Rod Change at		Sample Depth:
---			12.0' - Wet		1.5' - 2.5'
13---		--			Sample Time: 1055

14---		--			Sample ID #:
---					116-0130-MW5B
15---		--			Sample Depth:
---				Note: A diverter was utilized	3.5' - 4.5'
16---				during the air-rotary drilling	Sample Time: 1057
---				from 5.0' - 15.5'. As such,	
17---				no PID readings were	
---				collected.	
18---					

19---				Log Approved By:	
---				Martin Gilgallon, P.G.	

LaBella Associates, P.C. — TEST BORING LOG

Project:	Quinn's Café Stop Property	Date Started: Soft Dig: 06.05.17 / Drilling: 06.06.17	
Client:	Quinn's Café Stop	Date Finished: Soft Dig: 06.05.17 / Drilling: 06.06.17	
Purpose:	Site Characterization Activities		
Contractor:	Odyssey Environmental	Boring Number: MW-6	
Driller:	Corey Suter / Jake Shaffer	Job Number: 26116	
Inspectors: Chris Herman (Soft Dig) / Kevin Cucura (Drill)		Sheet: 1 of 1	

TIME LOG	Begin	Finish	Depth	S.W.L. Elevation TOC	TOC/GL Surface
Soft Dig	9:30	9:50	5.0'		
Drilling	10:15	11:00	16.0'		

Dept (feet)	Sample No's	PID (ppm)	Field Assessment Log	Lithologic Description	Notes
---				0.0' - 6.5'	Grass Surface
1---	(09:35)	0.0		Dark brown sand and silt	
---				with sub-angular pebbles and	10" Diameter Hollow-
2---		0.0		cobbles to 4.0', change to	Stem Auger 0.0' - 6.5'
---				dark to medium gray sand,	
3---		0.0		silt and clay with abundant	Damp 0.0' - 4.0'
---				sub-angular pebbles and	
4---		7.6		cobbles	Wet 4.0' - 12.5'
---			Faint Odor		
5---	(09:50)	9.3			

6---		10.5			
---			Soft Drilling	6.5' - 7.5'	6" Diameter Air-Rotary
7---		--	6.5' - 12.5'	Sandstone boulder	6.5' - 16.0'
---				7.5' - 12.5'	
8---		--		Medium gray sand and silt	
---				with abundant sub-angular	
9---		--	Slight Odor	cobbles	

10---		--			

11---		--			

12---		--			
---			Hard Steady	12.5' - 16.0'	Competent Bedrock
13---		--	Drilling 12.5' - 16.0'	Gray sandstone; no fractures	at 12.5'
---			No potential water	observed	
14---		--	bearing zones in		**Sample Log:**
---			bedrock		Sample ID #:
15---		--			016-0605-MW6A
---				Note: A diverter was utilized	Sample Depth:
16---		--		during the air-rotary drilling	1.5' - 2.5'
---				from 6.5' - 16.0'. As such,	Sample Time: 0935
17---				no PID readings were	
---				collected.	Sample ID #:
18---					116-0605-MW6B
---					Sample Depth:
19---				Log Approved By:	4.0' - 5.0'
---				Martin Gilgallon, P.G.	Sample Time: 0950

COMMONWEALTH OF PENNSYLVANIA — REGISTERED PROFESSIONAL — MARTIN PATRICK GILGALLON — GEOLOGIST NO. PG000052RG

LaBella Associates, P.C.	TEST BORING LOG

Project:	Quinn's Café Stop Property				Date Started: Soft Dig: 06.05.17 / Drilling: 06.07.17	
Client:	Quinn's Café Stop				Date Finished: Soft Dig: 06.05.17 / Drilling: 06.07.17	
Purpose:	Site Characterization Activities					
Contractor:	Odyssey Environmental				Boring Number: MW-7	
Driller:	Corey Suter / Jake Shaffer				Job Number: 26116	
Inspector:	Chris Herman (Soft Dig) / Kevin Cucura (Drill)				Sheet: 1 of 1	
TIME	LOG	Begin	Finish	Depth	S.W.L. Elevation TOC	TOC/GL Surface
	Soft Dig	12:51	13:22	4.0'		
	Drilling	13:30	14:35	17.5'		

Dept (feet)	Sample No's	PID (ppm)	Field Assessment Log	Lithologic Description	Notes
---				0.0' - 4.0'	Grass Surface
1---		0.0	Damp	Extremely dark brown and dark gray sand and silt with abundant sub-angular cobbles and pebbles to 1.0', change to very dark brown and medium light brown sand and silt with very abundant sub-angular pebbles and cobbles	10" Diameter Hollow-Stem Auger 0.0' - 4.0'
---	(12:54)				
2---		0.0			

3---		0.0			

4---		--			Large boulder at 4.0'
---					6" Diameter Air-Rotary
5---		--		4.0' - 6.5'	4.0' - 17.5'
---			Moist / Wet	Dark brown sand and silt with some pulverized sandstone fragments	
6---		--			

7---		--		6.5' - 8.0'	
---				Weathered pulverized dark brown sandstone	
8---		--			
---			Hard Steady	8.0' - 17.5'	Competent Bedrock
9---		--	Drilling 8.0' - 10.0'	Interbedded medium gray and light gray medium grained sandstone	at 8.0'

10---		--	Choppy Drilling		
---			10.0' to 10.5'		Dry
11---		--	Hard Steady		
---			Drilling 10.5' - 13.0'		
12---		--			

13---		--	Choppy Drilling		Dry
---			13.0' - 13.5'		
14---		--	Hard Steady		**Sample Log:**
---			Drilling 13.5' - 17.5'		Sample ID #:
15---		--			116-0605-MW7A
---				Note: A diverter was utilized	Sample Depth:
16---				during the air-rotary drilling	1.5' - 2.5'
---				from 4.0' - 17.5'. As such,	Sample Time: 1254
17---				no PID readings were	
---				collected.	Sample ID #:
18---					116-0605-MW7B
---					Sample Depth:
19---				Log Approved By:	5.5' - 6.5'
---				Martin Gilgallon, P.G.	Sample Time: 1345

LaBella Associates, P.C.	TEST BORING LOG

Project:	Quinn's Café Stop Property	Date Started: Geoprobe: 06.05.17 / Drilling: 06.07.17	
Client:	Quinn's Café Stop	Date Finished: Geoprobe: 06.05.17 / Drilling: 06.07.17	
Purpose:	Site Characterization Activities		
Contractor:	Odyssey Environmental	Boring Number: MW-8	
Driller:	Corey Suter / Jake Shaffer	Job Number: 26116	
Inspector:	Chris Herman (Soft Dig) / Kevin Cucura (Drill)	Sheet: 1 of 1	

TIME LOG	Begin	Finish	Depth	S.W.L. Elevation TOC	TOC/GL Surface
Soft Dig	12:18	12:40	5.0'		
Drilling	10:30	11:35	18.0'		

Dept (feet)	Sample No's	PID (ppm)	Field Assessment Log	Lithologic Description	Notes
---				0.0' - 5.0'	Grass Surface
1---		0.0		Dark brown and light brown sand and silt with sub-angular	10" Diameter Hollow-
---	(12:22)			cobbles and pebbles to 5.0'	Stem Auger 0.0' - 6.0'
2---		0.0			
---					Moist 0.0' - 4.0'
3---		0.0			

4---		0.0			Wet 4.0' - 6.5'

5---		0.0		5.0' - 6.5'	Large cobbles at 5.0'
---				Dark brown sand and silt	
6---		0.0		with pulverized sandstone	6" Diamter Air-Rotary
---				fragments	6.0' - 18.0'
7---		--	Choppy Drilling	6.5' - 7.5'	
---			6.5' - 7.5'	Weathered dark gray	
8---		--		sandstone and silt	
---			Very Hard Steady	7.5' - 18.0'	Competent Rock
9---		--	Drilling 7.5' - 18.0'	Interbedded medium gray	at 7.5'
---				and light gray medium	
10---		--		grained sandstone	

11---		--			

12---		--			

13---		--			

14---		--			**Sample Log:**
---			No potential water		Sample ID #:
15---		--	bearing zones in		116-0605-MW8A
---			bedrock	Note: A diverter was utilized	Sample Depth:
16---				during the air-rotary drilling	1.5' - 2.5'
---				from 6.0' - 18.0'. As such,	Sample Time: 1220
17---				no PID readings were	
---				collected	Sample ID #:
18---					116-0605-MW8B
---					Sample Depth:
19---				Log Approved By:	5.5' - 6.5'
---				Martin Gilgallon, P.G.	Sample Time: 1007

LaBella Associates, P.C.	TEST BORING LOG

Project:	Quinn's Café Stop Property	Date Started: Soft Dig: 06.05.17 / Drilling: 06.08.17	
Client:	Quinn's Café Stop	Date Finished: Soft Dig: 06.05.17 / Drilling: 06.08.17	
Purpose:	Site Characterization Activities		
Contractor:	Odyssey Environmental	Boring Number: MW-9	
Driller:	Corey Suter / Jake Shaffer	Job Number: 26116	
Inspector:	Chris Herman (Soft Dig) Kevin Cucura (Drill)	Sheet: 1 of 1	

TIME LOG	Begin	Finish	Depth	S.W.L. Elevation TOC	TOC/GL Surface
Soft Dig	10:20	10:43	5.0'		
Drilling	8:55	10:22	17.5'		

Dept (feet)	Sample No's	PID (ppm)	Field Assessment Log	Lithologic Description	Notes
---				0.0' - 5.0'	Grass Surface
1---		0.0		Dark brown and medium gray sand, silt and clay with	10" Diamter Hollow-Stem Auger 0.0' - 4.0'
---	(10:23)			oxidation and few sub-angular	
2---		0.0		pebbles and cobbles to 3.0',	Damp 0.0' - 3.0'
---				change to dark brown and	
3---		0.0		dark gray sand, silt and clay	Wet 3.0' - 7.0'
---	(10:35)			with sub-angular pebbles and	
4---		0.0		cobbles	6" Diamter Air-Rotary 4.0' - 17.5'

5---		--		5.0' - 7.0'	
---				Dark brown and gray sand	
6---		--		and silt with abundant	
---				sub-angular cobbles	
7---		--	Soft Choppy	7.0' - 9.0'	
---			Drilling 7.0' - 9.0'	Dark brown weathered	
8---		--		sandstone	

9---		--	Hard Steady	9.0' - 17.5'	Competent Rock at 9.0'
---			Drilling 9.0' - 17.5'	Interbedded medium gray	
10---		--		and light gray sandstone	
---			No potential water		
11---		--	bearing zones in		
---			bedrock		
12---		--			

13---		--			

14---		--			**Sample Log:**
---					Sample ID #:
15---		--			116-0605-MW9A
---				Note: A diverter was utilized	Sample Depth:
16---		--		during the air-rotary drilling	1.5' - 2.5'
---				from 4.0' - 17.5'. As such,	Sample Time: 1023
17---		--		no PID readings were	
---				collected.	Sample ID #:
18---					116-0605-MW9B
---					Sample Depth:
19---				Log Approved By:	3.0' - 4.0'
---				Martin Gilgallon, P.G.	Sample Time: 11035

LaBella Associates, P.C.	TEST BORING LOG

Project:	Quinn's Café Stop Property	Date Started: Soft Dig: 06.05.17 / Drilling: 06.06.17	
Client:	Quinn's Café Stop	Date Finished: Soft Dig: 06.05.17 / Drilling: 06.06.17	
Purpose:	Site Characterization Activities		
Contractor:	Odyssey Environmental	Boring Number: MW-10	
Driller:	Corey Suter / Jake Shaffer	Job Number: 26116	
Inspector:	Chris Herman (Soft Dig) Kevin Cucura (Drill)	Sheet: 1 of 1	

TIME LOG	Begin	Finish	Depth	S.W.L. Elevation TOC	TOC/GL Surface
Soft Dig	11:00	11:26	5.0'		
Drilling	12:10	14:00	24.0'		

Dept (feet)	Sample No's	PID (ppm)	Field Assessment Log	Lithologic Description	Notes
---				0.0' - 5.0'	Asphalt Surface
1---	(11:06)	0.0		Very dark brown and light brown sand and silt with abundant sub-angular	10" Diameter Borehole 0.0' - 9.0'
2---		0.0		cobbles and some pebbles to 5.0'	Moist 0.0' - 7.5'
3---		0.0			
4---		0.0			
5---		0.0		5.0' - 8.5'	
6---		0.0		Dark brown sand and silt with some coal fragments and sub-angular pebbles and	
7---		0.0		cobbles	Wet 7.5' - 8.5'
8---		0.0		8.5' - 9.0'	
9---		0.0		Dark gray and brown weathered sandstone	6" Diameter Borehole 9.0' - 24.0'
10---		--	Hard Steady Drilling 9.0' - 24.0'	9.0' - 24.0' Medium grained medium gray sandstone with interbedded light gray sandstone	Competent Rock at 9.0'
11---		--			
12---		--	No potential water bearing zones in bedrock		
13---		--			
14---		--			**Sample Log:**
---			06.07.17		Sample ID #:
15---		--	Check for water		116-0605-MW10A
16---		--	at 0730; 1.3' of water in bottom	Note: A diverter was utilized during the air-rotary drilling	Sample Depth: 1.5' - 2.5'
17---		--	of borehole	from 9.0' - 24.0'. As such, no PID readings were	Sample Time: 1106
18---		--		collected.	Sample ID #: 116-0605-MW10B
19---		--		Log Approved By: Martin Gilgallon, P.G.	Sample Depth: 7.5' - 8.5' Sample Time: 1335

COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL MARTIN PATRICK GILGALLON GEOLOGIST

LaBella Associates, P.C.					TEST BORING LOG	
					Soft Dig	Drilling
Project:	Quinn's Café Stop Property				Date Started: 11/10/2017	11/15/2017
Client:	Quinn's Café Stop				Date Finished: 11/10/2017	11/15/2017
Purpose:	Site Characterization Activities					
Contractor:	Odyssey Environmental				Boring Number: MW-11	
Driller:	Jake Shaffer / Zach Hoppes				Job Number: 26116	
Inspector:	Dean Cruciani				Sheet: 1 of 1	
TIME LOG		Begin	Finish	Depth	S.W.L.	TOC/GL
Soft Dig		7:20	7:43	6.0'	Elevation TOC	Surface
Drilling		10:05	11:48	17.0'		

Dept (feet)	Sample No's	PID (ppm)	Field Assessment Log	Lithologic Description	Notes
---				0.0' - 6.0'	Gravel Surface
1---				Soft dig to 6.0' on 11/10/2017;	
---		0.0		Asphalt millings and gravel fill	10" Diameter Borehole
2---				to 1.5', change to brown sand	0.0' - 7.0'
---				and silt with abundant	Moist 1.5' - 6.0'
3---		0.0		pebbles and cobbles	

4---					

5---		0.0			

6---		0.0		6.5' - 9.5'	Wet at 6.0'
---				Grayish brown to gray	6" Diameter Borehole
7---		0.0		sandstone	7.0' - 17.0'
---					Soft /Weathered Rock
8---		0.0			6.5' - 9.5'

9---		0.0			
---				9.5' - 17.0'	Competent Rock at 9.5'
10---		0.0		Gray sandstone; no fractures	
---				observed	
11---		0.0			

12---		0.0			

13---		0.0			

14---		0.0			

15---		0.0			No Samples Collected

16---		0.0			

17---		0.0			

18---					

19---				Log Approved By:	
---				Martin Gilgallon, P.G.	

LaBella Associates, P.C.					TEST BORING LOG	
					Soft Dig	Drilling
Project:	Quinn's Café Stop Property				Date Started: 11/10/2017	11/15/2017
Client:	Quinn's Café Stop				Date Finished: 11/10/2017	11/15/2017
Purpose:	Site Characterization Activities					
Contractor:	Odyssey Environmental				Boring Number: MW-12	
Driller:	Jake Shaffer / Zach Hoppes				Job Number: 26116	
Inspector:	Dean Cruciani				Sheet: 1 of 1	
TIME LOG		Begin	Finish	Depth	S.W.L.	TOC/GL
Soft Dig		9:44	10:17	5.0'	Elevation TOC	Surface
Drilling		10:08	12:00	20.0'		

Dept (feet)	Sample No's	PID (ppm)	Field Assessment Log	Lithologic Description	Notes
---				0.0' - 5.0'	Asphalt Surface
1---				Soft dig to 5.0' on 11/10/2017;	
---				Asphalt to 0.7', change to	
2---		0.0		mixed gray and grayish brown sand and silt with abundant	Moist
---				pebbles to 3.0', change to	
3---		0.0		brown sand, silt and clay with	
---				abundant pebbles and	
4---		0.0		cobbles	

5---	SS-2	0.0	Rec: 2.4'	5.0' - 10.0'	
---	5'-10'			Brown sand and silt with	
6---				abundant sub-angular	Wet 6..0' - 13.5'
---				pebbles; orange mottles	No Odor
7---					No Visual

8---					

9---					

10---	SS-3	0.0	Rec: 3.0'	10.0' - 15.0'	
---	10'-15'			Gray sand and silt with	
11---				abundant sub-angular	Cobble 15.0' - 15.5'
---				pebbles and cobbles	
12---					

13---					

14---					**Sample Log:**
---					Sample ID #:
15---				15.0' - 20.0'	116-1109-PW12A
---				Dark gray to gray sand and	Sample Depth:
16---				silt with abundant	2.2' - 2.7'
---				sandstone pebbles and	Sample Time: 1010
17---				cobbles to 20.0'	
---					Sample ID #:
18---					116-1109-PW12B
---					Sample Depth:
19---				Log Approved By:	4.5' - 5.0'
---				Martin Gilgallon, P.G.	Sample Time: 1017

LaBella Associates, P.C.	TEST BORING LOG

		Soft Dig	Drilling
Project:	Quinn's Café Stop Property	Date Started: 11/10/2017	11/15/2017
Client:	Quinn's Café Stop	Date Finished: 11/10/2017	11/15/2017
Purpose:	Site Characterization Activities		
Contractor:	Odyssey Environmental	Boring Number: PMW-13	
Driller:	Corey Suter / Jake Shaffer	Job Number: 26116	
Inspector:	Dean Cruciani	Sheet: 1 of 1	

TIME LOG	Begin	Finish	Depth	S.W.L.	TOC/GL
Soft Dig	8:10	9:13	5.0'	Elevation TOC	Surface
Drilling	8:17	9:49	17.0'		

Dept (feet)	Sample No's	PID (ppm)	Field Assessment Log	Lithologic Description	Notes
---				0.0' - 5.0'	Asphalt Surface
1---		0.0		Soft dig to 5.0' on 11/10/2017; Asphalt to 0.6', change to gravel fill, mixed fill materials;	10" Diameter Borehole 0.0' - 5.5'

2---		0.0		brown sand, silt and clay with abundant pebbles and	

3---				cobbles	

4---		0.0			

5---		0.0		5.5' - 11.0'	Wet 5.0' - 5.5'
---				Abundant pebbles and	6" Diameter Borehole
6---		0.0		cobbles in brown sandy	5.5' - 17.0'
---				matrix	
7---		0.0			

8---		0.0			

9---		0.0			

10---		0.0			

11---		0.0		11.0' - 17.0'	
---				Gray sandstone	
12---		0.0			

13---		0.0			

14---		0.0			**Sample Log:**
---					Sample ID #:
15---		0.0			116-1109-PW13A
---					Sample Depth:
16---		0.0			2.0' - 2.5'
---					Sample Time: 0845
17---		0.0			
---					Sample ID #:
18---					116-1109-PW13B
---					Sample Depth:
19---				Log Approved By:	5.0' - 5.5'
---				Martin Gilgallon, P.G.	Sample Time: 1538

LaBella Associates, P.C.					TEST BORING LOG	
					Soft Dig	Drilling
Project:	Quinn's Café Stop Property				Date Started: 08/19/2019	08/21/2019
Client:	Quinn's Café Stop				Date Finished: 08/19/2019	08/21/2019
Purpose:	Monitoring Well Installation					
Contractor:	Odyssey Environmental				Boring Number: MW-14	
Driller:	Josh Kuhn / Jake Shaffer				Job Number: 2171853	
Inspector:	Doug McCarty				Sheet: 1 of 1	
TIME LOG		Begin	Finish	Depth	S.W.L.	TOC/GL
Soft Dig		13:20	14:30	5.0'	Elevation TOC	Surface
Drilling		7:41	8:30	15.0'		

Dept (feet)	Sample No's	PID (ppm)	Field Assessment Log	Lithologic Description	Notes
---				0.0' - 5.0'	Asphalt Surface
1---				Asphalt to 0.6', change to	
---				dark gray silt and sand mixed	
2---				with large stones to 1.5',	
---		20.6		change to brown silt and sand	
3---				with sub-angular pebbles and	
---				some large stone; black silt	
4---				and sand with some clay at 5.0'	

5---		96.1		5.5' - 11.0'	
---				Black silt and sand with some	
6---				clay to 7.0', change to wet silt	
---				with clay, sand and	
7---				sub-angular pebbles; bedrock	
---		>999		at 11.0'	
8---					

9---					

10---					

11---				11.0' - 15.0'	
---				Gray fine to medium grained	
12---				sandstone	

13---					

14---					

15---					

16---					

17---					

18---					

19---				Log Approved By:	
---				Martin Gilgallon, P.G.	

LaBella Associates, P.C.	TEST BORING LOG

		Soft Dig	Drilling
Project:	Quinn's Café Stop Property	Date Started: 08/19/2019	08/20/2019
Client:	Quinn's Café Stop	Date Finished: 08/19/2019	08/20/2019
Purpose:	Monitoring Well Installation		
Contractor:	Odyssey Environmental	Boring Number: MW-15	
Driller:	Josh Kuhn / Jake Shaffer	Job Number: 2171853	
Inspector:	Doug McCarty	Sheet: 1 of 1	

TIME LOG	Begin	Finish	Depth	S.W.L.	TOC/GL
Soft Dig	9:15	9:50	5.0'	Elevation TOC	Surface
Drilling	9:45	11:00	15.0'		

Dept (feet)	Sample No's	PID (ppm)	Field Assessment Log	Lithologic Description	Notes
---				0.0' - 5.0'	Asphalt Surface
1---				Dark brown silt and sand with	
---				sub-angular pebbles to 5.0'	
2---					

3---					

4---		257			

5---				5.5' - 11.0'	Strong Odor
---				Dark brown silt and sand with	
6---				sub-angular pebbles and	
---				some large stones	
7---		1731			

8---					

9---					

10---				10.0' - 15.0'	Approximately 10.0'
---				Gray fine to medium grained	hit bedrock surface
11---				sandstone	switch to air rotary

12---					

13---					

14---					

15---					

16---					

17---					

18---					

19---				Log Approved By:	
---				Martin Gilgallon, P.G.	

LaBella Associates, P.C.					TEST BORING LOG	
					Soft Dig	Drilling
Project:	Quinn's Café Stop Property				Date Started: 08/19/2019	08/20/2019
Client:	Quinn's Café Stop				Date Finished: 08/19/2019	08/20/2019
Purpose:	Monitoring Well Installation					
Contractor:	Odyssey Environmental				Boring Number: MW-16	
Driller:	Josh Kuhn / Jake Shaffer				Job Number: 2171853	
Inspector:	Doug McCarty				Sheet: 1 of 1	
TIME LOG		Begin	Finish	Depth	S.W.L.	TOC/GL
Soft Dig		10:30	11:30	5.0'	Elevation TOC	Surface
Drilling		12:30	14:40	15.0'		

Dept (feet)	Sample No's	PID (ppm)	Field Assessment Log	Lithologic Description	Notes
---				0.0' - 5.0'	Asphalt Surface
1---				Dark gray sand and silt with large stone to 4.0', change to	
---		24.3		dark gray clay and silt	
2---					

3---					

4---					
---		49.6			
5---				5.0' - 10.0'	
---				Dark gray clay and silt to 7.0',	
6---				change to dark gray wet clay	
---				with sub-angular pebbles;	
7---		752		weathered bedrock 8.0' - 10.0'	

8---					

9---					

10---				10.0' - 15.0'	
---				Gray medium grained sandstone	
11---					

12---					

13---					

14---					

15---					

16---					

17---					

18---					

19---				Log Approved By:	
---				Martin Gilgallon, P.G.	

LaBella Associates, P.C.

TEST BORING LOG

		Soft Dig	Drilling
Project:	Quinn's Café Stop Property	Date Started: 08/19/2019	08/20/2019
Client:	Quinn's Café Stop	Date Finished: 08/19/2019	08/20/2019
Purpose:	Monitoring Well Installation		
Contractor:	Odyssey Environmental	Boring Number: MW-17	
Driller:	Josh Kuhn / Jake Shaffer	Job Number: 2171853	
Inspector:	Doug McCarty	Sheet: 1 of 1	

TIME LOG	Begin	Finish	Depth	S.W.L.	TOC/GL
Soft Dig	12:15	13:15	5.0'	Elevation TOC	Surface
Drilling	14:20	15:20	15.0'		

Dept (feet)	Sample No's	PID (ppm)	Field Assessment Log	Lithologic Description	Notes
---				0.0' - 5.0'	Concrete Surface
1---				Concrete to 0.6', change to	Soft dig to 5.0'; hit
---				pea gravel	water; water placed in
2---					barrel, backfilled with
---					pea gravel
3---					No PID Reading
---					No Odor
4---					No Visual

5---				5.0' - 11.0'	
---				Pea gravel to 8.0', change to	
6---				pebbles with bedrock at 9.0'	

7---					

8---					

9---				9.0' - 15.0'	
---				Gray fine to medium grained	
10---				sandstone	

11---					

12---					

13---					

14---					

15---					

16---					

17---					

18---					

19---				Log Approved By:	
---				Martin Gilgallon, P.G.	

ATTACHMENT I

Monitoring Well Construction Details

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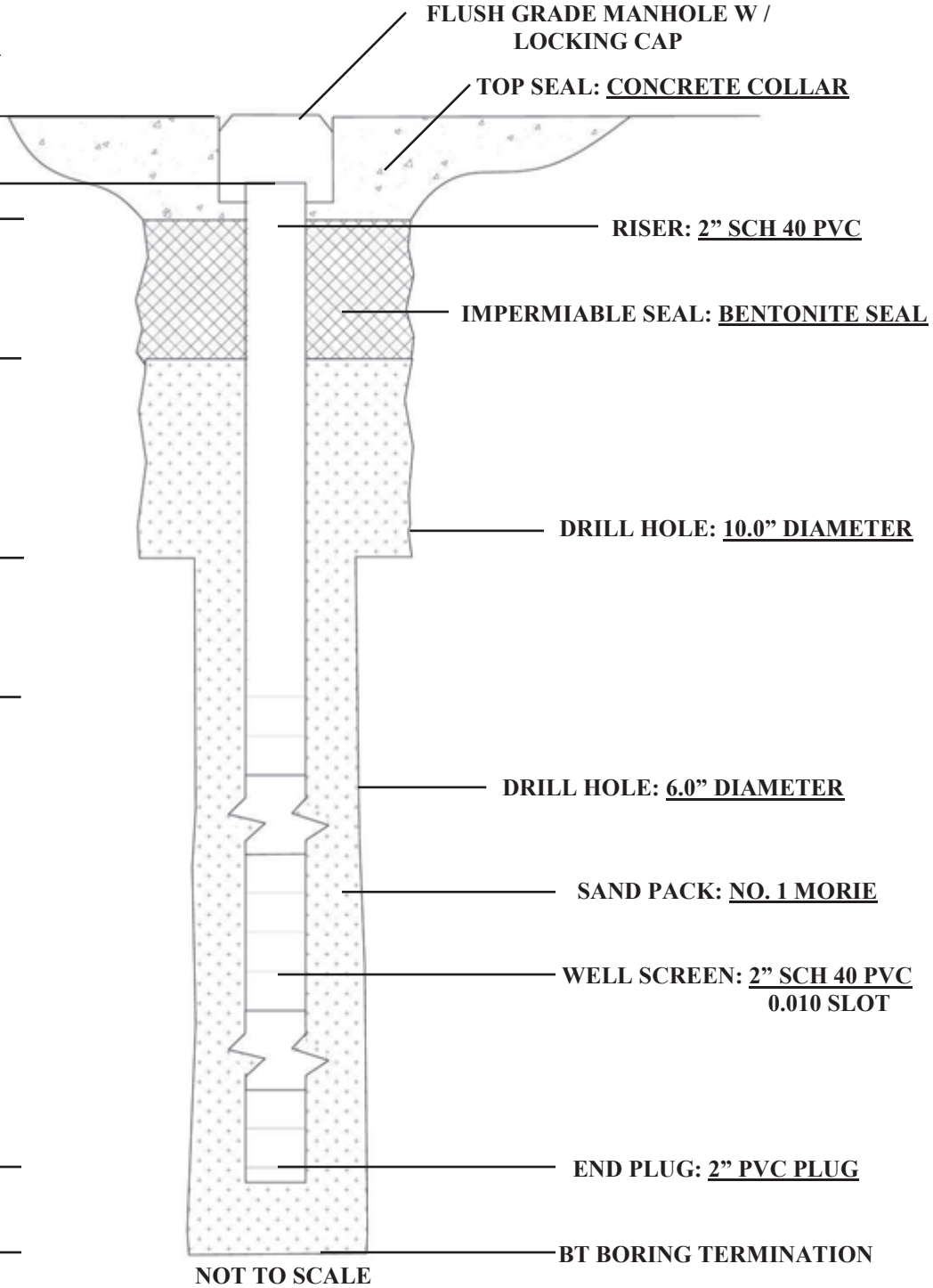
MONITORING WELL CONSTRUCTION DETAIL

DEPTH	ELEV.
0.00’	952.75’
0.34’	952.41’
0.75’	952.00’
2.00’	950.75’
2.50’	950.25’
2.73’	950.02’
14.73’	938.02’
15.00’	937.75’



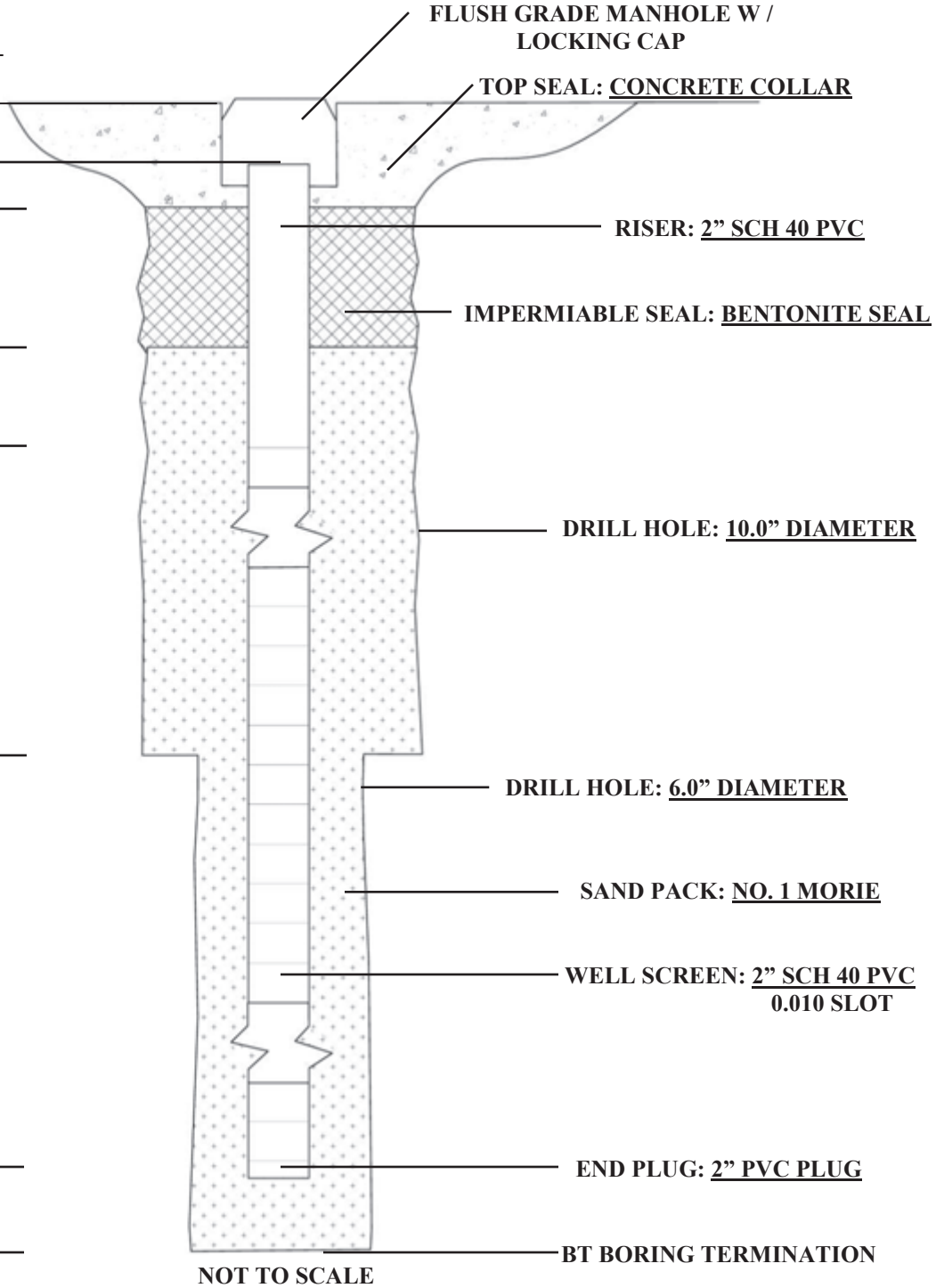
NOT TO SCALE

SITE CHARACTERIZATION ACTIVITIES
QUINN’S CAFÉ STOP PROPERTY
MONITORING WELL 1

LaBella
Powered by partnership.

MONITORING WELL CONSTRUCTION DETAIL

DEPTH	ELEV.
0.00’	952.34’
0.50’	951.84’
0.75’	951.34’
2.00’	950.34’
2.84’	949.50’
5.00’	947.34’
14.84’	937.50’
15.00’	937.34’



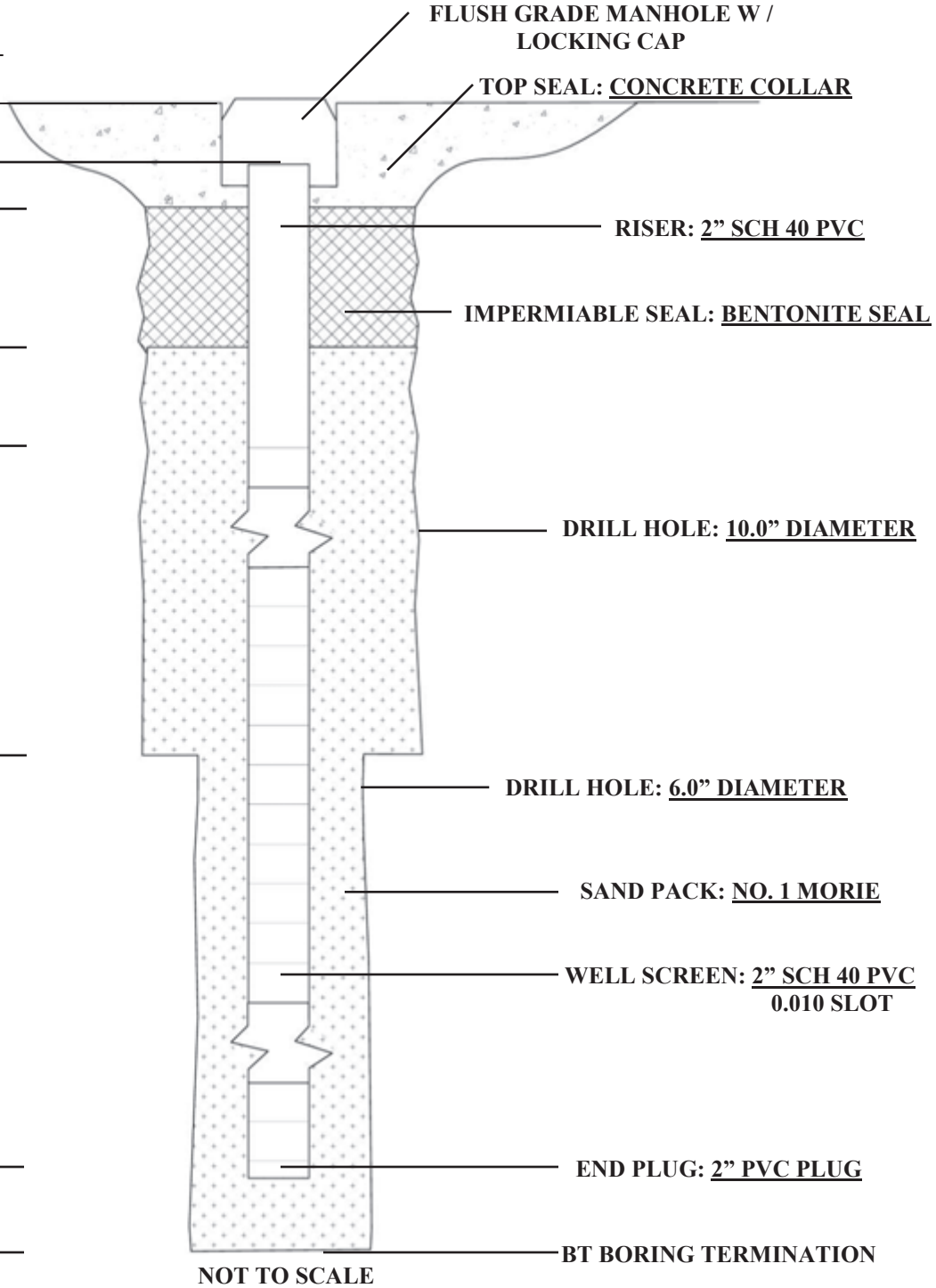
NOT TO SCALE

SITE CHARACTERIZATION ACTIVITIES
QUINN’S CAFÉ STOP PROPERTY
MONITORING WELL 2

LaBella
Powered by partnership.

MONITORING WELL CONSTRUCTION DETAIL

DEPTH	ELEV.
0.00’	951.56’
0.46’	951.11’
0.75’	950.56’
2.00’	949.56’
3.48’	948.08’
9.00’	942.56’
15.48’	936.08’
15.50’	936.06’



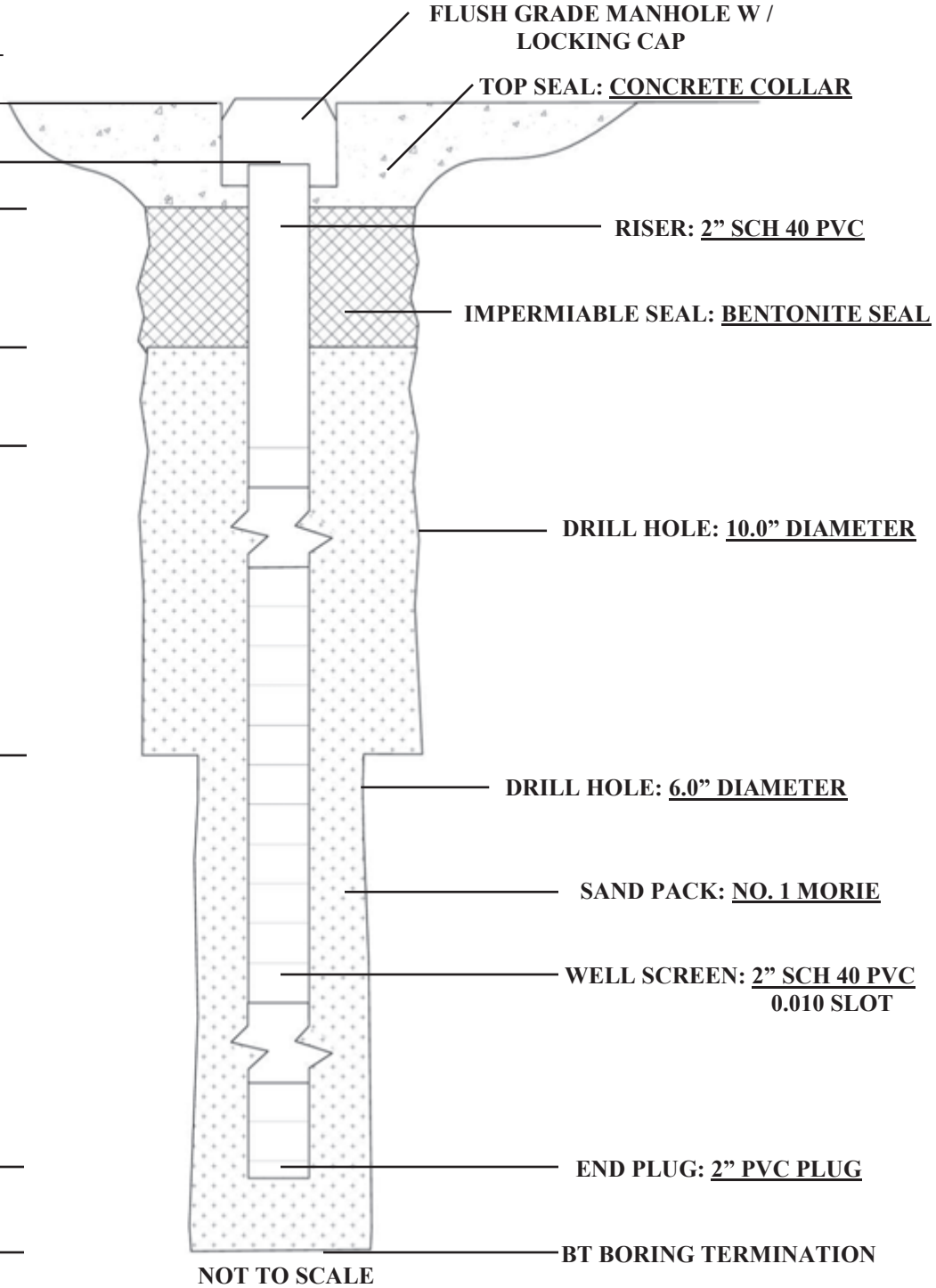
NOT TO SCALE

SITE CHARACTERIZATION ACTIVITIES
QUINN’S CAFÉ STOP PROPERTY
MONITORING WELL 3

LaBella
Powered by partnership.

MONITORING WELL CONSTRUCTION DETAIL

DEPTH	ELEV.
0.00’	951.10’
0.39’	950.71’
0.75’	950.10’
2.00’	949.10’
3.26’	947.84’
7.00’	944.10’
15.26’	935.84’
15.50’	935.60’



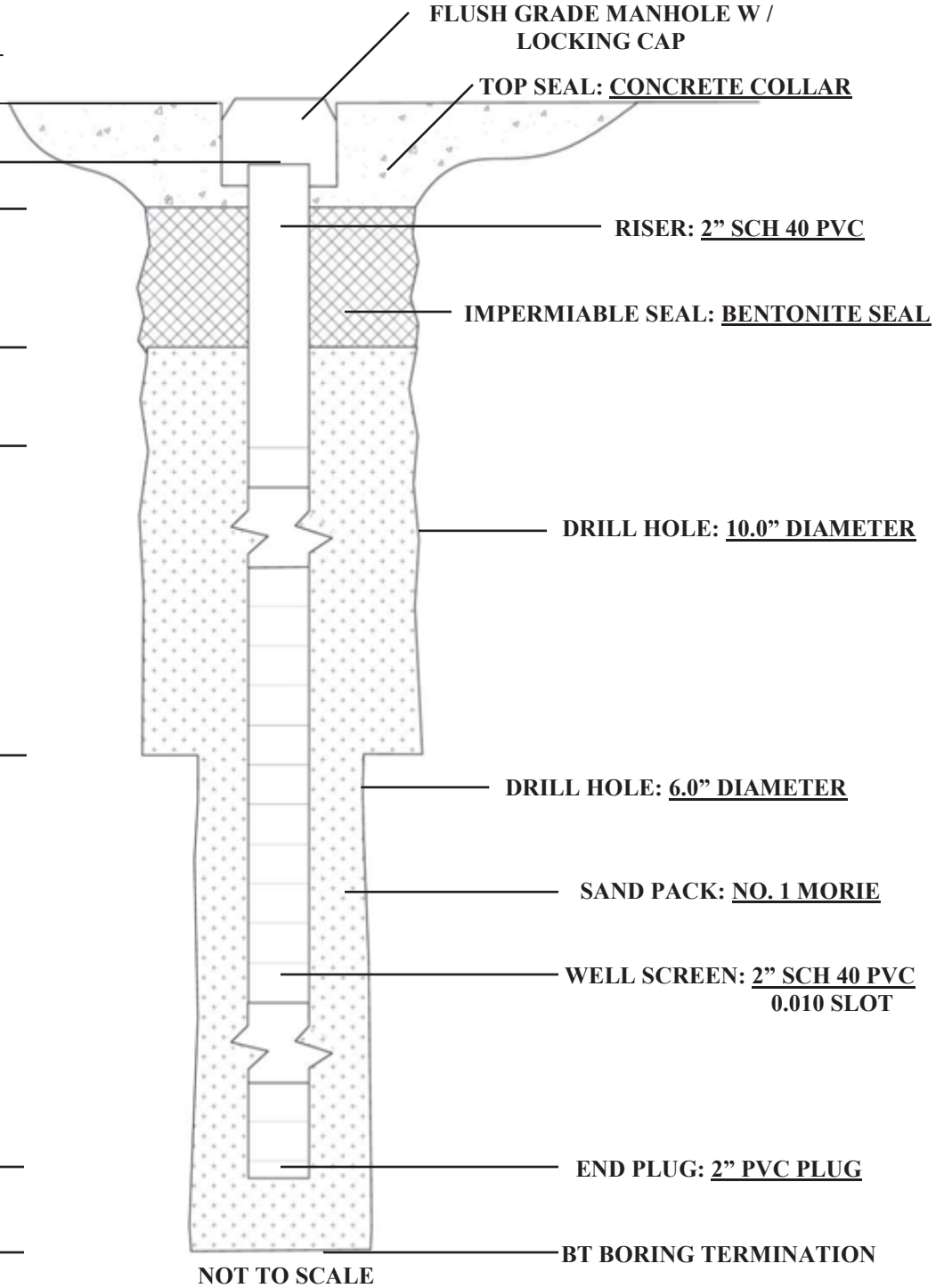
NOT TO SCALE

SITE CHARACTERIZATION ACTIVITIES
QUINN’S CAFÉ STOP PROPERTY
MONITORING WELL 4

LaBella
Powered by partnership.

MONITORING WELL CONSTRUCTION DETAIL

DEPTH	ELEV.
0.00’	951.14’
0.49’	950.65’
0.75’	950.39’
2.00’	949.14’
3.50’	947.64’
5.00’	946.14’
15.50’	935.64’
15.50’	935.64’



NOT TO SCALE

SITE CHARACTERIZATION ACTIVITIES
QUINN’S CAFÉ STOP PROPERTY
MONITORING WELL 5

LaBella
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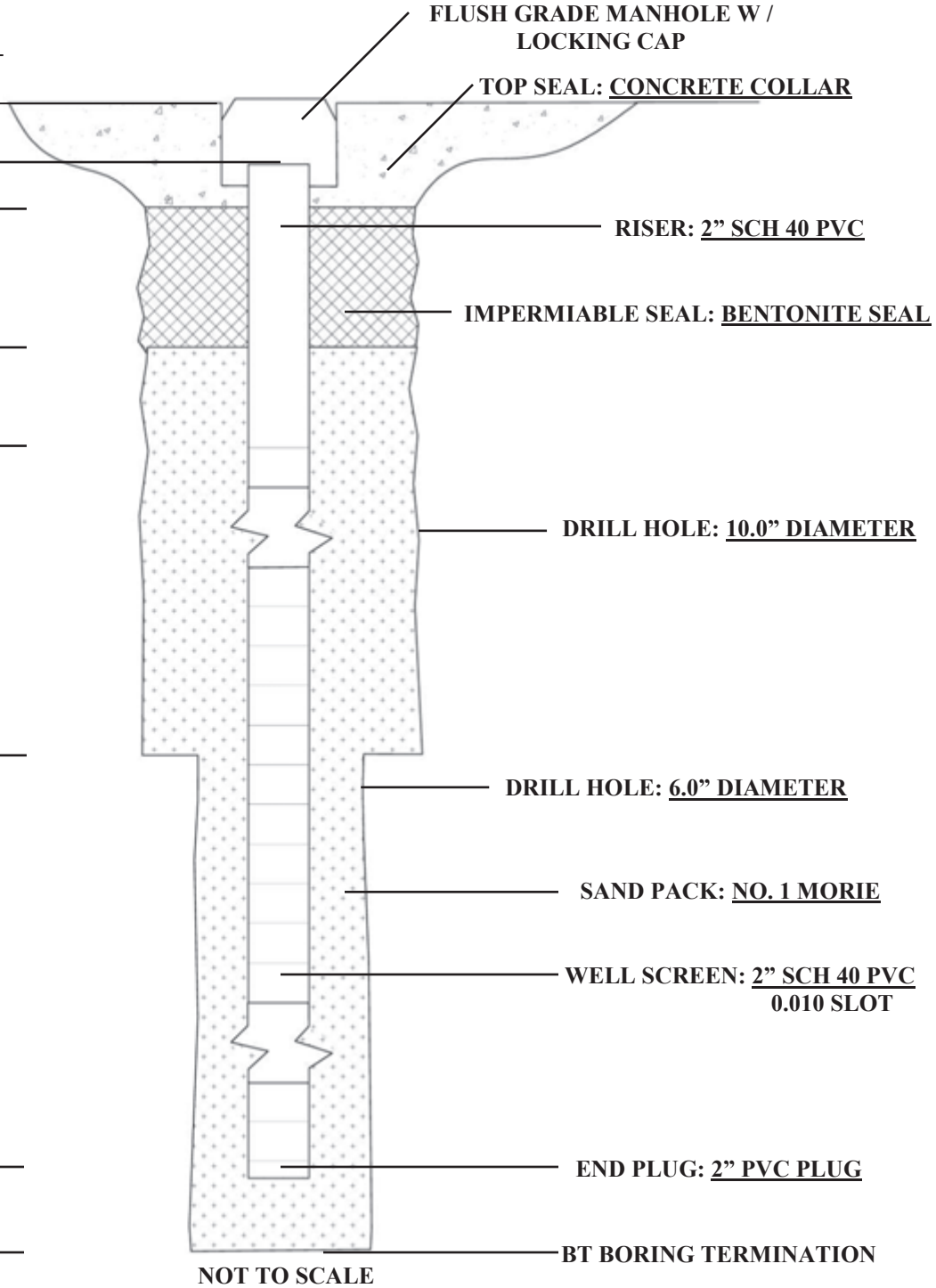
MONITORING WELL CONSTRUCTION DETAIL

DEPTH	ELEV.
0.00’	950.55’
0.17’	950.38’
0.50’	950.05’
2.00’	948.55’
3.25’	947.30’
6.50’	944.05’
15.25’	935.30’
16.00’	934.55’

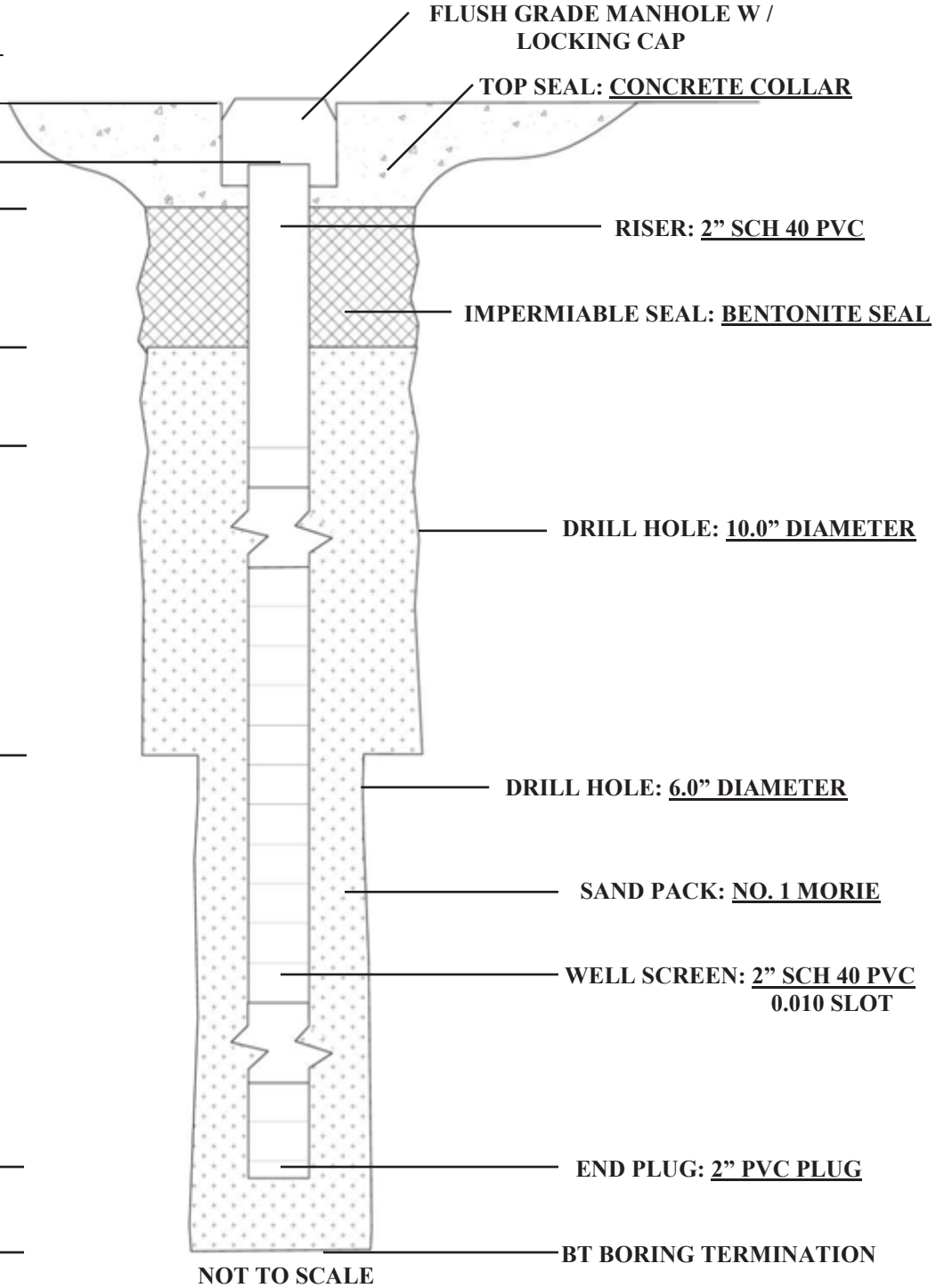


NOT TO SCALE

SITE CHARACTERIZATION ACTIVITIES
QUINN’S CAFÉ STOP PROPERTY
MONITORING WELL 6

MONITORING WELL CONSTRUCTION DETAIL

DEPTH	ELEV.
0.00’	953.09’
0.32’	952.77’
0.75’	952.34’
2.00’	951.09’
3.10’	949.99’
4.00’	949.09’
17.10’	935.99’
17.50’	935.59’

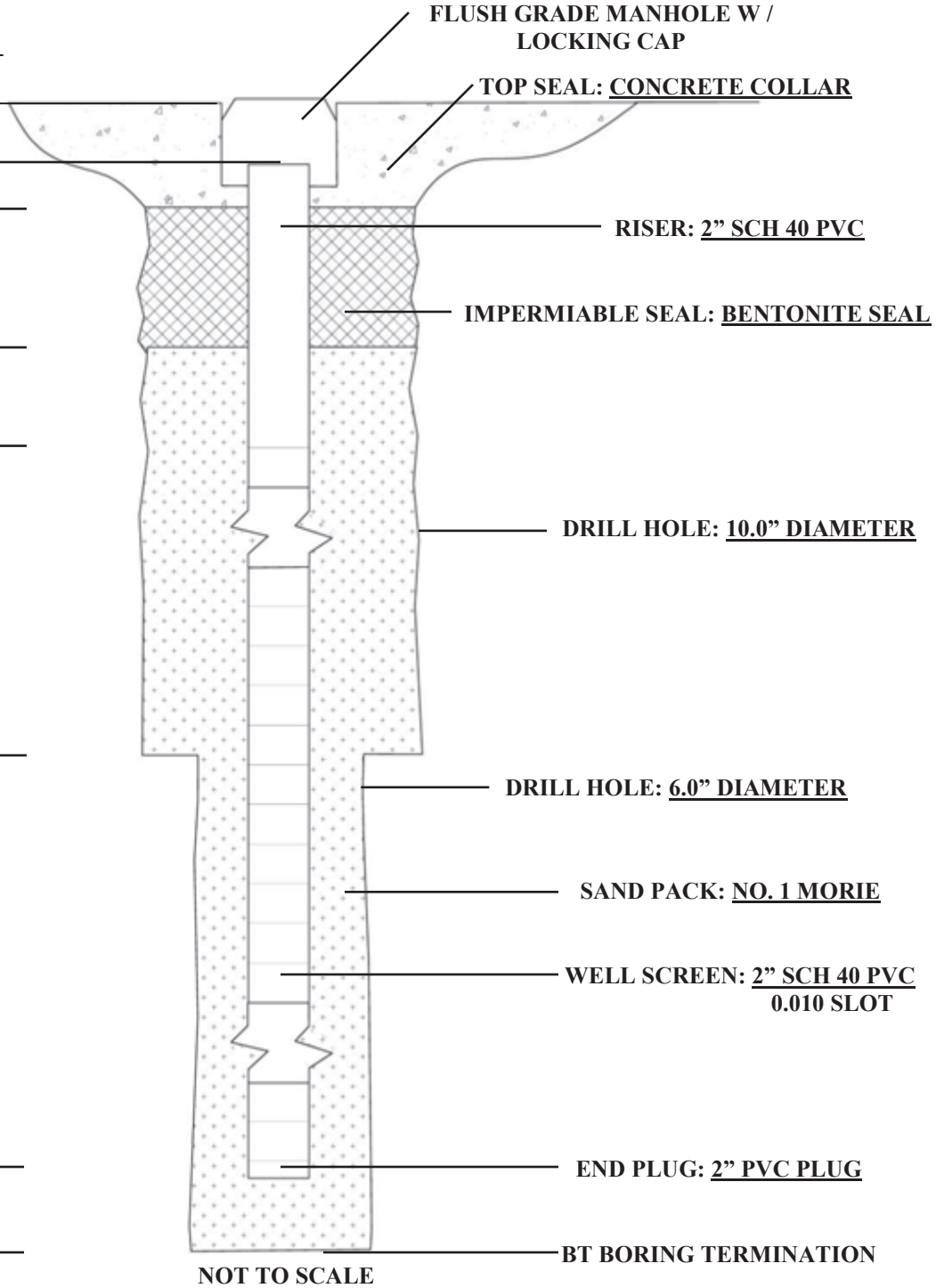


NOT TO SCALE

SITE CHARACTERIZATION ACTIVITIES
QUINN’S CAFÉ STOP PROPERTY
MONITORING WELL 7

MONITORING WELL CONSTRUCTION DETAIL

DEPTH	ELEV.
0.00’	952.37’
0.39’	951.98’
0.75’	951.62’
2.00’	950.37’
3.56’	948.81’
6.00’	946.37’
17.56’	934.81’
18.00’	934.37’



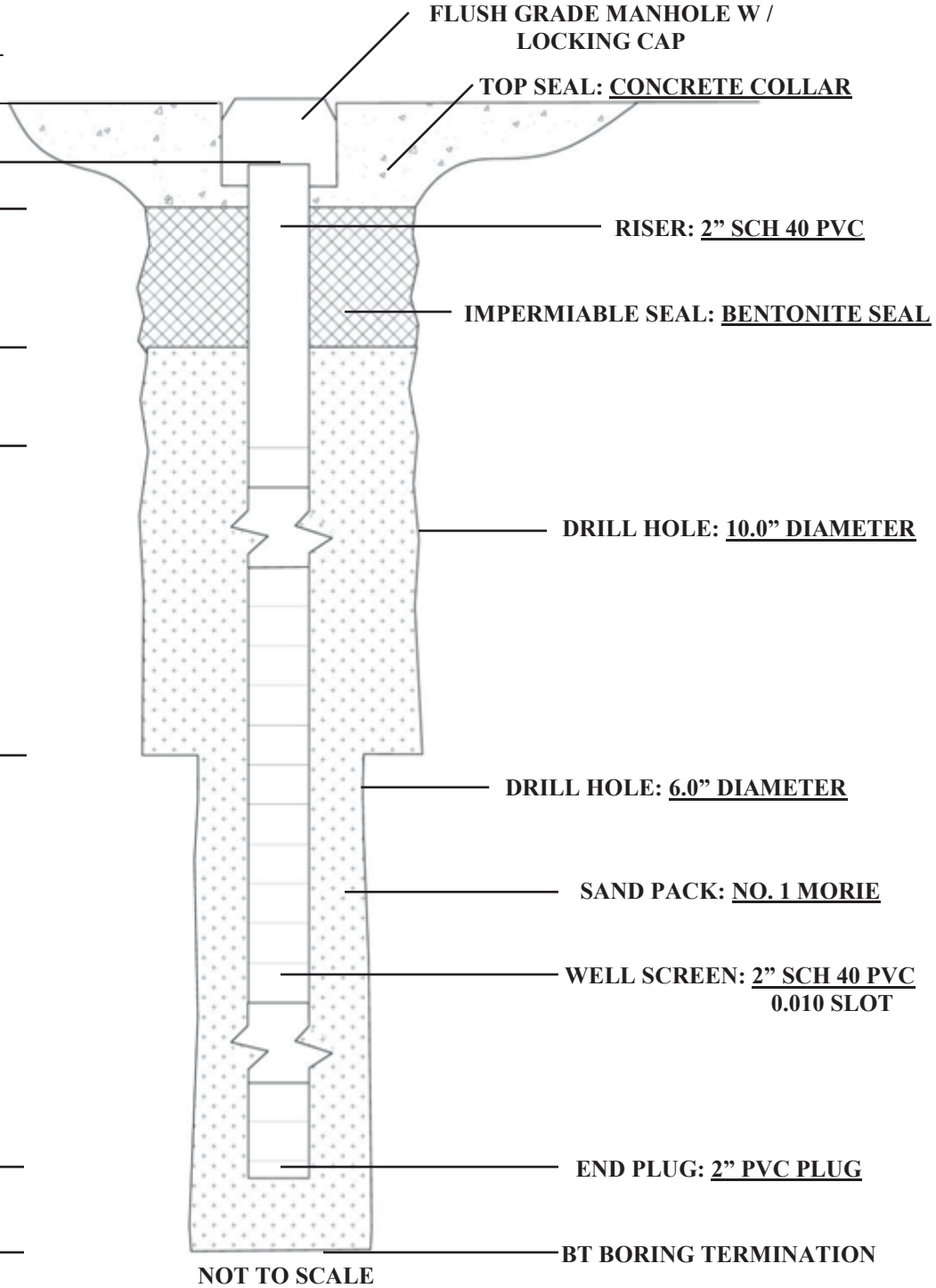
NOT TO SCALE

SITE CHARACTERIZATION ACTIVITIES
QUINN’S CAFÉ STOP PROPERTY
MONITORING WELL 8

LaBella
Powered by partnership.

MONITORING WELL CONSTRUCTION DETAIL

DEPTH	ELEV.
0.00’	952.13’
0.40’	951.73’
0.75’	951.38’
2.00’	950.13’
3.17’	948.96’
4.00’	948.13’
17.17’	934.96’
17.50’	934.63’



NOT TO SCALE

SITE CHARACTERIZATION ACTIVITIES
QUINN’S CAFÉ STOP PROPERTY
MONITORING WELL 9

LaBella
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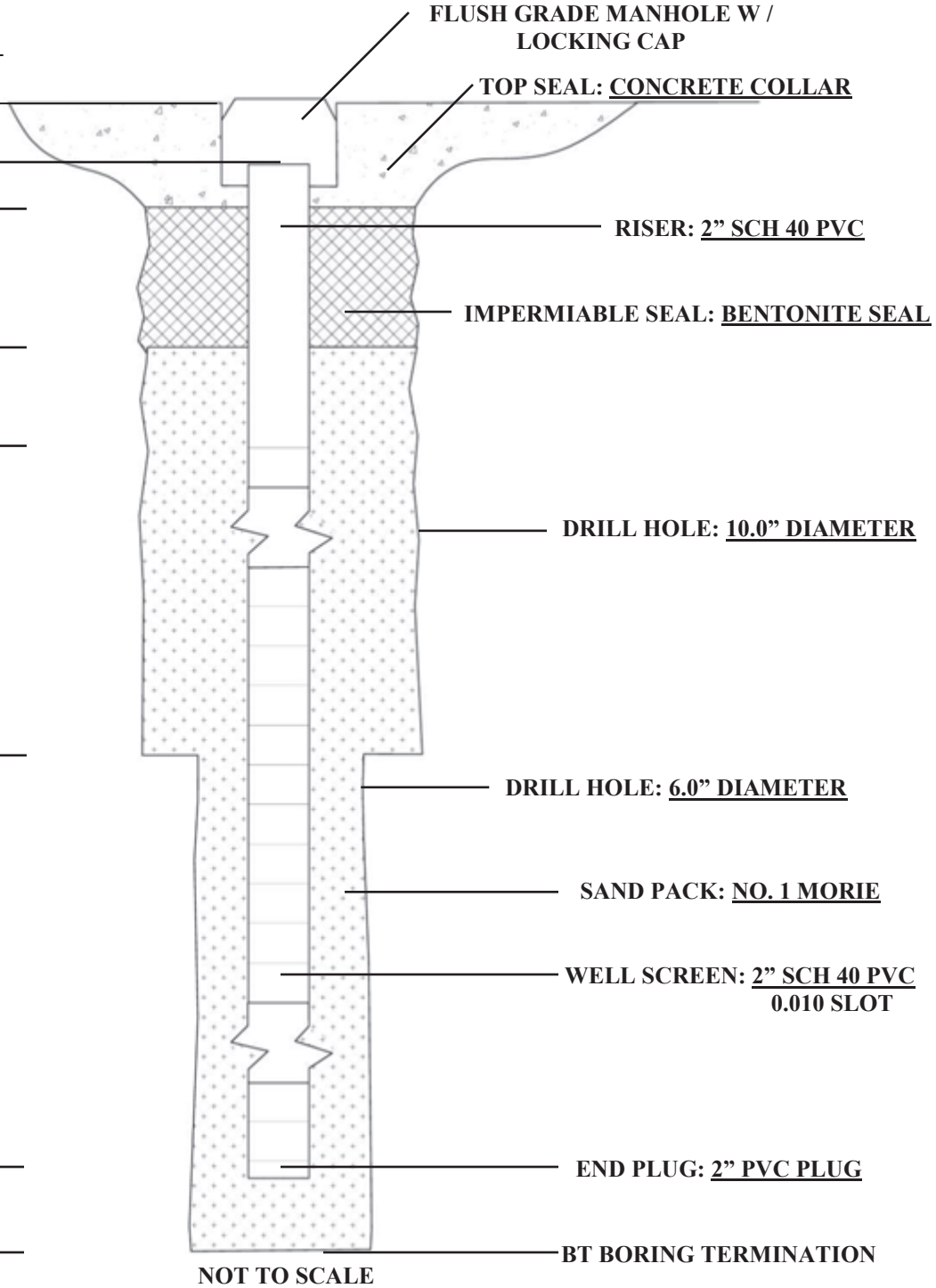
MONITORING WELL CONSTRUCTION DETAIL

DEPTH	ELEV.
0.00’	957.91’
0.59’	957.32’
0.75’	957.16’
2.00’	955.91’
3.89’	954.02’
9.00’	948.91’
23.89’	934.02’
24.00’	933.91’



NOT TO SCALE

SITE CHARACTERIZATION ACTIVITIES
QUINN’S CAFÉ STOP PROPERTY
MONITORING WELL 10

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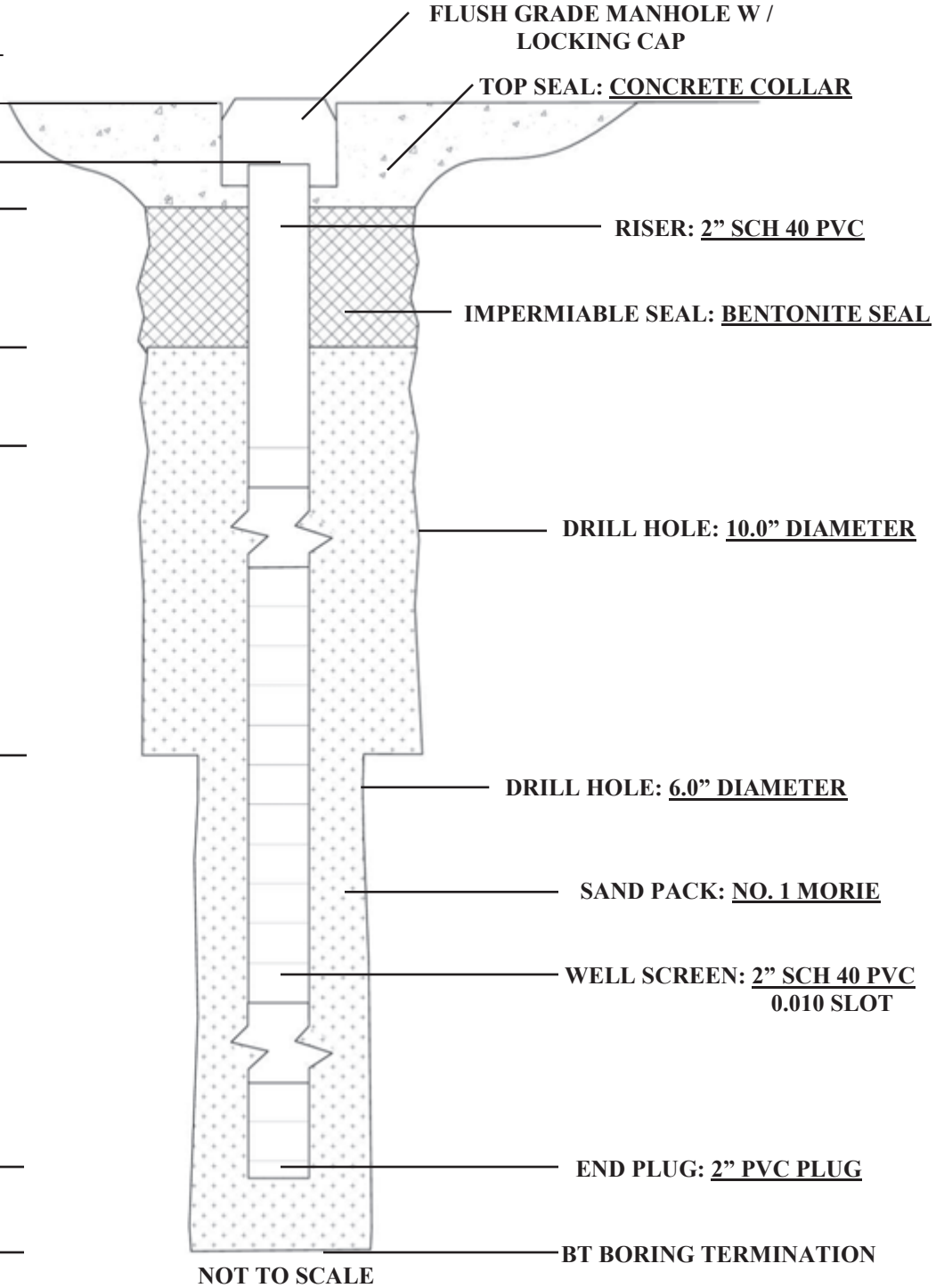
MONITORING WELL CONSTRUCTION DETAIL

DEPTH	ELEV.
0.00’	953.72’
0.36’	953.36’
0.75’	952.97’
2.00’	951.72’
3.03’	950.69’
7.00’	946.72’
17.03’	936.69’
17.03’	936.69’

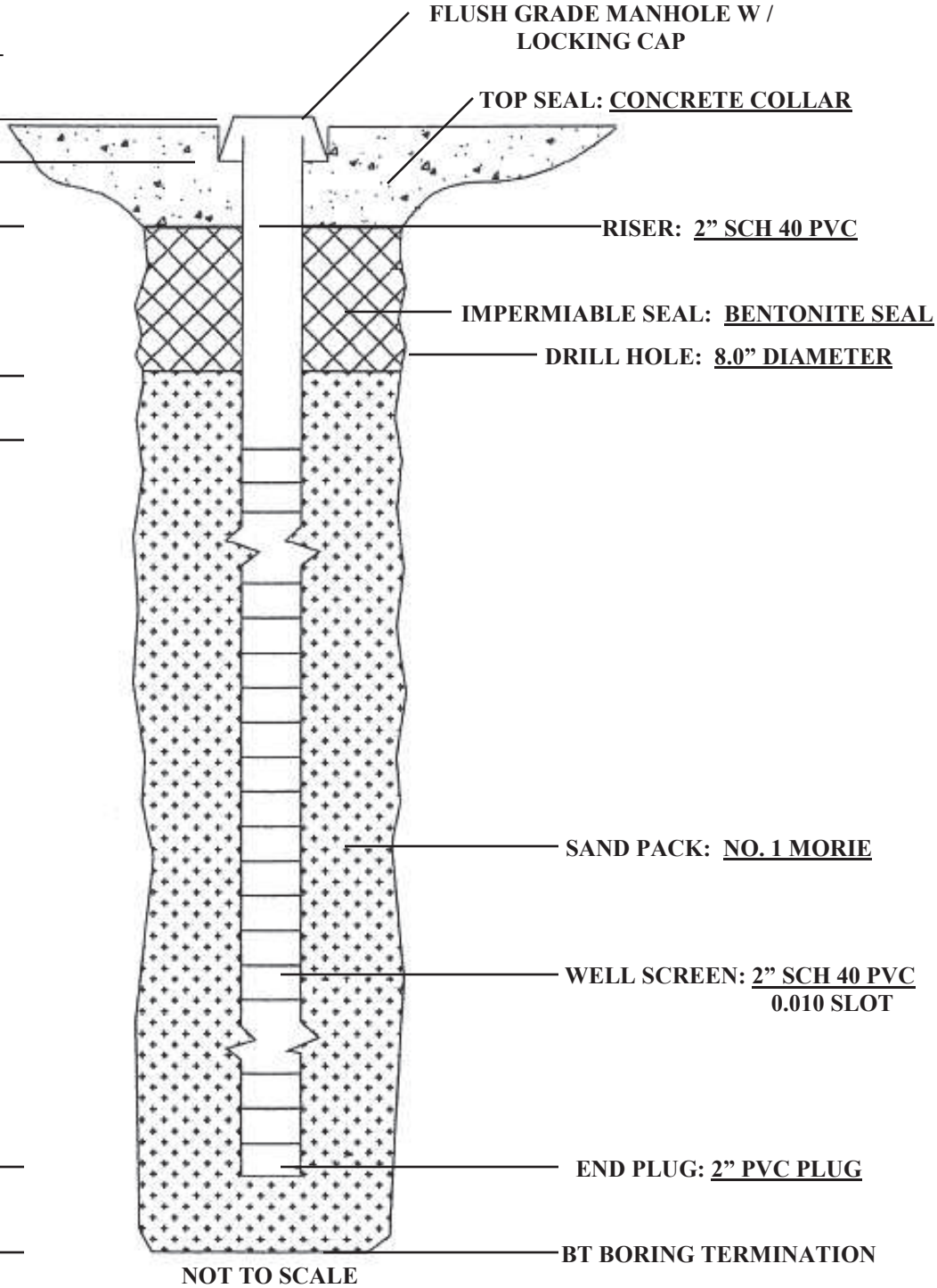


NOT TO SCALE

SITE CHARACTERIZATION ACTIVITIES
QUINN’S CAFÉ STOP PROPERTY
MONITORING WELL 11

MONITORING WELL CONSTRUCTION DETAIL

DEPTH	ELEV.
0.00’	941.94’
0.35’	941.59’
0.75’	941.19’
2.00’	939.94’
2.57’	939.37’
19.57’	922.37’
20.00’	921.94’

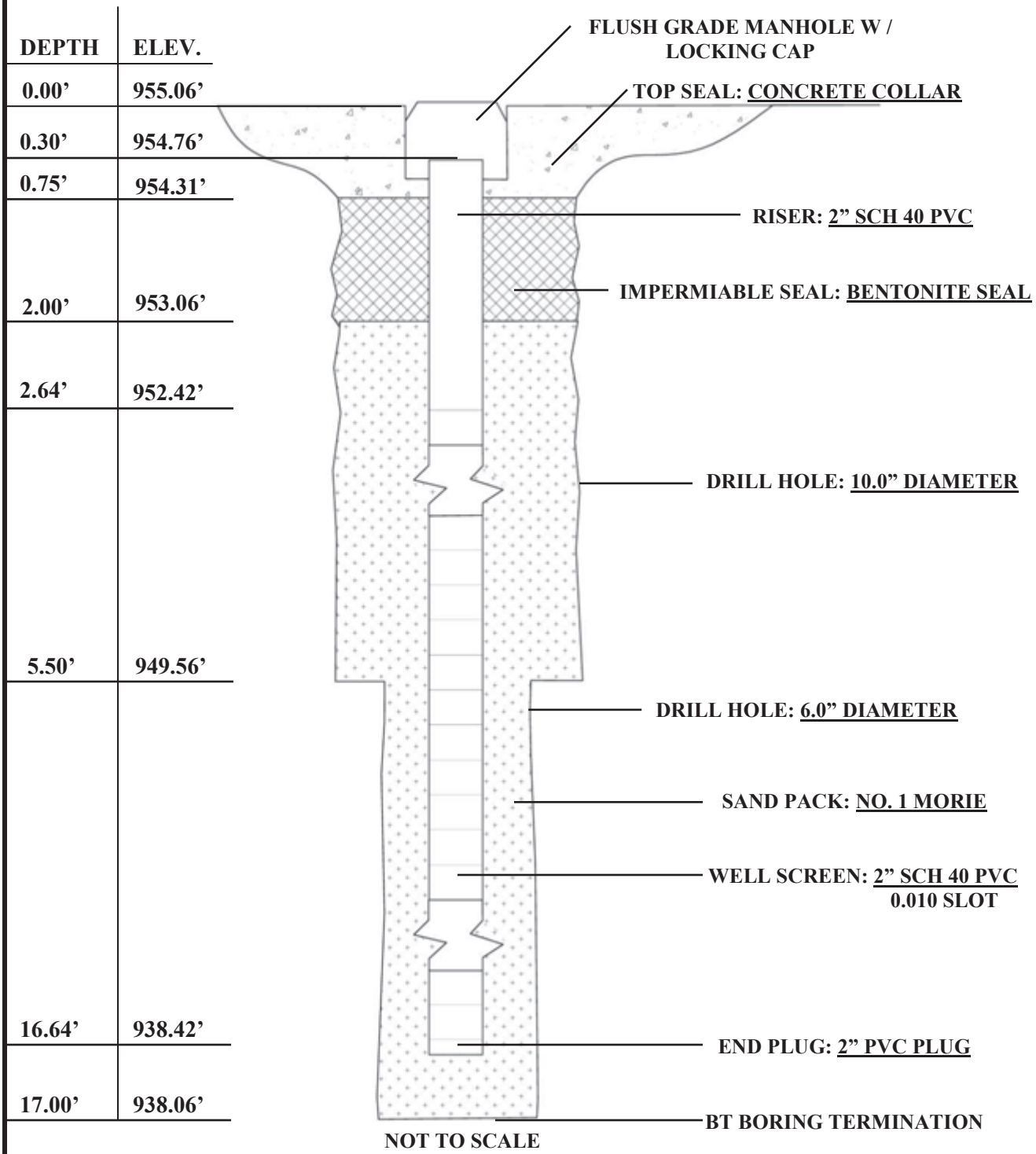


NOT TO SCALE

SITE CHARACTERIZATION ACTIVITIES
QUINN’S CAFÉ STOP PROPERTY
MONITORING WELL 12

LaBella
Powered by partnership.

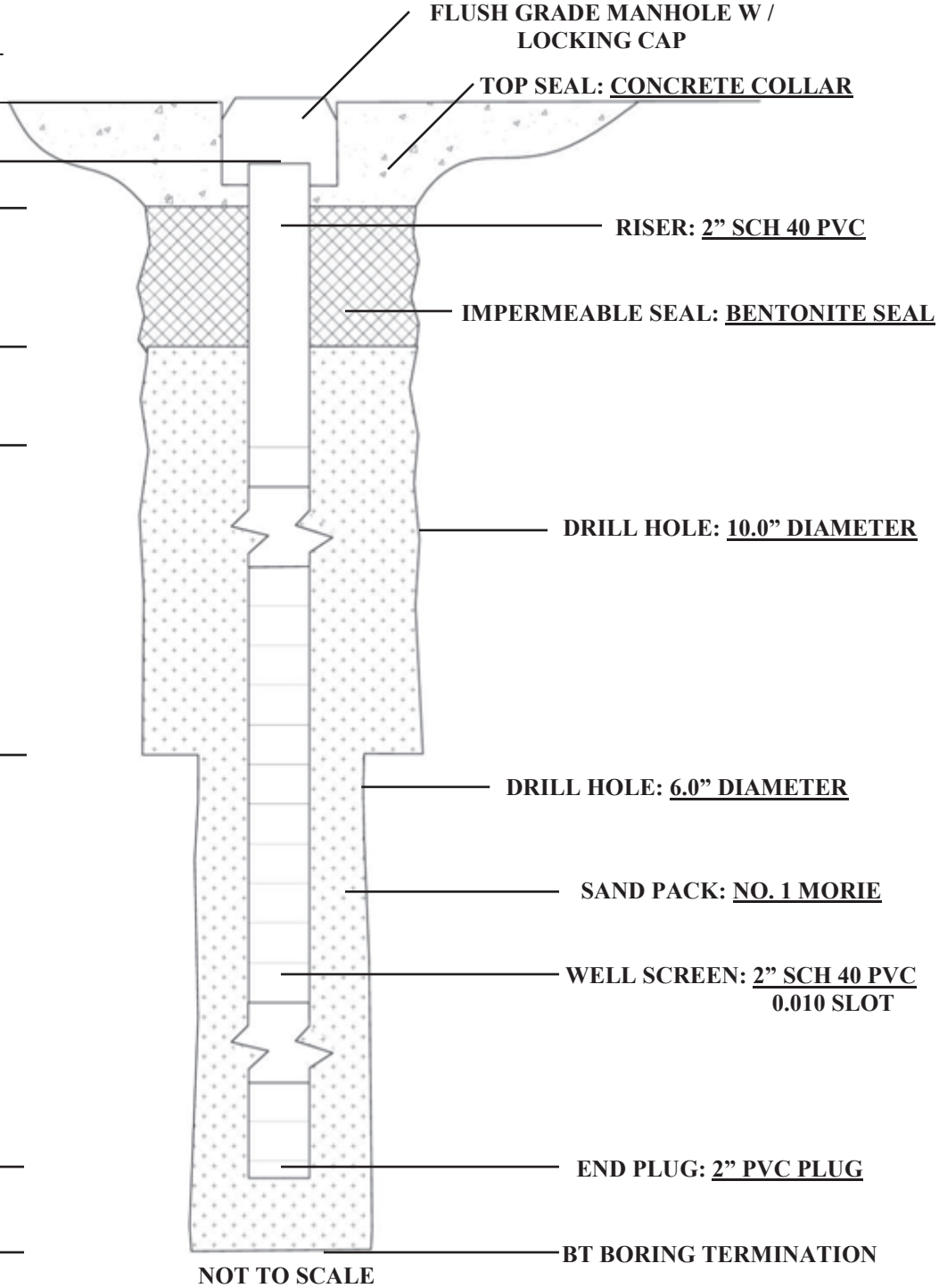
MONITORING WELL CONSTRUCTION DETAIL



SITE CHARACTERIZATION ACTIVITIES
QUINN’S CAFÉ STOP PROPERTY
MONITORING WELL 13

MONITORING WELL CONSTRUCTION DETAIL

DEPTH	ELEV.
0.00’	952.68’
0.60’	952.08
0.75’	951.93
2.00’	950.68
3.00’	949.68
15.00	937.68
15.00’	937.68



NOT TO SCALE

SITE CHARACTERIZATION ACTIVITIES
QUINN’S CAFÉ STOP PROPERTY
MONITORING WELL MW-14

LaBella
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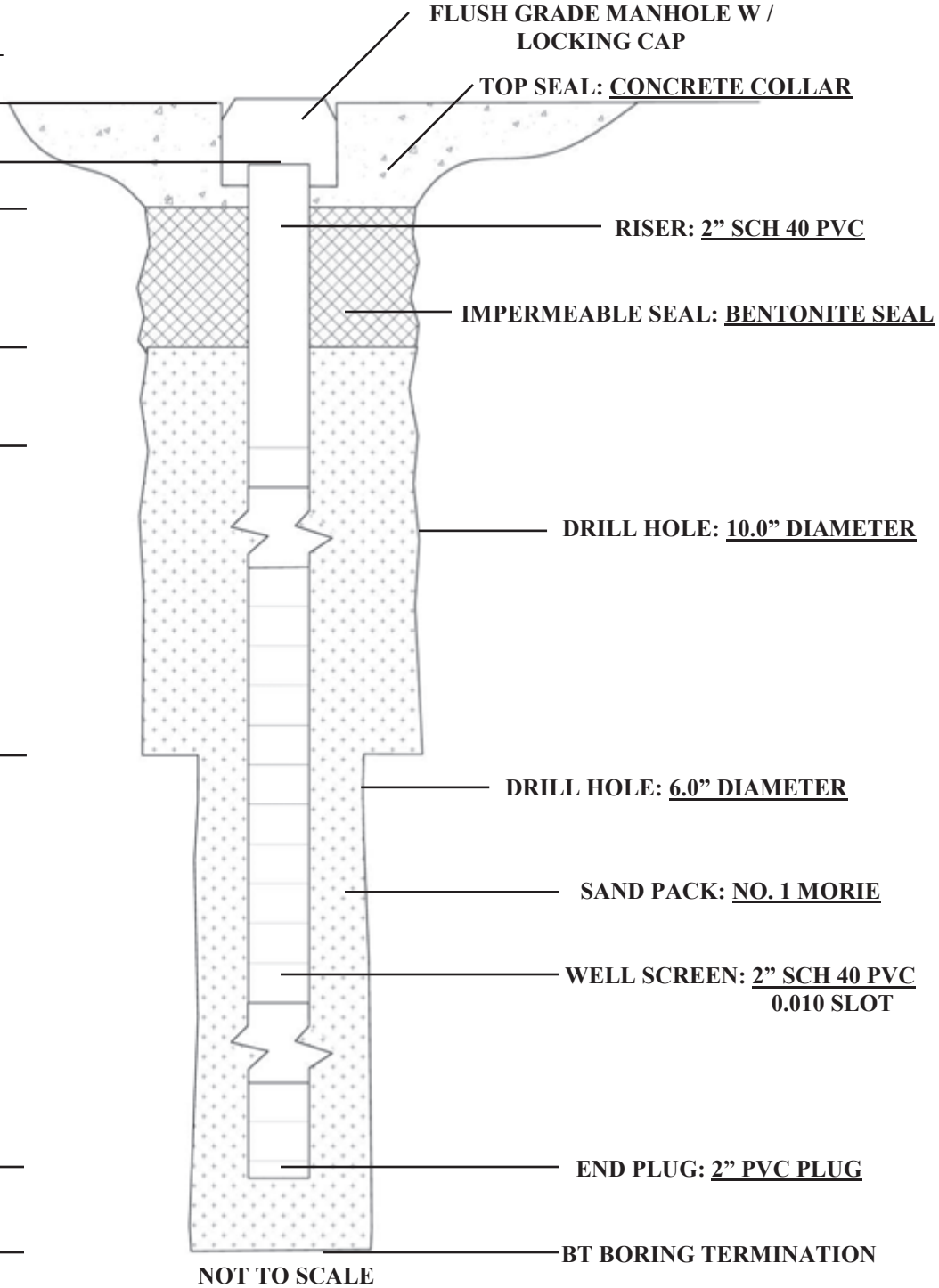
MONITORING WELL CONSTRUCTION DETAIL

DEPTH	ELEV.
0.00’	951.41’
0.29’	951.12
0.75’	950.66
2.00’	949.41
3.00’	948.41
15.00	936.41
15.00’	936.41



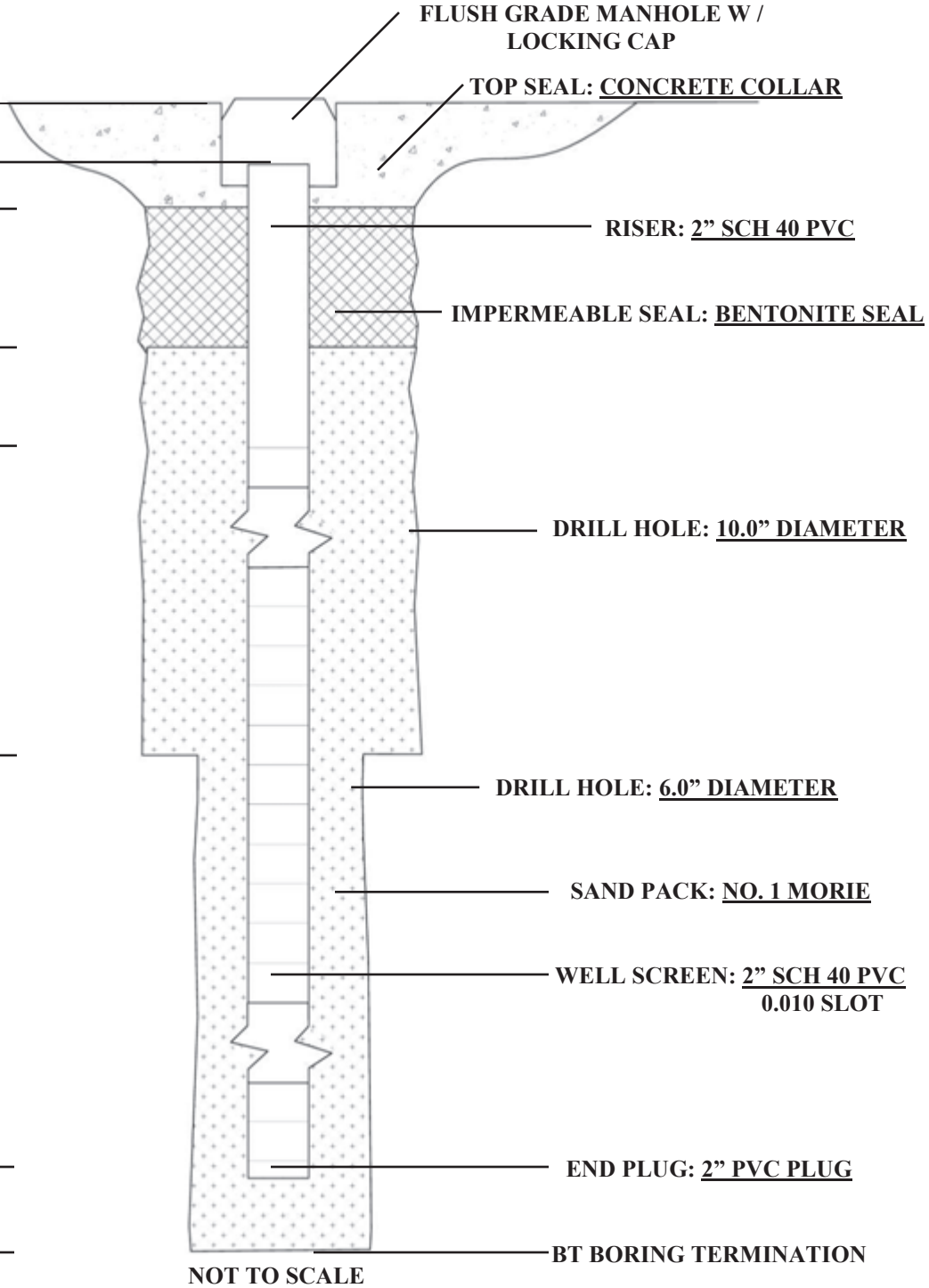
NOT TO SCALE

SITE CHARACTERIZATION ACTIVITIES
QUINN’S CAFÉ STOP PROPERTY
MONITORING WELL MW-15

LaBella
Powered by partnership.

MONITORING WELL CONSTRUCTION DETAIL

DEPTH	ELEV.
0.00’	951.20’
0.59’	950.61
0.75’	950.45
2.00’	949.20
3.00	948.20
15.00	936.20
15.00’	936.20

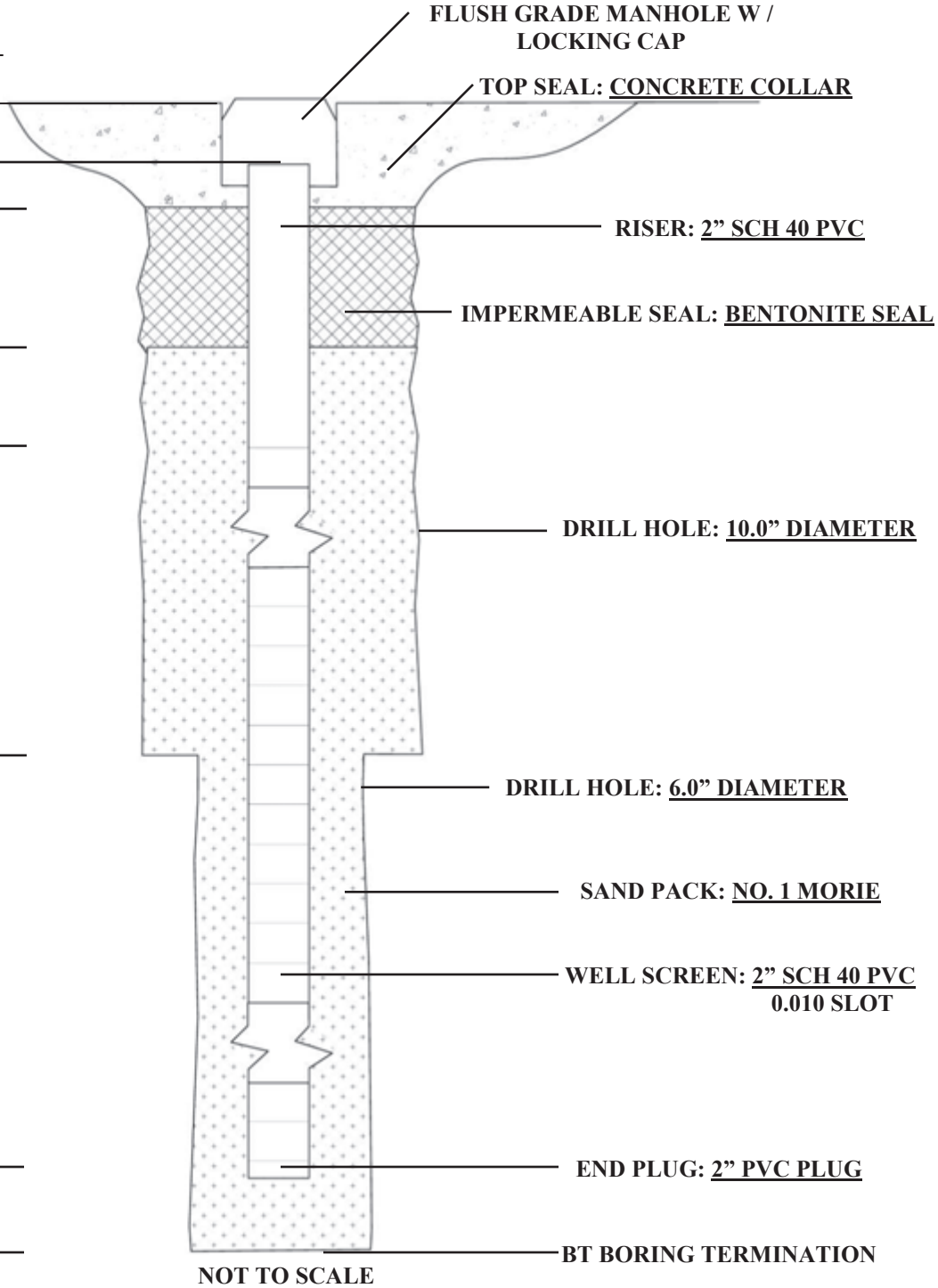


NOT TO SCALE

SITE CHARACTERIZATION ACTIVITIES
QUINN’S CAFÉ STOP PROPERTY
MONITORING WELL MW-16

MONITORING WELL CONSTRUCTION DETAIL

DEPTH	ELEV.
0.00’	951.66’
0.27’	951.39
0.75’	950.91
2.00’	949.66
3.00	948.66
15.00	936.66
15.00’	936.66

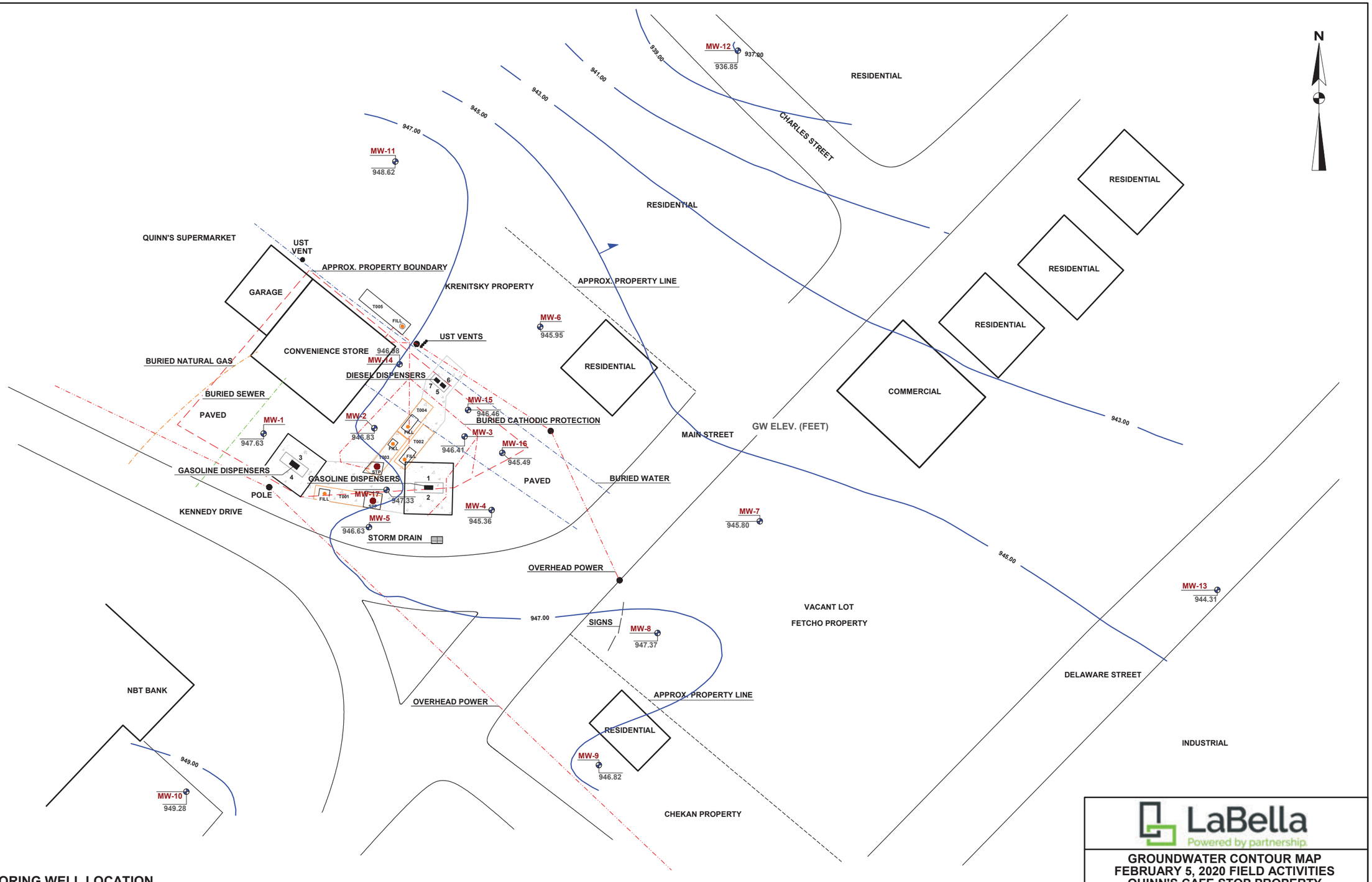


NOT TO SCALE

SITE CHARACTERIZATION ACTIVITIES
QUINN’S CAFÉ STOP PROPERTY
MONITORING WELL MW-17

ATTACHMENT J

Groundwater Contour Map – February 5, 2020



LaBella
Powered by partnership.

GROUNDWATER CONTOUR MAP
FEBRUARY 5, 2020 FIELD ACTIVITIES
QUINN'S CAFE STOP PROPERTY
224 MAIN STREET
BOROUGH OF ARCHBALD,
LACKAWANNA COUNTY, PENNSYLVANIA

DRAWN BY: KC DATE: 03/06/2020
SCALE: 1" = 40'

ATTACHMENT K

Field Notes

ATTACHMENT K-1

Field Notes – December 2019

Field Notes

TO: File
FROM: Chris Herman
DATE: December 5 - 6, 2019
PROJECT: Quinn's Café Stop / Site Characterization
PROJECT NUMBER: 2171853 (26116)
SUBJECT: Groundwater Sampling Activities

0806: Arrived onsite and initiated site activities with the collection of static water levels from the thirteen (13) groundwater monitoring wells located onsite. The purpose of the field activities was to collect groundwater samples from the thirteen (13) monitoring wells for laboratory analysis. The general well information is as follows:

Table 1A
General Well Information
Wells Sampled via Hand-Bailing Techniques

Well #	S.W.L. (Feet)	Total Depth (Feet)	1 Volume (Gallons)	3 Volumes (Gallons)	Purged (Gallons)
MW-1	4.01	14.39	--	--	--
MW-2	5.15	15.02	--	--	--
MW-3	4.82	14.89	--	--	--
MW-4	5.27	14.87	1.6	4.8	3.5
MW-5	4.19	15.01	1.8	5.4	3.5
MW-6	4.19	15.08	--	--	--
MW-7	7.11	16.78	1.6	4.8	3.0
MW-8	4.89	17.17	2.1	6.3	5.0
MW-9	5.10	16.77	--	--	--
MW-10	7.88	23.30	2.6	7.8	6.0
MW-11	5.23	16.67	1.9	5.7	5.0
MW-12	5.00	19.22	--	--	--
MW-13	11.22	16.34	0.9	2.7	2.0
MW-14	5.16	15.00	1.6	4.8	4.5
MW-15	4.74	15.03	--	--	--
MW-16	5.14	15.02	1.7	5.1	5.0
MW-17	4.18	15.00	--	--	--
AS-1	5.04	10.51	--	--	--
MP-1	4.54	5.47	--	--	--
MP-2	4.39	10.00	--	--	--
MP-3	4.61	9.94	--	--	--
SVE-1	5.07	5.48	--	--	--
SVE-2	4.38	5.16	--	--	--

Table 1B
General Well Information
Well Sampled via Low-Flow Techniques

Well #	S.W.L. (Feet)	T.D. (Feet)	Pump Depth (Feet)	Rate (L/min.)	Purged (Gallons)
MW-1	4.01	14.39	9.2	0.24	2.0
MW-2	5.15	15.02	10.1	0.50	3.5
MW-3	4.82	14.89	9.9	0.32	2.0
MW-4	5.27	14.87	--	--	--
MW-5	4.19	15.01	--	--	--
MW-6	4.19	15.08	9.6	0.36	2.0
MW-7	7.11	16.78	--	--	--
MW-8	4.89	17.17	--	--	--
MW-9	5.10	16.77	10.9	0.47	3.0
MW-10	7.88	23.30	--	--	--
MW-11	5.23	16.67	--	--	--
MW-12	5.00	19.22	12.1	0.50	4.0
MW-13	11.22	16.34	--	--	--
MW-14	5.16	15.00	--	--	--
MW-15	4.74	15.03	9.9	0.30	2.0
MW-16	5.14	15.02	--	--	--
MW-17	4.18	15.00	9.6	0.40	2.5
AS-1	5.04	10.51	--	--	--
MP-1	4.54	5.47	--	--	--
MP-2	4.39	10.00	--	--	--
MP-3	4.61	9.94	--	--	--
SVE-1	5.07	5.48	--	--	--
SVE-2	4.38	5.16	--	--	--

MW-1: MW-1 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 240 ml / min. The well maintained steady recharge throughout the purging activities. A total of 2.0 gallons was extracted from the well. No odorous or visual indications of contamination were observed during purging activities.

Table 2
Well Purging Data – MW-1

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water (Feet)
0748	13.24	6.94	215	1.29	0.3	2.51	4.31
0751	12.86	6.85	211	1.29	0.1	1.94	4.31
0754	12.57	6.84	205	1.29	0.0	1.81	4.31
0757	12.52	6.83	198	1.29	0.1	1.72	4.31
0800	12.46	6.86	190	1.29	0.2	1.63	4.31
0803	12.31	6.86	181	1.30	0.0	1.54	4.31

MW-2: MW-2 was purged and sampled utilizing low flow / low stress sampling methods *ASTM D 6771-02*). The pump was set at 10.1'. The well was purged and sampled at 500 ml / min. The well maintained steady recharge throughout the purging activities. A total of 3.5 gallons was extracted from the well. Odorous indications of contamination were observed during purging activities.

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)
0901	12.43	6.76	-85	1.20	17.9	0.97	5.26
0904	12.40	6.74	-86	1.26	12.2	0.68	5.26
0907	12.28	6.75	-90	1.28	8.9	0.58	5.26
0910	12.43	6.81	-93	1.29	6.3	0.53	5.26
0913	12.35	6.78	-97	1.30	4.8	0.52	5.26
0916	12.28	6.79	-99	1.31	2.9	0.66	5.26

MW-3: MW-3 was purged and sampled utilizing low flow / low stress sampling methods *ASTM D 6771-02*). The pump was set at 9.9'. The well was purged and sampled at 320 ml / min. The well maintained steady recharge throughout the purging activities. A total of 2.0 gallons was extracted from the well. Odorous indications of contamination were observed during purging activities.

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)
1031	11.69	6.85	-102	1.30	8.4	1.34	5.65
1034	11.89	6.84	-106	1.29	9.2	0.70	5.65
1037	12.31	6.83	-110	1.29	8.2	0.51	5.65
1040	11.87	6.82	-111	1.31	5.8	0.51	5.65
1043	12.43	6.81	-112	1.33	3.6	0.45	5.65
1046	12.68	6.82	-113	1.34	3.8	0.42	5.65

MW-4: MW-4 was characterized as having insufficient recharge for low flow / low stress sampling methods. Therefore, the well was purged and sampled utilizing a hand bailer. The well was evacuated at 3.5 gallons, and was sampled upon recharge. Odorous indications of contamination were observed.

Table 5
Well Purging Data – MW-4

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	D.O. (mg/L)	Gallons	Comment
1308	13.13	6.88	-82	3.07	1.79	0.25	Clear
1311	12.47	7.01	-89	2.67	2.55	1.0	Silty
1314	13.20	6.93	-84	2.90	2.88	3.5	Silty

MW-5: MW-5 was characterized as having insufficient recharge for low flow / low stress sampling methods. Therefore, the well was purged and sampled utilizing a hand bailer. The well evacuated at 3.5 gallons, and was sampled upon recharge. Odorous and visual indications of contamination were observed.

Table 6
Well Purging Data – MW-5

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	D.O. (mg/L)	Gallons	Comment
1317	13.54	7.20	-103	1.85	1.99	0.25	Clear
1320	12.80	7.21	-102	1.79	3.98	1.0	Silty
1323	13.29	7.25	-104	1.84	282	3.5	Silty

MW-6: MW-6 was purged and sampled utilizing low flow / low stress sampling methods *ASTM D 6771-02*). The pump was set at 9.6'. The well was purged and sampled at 360 ml / min. The well maintained steady recharge throughout the purging activities. A total of 2.0 gallons was extracted from the well. Slight odorous indications of contamination were observed during purging activities.

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)
1111	10.68	6.68	-72	0.550	39.4	2.22	4.58
1114	10.91	6.63	-51	0.546	25.4	1.46	4.64
1117	10.50	6.62	-46	0.552	18.5	1.30	4.64
1120	10.44	6.61	-45	0.562	15.0	1.10	4.64
1123	10.49	6.61	-46	0.567	13.8	1.03	4.64
1126	10.18	6.60	-46	0.575	11.0	0.94	4.64

MW-7: MW-7 was characterized as having insufficient recharge for low flow / low stress sampling methods. Therefore, the well was purged and sampled utilizing a hand bailer. The well evacuated at 3.0 gallons, and was sampled upon recharge. No odorous or visual indications of contamination were observed.

Table 8
Well Purging Data – MW-7

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	D.O. (mg/L)	Gallons	Comment
1147	12.56	7.29	94	0.621	3.33	0.25	Clear
1150	17.53	7.31	84	0.437	3.80	1.0	Silty
1153	13.00	7.40	81	0.491	3.51	3.0	Silty

MW-8: MW-8 was characterized as having insufficient recharge for low flow / low stress sampling methods. Therefore, the well was purged and sampled utilizing a hand bailer. The well evacuated at 5.0 gallons, and was sampled upon recharge. No odorous or visual indications of contamination were observed.

Table 9
Well Purging Data – MW-8

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	D.O. (mg/L)	Gallons	Comment
1157	12.02	7.55	87	0.581	4.83	0.25	Clear
1200	11.43	7.49	94	0.515	4.88	2.0	Silty
1203	11.42	7.66	94	0.600	5.82	4.0	Silty
1206	11.56	7.73	95	0.647	5.46	5.0	Silty

MW-9: MW-9 was purged and sampled utilizing low flow / low stress sampling methods *ASTM D 6771-02*). The pump was set at 10.9'. The well was purged and sampled at 470 ml / min. The well maintained steady recharge throughout the purging activities. A total of 3.0 gallons was extracted from the well. No odorous or visual indications of contamination were observed during purging activities.

Table 10
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)
1444	10.21	6.13	-2	0.734	13.0	2.71	5.44
1447	9.77	5.91	28	0.785	7.1	2.04	5.44
1450	9.33	5.77	47	0.774	3.9	1.65	5.44
1453	8.88	5.75	57	0.776	3.0	1.53	5.44
1456	9.09	5.73	63	0.772	2.7	1.48	5.44
1459	8.77	5.70	71	0.768	2.7	1.49	5.44
1502	8.22	5.71	76	0.757	2.6	1.51	5.44

MW-10: MW-10 was characterized as having insufficient recharge for low flow / low stress sampling methods. Therefore, the well was purged and sampled utilizing a hand bailer. The well evacuated at 6.0 gallons, and was sampled upon recharge. No odorous or visual indications of contamination were observed.

Table 11
Well Purging Data – MW-10

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	D.O. (mg/L)	Gallons	Comment
1017	12.99	6.45	61	7.74	2.67	0.25	Clear
1019	13.29	6.45	65	7.67	3.28	2.0	Silty
1021	13.66	6.47	71	7.78	3.21	4.0	Silty
1023	14.13	6.55	74	7.79	3.20	6.0	Silty

MW-11: MW-11 was characterized as having insufficient recharge for low flow / low stress sampling methods. Therefore, the well was purged and sampled utilizing a hand bailer. The well was evacuated at 5.0 gallons, and was sampled upon recharge. No odorous or visual indications of contamination were observed.

Table 12
Well Purging Data – MW-11

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	D.O. (mg/L)	Gallons	Comment
0826	14.32	6.92	174	1.07	4.56	0.25	Clear
0829	12.91	6.17	200	0.652	5.74	2.0	Silty
0832	12.74	6.70	188	0.939	5.53	4.0	Silty
0835	12.68	6.83	188	1.09	4.96	5.0	Silty

MW-12: MW-12 was purged and sampled utilizing low flow / low stress sampling methods *ASTM D 6771-02*). The pump was set at 12.1'. The well was purged and sampled at 500 ml / min. The well maintained steady recharge throughout the purging activities. A total of 4.0 gallons was extracted from the well. No odorous or visual indications of contamination were observed during purging activities.

Table 13
Well Purging Data – MW-12

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity	D.O. (mg/L)	Level
1408	11.12	6.80	-80	2.81	86.1	1.54	5.62
1411	11.20	6.77	-77	1.63	22.2	0.78	5.62
1414	11.00	6.76	-77	1.41	17.0	0.63	5.62
1417	11.35	6.74	-77	1.37	11.4	0.51	5.62
1420	11.33	6.73	-78	1.36	8.9	0.44	5.62
1423	11.29	6.73	-79	1.36	7.8	0.43	5.62

MW-13: MW-13 was characterized as having insufficient recharge for low flow / low stress sampling methods. Therefore, the well was purged and sampled utilizing a hand bailer. The well was evacuated at 2.0 gallons, and was sampled upon recharge. No odorous or visual indications of contamination were observed.

Table 14
Well Purging Data – MW-13

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	D.O. (mg/L)	Gallons	Comment
1106	13.76	7.12	93	3.45	3.67	0.25	Silty
1109	14.87	7.16	93	3.03	3.66	1.0	Silty
1111	15.01	7.15	96	3.11	4.14	2.0	Silty

MW-14: MW-14 was characterized as having insufficient recharge for low flow / low stress sampling methods. Therefore, the well was purged and sampled utilizing a hand bailer. The well was evacuated at 4.5 gallons, and was sampled upon recharge. Slight odorous indications of contamination were observed.

Table 15
Well Purging Data – MW-14

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	D.O. (mg/L)	Gallons	Comment
0924	12.72	4.12	186	3.48	1.86	0.25	Clear
0927	12.66	5.35	126	0.686	2.48	1.0	Silty
0929	13.08	6.09	58	0.468	3.76	3.0	Silty
0931	13.29	4.57	146	1.91	3.64	4.5	Silty

MW-15: MW-15 was purged and sampled utilizing low flow / low stress sampling methods *ASTM D 6771-02*). The pump was set at 9.9'. The well was purged and sampled at 300 ml / min. The well maintained steady recharge throughout the purging activities. A total of 2.0 gallons was extracted from the well. Odorous indications of contamination were observed during purging activities.

Table 16
Well Purging Data – MW-15

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity	D.O. (mg/L)	Level
0945	12.93	6.76	-98	1.57	9.7	1.25	5.18
0948	13.07	6.78	-103	1.54	8.6	1.55	5.29
0951	12.56	6.82	-106	1.51	6.3	1.24	5.29
0954	12.48	6.83	-108	1.50	4.2	1.24	5.29
0957	12.57	6.83	-109	1.49	3.8	1.16	5.29
1000	12.46	6.84	-110	1.48	3.5	1.13	5.29

MW-16: MW-16 was characterized as having insufficient recharge for low flow / low stress sampling methods. Therefore, the well was purged and sampled utilizing a hand bailer. The well was evacuated at 5.0 gallons, and was sampled upon recharge. Slight odorous indications of contamination were observed.

Table 17
Well Purging Data – MW-16

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	D.O. (mg/L)	Gallons	Comment
1257	12.19	6.95	-78	1.68	2.59	0.25	Clear
1300	12.74	7.02	-88	1.64	1.92	1.0	Silty
1303	12.86	7.04	-92	1.62	2.72	3.0	Silty
1306	13.10	7.11	-96	1.62	1.47	5.0	Silty

MW-17: MW-17 was purged and sampled utilizing low flow / low stress sampling methods *ASTM D 6771-02*). The pump was set at 9.6'. The well was purged and sampled at 400 ml / min. The well maintained steady recharge throughout the purging activities. A total of 2.5 gallons was extracted from the well. Slight odorous indications of contamination were observed during purging activities.

Table 18
Well Purging Data – MW-17

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity	D.O. (mg/L)	Level
0823	10.72	7.07	-4	1.49	2.1	2.02	4.16
0826	10.59	7.08	-37	1.49	1.5	0.93	4.16
0829	10.49	7.10	-47	1.50	1.4	0.72	4.16
0832	10.47	7.10	-50	1.50	2.5	0.66	4.16
0835	10.37	7.10	-52	1.50	1.6	0.64	4.16
0838	10.46	7.09	-54	1.50	1.8	0.60	4.16

AS-1: AS-1 was not sampled during the December 2019 sampling event.

MP-2: MP-2 was not sampled during the December 2019 sampling event.

MP-3: MP-3 was not sampled during the December 2019 sampling event.

Table 19
Final Sample Data Summary

Well #	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Level (Feet)
MW-1	12.31	6.86	181	1.30	0.0	1.54	4.31
MW-2	12.28	6.79	-99	1.31	2.9	0.66	5.26
MW-3	12.68	6.82	-113	1.34	3.8	0.42	5.65
MW-4	12.81	7.06	-96	2.55	--	4.42	7.12
MW-5	11.81	7.36	-94	1.78	--	6.43	8.21
MW-6	10.18	6.60	-46	0.575	11.0	0.94	4.64
MW-7	12.15	7.62	104	0.408	--	6.54	13.59
MW-8	11.39	6.89	130	0.191	--	6.63	5.22
MW-9	8.22	5.71	76	0.757	2.6	1.51	5.44
MW-10	13.57	6.86	82	7.75	--	5.63	19.95
MW-11	12.25	6.84	188	0.789	--	6.72	13.94
MW-12	11.29	6.73	-79	1.36	7.8	0.43	5.62
MW-13	13.01	7.26	113	3.14	--	7.32	13.92
MW-14	12.34	5.71	110	0.368	--	6.20	5.22
MW-15	12.46	6.84	-110	1.48	3.5	1.13	5.29
MW-16	13.34	7.28	-106	1.59	--	3.53	8.69
MW-17	10.46	7.09	-54	1.50	1.8	0.60	4.16
AS-1	--	--	--	--	--	--	--
MP-2	--	--	--	--	--	--	--
MP-3	--	--	--	--	--	--	--

Table 20
Final Sample Metals Data

Well #	Manganese (mg/L)	Ferrous Iron (mg/L)	Nitrate (mg/L)	Sulfate (mg/L)
MW-1	0.8	0.06	1.3	28
MW-2	>20.0	>3.00	3.2	<2
MW-3	13.0	>3.00	3.0	<2
MW-4	--	--	--	--
MW-5	--	--	--	--
MW-6	1.4	3.08	0.5	21
MW-7	--	--	--	--
MW-8	--	--	--	--
MW-9	0.9	0.53	2.6	20
MW-10	--	--	--	--
MW-11	--	--	--	--
MW-12	2.8	>3.00	4.0	10
MW-13	--	--	--	--
MW-14	--	--	--	--
MW-15	>20.0	>3.00	2.6	2
MW-16	--	--	--	--
MW-17	3.6	2.22	0.8	>80
AS-1	--	--	--	--
MP-2	--	--	--	--
MP-3	--	--	--	--

-- Too turbid for measurement

Table 20
Final Sample Data Summary

Well #	Date	Time
116-1205-MW1	12.06.19	0803
116-1205-MW2	12.06.19	0916
116-1205-MW3	12.06.19	1046
116-1205-MW4	12.05.19	1331
116-1205-MW5	12.05.19	1345
116-1205-MW6	12.06.19	1126
116-1205-MW7	12.05.19	1208
116-1205-MW8	12.05.19	1215
116-1205-MW9	12.05.19	1502
116-1205-MW10	12.05.19	1043
116-1205-MW11	12.05.19	0840
116-1205-MW12	12.05.19	1423
116-1205-MW13	12.05.19	1125
116-1205-MW14	12.05.19	0937
116-1205-MW15	12.06.19	1000
116-1205-MW16	12.05.19	1324
116-1205-MW17	12.06.19	0838
116-1205-AS1	NS	NS
116-1205-MP2	NS	NS
116-1205-MP3	NS	NS
116-1205-FB1	12.05.19	1531
116-1205-FB2	12.06.19	1145

Day 1
0806: Onsite
1544: Offsite

Day 2
0736: Onsite
1200: Offsite

SN / mg

ATTACHMENT K-2

Field Notes – February 2020

Field Notes

TO: File
FROM: Chris Herman
DATE: February 5 - 6, 2020
PROJECT: Quinn's Café Stop / Site Characterization
PROJECT NUMBER: 2171853 (26116)
SUBJECT: Groundwater Sampling Activities

0754: Arrived onsite and initiated site activities with the collection of static water levels from the seventeen (17) groundwater monitoring wells located onsite. The purpose of the field activities was to collect groundwater samples from the seventeen (17) monitoring wells for laboratory analysis. The general well information is as follows:

Table 1A
General Well Information
Wells Sampled via Hand-Bailing Techniques

Well #	S.W.L. (Feet)	Total Depth (Feet)	1 Volume (Gallons)	3 Volumes (Gallons)	Purged (Gallons)
MW-1	4.78	14.39	--	--	--
MW-2	5.01	15.02	--	--	--
MW-3	4.69	14.89	--	--	--
MW-4	5.35	14.87	1.6	4.8	4.5
MW-5	4.02	15.01	1.8	5.4	4.5
MW-6	4.43	15.08	--	--	--
MW-7	6.97	16.78	1.6	4.8	3.0
MW-8	4.61	17.17	2.3	6.9	7.0
MW-9	4.91	16.77	--	--	--
MW-10	8.04	23.30	2.6	7.8	6.0
MW-11	4.74	16.67	2.0	6.0	6.0
MW-12	4.74	19.22	--	--	--
MW-13	10.45	16.34	1.0	3.0	3.0
MW-14	5.10	15.00	1.7	5.1	6.0
MW-15	4.66	15.03	--	--	--
MW-16	5.12	15.02	1.7	5.1	5.0
MW-17	4.06	15.00	--	--	--
AS-1	NM	10.51	--	--	--
MP-1	NM	5.47	--	--	--
MP-2	NM	10.00	--	--	--
MP-3	NM	9.94	--	--	--
SVE-1	NM	5.48	--	--	--
SVE-2	NM	5.16	--	--	--

Table 1B
General Well Information
Well Sampled via Low-Flow Techniques

Well #	S.W.L. (Feet)	T.D. (Feet)	Pump Depth (Feet)	Rate (L/min.)	Purged (Gallons)
MW-1	4.78	14.39	9.6	0.19	2.0
MW-2	5.01	15.02	10.01	0.445	4.5
MW-3	4.69	14.89	9.8	0.12	2.5
MW-4	5.35	14.87	--	--	--
MW-5	4.02	15.01	--	--	--
MW-6	4.43	15.08	9.8	0.29	2.0
MW-7	6.97	16.78	--	--	--
MW-8	4.61	17.17	--	--	--
MW-9	4.91	16.77	10.8	0.43	4.0
MW-10	8.04	23.30	--	--	--
MW-11	4.74	16.67	--	--	--
MW-12	4.74	19.22	12.0	0.24	3.0
MW-13	10.45	16.34	--	--	--
MW-14	5.10	15.00	--	--	--
MW-15	4.66	15.03	9.9	0.20	1.5
MW-16	5.12	15.02	--	--	--
MW-17	4.06	15.00	9.5	0.33	2.0
AS-1	NM	10.51	--	--	--
MP-1	NM	5.47	--	--	--
MP-2	NM	10.00	--	--	--
MP-3	NM	9.94	--	--	--
SVE-1	NM	5.48	--	--	--
SVE-2	NM	5.16	--	--	--

MW-1: MW-1 was purged and sampled utilizing low flow / low stress sampling methods *ASTM D 6771-02*). The pump was set at 9.6'. The well was purged and sampled at 19 0 ml / min. The well maintained steady recharge throughout the purging activities. A total of 2.0 gallons was extracted from the well. No odorous or visual indications of contamination were observed during purging activities.

Table 2
Well Purging Data – MW-1

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water (Feet)
0939	8.24	6.82	167	0.568	3.4	0.74	4.95
0942	8.54	6.92	149	0.571	3.1	0.57	4.95
0945	8.71	6.95	136	0.589	2.9	0.61	4.95
0948	8.98	6.95	128	0.607	2.9	0.50	4.95
0951	9.07	6.95	121	0.618	2.7	0.40	4.95
0954	9.28	6.93	115	0.621	2.4	0.35	4.95
0957	9.47	6.93	111	0.626	2.1	0.32	4.95
1000	9.52	6.92	107	0.632	2.4	0.28	4.95

MW-2: MW-2 was purged and sampled utilizing low flow / low stress sampling methods *ASTM D 6771-02*). The pump was set at 10.01'. The well was purged and sampled at 450 ml / min. The well maintained steady recharge throughout the purging activities. A total of 4.5 gallons was extracted from the well. Odorous indications of contamination were observed during purging activities.

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)
1123	8.18	6.98	-56	0.570	6.8	0.18	5.09
1126	8.66	6.73	-61	0.589	5.6	0.00	5.09
1129	8.82	6.71	-64	0.619	5.9	0.00	5.09
1132	8.95	6.73	-69	0.650	6.2	0.00	5.09
1135	8.97	6.76	-73	0.670	4.2	0.00	5.09
1138	9.04	6.77	-76	0.695	2.6	0.00	5.09
1141	8.98	6.79	-79	0.716	2.3	0.00	5.09
1144	8.97	6.80	-81	0.733	2.2	0.00	5.09
1147	9.08	6.80	-83	0.761	2.1	0.00	5.09
1150	8.97	6.81	-85	0.771	2.1	0.00	5.09
1153	8.98	6.82	-87	0.787	1.9	0.00	5.09

MW-3: MW-3 was purged and sampled utilizing low flow / low stress sampling methods *ASTM D 6771-02*). The pump was set at 9.8'. The well was purged and sampled at 120 ml / min. The well maintained steady recharge throughout the purging activities. A total of 2.5 gallons was extracted from the well. Odorous indications of contamination were observed during purging activities.

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)
1320	9.00	6.71	-39	1.02	5.2	0.22	4.95
1323	9.59	6.71	-62	1.05	3.5	0.00	5.00
1326	9.96	6.73	-72	1.06	3.1	0.00	5.06
1329	10.12	6.74	-78	1.07	3.1	0.00	5.04
1332	10.36	6.74	-81	1.07	3.0	0.00	5.06
1335	10.05	6.75	-84	1.07	2.9	0.00	5.06
1338	9.94	6.74	-86	1.05	2.8	0.00	5.06
1341	10.02	6.75	-86	1.06	3.0	0.00	5.06
1344	10.14	6.75	-87	1.07	2.7	0.00	5.06
1347	10.32	6.75	-88	1.08	2.6	0.00	5.06

MW-4: MW-4 was characterized as having insufficient recharge for low flow / low stress sampling methods. Therefore, the well was purged and sampled utilizing a hand bailer. The well was evacuated at 4.5 gallons, and was sampled upon recharge. Odorous indications of contamination were observed.

Table 5
Well Purging Data – MW-4

Time	Temp. (˚C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	D.O. (mg/L)	Gallons	Comment
0920	8.74	6.69	-62	2.01	2.04	0.25	Clear
0923	8.35	6.75	-60	1.97	2.12	1.0	Clear
0926	8.66	6.79	-59	2.03	2.92	3.0	Silty
0929	8.85	6.82	-59	2.04	5.10	4.5	Silty

MW-5: MW-5 was characterized as having insufficient recharge for low flow / low stress sampling methods. Therefore, the well was purged and sampled utilizing a hand bailer. The well evacuated at 4.5 gallons, and was sampled upon recharge. Odorous and slight visual indications of contamination were observed.

Table 6
Well Purging Data – MW-5

Time	Temp. (˚C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	D.O. (mg/L)	Gallons	Comment
0932	8.90	7.06	-75	1.36	1.97	0.25	Clear
0935	7.82	7.11	-78	1.24	2.12	1.0	Silty
0937	8.91	7.13	-81	1.29	4.12	4.5	Silty

MW-6: MW-6 was purged and sampled utilizing low flow / low stress sampling methods *ASTM D 6771-02*). The pump was set at 9.8'. The well was purged and sampled at 290 ml / min. The well maintained steady recharge throughout the purging activities. A total of 2.0 gallons was extracted from the well. Slight odorous indications of contamination were observed during purging activities.

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)
1240	8.22	6.65	-8	0.362	47.7	1.91	4.20
1243	8.44	6.61	1	0.362	35.2	1.71	4.20
1246	8.88	6.62	4	0.370	24.3	1.46	4.20
1249	9.16	6.62	6	0.378	19.6	1.25	4.20
1252	9.20	6.62	5	0.383	13.7	1.09	4.20
1255	9.52	6.63	3	0.390	10.4	0.99	4.20
1258	9.61	6.63	1	0.394	9.4	0.90	4.20

MW-7: MW-7 was characterized as having insufficient recharge for low flow / low stress sampling methods. Therefore, the well was purged and sampled utilizing a hand bailer. The well evacuated at 3.0 gallons, and was sampled upon recharge. No odorous or visual indications of contamination were observed.

Table 8
Well Purging Data – MW-7

Time	Temp. (˚C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	D.O. (mg/L)	Gallons	Comment
1347	8.67	7.13	145	0.588	4.87	0.25	Silty
1350	8.42	7.13	149	0.252	5.87	1.0	Silty
1353	8.74	7.15	158	0.328	5.12	3.0	Silty

MW-8: MW-8 was characterized as having insufficient recharge for low flow / low stress sampling methods. Therefore, the well was purged and sampled utilizing a hand bailer. The well evacuated at 7.0 gallons, and was sampled upon recharge. No odorous or visual indications of contamination were observed.

Table 9
Well Purging Data – MW-8

Time	Temp. (˚C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	D.O. (mg/L)	Gallons	Comment
1356	8.52	7.09	162	0.239	4.50	0.25	Clear
1359	7.61	6.92	173	0.171	4.47	1.0	Silty
1402	7.40	6.97	176	0.185	4.38	3.0	Silty
1405	7.66	7.05	178	0.218	4.31	5.0	Silty
1408	8.02	7.19	179	0.297	4.88	7.0	Silty

MW-9: MW-9 was purged and sampled utilizing low flow / low stress sampling methods *ASTM D 6771-02*). The pump was set at 10.8'. The well was purged and sampled at 430 ml / min. The well maintained steady recharge throughout the purging activities. A total of 4.0 gallons was extracted from the well. No odorous or visual indications of contamination were observed during purging activities.

Table 10
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)
0857	7.82	6.42	8	0.570	38.0	0.37	5.14
0900	7.73	6.13	51	0.559	30.9	0.60	5.19
0903	7.81	6.09	68	0.514	32.7	0.89	5.19
0906	8.27	6.04	86	0.469	28.3	1.20	5.19
0909	8.35	6.03	95	0.443	23.5	1.31	5.19
0912	8.34	6.01	106	0.424	20.0	1.37	5.19
0915	8.53	6.02	111	0.406	17.2	1.44	5.19
0918	8.33	5.99	119	0.401	12.7	1.47	5.19
0921	8.20	5.99	127	0.392	10.0	1.45	5.19

MW-10: MW-10 was characterized as having insufficient recharge for low flow / low stress sampling methods. Therefore, the well was purged and sampled utilizing a hand bailer. The well evacuated at 6.0 gallons, and was sampled upon recharge. No odorous or visual indications of contamination were observed.

Table 11
Well Purging Data – MW-10

Time	Temp. (˚C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	D.O. (mg/L)	Gallons	Comment
1154	9.48	6.72	-5	5.32	4.04	0.25	Clear
1157	8.62	6.66	20	4.71	4.87	1.0	Silty
1200	9.04	6.58	42	4.86	4.62	3.0	Silty
1203	9.68	6.63	53	4.99	4.66	5.0	Silty
1206	10.15	6.72	53	5.32	3.29	6.0	Silty

MW-11: MW-11 was characterized as having insufficient recharge for low flow / low stress sampling methods. Therefore, the well was purged and sampled utilizing a hand bailer. The well was evacuated at 6.0 gallons, and was sampled upon recharge. No odorous or visual indications of contamination were observed.

Table 12
Well Purging Data – MW-11

Time	Temp. (˚C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	D.O. (mg/L)	Gallons	Comment
0807	12.22	7.02	181	0.705	3.50	0.25	Clear
0810	9.58	6.35	211	0.459	4.67	1.0	Silty
0813	8.87	6.43	221	0.469	5.60	3.0	Silty
0816	9.36	6.82	217	0.679	4.95	6.0	Silty

MW-12: MW-12 was purged and sampled utilizing low flow / low stress sampling methods *ASTM D 6771-02*). The pump was set at 12.0'. The well was purged and sampled at 240 ml / min. The well maintained steady recharge throughout the purging activities. A total of 3.0 gallons was extracted from the well. No odorous or visual indications of contamination were observed during purging activities.

Table 13
Well Purging Data – MW-12

Time	Temp. (˚C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity	D.O. (mg/L)	Level
0805	8.05	6.81	126	2.96	>800	4.20	5.04
0808	7.78	6.57	81	2.94	>800	3.63	5.04
0811	7.63	6.51	66	2.82	552	3.40	5.04
0814	7.59	6.50	57	2.68	360	2.82	5.04
0817	7.54	6.50	46	2.49	234	2.57	5.04
0820	7.55	6.51	37	2.39	147	2.38	5.04
0823	7.61	6.52	29	2.25	90.0	2.13	5.04
0826	7.66	6.53	22	2.14	61.5	1.89	5.04
0829	7.63	6.54	16	2.02	44.1	1.61	5.04

MW-13: MW-13 was characterized as having insufficient recharge for low flow / low stress sampling methods. Therefore, the well was purged and sampled utilizing a hand bailer. The well was evacuated at 3.0 gallons, and was sampled upon recharge. No odorous or visual indications of contamination were observed.

Table 14
Well Purging Data – MW-13

Time	Temp. (˚C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	D.O. (mg/L)	Gallons	Comment
1258	9.21	6.77	117	6.42	4.17	0.25	Silty
1301	8.98	6.59	125	4.91	3.65	1.0	Silty
1304	9.46	6.53	133	5.16	3.90	2.0	Silty
1307	9.74	6.49	139	5.44	4.25	3.0	Silty

MW-14: MW-14 was characterized as having insufficient recharge for low flow / low stress sampling methods. Therefore, the well was purged and sampled utilizing a hand bailer. The well was evacuated at 6.0 gallons, and was sampled upon recharge. No odorous or visual indications of contamination were observed.

Table 15
Well Purging Data – MW-14

Time	Temp. (˚C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	D.O. (mg/L)	Gallons	Comment
0837	9.71	5.88	224	0.139	2.86	0.25	Clear
0839	8.90	5.83	186	0.090	3.15	1.0	Silty
0841	8.97	5.94	162	0.100	2.97	3.0	Silty
0843	9.01	5.98	141	0.109	3.58	5.0	Very Silty
0845	8.63	5.90	146	0.092	4.56	6.0	Very Silty

MW-15: MW-15 was purged and sampled utilizing low flow / low stress sampling methods *ASTM D 6771-02*). The pump was set at 9.9'. The well was purged and sampled at 200 ml / min. The well maintained steady recharge throughout the purging activities. A total of 1.5 gallons was extracted from the well. Odorous indications of contamination were observed during purging activities.

Table 16
Well Purging Data – MW-15

Time	Temp. (˚C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity	D.O. (mg/L)	Level
1359	9.68	6.74	-81	1.09	30.2	0.05	5.18
1402	9.97	6.70	-84	1.11	18.7	0.00	5.18
1405	10.09	6.70	-88	1.13	20.5	0.00	5.19
1408	10.28	6.71	-90	1.15	21.0	0.00	5.19
1411	10.57	6.71	-92	1.18	15.8	0.00	5.19
1414	10.52	6.71	-93	1.19	16.5	0.00	5.19

MW-16: MW-16 was characterized as having insufficient recharge for low flow / low stress sampling methods. Therefore, the well was purged and sampled utilizing a hand bailer. The well was evacuated at 5.0 gallons, and was sampled upon recharge. Slight odorous indications of contamination were observed.

Table 17
Well Purging Data – MW-16

Time	Temp. (˚C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	D.O. (mg/L)	Gallons	Comment
0852	9.02	6.28	16	1.23	2.02	0.25	Silty
0855	8.84	6.36	-32	1.53	1.84	1.0	Silty
0857	8.91	6.43	-42	1.52	2.60	3.0	Silty
0900	9.43	6.59	-53	1.34	1.76	5.0	Silty

MW-17: MW-17 was purged and sampled utilizing low flow / low stress sampling methods *ASTM D 6771-02*). The pump was set at 9.5'. The well was purged and sampled at 330 ml / min. The well maintained steady recharge throughout the purging activities. A total of 2.0 gallons was extracted from the well. Slight odorous indications of contamination were observed during purging activities.

Table 18
Well Purging Data – MW-17

Time	Temp. (˚C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity	D.O. (mg/L)	Level
1024	7.15	7.03	127	1.03	39.4	0.11	4.03
1027	6.79	6.97	54	1.04	9.0	0.00	4.03
1030	6.71	6.97	25	1.03	6.4	0.00	4.03
1033	6.75	6.97	8	1.02	3.1	0.00	4.03
1036	6.71	6.97	-1	1.02	2.5	0.00	4.03
1039	6.78	6.98	-7	1.02	2.5	0.00	4.03
1042	6.78	6.98	-12	1.02	1.9	0.00	4.03

AS-1: AS-1 was not sampled during the December 2019 sampling event.

MP-2: MP-2 was not sampled during the December 2019 sampling event.

MP-3: MP-3 was not sampled during the December 2019 sampling event.

Table 19
Final Sample Data Summary

Well #	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Level (Feet)
MW-1	9.52	6.92	107	0.632	2.4	0.28	4.95
MW-2	8.98	6.82	-87	0.787	1.9	0.00	5.09
MW-3	10.32	6.75	-88	1.08	2.6	0.00	5.06
MW-4	7.21	6.87	-56	1.76	--	4.48	5.68
MW-5	6.49	7.16	-71	1.24	--	4.42	4.09
MW-6	9.61	6.63	1	0.394	9.4	0.90	4.20
MW-7	8.03	7.02	205	0.185	--	6.47	12.84
MW-8	6.81	6.54	203	0.080	--	3.50	4.88
MW-9	8.20	5.99	127	0.392	10.0	1.45	5.19
MW-10	8.93	7.16	94	4.73	--	6.89	19.19
MW-11	6.91	7.12	34	0.470	--	7.53	12.63
MW-12	7.63	6.54	16	2.02	44.1	1.61	5.04
MW-13	8.94	6.37	173	5.07	--	3.69	12.04
MW-14	6.89	6.50	77	0.109	--	4.98	5.11
MW-15	10.52	6.71	-93	1.19	16.5	0.00	5.19
MW-16	8.03	6.70	-7	1.17	--	3.94	6.12
MW-17	6.78	6.98	-12	1.02	1.9	0.00	4.03
AS-1	--	--	--	--	--	--	--
MP-2	--	--	--	--	--	--	--
MP-3	--	--	--	--	--	--	--

Table 20
Final Sample Metals Data

Well #	Manganese (mg/L)	Ferrous Iron (mg/L)	Nitrate (mg/L)	Sulfate (mg/L)
MW-1	0.8	0.06	3.0	12
MW-2	18.2	>3.00	5.2	<2
MW-3	>20	>3.00	5.8	4
MW-4	9.9	>3.00	4.3	9
MW-5	5.8	2.85	3.6	2
MW-6	3.0	>3.00	4.2	12
MW-7	--	--	--	--
MW-8	<0.1	<0.02	1.2	4
MW-9	<0.1	0.22	1.7	16
MW-10	0.5	0.07	3.7	>70
MW-11	--	--	--	--
MW-12	3.5	>3.00	<0.3	42
MW-13	--	--	--	--
MW-14	--	--	--	--
MW-15	72.0	>3.00	6.1	<2
MW-16	17.4	3.00	<0.3	28
MW-17	3.9	1.66	4.0	>70
AS-1	--	--	--	--
MP-2	--	--	--	--
MP-3	--	--	--	--

-- Too turbid for measurement

Table 20
Final Sample Data Summary

Well #	Date	Time
116-0205-MW1	02.06.20	1000
116-0205-MW2	02.06.20	1153
116-0205-MW3	02.06.20	1347
116-0205-MW4	02.05.20	1100
116-0205-MW5	02.05.20	1120
116-0205-MW6	02.06.20	1258
116-0205-MW7	02.05.20	1425
116-0205-MW8	02.05.20	1417
116-0205-MW9	02.06.20	0921
116-0205-MW10	02.05.20	1243
116-0205-MW11	02.05.20	1017
116-0205-MW12	02.06.20	0829
116-0205-MW13	02.05.20	1332
116-0205-MW14	02.05.20	1030
116-0205-MW15	02.06.20	1414
116-0205-MW16	02.05.20	1038
116-0205-MW17	02.06.20	1042
116-0205-AS1	NS	NS
116-0205-MP2	NS	NS
116-0205-MP3	NS	NS
116-0205-FB1	02.05.20	1443
116-0205-FB2	02.06.20	1421

Day 1
0754: Onsite
1505: Offsite

Day 2
0749: Onsite
1440: Offsite

SN / ml

ATTACHMENT L

Laboratory Analytical Data Sheets

ATTACHMENT L-1

Laboratory Analytical Data Sheets

Soil Sampling Activities – January 2020

ALS Environmental

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State Certifications: FL E871113 , WA C999 , MD 128 , VA 460157 , WV DW 9961-C , WV 343

January 13, 2020

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

Certificate of Analysis

Project Name:	**17: Primary Profile**	Workorder:	**3079218**
Purchase Order:		Workorder ID:	**Quinn's Cafe' Stop/2171853**

Dear Mr. Gilgallon:

Enclosed are the analytical results for samples received by the laboratory on Wednesday, January 8, 2020.

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.

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

CC: Mr. Kevin Cucura

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

Amy K Borden

Ms. Amy K Borden
Project Coordinator

ALS Environmental

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SAMPLE SUMMARY

Workorder: 3079218 Quinn's Cafe' Stop/2171853

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
3079218001	116-0106-TB21A	Solid	1/6/2020 13:10	1/8/2020 08:44	Collected by Client
3079218002	116-0106-TB21B	Solid	1/6/2020 13:20	1/8/2020 08:44	Collected by Client
3079218003	116-0106-TB22A	Solid	1/6/2020 10:54	1/8/2020 08:44	Collected by Client
3079218004	116-0106-TB22B	Solid	1/6/2020 11:03	1/8/2020 08:44	Collected by Client
3079218005	116-0106-TB23A	Solid	1/6/2020 13:52	1/8/2020 08:44	Collected by Client
3079218006	116-0106-TB23B	Solid	1/6/2020 14:01	1/8/2020 08:44	Collected by Client
3079218007	116-0106-TB24A	Solid	1/6/2020 14:22	1/8/2020 08:44	Collected by Client
3079218008	116-0106-TB24B	Solid	1/6/2020 14:26	1/8/2020 08:44	Collected by Client
3079218009	116-0106-TB25A	Solid	1/6/2020 10:18	1/8/2020 08:44	Collected by Client
3079218010	116-0106-TB25B	Solid	1/6/2020 10:29	1/8/2020 08:44	Collected by Client
3079218011	116-0106-TB26A	Solid	1/6/2020 11:35	1/8/2020 08:44	Collected by Client
3079218012	116-0106-TB26B	Solid	1/6/2020 11:51	1/8/2020 08:44	Collected by Client
3079218013	116-0106-OFFROAD	Solid	1/6/2020 14:55	1/8/2020 08:44	Collected by Client
3079218014	116-0106-DIESEL	Solid	1/6/2020 10:11	1/8/2020 08:44	Collected by Client

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SAMPLE SUMMARY

Workorder: 3079218 Quinn's Cafe' Stop/2171853

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 preformed 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: 3079218 Quinn's Cafe' Stop/2171853

Lab ID: **3079218001** Date Collected: 1/6/2020 13:10 Matrix: Solid

Sample ID: **116-0106-TB21A** Date Received: 1/8/2020 08:44

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	40.4		ug/kg	37.8	SW846 8260B	1/6/20 13:10	JTH	1/9/20 02:54	PDK	A
Ethylbenzene	440		ug/kg	37.8	SW846 8260B	1/6/20 13:10	JTH	1/9/20 02:54	PDK	A
Isopropylbenzene	400		ug/kg	37.8	SW846 8260B	1/6/20 13:10	JTH	1/9/20 02:54	PDK	A
Methyl t-Butyl Ether	ND		ug/kg	37.8	SW846 8260B	1/6/20 13:10	JTH	1/9/20 02:54	PDK	A
Naphthalene	1880		ug/kg	75.7	SW846 8260B	1/6/20 13:10	JTH	1/9/20 02:54	PDK	A
Toluene	55.4		ug/kg	37.8	SW846 8260B	1/6/20 13:10	JTH	1/9/20 02:54	PDK	A
1,2,4-Trimethylbenzene	403		ug/kg	37.8	SW846 8260B	1/6/20 13:10	JTH	1/9/20 02:54	PDK	A
1,3,5-Trimethylbenzene	ND		ug/kg	37.8	SW846 8260B	1/6/20 13:10	JTH	1/9/20 02:54	PDK	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	83.4		%	71 - 146	SW846 8260B	1/6/20 13:10	JTH	1/9/20 02:54	PDK	A
4-Bromofluorobenzene (S)	92.5		%	46 - 138	SW846 8260B	1/6/20 13:10	JTH	1/9/20 02:54	PDK	A
Dibromofluoromethane (S)	73.7		%	42 - 143	SW846 8260B	1/6/20 13:10	JTH	1/9/20 02:54	PDK	A
Toluene-d8 (S)	86.7		%	54 - 141	SW846 8260B	1/6/20 13:10	JTH	1/9/20 02:54	PDK	A
WET CHEMISTRY										
Moisture	13.6		%	0.1	S2540G-11			1/9/20 08:00	AXD	B
Total Solids	86.4		%	0.1	S2540G-11			1/9/20 08:00	AXD	B

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ANALYTICAL RESULTS

Workorder: 3079218 Quinn's Cafe' Stop/2171853

Lab ID: **3079218002** Date Collected: 1/6/2020 13:20 Matrix: Solid

Sample ID: **116-0106-TB21B** Date Received: 1/8/2020 08:44

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/kg	59.7	SW846 8260B	1/6/20 13:20	JTH	1/8/20 22:07	PDK	A
Ethylbenzene	ND		ug/kg	59.7	SW846 8260B	1/6/20 13:20	JTH	1/8/20 22:07	PDK	A
Isopropylbenzene	ND		ug/kg	59.7	SW846 8260B	1/6/20 13:20	JTH	1/8/20 22:07	PDK	A
Methyl t-Butyl Ether	ND		ug/kg	59.7	SW846 8260B	1/6/20 13:20	JTH	1/8/20 22:07	PDK	A
Naphthalene	ND		ug/kg	119	SW846 8260B	1/6/20 13:20	JTH	1/8/20 22:07	PDK	A
Toluene	242		ug/kg	59.7	SW846 8260B	1/6/20 13:20	JTH	1/8/20 22:07	PDK	A
1,2,4-Trimethylbenzene	ND		ug/kg	59.7	SW846 8260B	1/6/20 13:20	JTH	1/8/20 22:07	PDK	A
1,3,5-Trimethylbenzene	ND		ug/kg	59.7	SW846 8260B	1/6/20 13:20	JTH	1/8/20 22:07	PDK	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	86.1		%	71 - 146	SW846 8260B	1/6/20 13:20	JTH	1/8/20 22:07	PDK	A
4-Bromofluorobenzene (S)	96.2		%	46 - 138	SW846 8260B	1/6/20 13:20	JTH	1/8/20 22:07	PDK	A
Dibromofluoromethane (S)	77.3		%	42 - 143	SW846 8260B	1/6/20 13:20	JTH	1/8/20 22:07	PDK	A
Toluene-d8 (S)	90.4		%	54 - 141	SW846 8260B	1/6/20 13:20	JTH	1/8/20 22:07	PDK	A
WET CHEMISTRY										
Moisture	28.2		%	0.1	S2540G-11			1/9/20 08:00	AXD	B
Total Solids	71.8		%	0.1	S2540G-11			1/9/20 08:00	AXD	B

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ANALYTICAL RESULTS

Workorder: 3079218 Quinn's Cafe' Stop/2171853

Lab ID: **3079218003** Date Collected: 1/6/2020 10:54 Matrix: Solid

Sample ID: **116-0106-TB22A** Date Received: 1/8/2020 08:44

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/kg	36.2	SW846 8260B	1/6/20 10:54	JTH	1/8/20 22:29	PDK	A
Ethylbenzene	162		ug/kg	36.2	SW846 8260B	1/6/20 10:54	JTH	1/8/20 22:29	PDK	A
Isopropylbenzene	ND		ug/kg	36.2	SW846 8260B	1/6/20 10:54	JTH	1/8/20 22:29	PDK	A
Methyl t-Butyl Ether	ND		ug/kg	36.2	SW846 8260B	1/6/20 10:54	JTH	1/8/20 22:29	PDK	A
Naphthalene	76.0		ug/kg	72.5	SW846 8260B	1/6/20 10:54	JTH	1/8/20 22:29	PDK	A
Toluene	ND		ug/kg	36.2	SW846 8260B	1/6/20 10:54	JTH	1/8/20 22:29	PDK	A
1,2,4-Trimethylbenzene	504		ug/kg	36.2	SW846 8260B	1/6/20 10:54	JTH	1/8/20 22:29	PDK	A
1,3,5-Trimethylbenzene	ND		ug/kg	36.2	SW846 8260B	1/6/20 10:54	JTH	1/8/20 22:29	PDK	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	87.1		%	71 - 146	SW846 8260B	1/6/20 10:54	JTH	1/8/20 22:29	PDK	A
4-Bromofluorobenzene (S)	96.7		%	46 - 138	SW846 8260B	1/6/20 10:54	JTH	1/8/20 22:29	PDK	A
Dibromofluoromethane (S)	80		%	42 - 143	SW846 8260B	1/6/20 10:54	JTH	1/8/20 22:29	PDK	A
Toluene-d8 (S)	94.4		%	54 - 141	SW846 8260B	1/6/20 10:54	JTH	1/8/20 22:29	PDK	A
WET CHEMISTRY										
Moisture	6.1		%	0.1	S2540G-11			1/9/20 08:00	AXD	B
Total Solids	93.9		%	0.1	S2540G-11			1/9/20 08:00	AXD	B

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ANALYTICAL RESULTS

Workorder: 3079218 Quinn's Cafe' Stop/2171853

Lab ID: **3079218004** Date Collected: 1/6/2020 11:03 Matrix: Solid

Sample ID: **116-0106-TB22B** Date Received: 1/8/2020 08:44

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/kg	29.8	SW846 8260B	1/6/20 11:03	JTH	1/8/20 22:51	PDK	A
Ethylbenzene	ND		ug/kg	29.8	SW846 8260B	1/6/20 11:03	JTH	1/8/20 22:51	PDK	A
Isopropylbenzene	ND		ug/kg	29.8	SW846 8260B	1/6/20 11:03	JTH	1/8/20 22:51	PDK	A
Methyl t-Butyl Ether	ND		ug/kg	29.8	SW846 8260B	1/6/20 11:03	JTH	1/8/20 22:51	PDK	A
Naphthalene	ND		ug/kg	59.5	SW846 8260B	1/6/20 11:03	JTH	1/8/20 22:51	PDK	A
Toluene	ND		ug/kg	29.8	SW846 8260B	1/6/20 11:03	JTH	1/8/20 22:51	PDK	A
1,2,4-Trimethylbenzene	ND		ug/kg	29.8	SW846 8260B	1/6/20 11:03	JTH	1/8/20 22:51	PDK	A
1,3,5-Trimethylbenzene	ND		ug/kg	29.8	SW846 8260B	1/6/20 11:03	JTH	1/8/20 22:51	PDK	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	84.1		%	71 - 146	SW846 8260B	1/6/20 11:03	JTH	1/8/20 22:51	PDK	A
4-Bromofluorobenzene (S)	97.6		%	46 - 138	SW846 8260B	1/6/20 11:03	JTH	1/8/20 22:51	PDK	A
Dibromofluoromethane (S)	77.5		%	42 - 143	SW846 8260B	1/6/20 11:03	JTH	1/8/20 22:51	PDK	A
Toluene-d8 (S)	89.9		%	54 - 141	SW846 8260B	1/6/20 11:03	JTH	1/8/20 22:51	PDK	A
WET CHEMISTRY										
Moisture	5.0		%	0.1	S2540G-11			1/9/20 08:00	AXD	B
Total Solids	95.0		%	0.1	S2540G-11			1/9/20 08:00	AXD	B

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ANALYTICAL RESULTS

Workorder: 3079218 Quinn's Cafe' Stop/2171853

Lab ID: **3079218005** Date Collected: 1/6/2020 13:52 Matrix: Solid

Sample ID: **116-0106-TB23A** Date Received: 1/8/2020 08:44

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/kg	34.7	SW846 8260B	1/6/20 13:52	JTH	1/8/20 23:13	PDK	A
Ethylbenzene	ND		ug/kg	34.7	SW846 8260B	1/6/20 13:52	JTH	1/8/20 23:13	PDK	A
Isopropylbenzene	ND		ug/kg	34.7	SW846 8260B	1/6/20 13:52	JTH	1/8/20 23:13	PDK	A
Methyl t-Butyl Ether	ND		ug/kg	34.7	SW846 8260B	1/6/20 13:52	JTH	1/8/20 23:13	PDK	A
Naphthalene	ND		ug/kg	69.4	SW846 8260B	1/6/20 13:52	JTH	1/8/20 23:13	PDK	A
Toluene	36.6		ug/kg	34.7	SW846 8260B	1/6/20 13:52	JTH	1/8/20 23:13	PDK	A
1,2,4-Trimethylbenzene	ND		ug/kg	34.7	SW846 8260B	1/6/20 13:52	JTH	1/8/20 23:13	PDK	A
1,3,5-Trimethylbenzene	ND		ug/kg	34.7	SW846 8260B	1/6/20 13:52	JTH	1/8/20 23:13	PDK	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	89.5		%	71 - 146	SW846 8260B	1/6/20 13:52	JTH	1/8/20 23:13	PDK	A
4-Bromofluorobenzene (S)	102		%	46 - 138	SW846 8260B	1/6/20 13:52	JTH	1/8/20 23:13	PDK	A
Dibromofluoromethane (S)	80.1		%	42 - 143	SW846 8260B	1/6/20 13:52	JTH	1/8/20 23:13	PDK	A
Toluene-d8 (S)	94.9		%	54 - 141	SW846 8260B	1/6/20 13:52	JTH	1/8/20 23:13	PDK	A
WET CHEMISTRY										
Moisture	10.2		%	0.1	S2540G-11			1/9/20 08:00	AXD	B
Total Solids	89.8		%	0.1	S2540G-11			1/9/20 08:00	AXD	B

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ANALYTICAL RESULTS

Workorder: 3079218 Quinn's Cafe' Stop/2171853

Lab ID: **3079218006** Date Collected: 1/6/2020 14:01 Matrix: Solid

Sample ID: **116-0106-TB23B** Date Received: 1/8/2020 08:44

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/kg	40.4	SW846 8260B	1/6/20 14:01	JTH	1/8/20 23:36	PDK	A
Ethylbenzene	ND		ug/kg	40.4	SW846 8260B	1/6/20 14:01	JTH	1/8/20 23:36	PDK	A
Isopropylbenzene	ND		ug/kg	40.4	SW846 8260B	1/6/20 14:01	JTH	1/8/20 23:36	PDK	A
Methyl t-Butyl Ether	ND		ug/kg	40.4	SW846 8260B	1/6/20 14:01	JTH	1/8/20 23:36	PDK	A
Naphthalene	ND		ug/kg	80.9	SW846 8260B	1/6/20 14:01	JTH	1/8/20 23:36	PDK	A
Toluene	ND		ug/kg	40.4	SW846 8260B	1/6/20 14:01	JTH	1/8/20 23:36	PDK	A
1,2,4-Trimethylbenzene	ND		ug/kg	40.4	SW846 8260B	1/6/20 14:01	JTH	1/8/20 23:36	PDK	A
1,3,5-Trimethylbenzene	ND		ug/kg	40.4	SW846 8260B	1/6/20 14:01	JTH	1/8/20 23:36	PDK	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	89.3		%	71 - 146	SW846 8260B	1/6/20 14:01	JTH	1/8/20 23:36	PDK	A
4-Bromofluorobenzene (S)	97.7		%	46 - 138	SW846 8260B	1/6/20 14:01	JTH	1/8/20 23:36	PDK	A
Dibromofluoromethane (S)	79.5		%	42 - 143	SW846 8260B	1/6/20 14:01	JTH	1/8/20 23:36	PDK	A
Toluene-d8 (S)	91.2		%	54 - 141	SW846 8260B	1/6/20 14:01	JTH	1/8/20 23:36	PDK	A
WET CHEMISTRY										
Moisture	16.1		%	0.1	S2540G-11			1/9/20 08:00	AXD	B
Total Solids	83.9		%	0.1	S2540G-11			1/9/20 08:00	AXD	B

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ANALYTICAL RESULTS

Workorder: 3079218 Quinn's Cafe' Stop/2171853

Lab ID: **3079218007** Date Collected: 1/6/2020 14:22 Matrix: Solid

Sample ID: **116-0106-TB24A** Date Received: 1/8/2020 08:44

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/kg	23.5	SW846 8260B	1/6/20 14:22	JTH	1/8/20 23:58	PDK	A
Ethylbenzene	ND		ug/kg	23.5	SW846 8260B	1/6/20 14:22	JTH	1/8/20 23:58	PDK	A
Isopropylbenzene	ND		ug/kg	23.5	SW846 8260B	1/6/20 14:22	JTH	1/8/20 23:58	PDK	A
Methyl t-Butyl Ether	ND		ug/kg	23.5	SW846 8260B	1/6/20 14:22	JTH	1/8/20 23:58	PDK	A
Naphthalene	ND		ug/kg	46.9	SW846 8260B	1/6/20 14:22	JTH	1/8/20 23:58	PDK	A
Toluene	ND		ug/kg	23.5	SW846 8260B	1/6/20 14:22	JTH	1/8/20 23:58	PDK	A
1,2,4-Trimethylbenzene	ND		ug/kg	23.5	SW846 8260B	1/6/20 14:22	JTH	1/8/20 23:58	PDK	A
1,3,5-Trimethylbenzene	ND		ug/kg	23.5	SW846 8260B	1/6/20 14:22	JTH	1/8/20 23:58	PDK	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	89.7		%	71 - 146	SW846 8260B	1/6/20 14:22	JTH	1/8/20 23:58	PDK	A
4-Bromofluorobenzene (S)	97.3		%	46 - 138	SW846 8260B	1/6/20 14:22	JTH	1/8/20 23:58	PDK	A
Dibromofluoromethane (S)	78.8		%	42 - 143	SW846 8260B	1/6/20 14:22	JTH	1/8/20 23:58	PDK	A
Toluene-d8 (S)	94.2		%	54 - 141	SW846 8260B	1/6/20 14:22	JTH	1/8/20 23:58	PDK	A
WET CHEMISTRY										
Moisture	3.6		%	0.1	S2540G-11			1/9/20 08:00	AXD	B
Total Solids	96.4		%	0.1	S2540G-11			1/9/20 08:00	AXD	B

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ANALYTICAL RESULTS

Workorder: 3079218 Quinn's Cafe' Stop/2171853

Lab ID: **3079218008** Date Collected: 1/6/2020 14:26 Matrix: Solid

Sample ID: **116-0106-TB24B** Date Received: 1/8/2020 08:44

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/kg	34.7	SW846 8260B	1/6/20 14:26	JTH	1/9/20 00:19	PDK	A
Ethylbenzene	ND		ug/kg	34.7	SW846 8260B	1/6/20 14:26	JTH	1/9/20 00:19	PDK	A
Isopropylbenzene	ND		ug/kg	34.7	SW846 8260B	1/6/20 14:26	JTH	1/9/20 00:19	PDK	A
Methyl t-Butyl Ether	ND		ug/kg	34.7	SW846 8260B	1/6/20 14:26	JTH	1/9/20 00:19	PDK	A
Naphthalene	ND		ug/kg	69.5	SW846 8260B	1/6/20 14:26	JTH	1/9/20 00:19	PDK	A
Toluene	76.8		ug/kg	34.7	SW846 8260B	1/6/20 14:26	JTH	1/9/20 00:19	PDK	A
1,2,4-Trimethylbenzene	ND		ug/kg	34.7	SW846 8260B	1/6/20 14:26	JTH	1/9/20 00:19	PDK	A
1,3,5-Trimethylbenzene	ND		ug/kg	34.7	SW846 8260B	1/6/20 14:26	JTH	1/9/20 00:19	PDK	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	93.4		%	71 - 146	SW846 8260B	1/6/20 14:26	JTH	1/9/20 00:19	PDK	A
4-Bromofluorobenzene (S)	105		%	46 - 138	SW846 8260B	1/6/20 14:26	JTH	1/9/20 00:19	PDK	A
Dibromofluoromethane (S)	83.2		%	42 - 143	SW846 8260B	1/6/20 14:26	JTH	1/9/20 00:19	PDK	A
Toluene-d8 (S)	97.8		%	54 - 141	SW846 8260B	1/6/20 14:26	JTH	1/9/20 00:19	PDK	A
WET CHEMISTRY										
Moisture	15.1		%	0.1	S2540G-11			1/9/20 08:00	AXD	B
Total Solids	84.9		%	0.1	S2540G-11			1/9/20 08:00	AXD	B

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ANALYTICAL RESULTS

Workorder: 3079218 Quinn's Cafe' Stop/2171853

Lab ID: **3079218009** Date Collected: 1/6/2020 10:18 Matrix: Solid

Sample ID: **116-0106-TB25A** Date Received: 1/8/2020 08:44

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/kg	30.3	SW846 8260B	1/6/20 10:18	JTH	1/9/20 00:41	PDK	A
Ethylbenzene	ND		ug/kg	30.3	SW846 8260B	1/6/20 10:18	JTH	1/9/20 00:41	PDK	A
Isopropylbenzene	ND		ug/kg	30.3	SW846 8260B	1/6/20 10:18	JTH	1/9/20 00:41	PDK	A
Methyl t-Butyl Ether	ND		ug/kg	30.3	SW846 8260B	1/6/20 10:18	JTH	1/9/20 00:41	PDK	A
Naphthalene	ND		ug/kg	60.5	SW846 8260B	1/6/20 10:18	JTH	1/9/20 00:41	PDK	A
Toluene	ND		ug/kg	30.3	SW846 8260B	1/6/20 10:18	JTH	1/9/20 00:41	PDK	A
1,2,4-Trimethylbenzene	ND		ug/kg	30.3	SW846 8260B	1/6/20 10:18	JTH	1/9/20 00:41	PDK	A
1,3,5-Trimethylbenzene	ND		ug/kg	30.3	SW846 8260B	1/6/20 10:18	JTH	1/9/20 00:41	PDK	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	94.9		%	71 - 146	SW846 8260B	1/6/20 10:18	JTH	1/9/20 00:41	PDK	A
4-Bromofluorobenzene (S)	107		%	46 - 138	SW846 8260B	1/6/20 10:18	JTH	1/9/20 00:41	PDK	A
Dibromofluoromethane (S)	81		%	42 - 143	SW846 8260B	1/6/20 10:18	JTH	1/9/20 00:41	PDK	A
Toluene-d8 (S)	99.6		%	54 - 141	SW846 8260B	1/6/20 10:18	JTH	1/9/20 00:41	PDK	A
WET CHEMISTRY										
Moisture	7.6		%	0.1	S2540G-11			1/9/20 08:00	AXD	B
Total Solids	92.4		%	0.1	S2540G-11			1/9/20 08:00	AXD	B

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ANALYTICAL RESULTS

Workorder: 3079218 Quinn's Cafe' Stop/2171853

Lab ID: **3079218010** Date Collected: 1/6/2020 10:29 Matrix: Solid

Sample ID: **116-0106-TB25B** Date Received: 1/8/2020 08:44

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	*Cntr*
VOLATILE ORGANICS										
Benzene	61.8		ug/kg	41.1	SW846 8260B	1/6/20 10:29	JTH	1/9/20 01:03	PDK	A
Ethylbenzene	8960		ug/kg	206	SW846 8260B	1/6/20 10:29	JTH	1/10/20 04:06	PDK	A
Isopropylbenzene	1690		ug/kg	41.1	SW846 8260B	1/6/20 10:29	JTH	1/9/20 01:03	PDK	A
Methyl t-Butyl Ether	ND		ug/kg	41.1	SW846 8260B	1/6/20 10:29	JTH	1/9/20 01:03	PDK	A
Naphthalene	7760		ug/kg	411	SW846 8260B	1/6/20 10:29	JTH	1/10/20 04:06	PDK	A
Toluene	107		ug/kg	41.1	SW846 8260B	1/6/20 10:29	JTH	1/9/20 01:03	PDK	A
1,2,4-Trimethylbenzene	34500		ug/kg	206	SW846 8260B	1/6/20 10:29	JTH	1/10/20 04:06	PDK	A
1,3,5-Trimethylbenzene	687		ug/kg	41.1	SW846 8260B	1/6/20 10:29	JTH	1/9/20 01:03	PDK	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	91		%	71 - 146	SW846 8260B	1/6/20 10:29	JTH	1/9/20 01:03	PDK	A
1,2-Dichloroethane-d4 (S)	86.8		%	71 - 146	SW846 8260B	1/6/20 10:29	JTH	1/10/20 04:06	PDK	A
4-Bromofluorobenzene (S)	78.6		%	46 - 138	SW846 8260B	1/6/20 10:29	JTH	1/10/20 04:06	PDK	A
4-Bromofluorobenzene (S)	95.4		%	46 - 138	SW846 8260B	1/6/20 10:29	JTH	1/9/20 01:03	PDK	A
Dibromofluoromethane (S)	59.1		%	42 - 143	SW846 8260B	1/6/20 10:29	JTH	1/10/20 04:06	PDK	A
Dibromofluoromethane (S)	73.9		%	42 - 143	SW846 8260B	1/6/20 10:29	JTH	1/9/20 01:03	PDK	A
Toluene-d8 (S)	74.2		%	54 - 141	SW846 8260B	1/6/20 10:29	JTH	1/10/20 04:06	PDK	A
Toluene-d8 (S)	87.7		%	54 - 141	SW846 8260B	1/6/20 10:29	JTH	1/9/20 01:03	PDK	A
WET CHEMISTRY										
Moisture	24.2		%	0.1	S2540G-11			1/9/20 08:00	AXD	B
Total Solids	75.8		%	0.1	S2540G-11			1/9/20 08:00	AXD	B

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ANALYTICAL RESULTS

Workorder: 3079218 Quinn's Cafe' Stop/2171853

Lab ID: **3079218011** Date Collected: 1/6/2020 11:35 Matrix: Solid

Sample ID: **116-0106-TB26A** Date Received: 1/8/2020 08:44

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/kg	31.3	SW846 8260B	1/6/20 11:35	JTH	1/9/20 01:25	PDK	A
Ethylbenzene	32.9		ug/kg	31.3	SW846 8260B	1/6/20 11:35	JTH	1/9/20 01:25	PDK	A
Isopropylbenzene	ND		ug/kg	31.3	SW846 8260B	1/6/20 11:35	JTH	1/9/20 01:25	PDK	A
Methyl t-Butyl Ether	ND		ug/kg	31.3	SW846 8260B	1/6/20 11:35	JTH	1/9/20 01:25	PDK	A
Naphthalene	203		ug/kg	62.7	SW846 8260B	1/6/20 11:35	JTH	1/9/20 01:25	PDK	A
Toluene	35.6		ug/kg	31.3	SW846 8260B	1/6/20 11:35	JTH	1/9/20 01:25	PDK	A
1,2,4-Trimethylbenzene	135		ug/kg	31.3	SW846 8260B	1/6/20 11:35	JTH	1/9/20 01:25	PDK	A
1,3,5-Trimethylbenzene	ND		ug/kg	31.3	SW846 8260B	1/6/20 11:35	JTH	1/9/20 01:25	PDK	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	94.7		%	71 - 146	SW846 8260B	1/6/20 11:35	JTH	1/9/20 01:25	PDK	A
4-Bromofluorobenzene (S)	104		%	46 - 138	SW846 8260B	1/6/20 11:35	JTH	1/9/20 01:25	PDK	A
Dibromofluoromethane (S)	82.6		%	42 - 143	SW846 8260B	1/6/20 11:35	JTH	1/9/20 01:25	PDK	A
Toluene-d8 (S)	98.9		%	54 - 141	SW846 8260B	1/6/20 11:35	JTH	1/9/20 01:25	PDK	A
WET CHEMISTRY										
Moisture	8.2		%	0.1	S2540G-11			1/9/20 08:00	AXD	B
Total Solids	91.8		%	0.1	S2540G-11			1/9/20 08:00	AXD	B

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ANALYTICAL RESULTS

Workorder: 3079218 Quinn's Cafe' Stop/2171853

Lab ID: **3079218012** Date Collected: 1/6/2020 11:51 Matrix: Solid

Sample ID: **116-0106-TB26B** Date Received: 1/8/2020 08:44

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	198		ug/kg	53.7	SW846 8260B	1/6/20 11:51	JTH	1/9/20 01:47	PDK	A
Ethylbenzene	8090		ug/kg	53.7	SW846 8260B	1/6/20 11:51	JTH	1/9/20 01:47	PDK	A
Isopropylbenzene	3340		ug/kg	53.7	SW846 8260B	1/6/20 11:51	JTH	1/9/20 01:47	PDK	A
Methyl t-Butyl Ether	ND		ug/kg	53.7	SW846 8260B	1/6/20 11:51	JTH	1/9/20 01:47	PDK	A
Naphthalene	18300		ug/kg	537	SW846 8260B	1/6/20 11:51	JTH	1/10/20 04:28	PDK	A
Toluene	148		ug/kg	53.7	SW846 8260B	1/6/20 11:51	JTH	1/9/20 01:47	PDK	A
1,2,4-Trimethylbenzene	47700		ug/kg	268	SW846 8260B	1/6/20 11:51	JTH	1/10/20 04:28	PDK	A
1,3,5-Trimethylbenzene	ND		ug/kg	53.7	SW846 8260B	1/6/20 11:51	JTH	1/9/20 01:47	PDK	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	66.5	1	%	71 - 146	SW846 8260B	1/6/20 11:51	JTH	1/10/20 04:28	PDK	A
1,2-Dichloroethane-d4 (S)	71.9		%	71 - 146	SW846 8260B	1/6/20 11:51	JTH	1/9/20 01:47	PDK	A
4-Bromofluorobenzene (S)	66.1		%	46 - 138	SW846 8260B	1/6/20 11:51	JTH	1/9/20 01:47	PDK	A
4-Bromofluorobenzene (S)	59.3		%	46 - 138	SW846 8260B	1/6/20 11:51	JTH	1/10/20 04:28	PDK	A
Dibromofluoromethane (S)	49.9		%	42 - 143	SW846 8260B	1/6/20 11:51	JTH	1/10/20 04:28	PDK	A
Dibromofluoromethane (S)	58.6		%	42 - 143	SW846 8260B	1/6/20 11:51	JTH	1/9/20 01:47	PDK	A
Toluene-d8 (S)	69.1		%	54 - 141	SW846 8260B	1/6/20 11:51	JTH	1/9/20 01:47	PDK	A
Toluene-d8 (S)	59.1		%	54 - 141	SW846 8260B	1/6/20 11:51	JTH	1/10/20 04:28	PDK	A
WET CHEMISTRY										
Moisture	32.8		%	0.1	S2540G-11			1/9/20 08:00	AXD	B
Total Solids	67.2		%	0.1	S2540G-11			1/9/20 08:00	AXD	B

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ANALYTICAL RESULTS

Workorder: 3079218 Quinn's Cafe' Stop/2171853

Lab ID: **3079218013** Date Collected: 1/6/2020 14:55 Matrix: Solid

Sample ID: **116-0106-OFFROAD** Date Received: 1/8/2020 08:44

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/kg	22.5	SW846 8260B	1/6/20 14:55	JTH	1/9/20 02:09	PDK	A
Ethylbenzene	ND		ug/kg	22.5	SW846 8260B	1/6/20 14:55	JTH	1/9/20 02:09	PDK	A
Isopropylbenzene	ND		ug/kg	22.5	SW846 8260B	1/6/20 14:55	JTH	1/9/20 02:09	PDK	A
Methyl t-Butyl Ether	ND		ug/kg	22.5	SW846 8260B	1/6/20 14:55	JTH	1/9/20 02:09	PDK	A
Naphthalene	288		ug/kg	45.0	SW846 8260B	1/6/20 14:55	JTH	1/9/20 02:09	PDK	A
Toluene	ND		ug/kg	22.5	SW846 8260B	1/6/20 14:55	JTH	1/9/20 02:09	PDK	A
1,2,4-Trimethylbenzene	106		ug/kg	22.5	SW846 8260B	1/6/20 14:55	JTH	1/9/20 02:09	PDK	A
1,3,5-Trimethylbenzene	ND		ug/kg	22.5	SW846 8260B	1/6/20 14:55	JTH	1/9/20 02:09	PDK	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	96.4		%	71 - 146	SW846 8260B	1/6/20 14:55	JTH	1/9/20 02:09	PDK	A
4-Bromofluorobenzene (S)	103		%	46 - 138	SW846 8260B	1/6/20 14:55	JTH	1/9/20 02:09	PDK	A
Dibromofluoromethane (S)	82.3		%	42 - 143	SW846 8260B	1/6/20 14:55	JTH	1/9/20 02:09	PDK	A
Toluene-d8 (S)	96.7		%	54 - 141	SW846 8260B	1/6/20 14:55	JTH	1/9/20 02:09	PDK	A
WET CHEMISTRY										
Moisture	4.3		%	0.1	S2540G-11			1/9/20 08:00	AXD	B
Total Solids	95.7		%	0.1	S2540G-11			1/9/20 08:00	AXD	B

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ANALYTICAL RESULTS

Workorder: 3079218 Quinn's Cafe' Stop/2171853

Lab ID: **3079218014** Date Collected: 1/6/2020 10:11 Matrix: Solid

Sample ID: **116-0106-DIESEL** Date Received: 1/8/2020 08:44

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/kg	44.9	SW846 8260B	1/6/20 10:11	JTH	1/9/20 02:31	PDK	A
Ethylbenzene	ND		ug/kg	44.9	SW846 8260B	1/6/20 10:11	JTH	1/9/20 02:31	PDK	A
Isopropylbenzene	ND		ug/kg	44.9	SW846 8260B	1/6/20 10:11	JTH	1/9/20 02:31	PDK	A
Methyl t-Butyl Ether	ND		ug/kg	44.9	SW846 8260B	1/6/20 10:11	JTH	1/9/20 02:31	PDK	A
Naphthalene	101		ug/kg	89.8	SW846 8260B	1/6/20 10:11	JTH	1/9/20 02:31	PDK	A
Toluene	ND		ug/kg	44.9	SW846 8260B	1/6/20 10:11	JTH	1/9/20 02:31	PDK	A
1,2,4-Trimethylbenzene	72.1		ug/kg	44.9	SW846 8260B	1/6/20 10:11	JTH	1/9/20 02:31	PDK	A
1,3,5-Trimethylbenzene	ND		ug/kg	44.9	SW846 8260B	1/6/20 10:11	JTH	1/9/20 02:31	PDK	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	90.7		%	71 - 146	SW846 8260B	1/6/20 10:11	JTH	1/9/20 02:31	PDK	A
4-Bromofluorobenzene (S)	98.9		%	46 - 138	SW846 8260B	1/6/20 10:11	JTH	1/9/20 02:31	PDK	A
Dibromofluoromethane (S)	79.4		%	42 - 143	SW846 8260B	1/6/20 10:11	JTH	1/9/20 02:31	PDK	A
Toluene-d8 (S)	96.1		%	54 - 141	SW846 8260B	1/6/20 10:11	JTH	1/9/20 02:31	PDK	A
WET CHEMISTRY										
Moisture	7.1		%	0.1	S2540G-11			1/9/20 08:00	AXD	B
Total Solids	92.9		%	0.1	S2540G-11			1/9/20 08:00	AXD	B

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ANALYTICAL RESULTS

Workorder: 3079218 Quinn's Cafe' Stop/2171853

PARAMETER QUALIFIERS

Lab ID	#	Sample ID	Analytical Method	Analyte
3079218012	1	116-0106-TB26B	SW846 8260B	1,2-Dichloroethane-d4

The surrogate 1,2-Dichloroethane-d4 for method SW846 8260B was outside of control limits. The % Recovery was reported as 66.5 and the control limits were 71 to 146. This result was reported at a dilution of 250.

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ANALYSIS - PREP METHOD CROSS REFERENCE TABLE

Workorder: 3079218 Quinn's Cafe' Stop/2171853

Lab ID	Sample ID	Analysis Method	Prep Method
3079218001	116-0106-TB21A	S2540G-11	
3079218001	116-0106-TB21A	SW846 8260B	SW846 5035
3079218002	116-0106-TB21B	S2540G-11	
3079218002	116-0106-TB21B	SW846 8260B	SW846 5035
3079218003	116-0106-TB22A	S2540G-11	
3079218003	116-0106-TB22A	SW846 8260B	SW846 5035
3079218004	116-0106-TB22B	S2540G-11	
3079218004	116-0106-TB22B	SW846 8260B	SW846 5035
3079218005	116-0106-TB23A	S2540G-11	
3079218005	116-0106-TB23A	SW846 8260B	SW846 5035
3079218006	116-0106-TB23B	S2540G-11	
3079218006	116-0106-TB23B	SW846 8260B	SW846 5035
3079218007	116-0106-TB24A	S2540G-11	
3079218007	116-0106-TB24A	SW846 8260B	SW846 5035
3079218008	116-0106-TB24B	S2540G-11	
3079218008	116-0106-TB24B	SW846 8260B	SW846 5035
3079218009	116-0106-TB25A	S2540G-11	
3079218009	116-0106-TB25A	SW846 8260B	SW846 5035
3079218010	116-0106-TB25B	S2540G-11	
3079218010	116-0106-TB25B	SW846 8260B	SW846 5035
3079218011	116-0106-TB26A	S2540G-11	
3079218011	116-0106-TB26A	SW846 8260B	SW846 5035
3079218012	116-0106-TB26B	S2540G-11	
3079218012	116-0106-TB26B	SW846 8260B	SW846 5035
3079218013	116-0106-OFFROAD	S2540G-11	
3079218013	116-0106-OFFROAD	SW846 8260B	SW846 5035
3079218014	116-0106-DIESEL	S2540G-11	
3079218014	116-0106-DIESEL	SW846 8260B	SW846 5035

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CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

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

30792218

(completed by Receiving Lab)

Client Name: LaBella Associates P.C.
Address: 1000 Dunham Drive Suite B Dunmore, PA 18512
Contact: Martin Gilgallon
Phone#: (570) 487-1959
Project Name/#: Quino's Café Stop/2171853
Bill To: Lynn Hanichak

TAT: [X] Normal-Standard TAT is 10-12 business days. [ ] Rush-Subject to ALS approval and surcharges.
Date Required: Approved?
Email? [X]-Y mgilgallon@labellapc.com
Fax? [ ]-Y No.:

W.O. Temp: ____ Therm ID: ____
Courier/Tracking #:
Purchase Order #:
Project Comments:

ALS Field Services: □ Pickup □ Labor □ Composite Sampling □ Rental Equipment
Other:

	Sample Description/Location (as it will appear on the lab report)	Date Collected mm/dd/yy	Time hh:mm	*G or C	**Matrix	Container Type	Container Size	Preservative	Diesel Fuel	Moisture								Sample/COC Comments
						CG	CG											
						40mL	4oz											
						MeOH	NONE											
						ANALYSES/METHOD REQUESTED												
						Enter Number of Containers Per Sample or Field Results Below.												
1	116-0106-TB21A	1/6/20	1310	G	SO	1	1											
2	116-0106-TB21B	1/6/20	1320	G	SO	1	1											
3	116-0106-TB22A	1/6/20	1054	G	SO	1	1											
4	116-0106-TB22B	1/6/20	1103	G	SO	1	1											
5	116-0106-TB23A	1/6/20	1352	G	SO	1	1											
6	116-0106-TB23B	1/6/20	1401	G	SO	1	1											
7	116-0106-TB24A	1/6/20	1422	G	SO	1	1											
8	116-0106-TB24B	1/6/20	1426	G	SO	1	1											
9	116-0106-TB25A	1/6/20	1018	G	SO	1	1											
10	116-0106-TB25B	1/6/20	1029	G	SO	1	1											

SAMPLED BY (Please Print): Chris Herman

Sampler Comments:

Relinquished By / Company Name	Date	Time	Received By / Company Name	Date	Time
1 Chris Herman / LaBella	1/7/20	1230	2 FedEx 8149-6409-1031	1/7/20	1230
3 FedEx			4 [illegible]	1/8/20	8:41
5			6		
7			8		
9			10		

Data Deliverables: [X] Standard [ ] CLP-like [ ] USACE/DOD [ ]
Special Processing: USACE [ ] Navy [ ]
State Samples Collected In: [ ] NY [ ] NJ [X] PA [ ] NC [ ]
Reportable to PADEP? Yes [ ] No [ ] PWSID # ____
Sample Disposal: Lab [ ] Special [ ]
EDDS: Format Type- ____

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

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F. 717-944-1430

CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

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

COC #: 3079218 — 2 of 2
ALS Quote #:

Client Name: LaBella Associates P.C.
Address: 1000 Dunham Drive Suite B Dunmore, PA 18512
Contact: Martin Gilgallon
Phone#: (570) 487-1959
Project Name/#: Quinn's Cafe Stop / 2171853
Bill To: Lynn Hanichak
TAT: [X] Normal-Standard TAT is 10-12 business days. [ ] Rush-Subject to ALS approval and surcharges.
Date Required: Approved?
Email? [X] -Y mgilgallon@labellapc.com
Fax? [ ] -Y No.:

Receipt Information (completed by Receiving Lab)
W.O. Temp: ____ Therm ID: ____
Courier/Tracking #:
Purchase Order #:
Project Comments:

ALS Field Services: ☐ Pickup ☐ Labor ☐ Composite Sampling ☐ Rental Equipment
Other:

ANALYSES/METHOD REQUESTED

	Sample Description/Location (as it will appear on the lab report)	Date Collected mm/dd/yy	Time hh:mm	*G or C	**Matrix	Container Type										Container Size										Preservative										Diesel Fuel	Moisture									Sample/COC Comments
						CG	CG									40mL	4oz									MeOH	None																			
						Enter Number of Containers Per Sample or Field Results Below.																																										
1	116-0106-TB26A	1/6/20	1135	G	SO	1	1																																					
2	116-0106-TB26B	1/6/20	1151	G	SO	1	1																																					
3	116-0106-OFFROAD	1/6/20	1455	G	SO	1	1																																					
4	116-0106-DIESEL	1/7/20	1011	G	SO	1	1																																					
5																																											
6																																											
7																																											
8																																											
9																																											
10																																											

SAMPLED BY (Please Print): Chris Herman
Sampler Comments:

Data Deliverables: [X] Standard [ ] CLP-like [ ] USACE/DOD [ ]
Special Processing: USACE [ ] Navy [ ]
State Samples Collected In: [ ] NY [ ] NJ [X] PA [ ] NC [ ] [ ] other

Relinquished By / Company Name	Date	Time	Received By / Company Name	Date	Time
1 Chris Herman / LaBella	1/7/20	1230	2 FedEx 8149-6409-1031	1/7/20	1230
3 FedEx			4 [signature]	1/8/2020	8:41
5			6		
7			8		
9			10		

Reportable to PADEP? Yes [ ] No [ ]
PWSID # ____
Sample Disposal: Lab [ ] Special [ ]
EDDS: Format Type- ____

* G=Grab; C=Composite
**Matrix - AI=Air; DW=Drinking Water; GW=Groundwater; OI=Oil; OL=Other Liquid; SL=Sludge; SO=Soil; WP=Wipe; WW=Wastewater

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Condition of Sample Receipt Form

Client: Labella Work Order #: 3079218 Initials: DN Date: 1/8

1. Were airbills / tracking numbers present and recorded?	NONE	(YES)	NO
Tracking number: 8149 6409 1031			
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 #: _____

Temperature (°C): 2

Thermometer ID: 314

Radiological (µCi): _____

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

Rev. 4/29/2019

ATTACHMENT L-2

Laboratory Analytical Data Sheets

Soil Sampling Activities – April 2020

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April 28, 2020

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

Certificate of Analysis

Revised Report - 4/28/2020 12:05:57 PM - See workorder comment section for explanation

Project Name:	**2020: PRIMARY PROFILE**	Workorder:	**3098089**
Purchase Order:		Workorder ID:	**Quinn's / 2171853**

Dear Mr. Gilgallon:

Enclosed are the analytical results for samples received by the laboratory on Tuesday, April 21, 2020.

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.

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

CC: Mr. Kevin Cucura

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

Amy K Borden

Ms. Amy K Borden
Project Coordinator

ALS Environmental

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SAMPLE SUMMARY

Workorder: 3098089 Quinn's / 2171853

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
3098089001	1853-0420-TB27A	Solid	4/20/2020 09:13	4/21/2020 08:38	Collected by Client
3098089002	1853-0420-TB27B	Solid	4/20/2020 09:27	4/21/2020 08:38	Collected by Client
3098089003	1853-0420-TB28A	Solid	4/20/2020 10:08	4/21/2020 08:38	Collected by Client
3098089004	1853-0420-TB28B	Solid	4/20/2020 10:18	4/21/2020 08:38	Collected by Client
3098089005	1853-0420-TB29A	Solid	4/20/2020 10:53	4/21/2020 08:38	Collected by Client
3098089006	1853-0420-TB29B	Solid	4/20/2020 10:59	4/21/2020 08:38	Collected by Client
3098089007	1853-0420-TB30A	Solid	4/20/2020 11:40	4/21/2020 08:38	Collected by Client
3098089008	1853-0420-TB30B	Solid	4/20/2020 12:00	4/21/2020 08:38	Collected by Client
3098089009	1853-0420-TB31A	Solid	4/20/2020 13:03	4/21/2020 08:38	Collected by Client
3098089010	1853-0420-TB31B	Solid	4/20/2020 13:09	4/21/2020 08:38	Collected by Client

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SAMPLE SUMMARY

Workorder: 3098089 Quinn's / 2171853

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 preformed 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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PROJECT SUMMARY

Workorder: 3098089 Quinn's / 2171853

Workorder Comments

Report modified to correct compound list. AKB 04/28/2020

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ANALYTICAL RESULTS

Workorder: 3098089 Quinn's / 2171853

Lab ID: **3098089001** Date Collected: 4/20/2020 09:13 Matrix: Solid

Sample ID: **1853-0420-TB27A** Date Received: 4/21/2020 08:38

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/kg	36.7	SW846 8260B	4/20/20 09:13	DPC	4/22/20 15:19	DPC	A
Ethylbenzene	ND		ug/kg	36.7	SW846 8260B	4/20/20 09:13	DPC	4/22/20 15:19	DPC	A
Isopropylbenzene	ND		ug/kg	36.7	SW846 8260B	4/20/20 09:13	DPC	4/22/20 15:19	DPC	A
Methyl t-Butyl Ether	ND		ug/kg	36.7	SW846 8260B	4/20/20 09:13	DPC	4/22/20 15:19	DPC	A
Naphthalene	ND	2,3,4	ug/kg	73.3	SW846 8260B	4/20/20 09:13	DPC	4/22/20 15:19	DPC	A
Toluene	ND		ug/kg	36.7	SW846 8260B	4/20/20 09:13	DPC	4/22/20 15:19	DPC	A
1,2,4-Trimethylbenzene	ND	10,8,9	ug/kg	36.7	SW846 8260B	4/20/20 09:13	DPC	4/22/20 15:19	DPC	A
1,3,5-Trimethylbenzene	ND	6,7	ug/kg	36.7	SW846 8260B	4/20/20 09:13	DPC	4/22/20 15:19	DPC	A

Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	124		%	71 - 146	SW846 8260B	4/20/20 09:13	DPC	4/22/20 15:19	DPC	A
4-Bromofluorobenzene (S)	141	1	%	46 - 138	SW846 8260B	4/20/20 09:13	DPC	4/22/20 15:19	DPC	A
Dibromofluoromethane (S)	113		%	42 - 143	SW846 8260B	4/20/20 09:13	DPC	4/22/20 15:19	DPC	A
Toluene-d8 (S)	138		%	54 - 141	SW846 8260B	4/20/20 09:13	DPC	4/22/20 15:19	DPC	A

WET CHEMISTRY										
Moisture	15.4		%	0.1	S2540G-11			4/22/20 07:00	AXD	C
Total Solids	84.6		%	0.1	S2540G-11			4/22/20 07:00	AXD	C

Ms. Amy K Borden
Project Coordinator

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ANALYTICAL RESULTS

Workorder: 3098089 Quinn's / 2171853

Lab ID: **3098089002** Date Collected: 4/20/2020 09:27 Matrix: Solid

Sample ID: **1853-0420-TB27B** Date Received: 4/21/2020 08:38

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/kg	34.7	SW846 8260B	4/20/20 09:27	DPC	4/22/20 15:42	DPC	A
Ethylbenzene	ND		ug/kg	34.7	SW846 8260B	4/20/20 09:27	DPC	4/22/20 15:42	DPC	A
Isopropylbenzene	ND		ug/kg	34.7	SW846 8260B	4/20/20 09:27	DPC	4/22/20 15:42	DPC	A
Methyl t-Butyl Ether	ND		ug/kg	34.7	SW846 8260B	4/20/20 09:27	DPC	4/22/20 15:42	DPC	A
Naphthalene	ND		ug/kg	69.4	SW846 8260B	4/20/20 09:27	DPC	4/22/20 15:42	DPC	A
Toluene	ND		ug/kg	34.7	SW846 8260B	4/20/20 09:27	DPC	4/22/20 15:42	DPC	A
1,2,4-Trimethylbenzene	ND		ug/kg	34.7	SW846 8260B	4/20/20 09:27	DPC	4/22/20 15:42	DPC	A
1,3,5-Trimethylbenzene	ND		ug/kg	34.7	SW846 8260B	4/20/20 09:27	DPC	4/22/20 15:42	DPC	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	108		%	71 - 146	SW846 8260B	4/20/20 09:27	DPC	4/22/20 15:42	DPC	A
4-Bromofluorobenzene (S)	120		%	46 - 138	SW846 8260B	4/20/20 09:27	DPC	4/22/20 15:42	DPC	A
Dibromofluoromethane (S)	99.1		%	42 - 143	SW846 8260B	4/20/20 09:27	DPC	4/22/20 15:42	DPC	A
Toluene-d8 (S)	113		%	54 - 141	SW846 8260B	4/20/20 09:27	DPC	4/22/20 15:42	DPC	A
WET CHEMISTRY										
Moisture	20.5		%	0.1	S2540G-11			4/22/20 07:00	AXD	C
Total Solids	79.5		%	0.1	S2540G-11			4/22/20 07:00	AXD	C

Ms. Amy K Borden
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ANALYTICAL RESULTS

Workorder: 3098089 Quinn's / 2171853

Lab ID: **3098089003** Date Collected: 4/20/2020 10:08 Matrix: Solid

Sample ID: **1853-0420-TB28A** Date Received: 4/21/2020 08:38

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/kg	28.9	SW846 8260B	4/20/20 10:08	DPC	4/22/20 16:04	DPC	A
Ethylbenzene	ND		ug/kg	28.9	SW846 8260B	4/20/20 10:08	DPC	4/22/20 16:04	DPC	A
Isopropylbenzene	ND		ug/kg	28.9	SW846 8260B	4/20/20 10:08	DPC	4/22/20 16:04	DPC	A
Methyl t-Butyl Ether	ND		ug/kg	28.9	SW846 8260B	4/20/20 10:08	DPC	4/22/20 16:04	DPC	A
Naphthalene	ND		ug/kg	57.7	SW846 8260B	4/20/20 10:08	DPC	4/22/20 16:04	DPC	A
Toluene	ND		ug/kg	28.9	SW846 8260B	4/20/20 10:08	DPC	4/22/20 16:04	DPC	A
1,2,4-Trimethylbenzene	ND		ug/kg	28.9	SW846 8260B	4/20/20 10:08	DPC	4/22/20 16:04	DPC	A
1,3,5-Trimethylbenzene	ND		ug/kg	28.9	SW846 8260B	4/20/20 10:08	DPC	4/22/20 16:04	DPC	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	122		%	71 - 146	SW846 8260B	4/20/20 10:08	DPC	4/22/20 16:04	DPC	A
4-Bromofluorobenzene (S)	133		%	46 - 138	SW846 8260B	4/20/20 10:08	DPC	4/22/20 16:04	DPC	A
Dibromofluoromethane (S)	110		%	42 - 143	SW846 8260B	4/20/20 10:08	DPC	4/22/20 16:04	DPC	A
Toluene-d8 (S)	127		%	54 - 141	SW846 8260B	4/20/20 10:08	DPC	4/22/20 16:04	DPC	A
WET CHEMISTRY										
Moisture	12.5		%	0.1	S2540G-11			4/22/20 07:00	AXD	C
Total Solids	87.5		%	0.1	S2540G-11			4/22/20 07:00	AXD	C

Amy K Borden

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Project Coordinator

ALS Environmental

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ANALYTICAL RESULTS

Workorder: 3098089 Quinn's / 2171853

Lab ID: **3098089004** Date Collected: 4/20/2020 10:18 Matrix: Solid

Sample ID: **1853-0420-TB28B** Date Received: 4/21/2020 08:38

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/kg	32.0	SW846 8260B	4/20/20 10:18	DPC	4/23/20 16:54	DPC	A
1,2-Dibromoethane	ND		ug/kg	32.0	SW846 8260B	4/20/20 10:18	DPC	4/23/20 16:54	DPC	A
1,2-Dichloroethane	ND		ug/kg	32.0	SW846 8260B	4/20/20 10:18	DPC	4/23/20 16:54	DPC	A
Ethylbenzene	13000		ug/kg	640	SW846 8260B	4/20/20 10:18	TMP	4/24/20 14:01	TMP	A
Isopropylbenzene	2630		ug/kg	32.0	SW846 8260B	4/20/20 10:18	DPC	4/23/20 16:54	DPC	A
Methyl t-Butyl Ether	ND		ug/kg	32.0	SW846 8260B	4/20/20 10:18	DPC	4/23/20 16:54	DPC	A
Naphthalene	10400		ug/kg	1280	SW846 8260B	4/20/20 10:18	TMP	4/24/20 14:01	TMP	A
Toluene	86.0		ug/kg	32.0	SW846 8260B	4/20/20 10:18	DPC	4/23/20 16:54	DPC	A
1,2,4-Trimethylbenzene	112000		ug/kg	640	SW846 8260B	4/20/20 10:18	TMP	4/24/20 14:01	TMP	A
1,3,5-Trimethylbenzene	23400		ug/kg	640	SW846 8260B	4/20/20 10:18	TMP	4/24/20 14:01	TMP	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	113		%	71 - 146	SW846 8260B	4/20/20 10:18	DPC	4/23/20 16:54	DPC	A
1,2-Dichloroethane-d4 (S)	103		%	71 - 146	SW846 8260B	4/20/20 10:18	TMP	4/24/20 14:01	TMP	A
4-Bromofluorobenzene (S)	90.9		%	46 - 138	SW846 8260B	4/20/20 10:18	DPC	4/23/20 16:54	DPC	A
4-Bromofluorobenzene (S)	99.9		%	46 - 138	SW846 8260B	4/20/20 10:18	TMP	4/24/20 14:01	TMP	A
Dibromofluoromethane (S)	74.4		%	42 - 143	SW846 8260B	4/20/20 10:18	DPC	4/23/20 16:54	DPC	A
Dibromofluoromethane (S)	77.7		%	42 - 143	SW846 8260B	4/20/20 10:18	TMP	4/24/20 14:01	TMP	A
Toluene-d8 (S)	79.7		%	54 - 141	SW846 8260B	4/20/20 10:18	DPC	4/23/20 16:54	DPC	A
Toluene-d8 (S)	89.5		%	54 - 141	SW846 8260B	4/20/20 10:18	TMP	4/24/20 14:01	TMP	A
WET CHEMISTRY										
Moisture	19.0		%	0.1	S2540G-11			4/22/20 07:00	AXD	C
Total Solids	81.0		%	0.1	S2540G-11			4/22/20 07:00	AXD	C

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ANALYTICAL RESULTS

Workorder: 3098089 Quinn's / 2171853

Lab ID: **3098089005** Date Collected: 4/20/2020 10:53 Matrix: Solid

Sample ID: **1853-0420-TB29A** Date Received: 4/21/2020 08:38

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/kg	31.1	SW846 8260B	4/20/20 10:53	DPC	4/23/20 16:10	DPC	A
Ethylbenzene	53.4		ug/kg	31.1	SW846 8260B	4/20/20 10:53	DPC	4/23/20 16:10	DPC	A
Isopropylbenzene	ND		ug/kg	31.1	SW846 8260B	4/20/20 10:53	DPC	4/23/20 16:10	DPC	A
Methyl t-Butyl Ether	ND		ug/kg	31.1	SW846 8260B	4/20/20 10:53	DPC	4/23/20 16:10	DPC	A
Naphthalene	ND		ug/kg	62.1	SW846 8260B	4/20/20 10:53	DPC	4/23/20 16:10	DPC	A
Toluene	57.9		ug/kg	31.1	SW846 8260B	4/20/20 10:53	DPC	4/23/20 16:10	DPC	A
1,2,4-Trimethylbenzene	86.0		ug/kg	31.1	SW846 8260B	4/20/20 10:53	DPC	4/23/20 16:10	DPC	A
1,3,5-Trimethylbenzene	ND		ug/kg	31.1	SW846 8260B	4/20/20 10:53	DPC	4/23/20 16:10	DPC	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	127		%	71 - 146	SW846 8260B	4/20/20 10:53	DPC	4/23/20 16:10	DPC	A
4-Bromofluorobenzene (S)	136		%	46 - 138	SW846 8260B	4/20/20 10:53	DPC	4/23/20 16:10	DPC	A
Dibromofluoromethane (S)	113		%	42 - 143	SW846 8260B	4/20/20 10:53	DPC	4/23/20 16:10	DPC	A
Toluene-d8 (S)	133		%	54 - 141	SW846 8260B	4/20/20 10:53	DPC	4/23/20 16:10	DPC	A
WET CHEMISTRY										
Moisture	15.1		%	0.1	S2540G-11			4/22/20 07:00	AXD	C
Total Solids	84.9		%	0.1	S2540G-11			4/22/20 07:00	AXD	C

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ANALYTICAL RESULTS

Workorder: 3098089 Quinn's / 2171853

Lab ID: **3098089006** Date Collected: 4/20/2020 10:59 Matrix: Solid

Sample ID: **1853-0420-TB29B** Date Received: 4/21/2020 08:38

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/kg	30.5	SW846 8260B	4/20/20 10:59	DPC	4/23/20 16:32	DPC	A
Ethylbenzene	ND		ug/kg	30.5	SW846 8260B	4/20/20 10:59	DPC	4/23/20 16:32	DPC	A
Isopropylbenzene	ND		ug/kg	30.5	SW846 8260B	4/20/20 10:59	DPC	4/23/20 16:32	DPC	A
Methyl t-Butyl Ether	ND		ug/kg	30.5	SW846 8260B	4/20/20 10:59	DPC	4/23/20 16:32	DPC	A
Naphthalene	ND		ug/kg	60.9	SW846 8260B	4/20/20 10:59	DPC	4/23/20 16:32	DPC	A
Toluene	ND		ug/kg	30.5	SW846 8260B	4/20/20 10:59	DPC	4/23/20 16:32	DPC	A
1,2,4-Trimethylbenzene	49.6		ug/kg	30.5	SW846 8260B	4/20/20 10:59	DPC	4/23/20 16:32	DPC	A
1,3,5-Trimethylbenzene	ND		ug/kg	30.5	SW846 8260B	4/20/20 10:59	DPC	4/23/20 16:32	DPC	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	120		%	71 - 146	SW846 8260B	4/20/20 10:59	DPC	4/23/20 16:32	DPC	A
4-Bromofluorobenzene (S)	122		%	46 - 138	SW846 8260B	4/20/20 10:59	DPC	4/23/20 16:32	DPC	A
Dibromofluoromethane (S)	105		%	42 - 143	SW846 8260B	4/20/20 10:59	DPC	4/23/20 16:32	DPC	A
Toluene-d8 (S)	123		%	54 - 141	SW846 8260B	4/20/20 10:59	DPC	4/23/20 16:32	DPC	A
WET CHEMISTRY										
Moisture	16.3		%	0.1	S2540G-11			4/22/20 07:00	AXD	C
Total Solids	83.7		%	0.1	S2540G-11			4/22/20 07:00	AXD	C

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ANALYTICAL RESULTS

Workorder: 3098089 Quinn's / 2171853

Lab ID: **3098089007** Date Collected: 4/20/2020 11:40 Matrix: Solid

Sample ID: **1853-0420-TB30A** Date Received: 4/21/2020 08:38

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/kg	29.4	SW846 8260B	4/20/20 11:40	DPC	4/23/20 14:18	DPC	A
Ethylbenzene	ND		ug/kg	29.4	SW846 8260B	4/20/20 11:40	DPC	4/23/20 14:18	DPC	A
Isopropylbenzene	ND		ug/kg	29.4	SW846 8260B	4/20/20 11:40	DPC	4/23/20 14:18	DPC	A
Methyl t-Butyl Ether	ND		ug/kg	29.4	SW846 8260B	4/20/20 11:40	DPC	4/23/20 14:18	DPC	A
Naphthalene	ND		ug/kg	58.7	SW846 8260B	4/20/20 11:40	DPC	4/23/20 14:18	DPC	A
Toluene	ND		ug/kg	29.4	SW846 8260B	4/20/20 11:40	DPC	4/23/20 14:18	DPC	A
1,2,4-Trimethylbenzene	51.9		ug/kg	29.4	SW846 8260B	4/20/20 11:40	DPC	4/23/20 14:18	DPC	A
1,3,5-Trimethylbenzene	ND		ug/kg	29.4	SW846 8260B	4/20/20 11:40	DPC	4/23/20 14:18	DPC	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	112		%	71 - 146	SW846 8260B	4/20/20 11:40	DPC	4/23/20 14:18	DPC	A
4-Bromofluorobenzene (S)	125		%	46 - 138	SW846 8260B	4/20/20 11:40	DPC	4/23/20 14:18	DPC	A
Dibromofluoromethane (S)	101		%	42 - 143	SW846 8260B	4/20/20 11:40	DPC	4/23/20 14:18	DPC	A
Toluene-d8 (S)	116		%	54 - 141	SW846 8260B	4/20/20 11:40	DPC	4/23/20 14:18	DPC	A
WET CHEMISTRY										
Moisture	12.8		%	0.1	S2540G-11			4/22/20 07:00	AXD	C
Total Solids	87.2		%	0.1	S2540G-11			4/22/20 07:00	AXD	C

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ANALYTICAL RESULTS

Workorder: 3098089 Quinn's / 2171853

Lab ID: **3098089008** Date Collected: 4/20/2020 12:00 Matrix: Solid

Sample ID: **1853-0420-TB30B** Date Received: 4/21/2020 08:38

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/kg	215	SW846 8260B	4/20/20 12:00	DPC	4/23/20 14:40	DPC	A
1,2-Dibromoethane	ND		ug/kg	215	SW846 8260B	4/20/20 12:00	DPC	4/23/20 14:40	DPC	A
1,2-Dichloroethane	ND		ug/kg	215	SW846 8260B	4/20/20 12:00	DPC	4/23/20 14:40	DPC	A
Ethylbenzene	6100		ug/kg	215	SW846 8260B	4/20/20 12:00	DPC	4/23/20 14:40	DPC	A
Isopropylbenzene	1450		ug/kg	215	SW846 8260B	4/20/20 12:00	DPC	4/23/20 14:40	DPC	A
Methyl t-Butyl Ether	ND		ug/kg	215	SW846 8260B	4/20/20 12:00	DPC	4/23/20 14:40	DPC	A
Naphthalene	18800		ug/kg	430	SW846 8260B	4/20/20 12:00	DPC	4/23/20 14:40	DPC	A
Toluene	ND		ug/kg	215	SW846 8260B	4/20/20 12:00	DPC	4/23/20 14:40	DPC	A
Total Xylenes	8510		ug/kg	644	SW846 8260B	4/20/20 12:00	DPC	4/23/20 14:40	DPC	A
1,2,4-Trimethylbenzene	49400		ug/kg	859	SW846 8260B	4/20/20 12:00	TMP	4/24/20 14:23	TMP	A
1,3,5-Trimethylbenzene	ND		ug/kg	215	SW846 8260B	4/20/20 12:00	DPC	4/23/20 14:40	DPC	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	75		%	71 - 146	SW846 8260B	4/20/20 12:00	TMP	4/24/20 14:23	TMP	A
1,2-Dichloroethane-d4 (S)	114		%	71 - 146	SW846 8260B	4/20/20 12:00	DPC	4/23/20 14:40	DPC	A
4-Bromofluorobenzene (S)	82.3		%	46 - 138	SW846 8260B	4/20/20 12:00	TMP	4/24/20 14:23	TMP	A
4-Bromofluorobenzene (S)	114		%	46 - 138	SW846 8260B	4/20/20 12:00	DPC	4/23/20 14:40	DPC	A
Dibromofluoromethane (S)	71.7		%	42 - 143	SW846 8260B	4/20/20 12:00	TMP	4/24/20 14:23	TMP	A
Dibromofluoromethane (S)	108		%	42 - 143	SW846 8260B	4/20/20 12:00	DPC	4/23/20 14:40	DPC	A
Toluene-d8 (S)	73.6		%	54 - 141	SW846 8260B	4/20/20 12:00	TMP	4/24/20 14:23	TMP	A
Toluene-d8 (S)	110		%	54 - 141	SW846 8260B	4/20/20 12:00	DPC	4/23/20 14:40	DPC	A
WET CHEMISTRY										
Moisture	24.6		%	0.1	S2540G-11			4/22/20 07:00	AXD	C
Total Solids	75.4		%	0.1	S2540G-11			4/22/20 07:00	AXD	C

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ANALYTICAL RESULTS

Workorder: 3098089 Quinn's / 2171853

Lab ID: **3098089009** Date Collected: 4/20/2020 13:03 Matrix: Solid

Sample ID: **1853-0420-TB31A** Date Received: 4/21/2020 08:38

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/kg	34.4	SW846 8260B	4/20/20 13:03	DPC	4/23/20 15:03	DPC	A
Ethylbenzene	ND		ug/kg	34.4	SW846 8260B	4/20/20 13:03	DPC	4/23/20 15:03	DPC	A
Isopropylbenzene	ND		ug/kg	34.4	SW846 8260B	4/20/20 13:03	DPC	4/23/20 15:03	DPC	A
Methyl t-Butyl Ether	ND		ug/kg	34.4	SW846 8260B	4/20/20 13:03	DPC	4/23/20 15:03	DPC	A
Naphthalene	90.4		ug/kg	68.8	SW846 8260B	4/20/20 13:03	DPC	4/23/20 15:03	DPC	A
Toluene	ND		ug/kg	34.4	SW846 8260B	4/20/20 13:03	DPC	4/23/20 15:03	DPC	A
1,2,4-Trimethylbenzene	73.2		ug/kg	34.4	SW846 8260B	4/20/20 13:03	DPC	4/23/20 15:03	DPC	A
1,3,5-Trimethylbenzene	ND		ug/kg	34.4	SW846 8260B	4/20/20 13:03	DPC	4/23/20 15:03	DPC	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	129		%	71 - 146	SW846 8260B	4/20/20 13:03	DPC	4/23/20 15:03	DPC	A
4-Bromofluorobenzene (S)	136		%	46 - 138	SW846 8260B	4/20/20 13:03	DPC	4/23/20 15:03	DPC	A
Dibromofluoromethane (S)	116		%	42 - 143	SW846 8260B	4/20/20 13:03	DPC	4/23/20 15:03	DPC	A
Toluene-d8 (S)	131		%	54 - 141	SW846 8260B	4/20/20 13:03	DPC	4/23/20 15:03	DPC	A
WET CHEMISTRY										
Moisture	16.8		%	0.1	S2540G-11			4/22/20 07:00	AXD	C
Total Solids	83.2		%	0.1	S2540G-11			4/22/20 07:00	AXD	C

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ANALYTICAL RESULTS

Workorder: 3098089 Quinn's / 2171853

Lab ID: **3098089010** Date Collected: 4/20/2020 13:09 Matrix: Solid

Sample ID: **1853-0420-TB31B** Date Received: 4/21/2020 08:38

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	*Cntr*
VOLATILE ORGANICS										
Benzene	ND		ug/kg	57.1	SW846 8260B	4/20/20 13:09	DPC	4/23/20 15:25	DPC	A
Ethylbenzene	ND		ug/kg	57.1	SW846 8260B	4/20/20 13:09	DPC	4/23/20 15:25	DPC	A
Isopropylbenzene	ND		ug/kg	57.1	SW846 8260B	4/20/20 13:09	DPC	4/23/20 15:25	DPC	A
Methyl t-Butyl Ether	ND		ug/kg	57.1	SW846 8260B	4/20/20 13:09	DPC	4/23/20 15:25	DPC	A
Naphthalene	ND		ug/kg	114	SW846 8260B	4/20/20 13:09	DPC	4/23/20 15:25	DPC	A
Toluene	ND		ug/kg	57.1	SW846 8260B	4/20/20 13:09	DPC	4/23/20 15:25	DPC	A
1,2,4-Trimethylbenzene	ND		ug/kg	57.1	SW846 8260B	4/20/20 13:09	DPC	4/23/20 15:25	DPC	A
1,3,5-Trimethylbenzene	ND		ug/kg	57.1	SW846 8260B	4/20/20 13:09	DPC	4/23/20 15:25	DPC	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	99.4		%	71 - 146	SW846 8260B	4/20/20 13:09	DPC	4/23/20 15:25	DPC	A
4-Bromofluorobenzene (S)	110		%	46 - 138	SW846 8260B	4/20/20 13:09	DPC	4/23/20 15:25	DPC	A
Dibromofluoromethane (S)	89.8		%	42 - 143	SW846 8260B	4/20/20 13:09	DPC	4/23/20 15:25	DPC	A
Toluene-d8 (S)	104		%	54 - 141	SW846 8260B	4/20/20 13:09	DPC	4/23/20 15:25	DPC	A
WET CHEMISTRY										
Moisture	39.2		%	0.1	S2540G-11			4/22/20 07:00	AXD	C
Total Solids	60.8		%	0.1	S2540G-11			4/22/20 07:00	AXD	C

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ANALYTICAL RESULTS

Workorder: 3098089 Quinn's / 2171853

PARAMETER QUALIFIERS

Lab ID	#	Sample ID	Analytical Method	Analyte
3098089001	1	1853-0420-TB27A	SW846 8260B	4-Bromofluorobenzene
The surrogate 4-Bromofluorobenzene for method SW846 8260B was outside of control limits. The % Recovery was reported as 141 and the control limits were 46 to 138. This result was reported at a dilution of 50.				
3098089001	2	1853-0420-TB27A	SW846 8260B	Naphthalene
The QC sample type MS for method SW846 8260B was outside the control limits for the analyte Naphthalene. The % Recovery was reported as 273 and the control limits were 46 to 142.				
3098089001	3	1853-0420-TB27A	SW846 8260B	Naphthalene
The QC sample type MSD for method SW846 8260B was outside the control limits for the analyte Naphthalene. The % Recovery was reported as 160 and the control limits were 46 to 142.				
3098089001	4	1853-0420-TB27A	SW846 8260B	Naphthalene
The QC sample type MSD for method SW846 8260B was outside the control limits for the analyte Naphthalene. The RPD was reported as 52.1 and the upper control limit is 40.				
3098089001	6	1853-0420-TB27A	SW846 8260B	1,3,5-Trimethylbenzene
The QC sample type MS for method SW846 8260B was outside the control limits for the analyte 1,3,5-Trimethylbenzene. The % Recovery was reported as 210 and the control limits were 74 to 137.				
3098089001	7	1853-0420-TB27A	SW846 8260B	1,3,5-Trimethylbenzene
The QC sample type MSD for method SW846 8260B was outside the control limits for the analyte 1,3,5-Trimethylbenzene. The % Recovery was reported as 151 and the control limits were 74 to 137.				
3098089001	8	1853-0420-TB27A	SW846 8260B	1,2,4-Trimethylbenzene
The QC sample type MS for method SW846 8260B was outside the control limits for the analyte 1,2,4-Trimethylbenzene. The % Recovery was reported as 431 and the control limits were 75 to 134.				
3098089001	9	1853-0420-TB27A	SW846 8260B	1,2,4-Trimethylbenzene
The QC sample type MSD for method SW846 8260B was outside the control limits for the analyte 1,2,4-Trimethylbenzene. The % Recovery was reported as 211 and the control limits were 75 to 134.				
3098089001	10	1853-0420-TB27A	SW846 8260B	1,2,4-Trimethylbenzene
The QC sample type MSD for method SW846 8260B was outside the control limits for the analyte 1,2,4-Trimethylbenzene. The RPD was reported as 68.7 and the upper control limit is 40.				

ANALYSIS - PREP METHOD CROSS REFERENCE TABLE

Workorder: 3098089 Quinn's / 2171853

Lab ID	Sample ID	Analysis Method	Prep Method
3098089001	1853-0420-TB27A	S2540G-11	
3098089001	1853-0420-TB27A	SW846 8260B	SW846 5035
3098089002	1853-0420-TB27B	S2540G-11	
3098089002	1853-0420-TB27B	SW846 8260B	SW846 5035
3098089003	1853-0420-TB28A	S2540G-11	
3098089003	1853-0420-TB28A	SW846 8260B	SW846 5035
3098089004	1853-0420-TB28B	S2540G-11	
3098089004	1853-0420-TB28B	SW846 8260B	SW846 5035
3098089005	1853-0420-TB29A	S2540G-11	
3098089005	1853-0420-TB29A	SW846 8260B	SW846 5035
3098089006	1853-0420-TB29B	S2540G-11	
3098089006	1853-0420-TB29B	SW846 8260B	SW846 5035
3098089007	1853-0420-TB30A	S2540G-11	
3098089007	1853-0420-TB30A	SW846 8260B	SW846 5035
3098089008	1853-0420-TB30B	S2540G-11	
3098089008	1853-0420-TB30B	SW846 8260B	SW846 5035
3098089009	1853-0420-TB31A	S2540G-11	
3098089009	1853-0420-TB31A	SW846 8260B	SW846 5035
3098089010	1853-0420-TB31B	S2540G-11	
3098089010	1853-0420-TB31B	SW846 8260B	SW846 5035

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CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

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

COC ALS of

30980895

Client Name: LABELLA Associates, PC
Address: 1000 Dunham Drive - Suite B
Dunmore PA 18512
Contact: Martin Gallagher
Phone#: 570-487-1959
Project Name/#: Quinn's / 2171853
Bill To: APPA@labellapc.com
TAT: [x] Normal-Standard TAT is 10-12 business days. [ ] Rush-Subject to ALS approval and surcharges.
Date Required: Approved?
Email? [x] Y MGallagher@labellapc.com
Fax? [ ] Y No.:

W.O. Temp: ____ Therm ID: ____
Courier/Tracking #:
Purchase Order #:
Project Comments:

ALS Field Services: ☐ Pickup ☐ Labor ☐ Composite Sampling ☐ Rental Equipment
Other:

	Sample Description/Location (as it will appear on the lab report)	Date Collected mm/dd/yy	Time hh:mm	*G or C	**Matrix	Container Type	Container Size	Preservative	Diesel Fuel / Fuel Oil #2	Diesel Fuel / Fuel Oil #2								Sample/COC Comments
						CG	40ml	HCl										
						CG	4oz	None										
									ANALYSES/METHOD REQUESTED									
									Enter Number of Containers Per Sample or Field Results Below.									
1	1853-0420-TB27A	04/20/20	0913	G	SO				1	1								
2	1853-0420-TB27B	04/20/20	0927	G	SO				1	1								
3	1853-0420-TB28A	04/20/20	1008	G	SO				1	1								
4	1853-0420-TB28B	04/20/20	1018	G	SO				1	1								
5	1853-0420-TB29A	04/20/20	1053	G	SO				1	1								
6	1853-0420-TB29B	04/20/20	1059	G	SO				1	1								
7	1853-0420-TB30A	04/20/20	1140	G	SO				1	1								
8	1853-0420-TB30B	04/20/20	1200	G	SO				1	1								
9	1853-0420-TB31A	04/20/20	1303	G	SO				1	1								
10	1853-0420-TB31B	04/20/20	1309	G	SO				1	1								

SAMPLED BY (Please Print): Kevin Cucura / LABELLA

Sampler Comments:

Relinquished By / Company Name	Date	Time	Received By / Company Name	Date	Time
1 / LABELLA	4/20/20	1430	2 FedEx 8152 8248 0936	4.20.20	1430
3 FedEx			4	4/21/2020	838
5			6		
7			8		
9			10		

Data Deliverables: [x] Standard [ ] CLP-like [ ] USACE/DOD [ ]
Special Processing: USACE [ ] Navy [ ]
State Samples Collected In: [ ] NY [ ] NJ [x] PA [ ] NC
Reportable to PADEP? Yes [ ] No [ ]
Sample Disposal: Lab [ ] Special [ ]
PWSID #
EDDS: Format Type-

* G=Grab; C=Composite
**Matrix - AI=Air; DW=Drinking Water; GW=Groundwater; OI=Oil; OL=Other Liquid; SL=Sludge; SO=Soil; WP=Wipe; WW=Wastewater

ALS SHIPPING ADDRESS: 301 Fulling Mill Road, Middletown, PA 17057

Rev 11/18

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

Condition of Sample Receipt Form

Client: Labella | Work Order #: 3098069 | Initials: TS | Date: 4/1/20

1. Were airbills / tracking numbers present and recorded?	NONE	(YES)	NO
Tracking number: 8157 8428 0936			
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?[1]	(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 #: ____

Temperature (°C): 2

Thermometer ID: 441

Radiological (µCi): ____

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

[1]Final determination of correct preservation for analysis such as volatiles, microbiology, and oil and grease is made in the analytical department at the time of or following the analysis

Rev 1/20/2020

ATTACHMENT M

Laboratory Analytical Data Sheets

ATTACHMENT M-1

Laboratory Analytical Data Sheets

Groundwater Sampling Activities – December 2019

ALS Environmental

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December 12, 2019

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

Certificate of Analysis

Project Name:	**17: Primary Profile**	Workorder:	**3074590**
Purchase Order:		Workorder ID:	**2171853/Quinn's Cafe` Stop**

Dear Mr. Gilgallon:

Enclosed are the analytical results for samples received by the laboratory on Tuesday, December 10, 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.

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

CC: Mr. Kevin Cucura

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

Amy K Borden

Ms. Amy K Borden
Project Coordinator

ALS Environmental

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SAMPLE SUMMARY

Workorder: 3074590 2171853/Quinn's Cafe` Stop

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
3074590001	116-1205-MW1	Ground Water	12/6/2019 08:03	12/10/2019 08:47	Collected by Client
3074590002	116-1205-MW2	Ground Water	12/6/2019 09:16	12/10/2019 08:47	Collected by Client
3074590003	116-1205-MW3	Ground Water	12/6/2019 10:46	12/10/2019 08:47	Collected by Client
3074590004	116-1205-MW4	Ground Water	12/5/2019 13:31	12/10/2019 08:47	Collected by Client
3074590005	116-1205-MW5	Ground Water	12/5/2019 13:45	12/10/2019 08:47	Collected by Client
3074590006	116-1205-MW6	Ground Water	12/6/2019 11:26	12/10/2019 08:47	Collected by Client
3074590007	116-1205-MW7	Ground Water	12/5/2019 12:08	12/10/2019 08:47	Collected by Client
3074590008	116-1205-MW8	Ground Water	12/5/2019 12:15	12/10/2019 08:47	Collected by Client
3074590009	116-1205-MW9	Ground Water	12/5/2019 15:02	12/10/2019 08:47	Collected by Client
3074590010	116-1205-MW10	Ground Water	12/5/2019 10:43	12/10/2019 08:47	Collected by Client
3074590011	116-1205-MW11	Ground Water	12/5/2019 08:40	12/10/2019 08:47	Collected by Client
3074590012	116-1205-MW12	Ground Water	12/5/2019 14:23	12/10/2019 08:47	Collected by Client
3074590013	116-1205-MW13	Ground Water	12/5/2019 14:25	12/10/2019 08:47	Collected by Client
3074590014	116-1205-MW14	Ground Water	12/5/2019 09:37	12/10/2019 08:47	Collected by Client
3074590015	116-1205-MW15	Ground Water	12/6/2019 15:24	12/10/2019 08:47	Collected by Client
3074590016	116-1205-MW16	Ground Water	12/5/2019 13:24	12/10/2019 08:47	Collected by Client
3074590017	116-1205-MW17	Ground Water	12/6/2019 08:38	12/10/2019 08:47	Collected by Client
3074590018	116-1205-FB1	Ground Water	12/5/2019 15:31	12/10/2019 08:47	Collected by Client
3074590019	116-1205-FB2	Ground Water	12/6/2019 11:45	12/10/2019 08:47	Collected by Client

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SAMPLE SUMMARY

Workorder: 3074590 2171853/Quinn's Cafe` Stop

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 preformed 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: 3074590 2171853/Quinn's Cafe` Stop

Lab ID: **3074590001** Date Collected: 12/6/2019 08:03 Matrix: Ground Water

Sample ID: **116-1205-MW1** Date Received: 12/10/2019 08:47

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/L	1.0	SW846 8260B			12/11/19 00:48	PDK	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B			12/11/19 00:48	PDK	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B			12/11/19 00:48	PDK	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B			12/11/19 00:48	PDK	A
Naphthalene	ND		ug/L	2.0	SW846 8260B			12/11/19 00:48	PDK	A
Toluene	ND		ug/L	1.0	SW846 8260B			12/11/19 00:48	PDK	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B			12/11/19 00:48	PDK	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			12/11/19 00:48	PDK	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			12/11/19 00:48	PDK	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	101		%	62 - 133	SW846 8260B			12/11/19 00:48	PDK	A
4-Bromofluorobenzene (S)	97.2		%	79 - 114	SW846 8260B			12/11/19 00:48	PDK	A
Dibromofluoromethane (S)	102		%	78 - 116	SW846 8260B			12/11/19 00:48	PDK	A
Toluene-d8 (S)	96.8		%	76 - 127	SW846 8260B			12/11/19 00:48	PDK	A

Ms. Amy K Borden
Project Coordinator

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ANALYTICAL RESULTS

Workorder: 3074590 2171853/Quinn's Cafe` Stop

Lab ID: **3074590002** Date Collected: 12/6/2019 09:16 Matrix: Ground Water

Sample ID: **116-1205-MW2** Date Received: 12/10/2019 08:47

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	67.7		ug/L	1.0	SW846 8260B			12/11/19 04:13	PDK	A
Ethylbenzene	203		ug/L	10.0	SW846 8260B			12/11/19 23:29	PDK	B
Isopropylbenzene	38.8		ug/L	1.0	SW846 8260B			12/11/19 04:13	PDK	A
Methyl t-Butyl Ether	2.1		ug/L	1.0	SW846 8260B			12/11/19 04:13	PDK	A
Naphthalene	139		ug/L	2.0	SW846 8260B			12/11/19 04:13	PDK	A
Toluene	27.2		ug/L	1.0	SW846 8260B			12/11/19 04:13	PDK	A
Total Xylenes	178		ug/L	3.0	SW846 8260B			12/11/19 04:13	PDK	A
1,2,4-Trimethylbenzene	25.9		ug/L	1.0	SW846 8260B			12/11/19 04:13	PDK	A
1,3,5-Trimethylbenzene	6.5		ug/L	1.0	SW846 8260B			12/11/19 04:13	PDK	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	117		%	62 - 133	SW846 8260B			12/11/19 04:13	PDK	A
1,2-Dichloroethane-d4 (S)	100		%	62 - 133	SW846 8260B			12/11/19 23:29	PDK	B
4-Bromofluorobenzene (S)	95.3		%	79 - 114	SW846 8260B			12/11/19 04:13	PDK	A
4-Bromofluorobenzene (S)	95.5		%	79 - 114	SW846 8260B			12/11/19 23:29	PDK	B
Dibromofluoromethane (S)	94.1		%	78 - 116	SW846 8260B			12/11/19 04:13	PDK	A
Dibromofluoromethane (S)	97		%	78 - 116	SW846 8260B			12/11/19 23:29	PDK	B
Toluene-d8 (S)	96		%	76 - 127	SW846 8260B			12/11/19 23:29	PDK	B
Toluene-d8 (S)	92.7		%	76 - 127	SW846 8260B			12/11/19 04:13	PDK	A

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ANALYTICAL RESULTS

Workorder: 3074590 2171853/Quinn's Cafe` Stop

Lab ID: **3074590003** Date Collected: 12/6/2019 10:46 Matrix: Ground Water

Sample ID: **116-1205-MW3** Date Received: 12/10/2019 08:47

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	*Cntr*
VOLATILE ORGANICS										
Benzene	501		ug/L	10.0	SW846 8260B			12/11/19 23:51	PDK	B
Ethylbenzene	870		ug/L	10.0	SW846 8260B			12/11/19 23:51	PDK	B
Isopropylbenzene	85.8		ug/L	1.0	SW846 8260B			12/11/19 04:35	PDK	A
Methyl t-Butyl Ether	65.0		ug/L	1.0	SW846 8260B			12/11/19 04:35	PDK	A
Naphthalene	86.5		ug/L	2.0	SW846 8260B			12/11/19 04:35	PDK	A
Toluene	15.5		ug/L	1.0	SW846 8260B			12/11/19 04:35	PDK	A
Total Xylenes	78.3		ug/L	3.0	SW846 8260B			12/11/19 04:35	PDK	A
1,2,4-Trimethylbenzene	40.1		ug/L	1.0	SW846 8260B			12/11/19 04:35	PDK	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			12/11/19 04:35	PDK	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	101		%	62 - 133	SW846 8260B			12/11/19 23:51	PDK	B
1,2-Dichloroethane-d4 (S)	115		%	62 - 133	SW846 8260B			12/11/19 04:35	PDK	A
4-Bromofluorobenzene (S)	95.1		%	79 - 114	SW846 8260B			12/11/19 04:35	PDK	A
4-Bromofluorobenzene (S)	94.8		%	79 - 114	SW846 8260B			12/11/19 23:51	PDK	B
Dibromofluoromethane (S)	101		%	78 - 116	SW846 8260B			12/11/19 23:51	PDK	B
Dibromofluoromethane (S)	87.9		%	78 - 116	SW846 8260B			12/11/19 04:35	PDK	A
Toluene-d8 (S)	84.2		%	76 - 127	SW846 8260B			12/11/19 04:35	PDK	A
Toluene-d8 (S)	94.8		%	76 - 127	SW846 8260B			12/11/19 23:51	PDK	B

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ANALYTICAL RESULTS

Workorder: 3074590 2171853/Quinn's Cafe` Stop

Lab ID: **3074590004** Date Collected: 12/5/2019 13:31 Matrix: Ground Water

Sample ID: **116-1205-MW4** Date Received: 12/10/2019 08:47

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	*Cntr*
VOLATILE ORGANICS										
Benzene	2.1		ug/L	1.0	SW846 8260B			12/11/19 04:58	PDK	A
Ethylbenzene	1.0		ug/L	1.0	SW846 8260B			12/11/19 04:58	PDK	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B			12/11/19 04:58	PDK	A
Methyl t-Butyl Ether	246		ug/L	10.0	SW846 8260B			12/12/19 00:14	PDK	B
Naphthalene	2.1		ug/L	2.0	SW846 8260B			12/11/19 04:58	PDK	A
Toluene	ND		ug/L	1.0	SW846 8260B			12/11/19 04:58	PDK	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B			12/11/19 04:58	PDK	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			12/11/19 04:58	PDK	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			12/11/19 04:58	PDK	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	104		%	62 - 133	SW846 8260B			12/12/19 00:14	PDK	B
1,2-Dichloroethane-d4 (S)	103		%	62 - 133	SW846 8260B			12/11/19 04:58	PDK	A
4-Bromofluorobenzene (S)	96		%	79 - 114	SW846 8260B			12/12/19 00:14	PDK	B
4-Bromofluorobenzene (S)	97.6		%	79 - 114	SW846 8260B			12/11/19 04:58	PDK	A
Dibromofluoromethane (S)	99.8		%	78 - 116	SW846 8260B			12/11/19 04:58	PDK	A
Dibromofluoromethane (S)	103		%	78 - 116	SW846 8260B			12/12/19 00:14	PDK	B
Toluene-d8 (S)	95.6		%	76 - 127	SW846 8260B			12/12/19 00:14	PDK	B
Toluene-d8 (S)	95.3		%	76 - 127	SW846 8260B			12/11/19 04:58	PDK	A

Ms. Amy K Borden
Project Coordinator

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ANALYTICAL RESULTS

Workorder: 3074590 2171853/Quinn's Cafe` Stop

Lab ID: **3074590005** Date Collected: 12/5/2019 13:45 Matrix: Ground Water

Sample ID: **116-1205-MW5** Date Received: 12/10/2019 08:47

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	77.8		ug/L	5.0	SW846 8260B			12/11/19 05:43	PDK	A
Ethylbenzene	353		ug/L	5.0	SW846 8260B			12/11/19 05:43	PDK	A
Isopropylbenzene	53.1		ug/L	5.0	SW846 8260B			12/11/19 05:43	PDK	A
Methyl t-Butyl Ether	9.3		ug/L	5.0	SW846 8260B			12/11/19 05:43	PDK	A
Naphthalene	126		ug/L	10.0	SW846 8260B			12/11/19 05:43	PDK	A
Toluene	17.7		ug/L	5.0	SW846 8260B			12/11/19 05:43	PDK	A
Total Xylenes	109		ug/L	15.0	SW846 8260B			12/11/19 05:43	PDK	A
1,2,4-Trimethylbenzene	28.1		ug/L	5.0	SW846 8260B			12/11/19 05:43	PDK	A
1,3,5-Trimethylbenzene	ND		ug/L	5.0	SW846 8260B			12/11/19 05:43	PDK	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	103		%	62 - 133	SW846 8260B			12/11/19 05:43	PDK	A
4-Bromofluorobenzene (S)	95.9		%	79 - 114	SW846 8260B			12/11/19 05:43	PDK	A
Dibromofluoromethane (S)	99.5		%	78 - 116	SW846 8260B			12/11/19 05:43	PDK	A
Toluene-d8 (S)	93.1		%	76 - 127	SW846 8260B			12/11/19 05:43	PDK	A

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ANALYTICAL RESULTS

Workorder: 3074590 2171853/Quinn's Cafe` Stop

Lab ID: **3074590006** Date Collected: 12/6/2019 11:26 Matrix: Ground Water

Sample ID: **116-1205-MW6** Date Received: 12/10/2019 08:47

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	3.2		ug/L	1.0	SW846 8260B			12/11/19 01:11	PDK	A
Ethylbenzene	10.3		ug/L	1.0	SW846 8260B			12/11/19 01:11	PDK	A
Isopropylbenzene	1.4		ug/L	1.0	SW846 8260B			12/11/19 01:11	PDK	A
Methyl t-Butyl Ether	4.5		ug/L	1.0	SW846 8260B			12/11/19 01:11	PDK	A
Naphthalene	ND		ug/L	2.0	SW846 8260B			12/11/19 01:11	PDK	A
Toluene	ND		ug/L	1.0	SW846 8260B			12/11/19 01:11	PDK	A
Total Xylenes	3.2		ug/L	3.0	SW846 8260B			12/11/19 01:11	PDK	A
1,2,4-Trimethylbenzene	3.4		ug/L	1.0	SW846 8260B			12/11/19 01:11	PDK	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			12/11/19 01:11	PDK	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	97.4		%	62 - 133	SW846 8260B			12/11/19 01:11	PDK	A
4-Bromofluorobenzene (S)	99.4		%	79 - 114	SW846 8260B			12/11/19 01:11	PDK	A
Dibromofluoromethane (S)	101		%	78 - 116	SW846 8260B			12/11/19 01:11	PDK	A
Toluene-d8 (S)	96.3		%	76 - 127	SW846 8260B			12/11/19 01:11	PDK	A

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ANALYTICAL RESULTS

Workorder: 3074590 2171853/Quinn's Cafe` Stop

Lab ID: **3074590007** Date Collected: 12/5/2019 12:08 Matrix: Ground Water

Sample ID: **116-1205-MW7** Date Received: 12/10/2019 08:47

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/L	1.0	SW846 8260B			12/11/19 01:34	PDK	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B			12/11/19 01:34	PDK	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B			12/11/19 01:34	PDK	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B			12/11/19 01:34	PDK	A
Naphthalene	ND		ug/L	2.0	SW846 8260B			12/11/19 01:34	PDK	A
Toluene	ND		ug/L	1.0	SW846 8260B			12/11/19 01:34	PDK	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B			12/11/19 01:34	PDK	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			12/11/19 01:34	PDK	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			12/11/19 01:34	PDK	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	98.9		%	62 - 133	SW846 8260B			12/11/19 01:34	PDK	A
4-Bromofluorobenzene (S)	98.7		%	79 - 114	SW846 8260B			12/11/19 01:34	PDK	A
Dibromofluoromethane (S)	102		%	78 - 116	SW846 8260B			12/11/19 01:34	PDK	A
Toluene-d8 (S)	96.6		%	76 - 127	SW846 8260B			12/11/19 01:34	PDK	A

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ANALYTICAL RESULTS

Workorder: 3074590 2171853/Quinn's Cafe` Stop

Lab ID: **3074590008** Date Collected: 12/5/2019 12:15 Matrix: Ground Water

Sample ID: **116-1205-MW8** Date Received: 12/10/2019 08:47

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/L	1.0	SW846 8260B			12/11/19 01:56	PDK	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B			12/11/19 01:56	PDK	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B			12/11/19 01:56	PDK	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B			12/11/19 01:56	PDK	A
Naphthalene	ND		ug/L	2.0	SW846 8260B			12/11/19 01:56	PDK	A
Toluene	ND		ug/L	1.0	SW846 8260B			12/11/19 01:56	PDK	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B			12/11/19 01:56	PDK	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			12/11/19 01:56	PDK	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			12/11/19 01:56	PDK	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	99.5		%	62 - 133	SW846 8260B			12/11/19 01:56	PDK	A
4-Bromofluorobenzene (S)	97.3		%	79 - 114	SW846 8260B			12/11/19 01:56	PDK	A
Dibromofluoromethane (S)	98.8		%	78 - 116	SW846 8260B			12/11/19 01:56	PDK	A
Toluene-d8 (S)	96.4		%	76 - 127	SW846 8260B			12/11/19 01:56	PDK	A

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ANALYTICAL RESULTS

Workorder: 3074590 2171853/Quinn's Cafe` Stop

Lab ID: **3074590009** Date Collected: 12/5/2019 15:02 Matrix: Ground Water

Sample ID: **116-1205-MW9** Date Received: 12/10/2019 08:47

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/L	1.0	SW846 8260B			12/11/19 02:19	PDK	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B			12/11/19 02:19	PDK	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B			12/11/19 02:19	PDK	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B			12/11/19 02:19	PDK	A
Naphthalene	ND		ug/L	2.0	SW846 8260B			12/11/19 02:19	PDK	A
Toluene	ND		ug/L	1.0	SW846 8260B			12/11/19 02:19	PDK	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B			12/11/19 02:19	PDK	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			12/11/19 02:19	PDK	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			12/11/19 02:19	PDK	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	96.8		%	62 - 133	SW846 8260B			12/11/19 02:19	PDK	A
4-Bromofluorobenzene (S)	97.2		%	79 - 114	SW846 8260B			12/11/19 02:19	PDK	A
Dibromofluoromethane (S)	101		%	78 - 116	SW846 8260B			12/11/19 02:19	PDK	A
Toluene-d8 (S)	95.5		%	76 - 127	SW846 8260B			12/11/19 02:19	PDK	A

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ANALYTICAL RESULTS

Workorder: 3074590 2171853/Quinn's Cafe` Stop

Lab ID: **3074590010** Date Collected: 12/5/2019 10:43 Matrix: Ground Water

Sample ID: **116-1205-MW10** Date Received: 12/10/2019 08:47

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/L	1.0	SW846 8260B			12/11/19 02:42	PDK	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B			12/11/19 02:42	PDK	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B			12/11/19 02:42	PDK	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B			12/11/19 02:42	PDK	A
Naphthalene	ND		ug/L	2.0	SW846 8260B			12/11/19 02:42	PDK	A
Toluene	ND		ug/L	1.0	SW846 8260B			12/11/19 02:42	PDK	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B			12/11/19 02:42	PDK	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			12/11/19 02:42	PDK	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			12/11/19 02:42	PDK	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	97.2		%	62 - 133	SW846 8260B			12/11/19 02:42	PDK	A
4-Bromofluorobenzene (S)	97.1		%	79 - 114	SW846 8260B			12/11/19 02:42	PDK	A
Dibromofluoromethane (S)	101		%	78 - 116	SW846 8260B			12/11/19 02:42	PDK	A
Toluene-d8 (S)	95.9		%	76 - 127	SW846 8260B			12/11/19 02:42	PDK	A

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ANALYTICAL RESULTS

Workorder: 3074590 2171853/Quinn's Cafe` Stop

Lab ID: **3074590011** Date Collected: 12/5/2019 08:40 Matrix: Ground Water

Sample ID: **116-1205-MW11** Date Received: 12/10/2019 08:47

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/L	1.0	SW846 8260B			12/11/19 03:04	PDK	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B			12/11/19 03:04	PDK	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B			12/11/19 03:04	PDK	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B			12/11/19 03:04	PDK	A
Naphthalene	ND		ug/L	2.0	SW846 8260B			12/11/19 03:04	PDK	A
Toluene	ND		ug/L	1.0	SW846 8260B			12/11/19 03:04	PDK	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B			12/11/19 03:04	PDK	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			12/11/19 03:04	PDK	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			12/11/19 03:04	PDK	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	97.4		%	62 - 133	SW846 8260B			12/11/19 03:04	PDK	A
4-Bromofluorobenzene (S)	98.3		%	79 - 114	SW846 8260B			12/11/19 03:04	PDK	A
Dibromofluoromethane (S)	101		%	78 - 116	SW846 8260B			12/11/19 03:04	PDK	A
Toluene-d8 (S)	95.4		%	76 - 127	SW846 8260B			12/11/19 03:04	PDK	A

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ANALYTICAL RESULTS

Workorder: 3074590 2171853/Quinn's Cafe` Stop

Lab ID: **3074590012** Date Collected: 12/5/2019 14:23 Matrix: Ground Water

Sample ID: **116-1205-MW12** Date Received: 12/10/2019 08:47

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/L	1.0	SW846 8260B			12/11/19 03:27	PDK	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B			12/11/19 03:27	PDK	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B			12/11/19 03:27	PDK	A
Methyl t-Butyl Ether	1.4		ug/L	1.0	SW846 8260B			12/11/19 03:27	PDK	A
Naphthalene	ND		ug/L	2.0	SW846 8260B			12/11/19 03:27	PDK	A
Toluene	ND		ug/L	1.0	SW846 8260B			12/11/19 03:27	PDK	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B			12/11/19 03:27	PDK	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			12/11/19 03:27	PDK	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			12/11/19 03:27	PDK	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	98.2		%	62 - 133	SW846 8260B			12/11/19 03:27	PDK	A
4-Bromofluorobenzene (S)	97.8		%	79 - 114	SW846 8260B			12/11/19 03:27	PDK	A
Dibromofluoromethane (S)	102		%	78 - 116	SW846 8260B			12/11/19 03:27	PDK	A
Toluene-d8 (S)	95.5		%	76 - 127	SW846 8260B			12/11/19 03:27	PDK	A

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ANALYTICAL RESULTS

Workorder: 3074590 2171853/Quinn's Cafe` Stop

Lab ID: **3074590013** Date Collected: 12/5/2019 14:25 Matrix: Ground Water

Sample ID: **116-1205-MW13** Date Received: 12/10/2019 08:47

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/L	1.0	SW846 8260B			12/11/19 03:50	PDK	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B			12/11/19 03:50	PDK	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B			12/11/19 03:50	PDK	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B			12/11/19 03:50	PDK	A
Naphthalene	ND		ug/L	2.0	SW846 8260B			12/11/19 03:50	PDK	A
Toluene	ND		ug/L	1.0	SW846 8260B			12/11/19 03:50	PDK	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B			12/11/19 03:50	PDK	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			12/11/19 03:50	PDK	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			12/11/19 03:50	PDK	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	101		%	62 - 133	SW846 8260B			12/11/19 03:50	PDK	A
4-Bromofluorobenzene (S)	93.7		%	79 - 114	SW846 8260B			12/11/19 03:50	PDK	A
Dibromofluoromethane (S)	99.6		%	78 - 116	SW846 8260B			12/11/19 03:50	PDK	A
Toluene-d8 (S)	95.8		%	76 - 127	SW846 8260B			12/11/19 03:50	PDK	A

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ANALYTICAL RESULTS

Workorder: 3074590 2171853/Quinn's Cafe` Stop

Lab ID: **3074590014** Date Collected: 12/5/2019 09:37 Matrix: Ground Water

Sample ID: **116-1205-MW14** Date Received: 12/10/2019 08:47

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	*Cntr*
VOLATILE ORGANICS										
Benzene	6.3		ug/L	1.0	SW846 8260B			12/11/19 06:29	PDK	A
Ethylbenzene	28.8		ug/L	1.0	SW846 8260B			12/11/19 06:29	PDK	A
Isopropylbenzene	5.6		ug/L	1.0	SW846 8260B			12/11/19 06:29	PDK	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B			12/11/19 06:29	PDK	A
Naphthalene	11.0		ug/L	2.0	SW846 8260B			12/11/19 06:29	PDK	A
Toluene	1.6		ug/L	1.0	SW846 8260B			12/11/19 06:29	PDK	A
Total Xylenes	56.8		ug/L	3.0	SW846 8260B			12/11/19 06:29	PDK	A
1,2,4-Trimethylbenzene	99.6		ug/L	1.0	SW846 8260B			12/11/19 06:29	PDK	A
1,3,5-Trimethylbenzene	15.6		ug/L	1.0	SW846 8260B			12/11/19 06:29	PDK	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	101		%	62 - 133	SW846 8260B			12/11/19 06:29	PDK	A
4-Bromofluorobenzene (S)	95.4		%	79 - 114	SW846 8260B			12/11/19 06:29	PDK	A
Dibromofluoromethane (S)	102		%	78 - 116	SW846 8260B			12/11/19 06:29	PDK	A
Toluene-d8 (S)	95.6		%	76 - 127	SW846 8260B			12/11/19 06:29	PDK	A

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ANALYTICAL RESULTS

Workorder: 3074590 2171853/Quinn's Cafe` Stop

Lab ID: **3074590015** Date Collected: 12/6/2019 15:24 Matrix: Ground Water

Sample ID: **116-1205-MW15** Date Received: 12/10/2019 08:47

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	259		ug/L	5.0	SW846 8260B			12/11/19 06:06	PDK	A
Ethylbenzene	834		ug/L	5.0	SW846 8260B			12/11/19 06:06	PDK	A
Isopropylbenzene	86.7		ug/L	5.0	SW846 8260B			12/11/19 06:06	PDK	A
Methyl t-Butyl Ether	47.3		ug/L	5.0	SW846 8260B			12/11/19 06:06	PDK	A
Naphthalene	224		ug/L	10.0	SW846 8260B			12/11/19 06:06	PDK	A
Toluene	12.6		ug/L	5.0	SW846 8260B			12/11/19 06:06	PDK	A
Total Xylenes	478		ug/L	15.0	SW846 8260B			12/11/19 06:06	PDK	A
1,2,4-Trimethylbenzene	557		ug/L	5.0	SW846 8260B			12/11/19 06:06	PDK	A
1,3,5-Trimethylbenzene	ND		ug/L	5.0	SW846 8260B			12/11/19 06:06	PDK	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	100		%	62 - 133	SW846 8260B			12/11/19 06:06	PDK	A
4-Bromofluorobenzene (S)	95		%	79 - 114	SW846 8260B			12/11/19 06:06	PDK	A
Dibromofluoromethane (S)	99.4		%	78 - 116	SW846 8260B			12/11/19 06:06	PDK	A
Toluene-d8 (S)	92.9		%	76 - 127	SW846 8260B			12/11/19 06:06	PDK	A

Ms. Amy K Borden
Project Coordinator

ALS Environmental

301 Fulling Mill Road - Middletown, PA 17057 - Phone: 717-944-5541 - Fax: 717-944-1430 - www.alsglobal.com

NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: PJLA 74618
State Certifications: FL E871113 , WA C999 , MD 128 , VA 460157 , WV DW 9961-C , WV 343

ANALYTICAL RESULTS

Workorder: 3074590 2171853/Quinn's Cafe` Stop

Lab ID: **3074590016** Date Collected: 12/5/2019 13:24 Matrix: Ground Water

Sample ID: **116-1205-MW16** Date Received: 12/10/2019 08:47

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	*Cntr*
VOLATILE ORGANICS										
Benzene	3.3		ug/L	1.0	SW846 8260B			12/11/19 05:21	PDK	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B			12/11/19 05:21	PDK	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B			12/11/19 05:21	PDK	A
Methyl t-Butyl Ether	380		ug/L	10.0	SW846 8260B			12/12/19 00:37	PDK	B
Naphthalene	ND		ug/L	2.0	SW846 8260B			12/11/19 05:21	PDK	A
Toluene	ND		ug/L	1.0	SW846 8260B			12/11/19 05:21	PDK	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B			12/11/19 05:21	PDK	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			12/11/19 05:21	PDK	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			12/11/19 05:21	PDK	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	103		%	62 - 133	SW846 8260B			12/11/19 05:21	PDK	A
1,2-Dichloroethane-d4 (S)	104		%	62 - 133	SW846 8260B			12/12/19 00:37	PDK	B
4-Bromofluorobenzene (S)	95.8		%	79 - 114	SW846 8260B			12/11/19 05:21	PDK	A
4-Bromofluorobenzene (S)	97.3		%	79 - 114	SW846 8260B			12/12/19 00:37	PDK	B
Dibromofluoromethane (S)	101		%	78 - 116	SW846 8260B			12/12/19 00:37	PDK	B
Dibromofluoromethane (S)	102		%	78 - 116	SW846 8260B			12/11/19 05:21	PDK	A
Toluene-d8 (S)	95.6		%	76 - 127	SW846 8260B			12/12/19 00:37	PDK	B
Toluene-d8 (S)	97.3		%	76 - 127	SW846 8260B			12/11/19 05:21	PDK	A

Ms. Amy K Borden
Project Coordinator

ALS Environmental

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NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: PJLA 74618
State Certifications: FL E871113 , WA C999 , MD 128 , VA 460157 , WV DW 9961-C , WV 343

ANALYTICAL RESULTS

Workorder: 3074590 2171853/Quinn's Cafe` Stop

Lab ID: **3074590017** Date Collected: 12/6/2019 08:38 Matrix: Ground Water

Sample ID: **116-1205-MW17** Date Received: 12/10/2019 08:47

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	11.3		ug/L	1.0	SW846 8260B			12/11/19 00:26	PDK	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B			12/11/19 00:26	PDK	A
Isopropylbenzene	4.2		ug/L	1.0	SW846 8260B			12/11/19 00:26	PDK	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B			12/11/19 00:26	PDK	A
Naphthalene	ND		ug/L	2.0	SW846 8260B			12/11/19 00:26	PDK	A
Toluene	ND		ug/L	1.0	SW846 8260B			12/11/19 00:26	PDK	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B			12/11/19 00:26	PDK	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			12/11/19 00:26	PDK	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			12/11/19 00:26	PDK	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	99.4		%	62 - 133	SW846 8260B			12/11/19 00:26	PDK	A
4-Bromofluorobenzene (S)	96.6		%	79 - 114	SW846 8260B			12/11/19 00:26	PDK	A
Dibromofluoromethane (S)	100		%	78 - 116	SW846 8260B			12/11/19 00:26	PDK	A
Toluene-d8 (S)	97		%	76 - 127	SW846 8260B			12/11/19 00:26	PDK	A

Amy K Borden

Ms. Amy K Borden
Project Coordinator

ALS Environmental

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ANALYTICAL RESULTS

Workorder: 3074590 2171853/Quinn's Cafe` Stop

Lab ID: **3074590018** Date Collected: 12/5/2019 15:31 Matrix: Ground Water

Sample ID: **116-1205-FB1** Date Received: 12/10/2019 08:47

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/L	1.0	SW846 8260B			12/10/19 23:40	PDK	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B			12/10/19 23:40	PDK	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B			12/10/19 23:40	PDK	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B			12/10/19 23:40	PDK	A
Naphthalene	ND		ug/L	2.0	SW846 8260B			12/10/19 23:40	PDK	A
Toluene	ND		ug/L	1.0	SW846 8260B			12/10/19 23:40	PDK	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B			12/10/19 23:40	PDK	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			12/10/19 23:40	PDK	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			12/10/19 23:40	PDK	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	98.5		%	62 - 133	SW846 8260B			12/10/19 23:40	PDK	A
4-Bromofluorobenzene (S)	97.8		%	79 - 114	SW846 8260B			12/10/19 23:40	PDK	A
Dibromofluoromethane (S)	102		%	78 - 116	SW846 8260B			12/10/19 23:40	PDK	A
Toluene-d8 (S)	96.1		%	76 - 127	SW846 8260B			12/10/19 23:40	PDK	A

Ms. Amy K Borden
Project Coordinator

ALS Environmental

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State Certifications: FL E871113 , WA C999 , MD 128 , VA 460157 , WV DW 9961-C , WV 343

ANALYTICAL RESULTS

Workorder: 3074590 2171853/Quinn's Cafe` Stop

Lab ID: **3074590019** Date Collected: 12/6/2019 11:45 Matrix: Ground Water

Sample ID: **116-1205-FB2** Date Received: 12/10/2019 08:47

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/L	1.0	SW846 8260B			12/11/19 00:03	PDK	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B			12/11/19 00:03	PDK	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B			12/11/19 00:03	PDK	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B			12/11/19 00:03	PDK	A
Naphthalene	ND		ug/L	2.0	SW846 8260B			12/11/19 00:03	PDK	A
Toluene	ND		ug/L	1.0	SW846 8260B			12/11/19 00:03	PDK	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B			12/11/19 00:03	PDK	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			12/11/19 00:03	PDK	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			12/11/19 00:03	PDK	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	97.8		%	62 - 133	SW846 8260B			12/11/19 00:03	PDK	A
4-Bromofluorobenzene (S)	95.9		%	79 - 114	SW846 8260B			12/11/19 00:03	PDK	A
Dibromofluoromethane (S)	100		%	78 - 116	SW846 8260B			12/11/19 00:03	PDK	A
Toluene-d8 (S)	96.8		%	76 - 127	SW846 8260B			12/11/19 00:03	PDK	A

Amy K Borden

Ms. Amy K Borden
Project Coordinator

ANALYSIS - PREP METHOD CROSS REFERENCE TABLE

Workorder: 3074590 2171853/Quinn's Cafe` Stop

Lab ID	Sample ID	Analysis Method	Prep Method
3074590001	116-1205-MW1	SW846 8260B	
3074590002	116-1205-MW2	SW846 8260B	
3074590003	116-1205-MW3	SW846 8260B	
3074590004	116-1205-MW4	SW846 8260B	
3074590005	116-1205-MW5	SW846 8260B	
3074590006	116-1205-MW6	SW846 8260B	
3074590007	116-1205-MW7	SW846 8260B	
3074590008	116-1205-MW8	SW846 8260B	
3074590009	116-1205-MW9	SW846 8260B	
3074590010	116-1205-MW10	SW846 8260B	
3074590011	116-1205-MW11	SW846 8260B	
3074590012	116-1205-MW12	SW846 8260B	
3074590013	116-1205-MW13	SW846 8260B	
3074590014	116-1205-MW14	SW846 8260B	
3074590015	116-1205-MW15	SW846 8260B	
3074590016	116-1205-MW16	SW846 8260B	
3074590017	116-1205-MW17	SW846 8260B	
3074590018	116-1205-FB1	SW846 8260B	
3074590019	116-1205-FB2	SW846 8260B	

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

CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

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

COC ALS

3074590

Client Name: LaBella Associates, P.C.
Address: 1000 Dunham Drive, Suite B
Dunmore, PA 18512
Contact: Martin Gilgallon
Phone#: (570) 487-1959 / (570) 342-3101
Project Name/#: 2171853 / Quinn's Café Stop
Bill To: APPA@labellapc.com

TAT [X] Normal-Standard TAT is 10-12 business days.
[ ] Rush-Subject to ALS approval and surcharges.
Date Required: _____ Approved By: _____
Email? [Y] -Y mgilgallon@labellapc.com
Fax? [ ] -Y No.: _____

Sample Description/Location (as it will appear on the lab report)	Sample Date	Time	*G or C	**Matrix	Container Type	Container Size	Preservative	Unleaded Gasoline								
					CG	40 ml	HCL	ANALYSES/METHOD REQUESTED								
					Enter Number of Containers Per Sample or Field Results Below.											
1) 116-1205-MW1	12/6/19	0803	G	GW	2											
2) 116-1205-MW2	12/6/19	0916	G	GW	2											
3) 116-1205-MW3	12/6/19	1046	G	GW	2											
4) 116-1205-MW4	12/5/19	1331	G	GW	2											
5) 116-1205-MW5	12/5/19	1345	G	GW	2											
6) 116-1205-MW6	12/6/19	1126	G	GW	2											
7) 116-1205-MW7	12/5/19	1208	G	GW	2											
8) 116-1205-MW8	12/5/19	1215	G	GW	2											
9) 116-1205-MW9	12/5/19	1502	G	GW	2											
10) 116-1205-MW10	12/5/19	1043	G	GW	2											

Receipt Information (Completed by Receiving Lab)

Cooler Temp: 0 Therm ID: 525
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?			

Courier/Tracking #:

Sample/COC Comments

ALS Field Services: _Pickup _Labor
_Composite Sampling _Rental Equipment
_Other: _____

Project Comments:
FedEx # 8149 6409 1123

LOGGED BY(signature): DATE TIME
REVIEWED BY(signature): DATE TIME

Relinquished By / Company Name	Date	Time	Received By / Company Name	Date	Time
1 Chris Grimm / LaBella	12/4/19	1230	2 FED EX #8149 6409 1123	12/9/19	
3 Fed Ex			4 [illegible] PAS	12/10/19	0847
5			6		
7			8		
9			10		

Data Deliverables: [X] Standard [ ] CLP-like [ ] USACE [ ]
Special Processing: USACE [ ] Navy [ ]
State Samples Collected In: [ ] NY [ ] NJ [X] PA [ ] NC [ ]
Reportable to PADEP? Yes [ ]
PWSID # _____
Sample Disposal: Lab [ ] Special [ ]
EDDS: Format Type- _____

* G=Grab; C=Composite
**Matrix - AI=Air; DW=Drinking Water; GW=Groundwater; OI=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 Environmental
34 Dogwood Lane
Middletown, PA 17057
P. 717-944-5541
F. 717-944-1430

CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

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

COC #: 3074590 — 2 of 2
ALS Quote #:

Client Name: LaBella Associates, P.C.
Address: 1000 Dunham Drive, Suite B
Dunmore, PA 18512
Contact: Martin Gilgallon
Phone#: (570) 487-1959 / (570) 342-3101
Project Name/#: 2171853 / Quinn's Café Stop
Bill To: APPA@labellapc.com

TAT [X] Normal-Standard TAT is 10-12 business days.
[ ] Rush-Subject to ALS approval and surcharges.
Date Required: _____ Approved By: _____
Email? [Y] -Y mgilgallon@labellapc.com
Fax? [ ] -Y No.:

Sample Description/Location (as it will appear on the lab report)	Sample Date	Time	*G or C	**Matrix	Container Type	Container Size	Preservative	Unleaded Gasoline								
					CG	40 ml	HCL	ANALYSES/METHOD REQUESTED								
								Enter Number of Containers Per Sample or Field Results Below.								
11) 116-1205-MW11	12/5/19	0840	G	GW				2								
12) 116-1205-MW12	12/5/19	1423	G	GW				2								
13) 116-1205-MW13	12/5/19	1125	G	GW				2								
14) 116-1205-MW14	12/5/19	0937	G	GW				2								
15) 116-1205-MW15	12/6/19	1000	G	GW				2								
16) 116-1205-MW16	12/5/19	1324	G	GW				2								
17) 116-1205-MW17	12/6/19	0838	G	GW				2								
18) 116-1205-FB1	12/5/19	1531	G	DI				2								
19) 116-1205-FB2	12/6/19	1145	G	DI				2								

Receipt Information (completed by Receiving Lab)
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?			

Courier/Tracking #:

Sample/COC Comments

ALS Field Services: __Pickup __Labor __Composite Sampling __Rental Equipment __Other:

Project Comments:
FedEx # 8149 6409 1123

LOGGED BY(signature): DATE TIME
REVIEWED BY(signature): DATE TIME

Relinquished By / Company Name	Date	Time	Received By / Company Name	Date	Time
1 Chris Norman / LaBella			2 FedEx #8149 6409 1123	12/9/19	
3 Fed Ex			4 QNO FHS	12/10/19	0847
5			6		
7			8		
9			10		

Data Deliverables: [X] Standard [ ] CLP-like [ ] USACE [ ]
Special Processing: USACE [ ] Navy [ ] [ ]
State Samples Collected In: [ ] NY [ ] NJ [X] PA [ ] NC [ ]
Reportable to PADEP? Yes [ ] PWSID # ____
Sample Disposal: Lab [ ] Special [ ]
EDDS: Format Type-

* G=Grab; C=Composite
**Matrix - Al=Air; DW=Drinking Water; GW=Groundwater; OI=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: La Bella | Work Order #: 3074590 | Initials: PW | Date: 12/10/19

1. Were airbills / tracking numbers present and recorded?	NONE	(YES)	NO
Tracking number: 8149 6409 1123			
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 #: _____

Temperature (°C): 0

Thermometer ID: 525

Radiological (µCi): _____

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

Rev. 4/29/2019

ATTACHMENT M-2

Laboratory Analytical Data Sheets

Groundwater Sampling Activities – February 2020

ALS Environmental

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February 14, 2020

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

Certificate of Analysis

Project Name:	**17: Primary Profile**	Workorder:	**3085709**
Purchase Order:		Workorder ID:	**2171853 / Quinn's Cafe Stop**

Dear Mr. Gilgallon:

Enclosed are the analytical results for samples received by the laboratory on Tuesday, February 11, 2020.

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.

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

CC: 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: 3085709 2171853 / Quinn's Cafe Stop

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
3085709001	116-0205-MW1	Ground Water	2/6/2020 10:00	2/11/2020 08:36	Collected by Client
3085709002	116-0205-MW2	Ground Water	2/6/2020 11:53	2/11/2020 08:36	Collected by Client
3085709003	116-0205-MW3	Ground Water	2/6/2020 13:47	2/11/2020 08:36	Collected by Client
3085709004	116-0205-MW4	Ground Water	2/5/2020 11:00	2/11/2020 08:36	Collected by Client
3085709005	116-0205-MW5	Ground Water	2/5/2020 11:20	2/11/2020 08:36	Collected by Client
3085709006	116-0205-MW6	Ground Water	2/6/2020 12:58	2/11/2020 08:36	Collected by Client
3085709007	116-0205-MW7	Ground Water	2/5/2020 14:25	2/11/2020 08:36	Collected by Client
3085709008	116-0205-MW8	Ground Water	2/5/2020 14:17	2/11/2020 08:36	Collected by Client
3085709009	116-0205-MW9	Ground Water	2/6/2020 09:21	2/11/2020 08:36	Collected by Client
3085709010	116-0205-MW10	Ground Water	2/5/2020 12:43	2/11/2020 08:36	Collected by Client
3085709011	116-0205-MW11	Ground Water	2/5/2020 10:17	2/11/2020 08:36	Collected by Client
3085709012	116-0205-MW12	Ground Water	2/6/2020 08:29	2/11/2020 08:36	Collected by Client
3085709013	116-0205-MW13	Ground Water	2/5/2020 13:32	2/11/2020 08:36	Collected by Client
3085709014	116-0205-MW14	Ground Water	2/5/2020 10:30	2/11/2020 08:36	Collected by Client
3085709015	116-0205-MW15	Ground Water	2/6/2020 14:14	2/11/2020 08:36	Collected by Client
3085709016	116-0205-MW16	Ground Water	2/5/2020 10:38	2/11/2020 08:36	Collected by Client
3085709017	116-0205-MW17	Ground Water	2/6/2020 10:42	2/11/2020 08:36	Collected by Client
3085709018	116-0205-FB1	Ground Water	2/5/2020 14:43	2/11/2020 08:36	Collected by Client
3085709019	116-0205-FB2	Ground Water	2/6/2020 14:21	2/11/2020 08:36	Collected by Client

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SAMPLE SUMMARY

Workorder: 3085709 2171853 / Quinn's Cafe Stop

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 preformed 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: 3085709 2171853 / Quinn's Cafe Stop

Lab ID: **3085709001** Date Collected: 2/6/2020 10:00 Matrix: Ground Water

Sample ID: **116-0205-MW1** Date Received: 2/11/2020 08:36

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/L	1.0	SW846 8260B			2/12/20 18:50	DPC	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B			2/12/20 18:50	DPC	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B			2/12/20 18:50	DPC	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B			2/12/20 18:50	DPC	A
Naphthalene	ND		ug/L	2.0	SW846 8260B			2/12/20 18:50	DPC	A
Toluene	ND		ug/L	1.0	SW846 8260B			2/12/20 18:50	DPC	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B			2/12/20 18:50	DPC	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			2/12/20 18:50	DPC	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			2/12/20 18:50	DPC	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	95.4		%	62 - 133	SW846 8260B			2/12/20 18:50	DPC	A
4-Bromofluorobenzene (S)	106		%	79 - 114	SW846 8260B			2/12/20 18:50	DPC	A
Dibromofluoromethane (S)	92.9		%	78 - 116	SW846 8260B			2/12/20 18:50	DPC	A
Toluene-d8 (S)	97.9		%	76 - 127	SW846 8260B			2/12/20 18:50	DPC	A

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ANALYTICAL RESULTS

Workorder: 3085709 2171853 / Quinn's Cafe Stop

Lab ID: **3085709002** Date Collected: 2/6/2020 11:53 Matrix: Ground Water

Sample ID: **116-0205-MW2** Date Received: 2/11/2020 08:36

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	43.5	1	ug/L	10.0	SW846 8260B			2/12/20 19:12	DPC	A
Ethylbenzene	213		ug/L	10.0	SW846 8260B			2/12/20 19:12	DPC	A
Isopropylbenzene	43.9		ug/L	10.0	SW846 8260B			2/12/20 19:12	DPC	A
Methyl t-Butyl Ether	ND		ug/L	10.0	SW846 8260B			2/12/20 19:12	DPC	A
Naphthalene	83.9		ug/L	20.0	SW846 8260B			2/12/20 19:12	DPC	A
Toluene	19.9		ug/L	10.0	SW846 8260B			2/12/20 19:12	DPC	A
Total Xylenes	160		ug/L	30.0	SW846 8260B			2/12/20 19:12	DPC	A
1,2,4-Trimethylbenzene	29.9		ug/L	10.0	SW846 8260B			2/12/20 19:12	DPC	A
1,3,5-Trimethylbenzene	ND		ug/L	10.0	SW846 8260B			2/12/20 19:12	DPC	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	94.1		%	62 - 133	SW846 8260B			2/12/20 19:12	DPC	A
4-Bromofluorobenzene (S)	105		%	79 - 114	SW846 8260B			2/12/20 19:12	DPC	A
Dibromofluoromethane (S)	90.5		%	78 - 116	SW846 8260B			2/12/20 19:12	DPC	A
Toluene-d8 (S)	98.6		%	76 - 127	SW846 8260B			2/12/20 19:12	DPC	A

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ANALYTICAL RESULTS

Workorder: 3085709 2171853 / Quinn's Cafe Stop

Lab ID: **3085709003** Date Collected: 2/6/2020 13:47 Matrix: Ground Water

Sample ID: **116-0205-MW3** Date Received: 2/11/2020 08:36

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	371	1	ug/L	10.0	SW846 8260B			2/12/20 19:34	DPC	A
Ethylbenzene	899		ug/L	10.0	SW846 8260B			2/12/20 19:34	DPC	A
Isopropylbenzene	91.4		ug/L	10.0	SW846 8260B			2/12/20 19:34	DPC	A
Methyl t-Butyl Ether	27.1		ug/L	10.0	SW846 8260B			2/12/20 19:34	DPC	A
Naphthalene	71.1		ug/L	20.0	SW846 8260B			2/12/20 19:34	DPC	A
Toluene	17.7		ug/L	10.0	SW846 8260B			2/12/20 19:34	DPC	A
Total Xylenes	87.3		ug/L	30.0	SW846 8260B			2/12/20 19:34	DPC	A
1,2,4-Trimethylbenzene	64.1		ug/L	10.0	SW846 8260B			2/12/20 19:34	DPC	A
1,3,5-Trimethylbenzene	ND		ug/L	10.0	SW846 8260B			2/12/20 19:34	DPC	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	94.4		%	62 - 133	SW846 8260B			2/12/20 19:34	DPC	A
4-Bromofluorobenzene (S)	104		%	79 - 114	SW846 8260B			2/12/20 19:34	DPC	A
Dibromofluoromethane (S)	89.2		%	78 - 116	SW846 8260B			2/12/20 19:34	DPC	A
Toluene-d8 (S)	98.3		%	76 - 127	SW846 8260B			2/12/20 19:34	DPC	A

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ANALYTICAL RESULTS

Workorder: 3085709 2171853 / Quinn's Cafe Stop

Lab ID: **3085709004** Date Collected: 2/5/2020 11:00 Matrix: Ground Water

Sample ID: **116-0205-MW4** Date Received: 2/11/2020 08:36

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND	2	ug/L	5.0	SW846 8260B			2/13/20 23:34	PDK	B
Ethylbenzene	ND		ug/L	5.0	SW846 8260B			2/13/20 23:34	PDK	B
Isopropylbenzene	ND		ug/L	5.0	SW846 8260B			2/13/20 23:34	PDK	B
Methyl t-Butyl Ether	238		ug/L	5.0	SW846 8260B			2/13/20 23:34	PDK	B
Naphthalene	ND		ug/L	10.0	SW846 8260B			2/13/20 23:34	PDK	B
Toluene	ND		ug/L	5.0	SW846 8260B			2/13/20 23:34	PDK	B
Total Xylenes	ND		ug/L	15.0	SW846 8260B			2/13/20 23:34	PDK	B
1,2,4-Trimethylbenzene	ND		ug/L	5.0	SW846 8260B			2/13/20 23:34	PDK	B
1,3,5-Trimethylbenzene	ND		ug/L	5.0	SW846 8260B			2/13/20 23:34	PDK	B
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	87		%	62 - 133	SW846 8260B			2/13/20 23:34	PDK	B
4-Bromofluorobenzene (S)	110		%	79 - 114	SW846 8260B			2/13/20 23:34	PDK	B
Dibromofluoromethane (S)	91.7		%	78 - 116	SW846 8260B			2/13/20 23:34	PDK	B
Toluene-d8 (S)	96.1		%	76 - 127	SW846 8260B			2/13/20 23:34	PDK	B

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ANALYTICAL RESULTS

Workorder: 3085709 2171853 / Quinn's Cafe Stop

Lab ID: **3085709005** Date Collected: 2/5/2020 11:20 Matrix: Ground Water

Sample ID: **116-0205-MW5** Date Received: 2/11/2020 08:36

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	67.3	1	ug/L	5.0	SW846 8260B			2/13/20 07:37	PDK	A
Ethylbenzene	749		ug/L	5.0	SW846 8260B			2/13/20 07:37	PDK	A
Isopropylbenzene	117		ug/L	5.0	SW846 8260B			2/13/20 07:37	PDK	A
Methyl t-Butyl Ether	ND		ug/L	5.0	SW846 8260B			2/13/20 07:37	PDK	A
Naphthalene	212		ug/L	10.0	SW846 8260B			2/13/20 07:37	PDK	A
Toluene	27.7		ug/L	5.0	SW846 8260B			2/13/20 07:37	PDK	A
Total Xylenes	1060		ug/L	15.0	SW846 8260B			2/13/20 07:37	PDK	A
1,2,4-Trimethylbenzene	475		ug/L	5.0	SW846 8260B			2/13/20 07:37	PDK	A
1,3,5-Trimethylbenzene	29.8		ug/L	5.0	SW846 8260B			2/13/20 07:37	PDK	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	84.1		%	62 - 133	SW846 8260B			2/13/20 07:37	PDK	A
4-Bromofluorobenzene (S)	110		%	79 - 114	SW846 8260B			2/13/20 07:37	PDK	A
Dibromofluoromethane (S)	91.1		%	78 - 116	SW846 8260B			2/13/20 07:37	PDK	A
Toluene-d8 (S)	96.9		%	76 - 127	SW846 8260B			2/13/20 07:37	PDK	A

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ANALYTICAL RESULTS

Workorder: 3085709 2171853 / Quinn's Cafe Stop

Lab ID: **3085709006** Date Collected: 2/6/2020 12:58 Matrix: Ground Water

Sample ID: **116-0205-MW6** Date Received: 2/11/2020 08:36

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/L	1.0	SW846 8260B			2/13/20 02:19	PDK	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B			2/13/20 02:19	PDK	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B			2/13/20 02:19	PDK	A
Methyl t-Butyl Ether	4.9		ug/L	1.0	SW846 8260B			2/13/20 02:19	PDK	A
Naphthalene	ND		ug/L	2.0	SW846 8260B			2/13/20 02:19	PDK	A
Toluene	ND		ug/L	1.0	SW846 8260B			2/13/20 02:19	PDK	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B			2/13/20 02:19	PDK	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			2/13/20 02:19	PDK	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			2/13/20 02:19	PDK	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	88.7		%	62 - 133	SW846 8260B			2/13/20 02:19	PDK	A
4-Bromofluorobenzene (S)	110		%	79 - 114	SW846 8260B			2/13/20 02:19	PDK	A
Dibromofluoromethane (S)	91.3		%	78 - 116	SW846 8260B			2/13/20 02:19	PDK	A
Toluene-d8 (S)	95.1		%	76 - 127	SW846 8260B			2/13/20 02:19	PDK	A

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ANALYTICAL RESULTS

Workorder: 3085709 2171853 / Quinn's Cafe Stop

Lab ID: **3085709007** Date Collected: 2/5/2020 14:25 Matrix: Ground Water

Sample ID: **116-0205-MW7** Date Received: 2/11/2020 08:36

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/L	1.0	SW846 8260B			2/13/20 04:58	PDK	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B			2/13/20 04:58	PDK	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B			2/13/20 04:58	PDK	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B			2/13/20 04:58	PDK	A
Naphthalene	ND		ug/L	2.0	SW846 8260B			2/13/20 04:58	PDK	A
Toluene	ND		ug/L	1.0	SW846 8260B			2/13/20 04:58	PDK	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B			2/13/20 04:58	PDK	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			2/13/20 04:58	PDK	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			2/13/20 04:58	PDK	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	87		%	62 - 133	SW846 8260B			2/13/20 04:58	PDK	A
4-Bromofluorobenzene (S)	110		%	79 - 114	SW846 8260B			2/13/20 04:58	PDK	A
Dibromofluoromethane (S)	93.2		%	78 - 116	SW846 8260B			2/13/20 04:58	PDK	A
Toluene-d8 (S)	96.8		%	76 - 127	SW846 8260B			2/13/20 04:58	PDK	A

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ANALYTICAL RESULTS

Workorder: 3085709 2171853 / Quinn's Cafe Stop

Lab ID: **3085709008** Date Collected: 2/5/2020 14:17 Matrix: Ground Water

Sample ID: **116-0205-MW8** Date Received: 2/11/2020 08:36

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/L	1.0	SW846 8260B			2/13/20 02:42	PDK	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B			2/13/20 02:42	PDK	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B			2/13/20 02:42	PDK	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B			2/13/20 02:42	PDK	A
Naphthalene	ND		ug/L	2.0	SW846 8260B			2/13/20 02:42	PDK	A
Toluene	ND		ug/L	1.0	SW846 8260B			2/13/20 02:42	PDK	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B			2/13/20 02:42	PDK	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			2/13/20 02:42	PDK	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			2/13/20 02:42	PDK	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	89.1		%	62 - 133	SW846 8260B			2/13/20 02:42	PDK	A
4-Bromofluorobenzene (S)	114		%	79 - 114	SW846 8260B			2/13/20 02:42	PDK	A
Dibromofluoromethane (S)	91.8		%	78 - 116	SW846 8260B			2/13/20 02:42	PDK	A
Toluene-d8 (S)	95.8		%	76 - 127	SW846 8260B			2/13/20 02:42	PDK	A

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ANALYTICAL RESULTS

Workorder: 3085709 2171853 / Quinn's Cafe Stop

Lab ID: **3085709009** Date Collected: 2/6/2020 09:21 Matrix: Ground Water

Sample ID: **116-0205-MW9** Date Received: 2/11/2020 08:36

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/L	1.0	SW846 8260B			2/13/20 03:05	PDK	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B			2/13/20 03:05	PDK	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B			2/13/20 03:05	PDK	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B			2/13/20 03:05	PDK	A
Naphthalene	ND		ug/L	2.0	SW846 8260B			2/13/20 03:05	PDK	A
Toluene	ND		ug/L	1.0	SW846 8260B			2/13/20 03:05	PDK	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B			2/13/20 03:05	PDK	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			2/13/20 03:05	PDK	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			2/13/20 03:05	PDK	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	88.3		%	62 - 133	SW846 8260B			2/13/20 03:05	PDK	A
4-Bromofluorobenzene (S)	113		%	79 - 114	SW846 8260B			2/13/20 03:05	PDK	A
Dibromofluoromethane (S)	93.1		%	78 - 116	SW846 8260B			2/13/20 03:05	PDK	A
Toluene-d8 (S)	95.5		%	76 - 127	SW846 8260B			2/13/20 03:05	PDK	A

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ANALYTICAL RESULTS

Workorder: 3085709 2171853 / Quinn's Cafe Stop

Lab ID: **3085709010** Date Collected: 2/5/2020 12:43 Matrix: Ground Water

Sample ID: **116-0205-MW10** Date Received: 2/11/2020 08:36

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/L	1.0	SW846 8260B			2/13/20 04:35	PDK	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B			2/13/20 04:35	PDK	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B			2/13/20 04:35	PDK	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B			2/13/20 04:35	PDK	A
Naphthalene	ND		ug/L	2.0	SW846 8260B			2/13/20 04:35	PDK	A
Toluene	ND		ug/L	1.0	SW846 8260B			2/13/20 04:35	PDK	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B			2/13/20 04:35	PDK	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			2/13/20 04:35	PDK	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			2/13/20 04:35	PDK	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	88.1		%	62 - 133	SW846 8260B			2/13/20 04:35	PDK	A
4-Bromofluorobenzene (S)	111		%	79 - 114	SW846 8260B			2/13/20 04:35	PDK	A
Dibromofluoromethane (S)	93		%	78 - 116	SW846 8260B			2/13/20 04:35	PDK	A
Toluene-d8 (S)	96.6		%	76 - 127	SW846 8260B			2/13/20 04:35	PDK	A

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ANALYTICAL RESULTS

Workorder: 3085709 2171853 / Quinn's Cafe Stop

Lab ID: **3085709011** Date Collected: 2/5/2020 10:17 Matrix: Ground Water

Sample ID: **116-0205-MW11** Date Received: 2/11/2020 08:36

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/L	1.0	SW846 8260B			2/13/20 06:06	PDK	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B			2/13/20 06:06	PDK	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B			2/13/20 06:06	PDK	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B			2/13/20 06:06	PDK	A
Naphthalene	ND		ug/L	2.0	SW846 8260B			2/13/20 06:06	PDK	A
Toluene	ND		ug/L	1.0	SW846 8260B			2/13/20 06:06	PDK	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B			2/13/20 06:06	PDK	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			2/13/20 06:06	PDK	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			2/13/20 06:06	PDK	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	86.7		%	62 - 133	SW846 8260B			2/13/20 06:06	PDK	A
4-Bromofluorobenzene (S)	113		%	79 - 114	SW846 8260B			2/13/20 06:06	PDK	A
Dibromofluoromethane (S)	94.7		%	78 - 116	SW846 8260B			2/13/20 06:06	PDK	A
Toluene-d8 (S)	96.7		%	76 - 127	SW846 8260B			2/13/20 06:06	PDK	A

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ANALYTICAL RESULTS

Workorder: 3085709 2171853 / Quinn's Cafe Stop

Lab ID: **3085709012** Date Collected: 2/6/2020 08:29 Matrix: Ground Water

Sample ID: **116-0205-MW12** Date Received: 2/11/2020 08:36

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/L	1.0	SW846 8260B			2/13/20 04:12	PDK	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B			2/13/20 04:12	PDK	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B			2/13/20 04:12	PDK	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B			2/13/20 04:12	PDK	A
Naphthalene	ND		ug/L	2.0	SW846 8260B			2/13/20 04:12	PDK	A
Toluene	ND		ug/L	1.0	SW846 8260B			2/13/20 04:12	PDK	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B			2/13/20 04:12	PDK	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			2/13/20 04:12	PDK	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			2/13/20 04:12	PDK	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	89.8		%	62 - 133	SW846 8260B			2/13/20 04:12	PDK	A
4-Bromofluorobenzene (S)	111		%	79 - 114	SW846 8260B			2/13/20 04:12	PDK	A
Dibromofluoromethane (S)	92.3		%	78 - 116	SW846 8260B			2/13/20 04:12	PDK	A
Toluene-d8 (S)	96.3		%	76 - 127	SW846 8260B			2/13/20 04:12	PDK	A

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ANALYTICAL RESULTS

Workorder: 3085709 2171853 / Quinn's Cafe Stop

Lab ID: **3085709013** Date Collected: 2/5/2020 13:32 Matrix: Ground Water

Sample ID: **116-0205-MW13** Date Received: 2/11/2020 08:36

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/L	1.0	SW846 8260B			2/13/20 06:52	PDK	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B			2/13/20 06:52	PDK	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B			2/13/20 06:52	PDK	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B			2/13/20 06:52	PDK	A
Naphthalene	ND		ug/L	2.0	SW846 8260B			2/13/20 06:52	PDK	A
Toluene	ND		ug/L	1.0	SW846 8260B			2/13/20 06:52	PDK	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B			2/13/20 06:52	PDK	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			2/13/20 06:52	PDK	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			2/13/20 06:52	PDK	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	83		%	62 - 133	SW846 8260B			2/13/20 06:52	PDK	A
4-Bromofluorobenzene (S)	113		%	79 - 114	SW846 8260B			2/13/20 06:52	PDK	A
Dibromofluoromethane (S)	93.5		%	78 - 116	SW846 8260B			2/13/20 06:52	PDK	A
Toluene-d8 (S)	97.5		%	76 - 127	SW846 8260B			2/13/20 06:52	PDK	A

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ANALYTICAL RESULTS

Workorder: 3085709 2171853 / Quinn's Cafe Stop

Lab ID: **3085709014** Date Collected: 2/5/2020 10:30 Matrix: Ground Water

Sample ID: **116-0205-MW14** Date Received: 2/11/2020 08:36

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/L	1.0	SW846 8260B			2/13/20 05:21	PDK	A
Ethylbenzene	4.7		ug/L	1.0	SW846 8260B			2/13/20 05:21	PDK	A
Isopropylbenzene	1.2		ug/L	1.0	SW846 8260B			2/13/20 05:21	PDK	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B			2/13/20 05:21	PDK	A
Naphthalene	ND		ug/L	2.0	SW846 8260B			2/13/20 05:21	PDK	A
Toluene	ND		ug/L	1.0	SW846 8260B			2/13/20 05:21	PDK	A
Total Xylenes	7.6		ug/L	3.0	SW846 8260B			2/13/20 05:21	PDK	A
1,2,4-Trimethylbenzene	17.6		ug/L	1.0	SW846 8260B			2/13/20 05:21	PDK	A
1,3,5-Trimethylbenzene	2.9		ug/L	1.0	SW846 8260B			2/13/20 05:21	PDK	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	85.8		%	62 - 133	SW846 8260B			2/13/20 05:21	PDK	A
4-Bromofluorobenzene (S)	110		%	79 - 114	SW846 8260B			2/13/20 05:21	PDK	A
Dibromofluoromethane (S)	93		%	78 - 116	SW846 8260B			2/13/20 05:21	PDK	A
Toluene-d8 (S)	97.8		%	76 - 127	SW846 8260B			2/13/20 05:21	PDK	A

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ANALYTICAL RESULTS

Workorder: 3085709 2171853 / Quinn's Cafe Stop

Lab ID: **3085709015** Date Collected: 2/6/2020 14:14 Matrix: Ground Water

Sample ID: **116-0205-MW15** Date Received: 2/11/2020 08:36

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	*Cntr*
VOLATILE ORGANICS										
Benzene	115	1	ug/L	5.0	SW846 8260B			2/13/20 08:00	PDK	A
Ethylbenzene	887		ug/L	5.0	SW846 8260B			2/13/20 08:00	PDK	A
Isopropylbenzene	112		ug/L	5.0	SW846 8260B			2/13/20 08:00	PDK	A
Methyl t-Butyl Ether	25.7		ug/L	5.0	SW846 8260B			2/13/20 08:00	PDK	A
Naphthalene	276		ug/L	10.0	SW846 8260B			2/13/20 08:00	PDK	A
Toluene	12.6		ug/L	5.0	SW846 8260B			2/13/20 08:00	PDK	A
Total Xylenes	610		ug/L	15.0	SW846 8260B			2/13/20 08:00	PDK	A
1,2,4-Trimethylbenzene	743		ug/L	5.0	SW846 8260B			2/13/20 08:00	PDK	A
1,3,5-Trimethylbenzene	ND		ug/L	5.0	SW846 8260B			2/13/20 08:00	PDK	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	86.3		%	62 - 133	SW846 8260B			2/13/20 08:00	PDK	A
4-Bromofluorobenzene (S)	109		%	79 - 114	SW846 8260B			2/13/20 08:00	PDK	A
Dibromofluoromethane (S)	92.6		%	78 - 116	SW846 8260B			2/13/20 08:00	PDK	A
Toluene-d8 (S)	94		%	76 - 127	SW846 8260B			2/13/20 08:00	PDK	A

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ANALYTICAL RESULTS

Workorder: 3085709 2171853 / Quinn's Cafe Stop

Lab ID: **3085709016** Date Collected: 2/5/2020 10:38 Matrix: Ground Water

Sample ID: **116-0205-MW16** Date Received: 2/11/2020 08:36

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	50.1		ug/L	1.0	SW846 8260B			2/13/20 07:15	PDK	A
Ethylbenzene	44.2		ug/L	1.0	SW846 8260B			2/13/20 07:15	PDK	A
Isopropylbenzene	10.5		ug/L	1.0	SW846 8260B			2/13/20 07:15	PDK	A
Methyl t-Butyl Ether	185		ug/L	1.0	SW846 8260B			2/13/20 07:15	PDK	A
Naphthalene	ND		ug/L	2.0	SW846 8260B			2/13/20 07:15	PDK	A
Toluene	1.1		ug/L	1.0	SW846 8260B			2/13/20 07:15	PDK	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B			2/13/20 07:15	PDK	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			2/13/20 07:15	PDK	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			2/13/20 07:15	PDK	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	81.1		%	62 - 133	SW846 8260B			2/13/20 07:15	PDK	A
4-Bromofluorobenzene (S)	112		%	79 - 114	SW846 8260B			2/13/20 07:15	PDK	A
Dibromofluoromethane (S)	92.9		%	78 - 116	SW846 8260B			2/13/20 07:15	PDK	A
Toluene-d8 (S)	96.8		%	76 - 127	SW846 8260B			2/13/20 07:15	PDK	A

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ANALYTICAL RESULTS

Workorder: 3085709 2171853 / Quinn's Cafe Stop

Lab ID: **3085709017** Date Collected: 2/6/2020 10:42 Matrix: Ground Water

Sample ID: **116-0205-MW17** Date Received: 2/11/2020 08:36

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	4.3		ug/L	1.0	SW846 8260B			2/13/20 03:50	PDK	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B			2/13/20 03:50	PDK	A
Isopropylbenzene	3.1		ug/L	1.0	SW846 8260B			2/13/20 03:50	PDK	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B			2/13/20 03:50	PDK	A
Naphthalene	ND		ug/L	2.0	SW846 8260B			2/13/20 03:50	PDK	A
Toluene	ND		ug/L	1.0	SW846 8260B			2/13/20 03:50	PDK	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B			2/13/20 03:50	PDK	A
1,2,4-Trimethylbenzene	24.8		ug/L	1.0	SW846 8260B			2/13/20 03:50	PDK	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			2/13/20 03:50	PDK	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	88.7		%	62 - 133	SW846 8260B			2/13/20 03:50	PDK	A
4-Bromofluorobenzene (S)	109		%	79 - 114	SW846 8260B			2/13/20 03:50	PDK	A
Dibromofluoromethane (S)	92		%	78 - 116	SW846 8260B			2/13/20 03:50	PDK	A
Toluene-d8 (S)	95.8		%	76 - 127	SW846 8260B			2/13/20 03:50	PDK	A

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ANALYTICAL RESULTS

Workorder: 3085709 2171853 / Quinn's Cafe Stop

Lab ID: **3085709018** Date Collected: 2/5/2020 14:43 Matrix: Ground Water

Sample ID: **116-0205-FB1** Date Received: 2/11/2020 08:36

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/L	1.0	SW846 8260B			2/13/20 01:34	PDK	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B			2/13/20 01:34	PDK	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B			2/13/20 01:34	PDK	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B			2/13/20 01:34	PDK	A
Naphthalene	ND		ug/L	2.0	SW846 8260B			2/13/20 01:34	PDK	A
Toluene	ND		ug/L	1.0	SW846 8260B			2/13/20 01:34	PDK	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B			2/13/20 01:34	PDK	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			2/13/20 01:34	PDK	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			2/13/20 01:34	PDK	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	88.9		%	62 - 133	SW846 8260B			2/13/20 01:34	PDK	A
4-Bromofluorobenzene (S)	110		%	79 - 114	SW846 8260B			2/13/20 01:34	PDK	A
Dibromofluoromethane (S)	90.7		%	78 - 116	SW846 8260B			2/13/20 01:34	PDK	A
Toluene-d8 (S)	95.1		%	76 - 127	SW846 8260B			2/13/20 01:34	PDK	A

Amy K Borden

Ms. Amy K Borden
Project Coordinator

ALS Environmental

301 Fulling Mill Road - Middletown, PA 17057 - Phone: 717-944-5541 - Fax: 717-944-1430 - www.alsglobal.com

NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: PJLA 74618
State Certifications: FL E871113 , WA C999 , MD 128 , VA 460157 , WV DW 9961-C , WV 343

ANALYTICAL RESULTS

Workorder: 3085709 2171853 / Quinn's Cafe Stop

Lab ID: **3085709019** Date Collected: 2/6/2020 14:21 Matrix: Ground Water

Sample ID: **116-0205-FB2** Date Received: 2/11/2020 08:36

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/L	1.0	SW846 8260B			2/13/20 01:57	PDK	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B			2/13/20 01:57	PDK	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B			2/13/20 01:57	PDK	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B			2/13/20 01:57	PDK	A
Naphthalene	ND		ug/L	2.0	SW846 8260B			2/13/20 01:57	PDK	A
Toluene	ND		ug/L	1.0	SW846 8260B			2/13/20 01:57	PDK	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B			2/13/20 01:57	PDK	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			2/13/20 01:57	PDK	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			2/13/20 01:57	PDK	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	91.2		%	62 - 133	SW846 8260B			2/13/20 01:57	PDK	A
4-Bromofluorobenzene (S)	111		%	79 - 114	SW846 8260B			2/13/20 01:57	PDK	A
Dibromofluoromethane (S)	92.2		%	78 - 116	SW846 8260B			2/13/20 01:57	PDK	A
Toluene-d8 (S)	96.7		%	76 - 127	SW846 8260B			2/13/20 01:57	PDK	A

Ms. Amy K Borden
Project Coordinator

ANALYTICAL RESULTS

Workorder: 3085709 2171853 / Quinn's Cafe Stop

PARAMETER QUALIFIERS

Lab ID	#	Sample ID	Analytical Method	Analyte
3085709002	1	116-0205-MW2	SW846 8260B	Benzene
The GCMS volatiles analysis was performed at a dilution due to the level of target compounds.				
3085709003	1	116-0205-MW3	SW846 8260B	Benzene
The GCMS volatiles analysis was performed at a dilution due to the level of target compounds.				
3085709004	2	116-0205-MW4	SW846 8260B	Benzene
The GCMS volatiles analysis was performed at a dilution due to the level of target compounds.				
3085709005	1	116-0205-MW5	SW846 8260B	Benzene
The GCMS volatiles analysis was performed at a dilution due to the level of target compounds.				
3085709015	1	116-0205-MW15	SW846 8260B	Benzene
The GCMS volatiles analysis was performed at a dilution due to the level of target compounds.				

ANALYSIS - PREP METHOD CROSS REFERENCE TABLE

Workorder: 3085709 2171853 / Quinn's Cafe Stop

Lab ID	Sample ID	Analysis Method	Prep Method
3085709001	116-0205-MW1	SW846 8260B	
3085709002	116-0205-MW2	SW846 8260B	
3085709003	116-0205-MW3	SW846 8260B	
3085709004	116-0205-MW4	SW846 8260B	
3085709005	116-0205-MW5	SW846 8260B	
3085709006	116-0205-MW6	SW846 8260B	
3085709007	116-0205-MW7	SW846 8260B	
3085709008	116-0205-MW8	SW846 8260B	
3085709009	116-0205-MW9	SW846 8260B	
3085709010	116-0205-MW10	SW846 8260B	
3085709011	116-0205-MW11	SW846 8260B	
3085709012	116-0205-MW12	SW846 8260B	
3085709013	116-0205-MW13	SW846 8260B	
3085709014	116-0205-MW14	SW846 8260B	
3085709015	116-0205-MW15	SW846 8260B	
3085709016	116-0205-MW16	SW846 8260B	
3085709017	116-0205-MW17	SW846 8260B	
3085709018	116-0205-FB1	SW846 8260B	
3085709019	116-0205-FB2	SW846 8260B	

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

CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

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

1 of 2

* 3 0 8 5 7 0 9 *

Client Name: LaBella Associates, P.C.
Address: 1000 Dunham Drive, Suite B
Dunmore, PA 18512
Contact: Martin Gilgallon
Phone#: (570) 487-1959 / (570) 342-3101
Project Name/#: 2171853 / Quinn's Café Stop
Bill To: APPA@labellapc.com

TAT: [X] Normal-Standard TAT is 10-12 business days. [ ] Rush-Subject to ALS approval and surcharges.
Date Required: ______ Approved By: ______
Email? [Y] -Y mgilgallon@labellapc.com
Fax? [ ] -Y No.:

Container Type: CG | Container Size: 40 ml | Preservative: HCL

ANALYSES/METHOD REQUESTED: Unleaded Gasoline

Enter Number of Containers Per Sample or Field Results Below.

Sample Description/Location (as it will appear on the lab report)	Sample Date	Time	*G or C	**Matrix	Unleaded Gasoline
1) 116-0205-MW1	2/6/20	1000	G	GW	2
2) 116-0205-MW2	2/6/20	1153	G	GW	2
3) 116-0205-MW3	2/6/20	1347	G	GW	2
4) 116-0205-MW4	2/5/20	1100	G	GW	2
5) 116-0205-MW5	2/5/20	1120	G	GW	2
6) 116-0205-MW6	2/6/20	1258	G	GW	2
7) 116-0205-MW7	2/5/20	1425	G	GW	2
8) 116-0205-MW8	2/5/20	1417	G	GW	2
9) 116-0205-MW9	2/6/20	0921	G	GW	2
10) 116-0205-MW10	2/5/20	1243	G	GW	2

(Completed by Receiving Lab)
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?			

Courier/Tracking #:
Sample/COC Comments

ALS Field Services: __Pickup __Labor __Composite Sampling __Rental Equipment __Other:

Project Comments:
FedEx #8152 8248 0156

LOGGED BY(signature): ____ DATE ____ TIME ____
REVIEWED BY(signature): ____ DATE ____ TIME ____

Relinquished By / Company Name	Date	Time	Received By / Company Name	Date	Time
1 Chris [signature] / LaBella	2/6/20	1300	2 FEDEX #8152 8248 0156	2/10/20	
3 FedEx			4 [signature]	2/11/20	836
5			6		
7			8		
9			10		

Data Deliverables: [X] Standard [ ] CLP-like [ ] USACE [ ]
Special Processing: USACE [ ] Navy [ ]
State Samples Collected In: [ ] NY [ ] NJ [X] PA [ ] NC
Reportable to PADEP? Yes [ ]
PWSID #
Sample Disposal: Lab [ ] Special [ ]
EDDS: Format Type-

* G=Grab; C=Composite **Matrix - AI=Air; DW=Drinking Water; GW=Groundwater; OI=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 Environmental
34 Dogwood Lane
Middletown, PA 17057
P. 717-944-5541
F. 717-944-1430

CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

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

COC #: 300709 | 2 of 2
ALS Quote #:

Client Name: LaBella Associates, P.C.
Address: 1000 Dunham Drive, Suite B
Dunmore, PA 18512
Contact: Martin Gilgallon
Phone#: (570) 487-1959 / (570) 342-3101
Project Name/#: 2171853 / Quinn's Café Stop
Bill To: APPA@labellapc.com

TAT [X] Normal-Standard TAT is 10-12 business days.
[ ] Rush-Subject to ALS approval and surcharges.
Date Required: _____ Approved By: _____
Email? [Y] -Y mgilgallon@labellapc.com
Fax? [ ] -Y No.: _____

Sample Description/Location (as it will appear on the lab report)	Sample Date	Time	*G or C	**Matrix	Container Type	Container Size	Preservative	Unleaded Gasoline
					CG	40 ml	HCL	ANALYSES/METHOD REQUESTED
11) 116-0205-MW11	2/5/20	1017	G	GW				2
12) 116-0205-MW12	2/6/20	0829	G	GW				2
13) 116-0205-MW13	2/5/20	1332	G	GW				2
14) 116-0205-MW14	2/5/20	1030	G	GW				2
15) 116-0205-MW15	2/6/20	1414	G	GW				2
16) 116-0205-MW16	2/5/20	1038	G	GW				2
17) 116-0205-MW17	2/6/20	1042	G	GW				2
18) 116-0205-FB1	2/5/20	1443	G	DI				2
19) 116-0205-FB2	2/6/20	1421	G	DI				2
								Enter Number of Containers Per Sample or Field Results Below.

Receipt Information (completed by Receiving Lab)
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?			

Courier/Tracking #:

Sample/COC Comments

ALS Field Services: _Pickup _Labor
_Composite Sampling _Rental Equipment
_Other: _____

Project Comments:
FedEx #8152 8248 0156

LOGGED BY(signature): DATE TIME
REVIEWED BY(signature): DATE TIME

Relinquished By / Company Name	Date	Time	Received By / Company Name	Date	Time
1 Chris Hoffman / SAMPLED BY / LaBella	2/6/20	1300	2 FED EX #8152 8248 0156	2/10/20	
3 FedEx			4 [illegible]	2/11/20	835
5			6		
7			8		
9			10		

Data Deliverables: [X] Standard [ ] CLP-like [ ] USACE
Special Processing: USACE [ ] Navy [ ]
State Samples Collected In: [ ] NY [ ] NJ [X] PA [ ] NC
Reportable to PADEP? Yes [ ]
PWSID # _____
Sample Disposal: Lab [ ] Special [ ]
EDDS: Format Type: _____

* G=Grab; C=Composite
**Matrix - Al=Air; DW=Drinking Water; GW=Groundwater; Oil=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: LaBella | Work Order #: 3088709 | Initials: MS | Date: 2/11

1. Were airbills / tracking numbers present and recorded?	NONE	YES	NO
Tracking number: 8152 8248 0156			
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?[1]	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 #: _____

Temperature (°C): 4

Thermometer ID: 421

Radiological (µCi): _____

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

[1]Final determination of correct preservation for analysis such as volatiles, microbiology, and oil and grease is made in the analytical department at the time of or following the analysis

Rev 1/20/2020

ATTACHMENT N

Groundwater Isopleth Maps

ATTACHMENT N-1

Groundwater Isopleth Maps – December 2019

BENZENE (UG/L)

- 0 - 5
- 5 - 50
- 50 - 500
- 500 - 5000

1.) DECEMBER 5, 2019 GROUNDWATER ELEVATION CONTOURS DEPICTED IN BLUE. CONTOUR INTERVAL = 2.0'.

2.) BENZENE MSC = 5.0 UG/L. EXCEEDANCES IN RED.

N

MW-12 0.00</1.00

937.00

939.00

941.00

943.00

945.00

947.00

949.00

CHARLES STREET

RESIDENTIAL

RESIDENTIAL

RESIDENTIAL

RESIDENTIAL

RESIDENTIAL

COMMERCIAL

MW-11 0.00</1.00

QUINN'S SUPERMARKET

UST VENT

APPROX. PROPERTY BOUNDARY

GARAGE

CONVENIENCE STORE

KRENITSKY PROPERTY

APPROX. PROPERTY LINE

T005 FILL

UST VENTS

MW-6 3.20

MW-14 6.30

BURIED NATURAL GAS

DIESEL DISPENSERS

BURIED SEWER

PAVED

MW-15 259.00

MW-2 97.70

MW-1 0.00</1.00

BURIED CATHODIC PROTECTION

MW-3 501.00

MW-16 3.30

MAIN STREET

GASOLINE DISPENSERS

GASOLINE DISPENSERS

POLE

MW-17 11.30

PAVED

BURIED WATER

KENNEDY DRIVE

MW-4 2.10

MW-5 77.80

STORM DRAIN

MW-7 0.00</1.00

OVERHEAD POWER

MW-13 0.00</1.00

VACANT LOT

FETCHO PROPERTY

SIGNS

MW-8 0.00</1.00

NBT BANK

DELAWARE STREET

APPROX. PROPERTY LINE

OVERHEAD POWER

RESIDENTIAL

MW-9 0.00</1.00

INDUSTRIAL

MW-10 0.00</1.00

CHEKAN PROPERTY

MONITORING WELL LOCATION

0 40 80 feet

LaBella Powered by partnership.

GROUNDWATER ISOPLETH MAP
BENZENE - DECEMBER 2019
QUINN'S CAFE STOP PROPERTY
224 MAIN STREET
BOROUGH OF ARCHBALD,
LACKAWANNA COUNTY, PENNSYLVANIA

DRAWN BY: KC DATE: 12/30/2019

SCALE: 1" = 40'

ETHYLBENZENE (UG/L)

- 0 - 700
- 700 - 7000
- 7000 - 70000

1.) DECEMBER 5, 2019 GROUNDWATER ELEVATION CONTOURS DEPICTED IN BLUE. CONTOUR INTERVAL = 2.0'.

2.) ETHYLBENZENE MSC = 700.0 UG/L. EXCEEDANCES IN RED.

N

MW-12 0.00</1.00

937.00

939.00

941.00

943.00

945.00

947.00

949.00

RESIDENTIAL

CHARLES STREET

MW-11 0.00</1.00

QUINN'S SUPERMARKET

UST VENT

APPROX. PROPERTY BOUNDARY

GARAGE

KRENITSKY PROPERTY

APPROX. PROPERTY LINE

T005 FILL

UST VENTS

MW-6 10.30

CONVENIENCE STORE

28.30

MW-14

BURIED NATURAL GAS

DIESEL DISPENSERS

6 7 5

BURIED SEWER

PAVED

MW-1 0.00</1.00

MW-2 203.00

T004 FILL

T002 FILL

T003 FILL

700

MW-15 834.00

BURIED CATHODIC PROTECTION

870.00

MW-3

MW-16 0.00</1.00

MAIN STREET

COMMERCIAL

3 4

GASOLINE DISPENSERS

GASOLINE DISPENSERS

STP

1 2

PAVED

BURIED WATER

POLE

T001 FILL

MW-17 STP 0.00</1.00

MW-4 1.00

KENNEDY DRIVE

MW-5 353.00

STORM DRAIN

MW-7 0.00</1.00

OVERHEAD POWER

MW-13 0.00</1.00

VACANT LOT

FETCHO PROPERTY

SIGNS

MW-8 0.00</1.00

DELAWARE STREET

NBT BANK

APPROX. PROPERTY LINE

OVERHEAD POWER

RESIDENTIAL

MW-9 0.00</1.00

INDUSTRIAL

MW-10 0.00</1.00

CHEKAN PROPERTY

MONITORING WELL LOCATION

0 40 80 feet

LaBella Powered by partnership.

GROUNDWATER ISOPLETH MAP
ETHYLBENZENE - DECEMBER 2019
QUINN'S CAFE STOP PROPERTY
224 MAIN STREET
BOROUGH OF ARCHBALD,
LACKAWANNA COUNTY, PENNSYLVANIA

DRAWN BY: KC DATE: 12/30/2019

SCALE: 1" = 40'

MTBE (UG/L)

- 0 - 20
- 20 - 200
- 200 - 2000

1.) DECEMBER 5, 2019 GROUNDWATER ELEVATION CONTOURS DEPICTED IN BLUE. CONTOUR INTERVAL = 2.0'.

2.) MTBE MSC = 20.0 UG/L. EXCEEDANCES IN RED.

N

MW-12 1.40

937.00

939.00

941.00

943.00

945.00

947.00

949.00

CHARLES STREET

RESIDENTIAL

RESIDENTIAL

RESIDENTIAL

RESIDENTIAL

RESIDENTIAL

COMMERCIAL

MW-11 0.00</1.00

QUINN'S SUPERMARKET

UST VENT

APPROX. PROPERTY BOUNDARY

GARAGE

KRENITSKY PROPERTY

APPROX. PROPERTY LINE

T005 FILL

MW-6 4.50

UST VENTS

CONVENIENCE STORE

0.00</1.00

MW-14

BURIED NATURAL GAS

DIESEL DISPENSERS

6 7 5

20

MW-15 47.30

BURIED SEWER

PAVED

T004 FILL

BURIED CATHODIC PROTECTION

MW-1 0.00</1.00

MW-2 2.10

65.00

MW-3

MW-16 380.00

MAIN STREET

T003 FILL

T002 FILL

3 4

GASOLINE DISPENSERS

GASOLINE DISPENSERS

STP

1 2

PAVED

BURIED WATER

POLE

T001 FILL

MW-17 STP

0.00</1.00

MW-4 246.00

200

KENNEDY DRIVE

MW-5 9.30

MW-7 0.00</1.00

STORM DRAIN

OVERHEAD POWER

20

MW-13 0.00</1.00

VACANT LOT

FETCHO PROPERTY

SIGNS

MW-8 0.00</1.00

DELAWARE STREET

NBT BANK

OVERHEAD POWER

APPROX. PROPERTY LINE

RESIDENTIAL

MW-9 0.00</1.00

INDUSTRIAL

MW-10 0.00</1.00

CHEKAN PROPERTY

MONITORING WELL LOCATION

0 40 80 feet

LaBella Powered by partnership

GROUNDWATER ISOPLETH MAP
MTBE - DECEMBER 2019
QUINN'S CAFE STOP PROPERTY
224 MAIN STREET
BOROUGH OF ARCHBALD,
LACKAWANNA COUNTY, PENNSYLVANIA

DRAWN BY: KC DATE: 12/30/2019

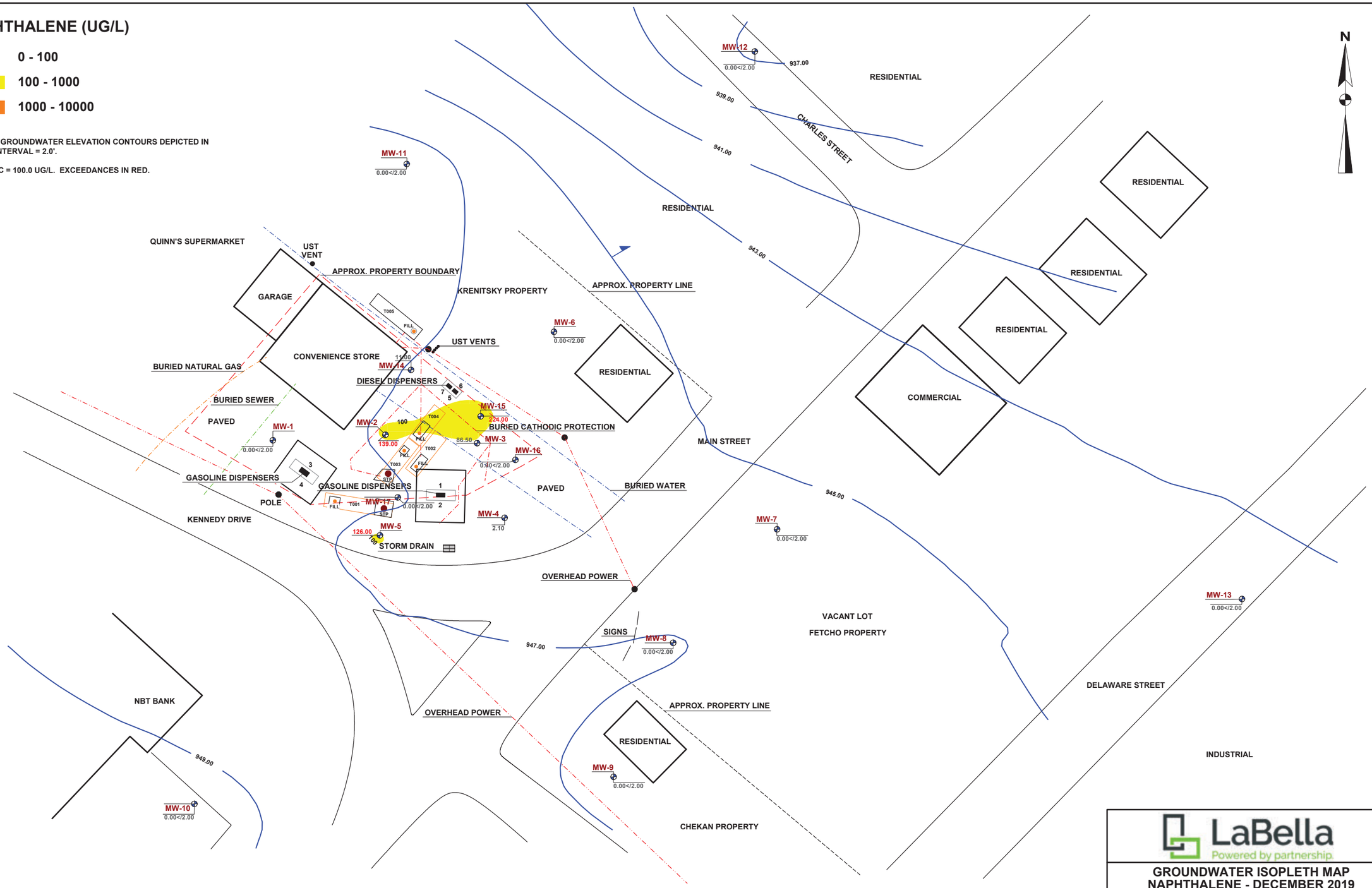
SCALE: 1" = 40'

NAPHTHALENE (UG/L)

- 0 - 100
- 100 - 1000
- 1000 - 10000

1.) DECEMBER 5, 2019 GROUNDWATER ELEVATION CONTOURS DEPICTED IN BLUE. CONTOUR INTERVAL = 2.0'.

2.) NAPHTHALENE MSC = 100.0 UG/L. EXCEEDANCES IN RED.



MONITORING WELL LOCATION

0 40 80 feet

LaBella
Powered by partnership.

GROUNDWATER ISOPLETH MAP
NAPHTHALENE - DECEMBER 2019
QUINN'S CAFE STOP PROPERTY
224 MAIN STREET
BOROUGH OF ARCHBALD,
LACKAWANNA COUNTY, PENNSYLVANIA

DRAWN BY: KC DATE: 12/30/2019
SCALE: 1" = 40'

1,2,4-TMB (UG/L)

- 0 - 62
- 62 - 620
- 620 - 6200

1.) DECEMBER 5, 2019 GROUNDWATER ELEVATION CONTOURS DEPICTED IN BLUE. CONTOUR INTERVAL = 2.0'.

2.) 1,2,4-TMB MSC = 62.0 UG/L. EXCEEDANCES IN RED.

N

MW-12 0.00</1.00

937.00

939.00

941.00

943.00

945.00

947.00

949.00

CHARLES STREET

RESIDENTIAL

RESIDENTIAL

RESIDENTIAL

RESIDENTIAL

RESIDENTIAL

COMMERCIAL

MW-11 0.00</1.00

QUINN'S SUPERMARKET

UST VENT

APPROX. PROPERTY BOUNDARY

GARAGE

KRENITSKY PROPERTY

APPROX. PROPERTY LINE

T005 FILL

MW-6 3.40

UST VENTS

CONVENIENCE STORE

99.20

MW-14

62

BURIED NATURAL GAS

DIESEL DISPENSERS

6 7 5

MW-15 557.00

BURIED SEWER

T004 FILL

PAVED

MW-1 0.00</1.00

MW-2 25.90

62

BURIED CATHODIC PROTECTION

40.10 MW-3

MW-16 0.00</1.00

MAIN STREET

T002 FILL

T003 FILL

STP

3 4

GASOLINE DISPENSERS

GASOLINE DISPENSERS

1 2

PAVED

BURIED WATER

POLE

T001 FILL

MW-17 STP

0.00</1.00

KENNEDY DRIVE

MW-4 0.00</1.00

MW-5 28.10

MW-7 0.00</1.00

STORM DRAIN

OVERHEAD POWER

MW-13 0.00</1.00

VACANT LOT

FETCHO PROPERTY

SIGNS

MW-8 0.00</1.00

DELAWARE STREET

NBT BANK

APPROX. PROPERTY LINE

OVERHEAD POWER

RESIDENTIAL

MW-9 0.00</1.00

INDUSTRIAL

MW-10 0.00</1.00

CHEKAN PROPERTY

MONITORING WELL LOCATION

0 40 80 feet

LaBella Powered by partnership

GROUNDWATER ISOPLETH MAP
1,2,4-TMB - DECEMBER 2019
QUINN'S CAFE STOP PROPERTY
224 MAIN STREET
BOROUGH OF ARCHBALD,
LACKAWANNA COUNTY, PENNSYLVANIA

DRAWN BY: KC DATE: 12/30/2019

SCALE: 1" = 40'

ATTACHMENT N-2

Groundwater Isopleth Maps – February 2020

BENZENE (UG/L)

- 0 - 5
- 5 - 50
- 50 - 500
- 500 - 5000

1.) FEBRUARY 5, 2020 GROUNDWATER ELEVATION CONTOURS DEPICTED IN BLUE. CONTOUR INTERVAL = 2.0'.

2.) BENZENE MSC = 5.0 UG/L. EXCEEDANCES IN RED.

N

MW-12 0.00</1.00 937.00

939.00

941.00

943.00

945.00

947.00

MW-11 0.00</1.00

RESIDENTIAL

CHARLES STREET

RESIDENTIAL

RESIDENTIAL

RESIDENTIAL

RESIDENTIAL

COMMERCIAL

943.00

QUINN'S SUPERMARKET

UST VENT

APPROX. PROPERTY BOUNDARY

GARAGE

KRENITSKY PROPERTY

APPROX. PROPERTY LINE

T005 FILL

UST VENTS

MW-6 0.00</1.00

CONVENIENCE STORE

MW-14 0.00</1.00

BURIED NATURAL GAS

DIESEL DISPENSERS

RESIDENTIAL

BURIED SEWER

PAVED

MW-15 115.00

MW-2 43.50

T004

BURIED CATHODIC PROTECTION

MW-1 0.00</1.00

MW-3 371.00

MW-16 50.10

T002

T003

MAIN STREET

GASOLINE DISPENSERS

GASOLINE DISPENSERS

PAVED

BURIED WATER

POLE

T001

MW-17 4.30

MW-4 0.00</5.00

KENNEDY DRIVE

MW-5 67.30

STORM DRAIN

MW-7 0.00</1.00

OVERHEAD POWER

945.00

MW-13 0.00</1.00

947.00

SIGNS

MW-8 0.00</1.00

VACANT LOT

FETCHO PROPERTY

DELAWARE STREET

NBT BANK

OVERHEAD POWER

APPROX. PROPERTY LINE

RESIDENTIAL

INDUSTRIAL

949.00

MW-9 0.00</1.00

MW-10 0.00</1.00

CHEKAN PROPERTY

MONITORING WELL LOCATION

0 40 80 feet

LaBella Powered by partnership

GROUNDWATER ISOPLETH MAP
BENZENE - FEBRUARY 2020
QUINN'S CAFE STOP PROPERTY
224 MAIN STREET
BOROUGH OF ARCHBALD,
LACKAWANNA COUNTY, PENNSYLVANIA

DRAWN BY: KC DATE: 03/06/2020

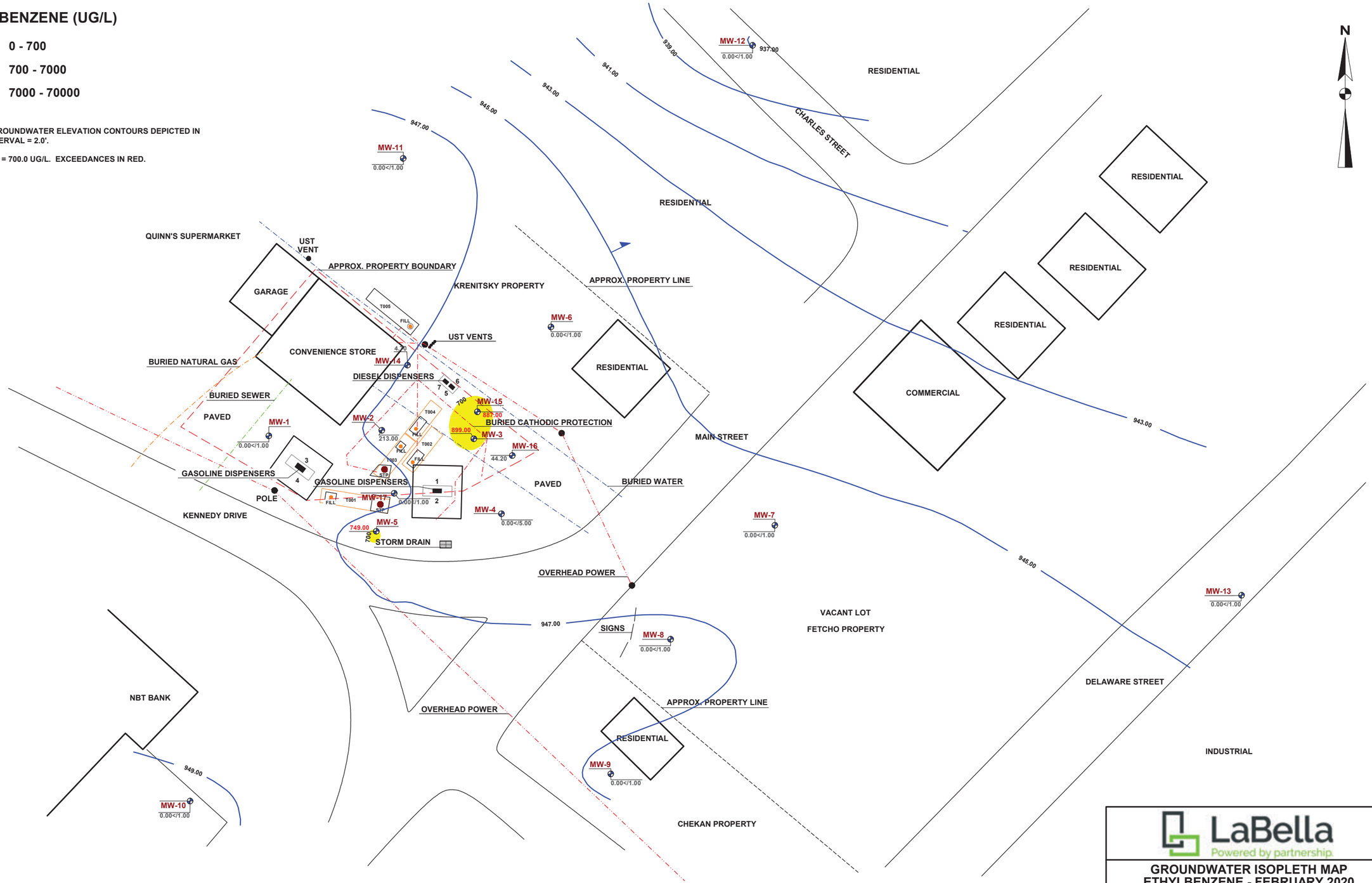
SCALE: 1" = 40'

ETHYLBENZENE (UG/L)

- 0 - 700
- 700 - 7000
- 7000 - 70000

1.) FEBRUARY 5, 2020 GROUNDWATER ELEVATION CONTOURS DEPICTED IN BLUE. CONTOUR INTERVAL = 2.0'.

2.) ETHYLBENZENE MSC = 700.0 UG/L. EXCEEDANCES IN RED.



LaBella
Powered by partnership.

GROUNDWATER ISOPLETH MAP
ETHYLBENZENE - FEBRUARY 2020
QUINN'S CAFE STOP PROPERTY
224 MAIN STREET
BOROUGH OF ARCHBALD,
LACKAWANNA COUNTY, PENNSYLVANIA

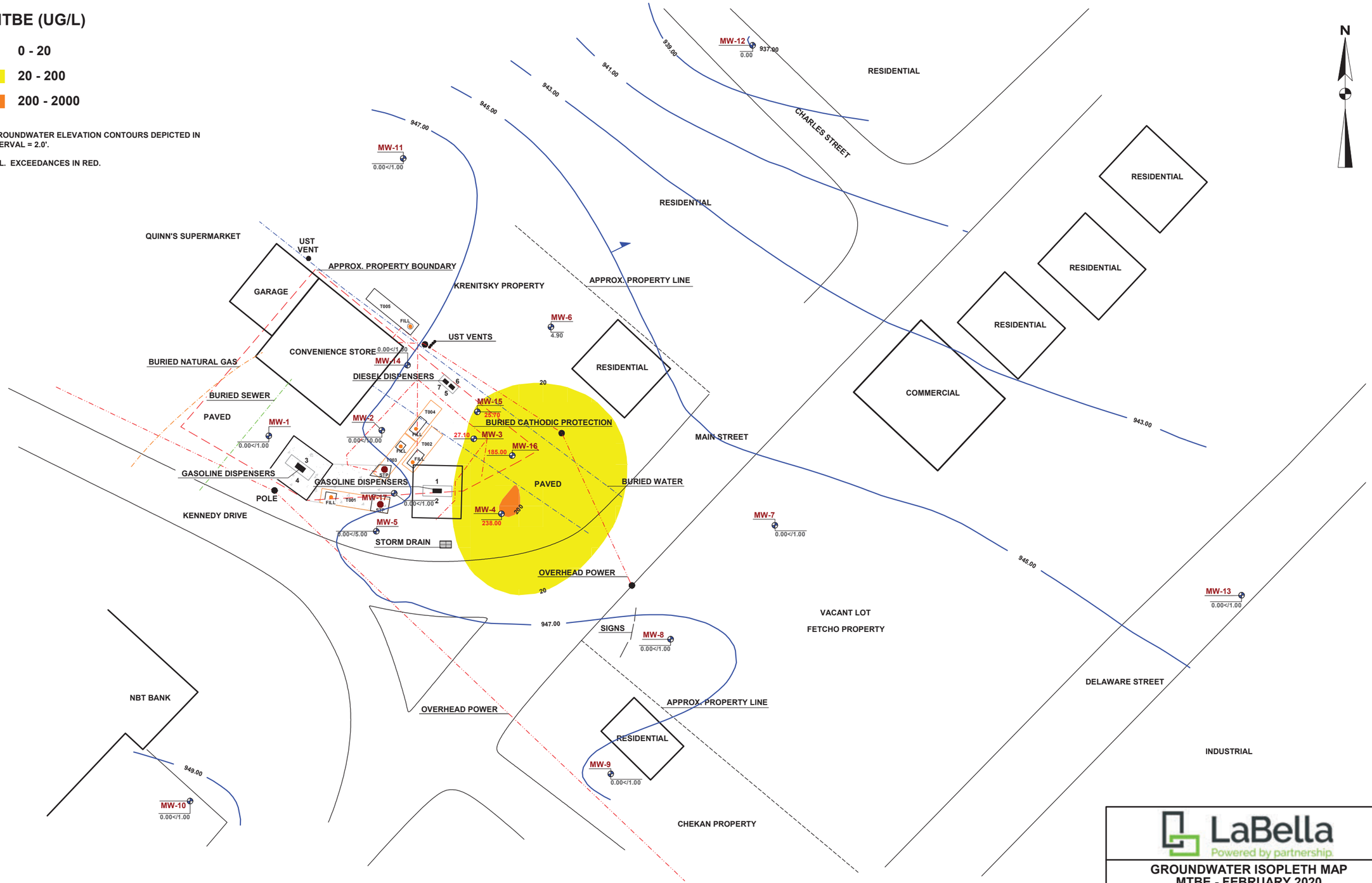
DRAWN BY: KC DATE: 03/06/2020
SCALE: 1" = 40'

MTBE (UG/L)

- 0 - 20
- 20 - 200
- 200 - 2000

1.) FEBRUARY 5, 2020 GROUNDWATER ELEVATION CONTOURS DEPICTED IN BLUE. CONTOUR INTERVAL = 2.0'.

2.) MTBE MSC = 20.0 UG/L. EXCEEDANCES IN RED.



MONITORING WELL LOCATION

0 40 80 feet

LaBella
Powered by partnership.

GROUNDWATER ISOPLETH MAP
MTBE - FEBRUARY 2020
QUINN'S CAFE STOP PROPERTY
224 MAIN STREET
BOROUGH OF ARCHBALD,
LACKAWANNA COUNTY, PENNSYLVANIA

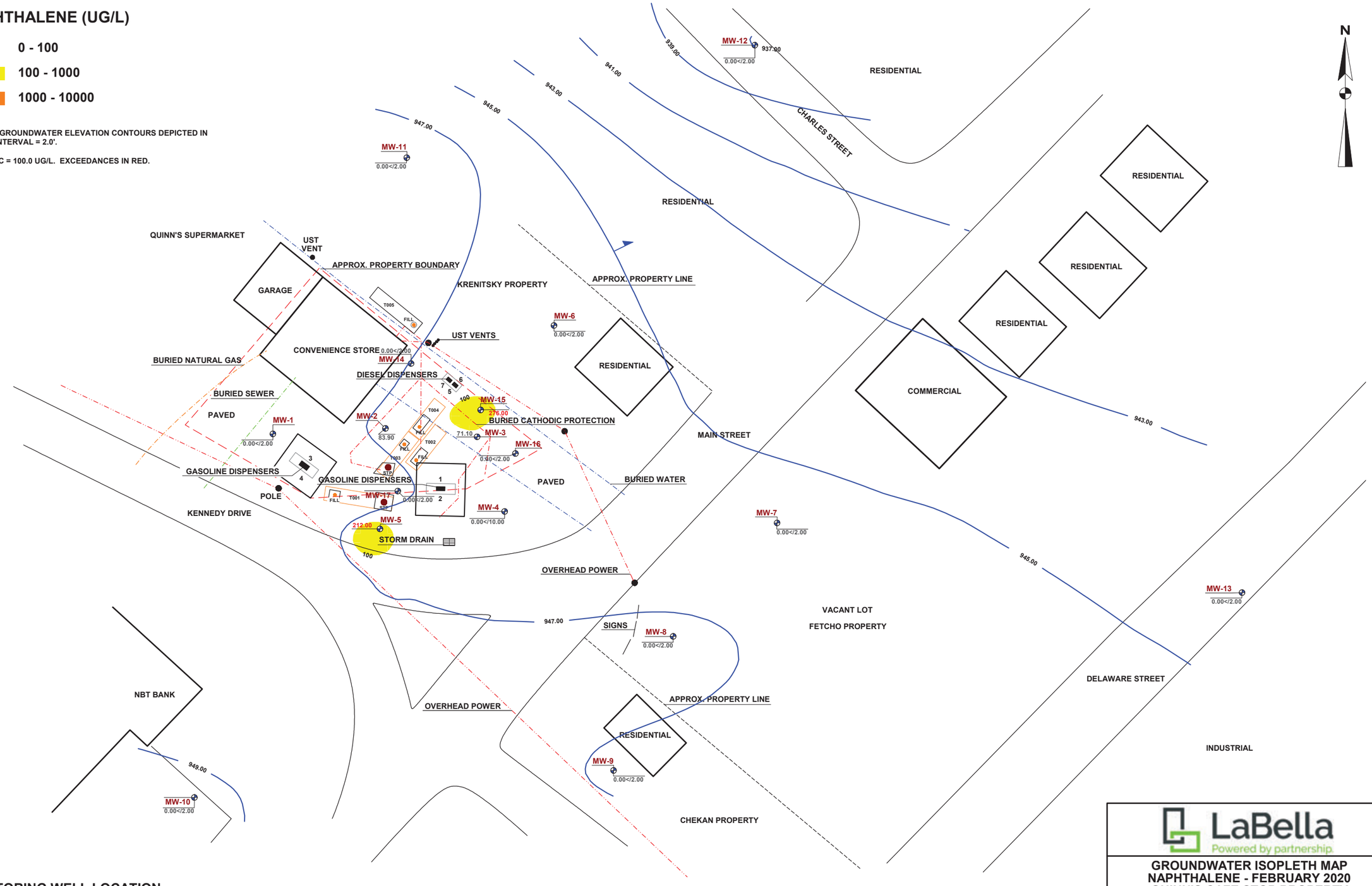
DRAWN BY: KC DATE: 03/06/2020
SCALE: 1" = 40'

NAPHTHALENE (UG/L)

- 0 - 100
- 100 - 1000
- 1000 - 10000

1.) FEBRUARY 5, 2020 GROUNDWATER ELEVATION CONTOURS DEPICTED IN BLUE. CONTOUR INTERVAL = 2.0'.

2.) NAPHTHALENE MSC = 100.0 UG/L. EXCEEDANCES IN RED.



LaBella
Powered by partnership.

GROUNDWATER ISOPLETH MAP
NAPHTHALENE - FEBRUARY 2020
QUINN'S CAFE STOP PROPERTY
224 MAIN STREET
BOROUGH OF ARCHBALD,
LACKAWANNA COUNTY, PENNSYLVANIA

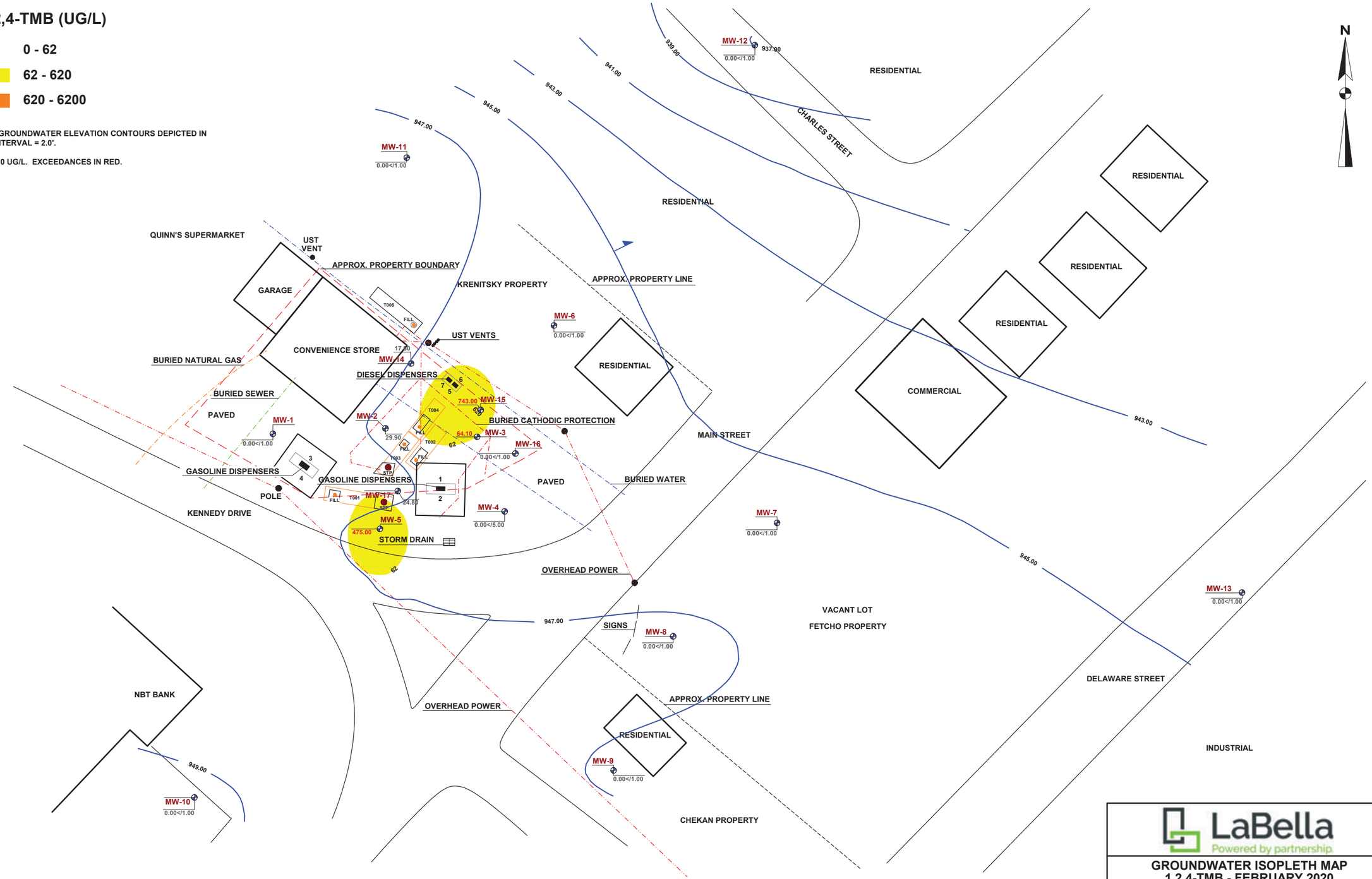
DRAWN BY: KC DATE: 03/06/2020
SCALE: 1" = 40'

1,2,4-TMB (UG/L)

- 0 - 62
- 62 - 620
- 620 - 6200

1.) FEBRUARY 5, 2020 GROUNDWATER ELEVATION CONTOURS DEPICTED IN BLUE. CONTOUR INTERVAL = 2.0'.

2.) 1,2,4-TMB MSC = 62.0 UG/L. EXCEEDANCES IN RED.



MONITORING WELL LOCATION

0 40 80 feet

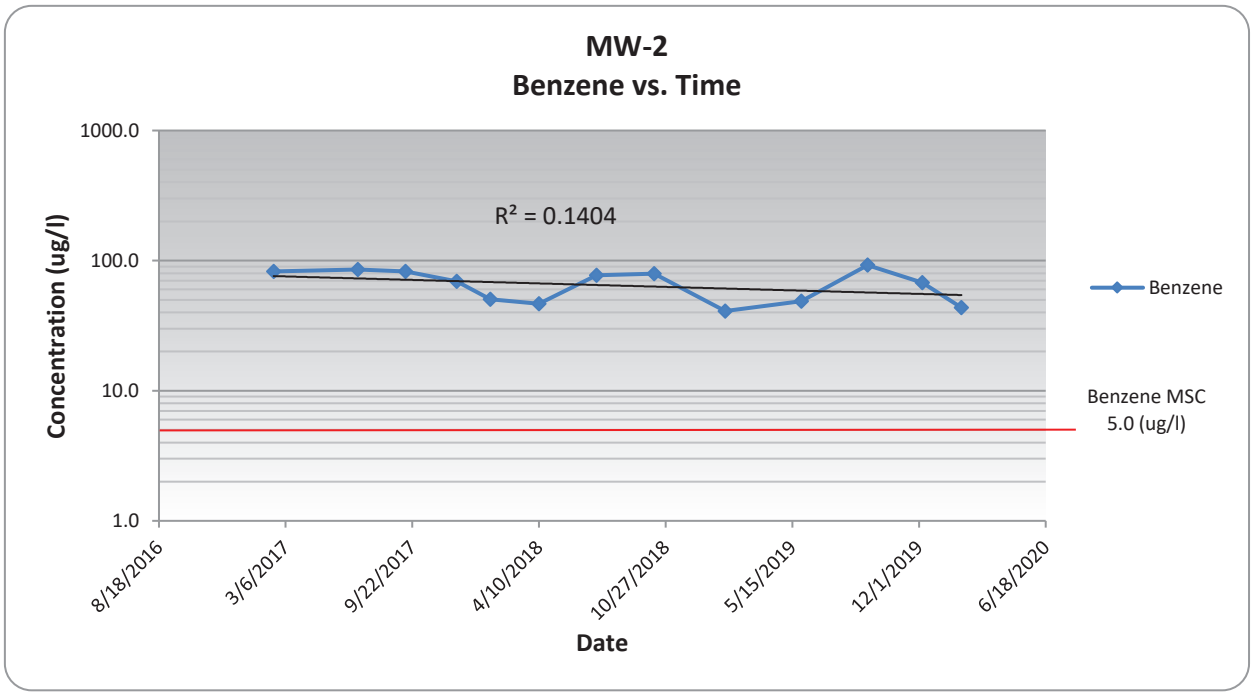
LaBella
Powered by partnership.

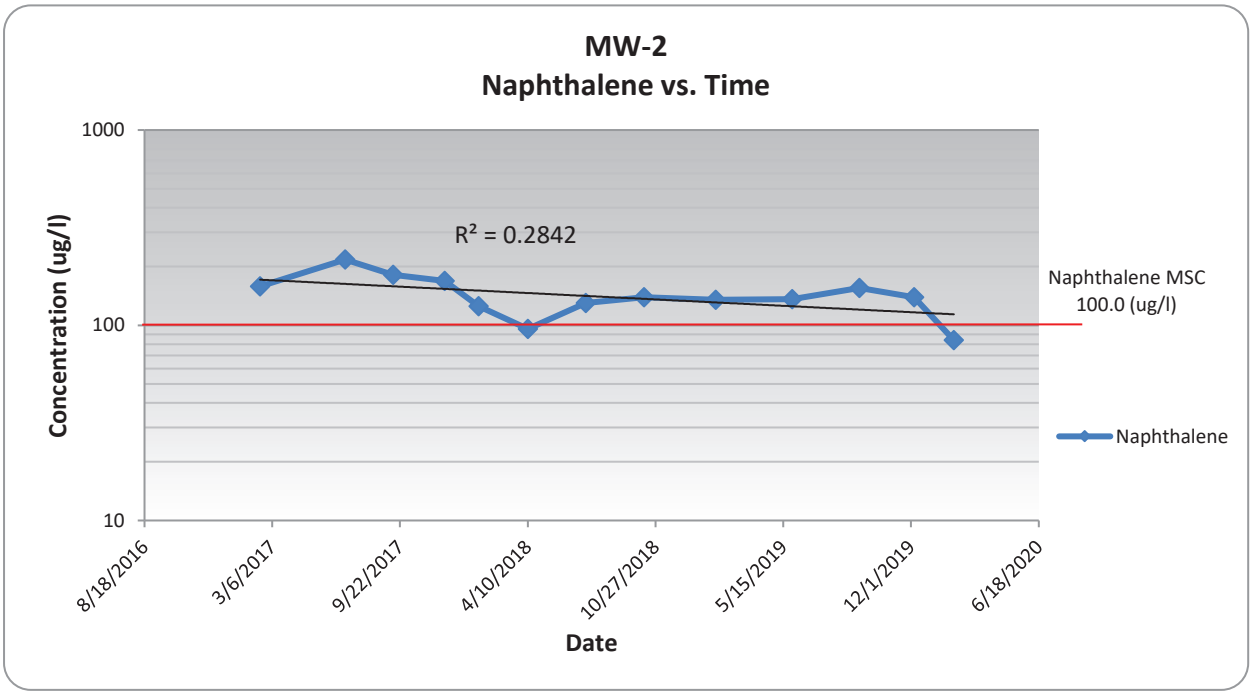
GROUNDWATER ISOPLETH MAP
1,2,4-TMB - FEBRUARY 2020
QUINN'S CAFE STOP PROPERTY
224 MAIN STREET
BOROUGH OF ARCHBALD,
LACKAWANNA COUNTY, PENNSYLVANIA

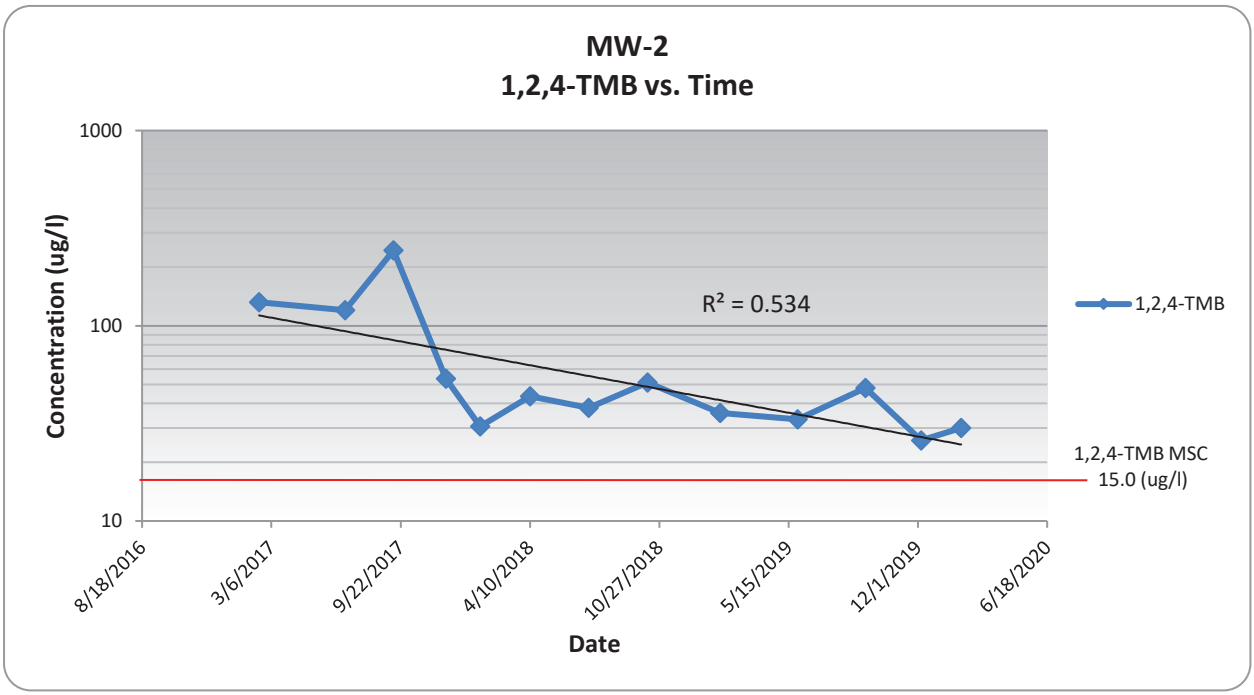
DRAWN BY: KC DATE: 03/06/2020
SCALE: 1" = 40'

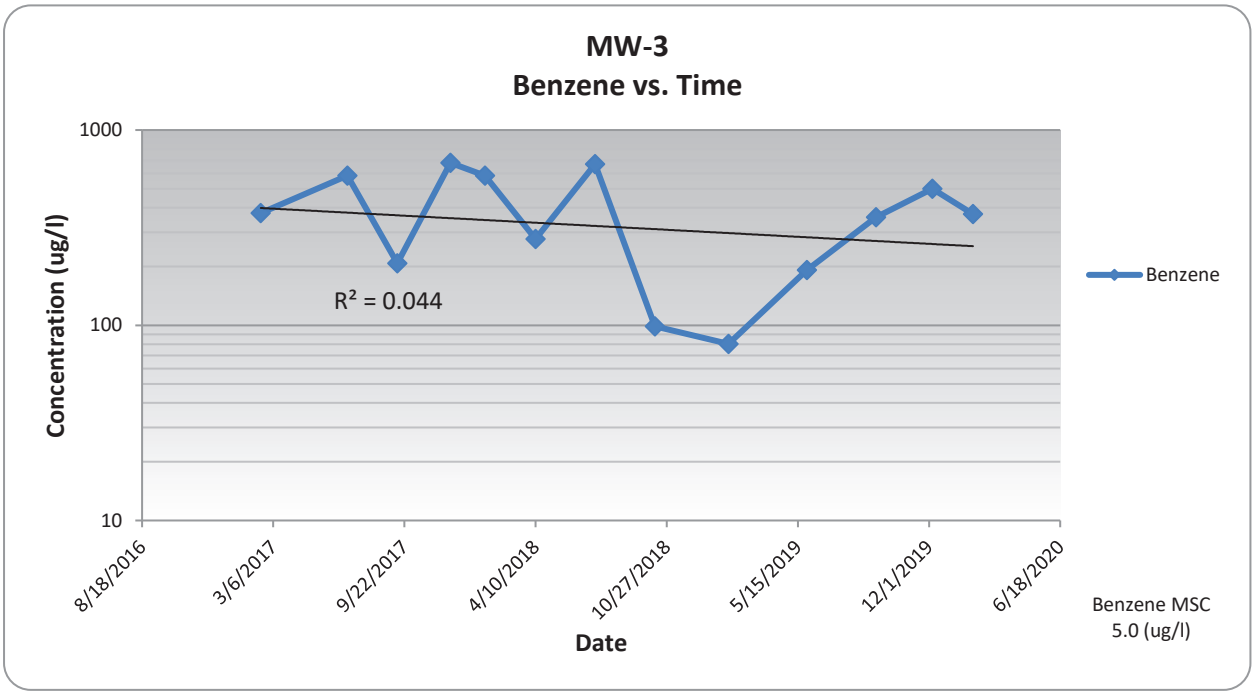
ATTACHMENT O

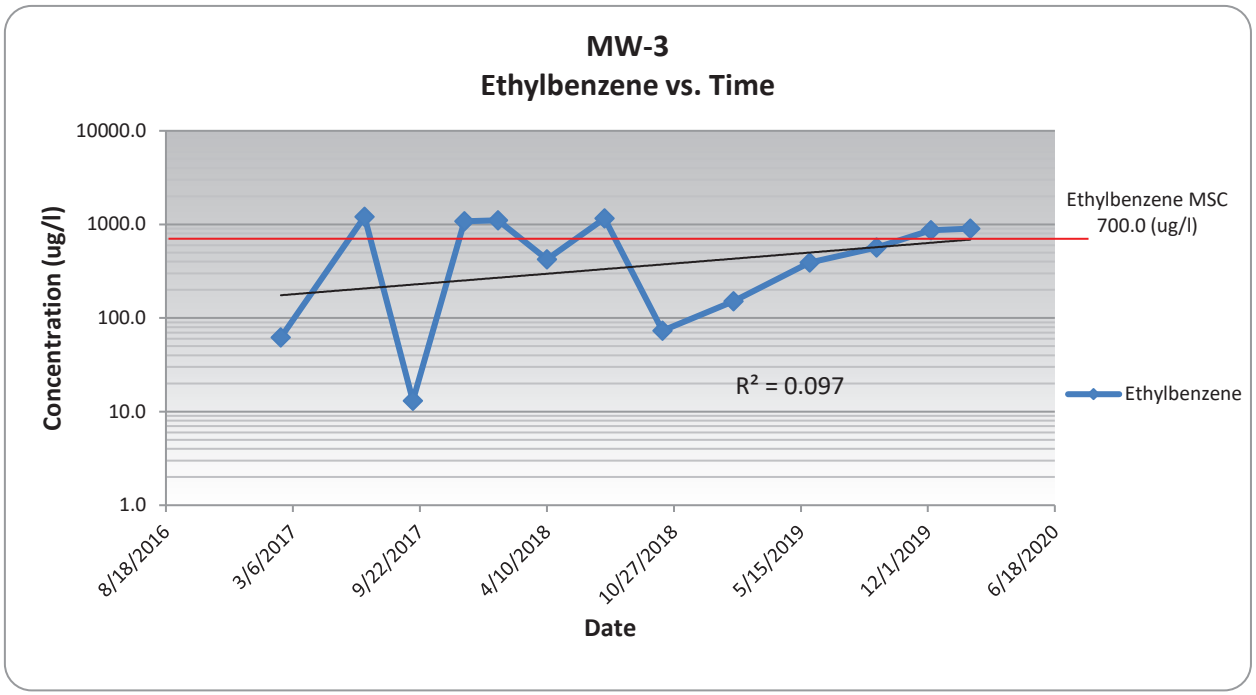
Temporal Trend Analysis

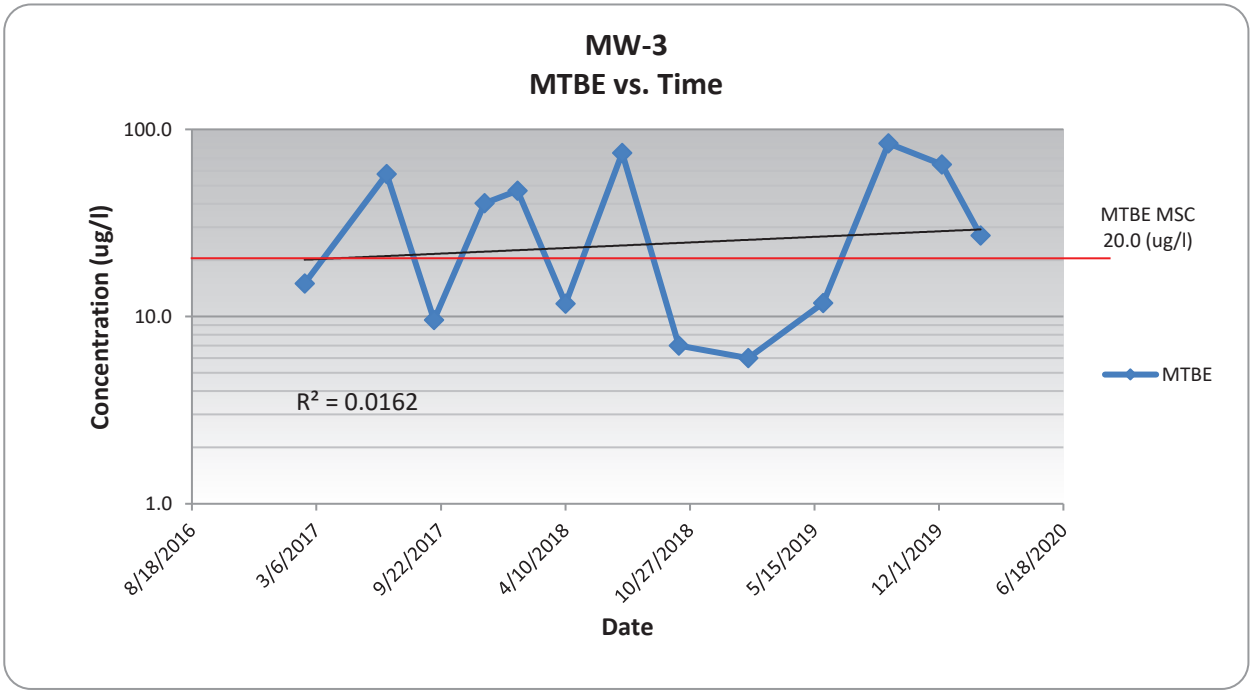

MW-2
Benzene vs. Time
1000.0
100.0
10.0
1.0
Concentration (ug/l)
R² = 0.1404
Benzene
Benzene MSC
5.0 (ug/l)
8/18/2016
3/6/2017
9/22/2017
4/10/2018
10/27/2018
5/15/2019
12/1/2019
6/18/2020
Date

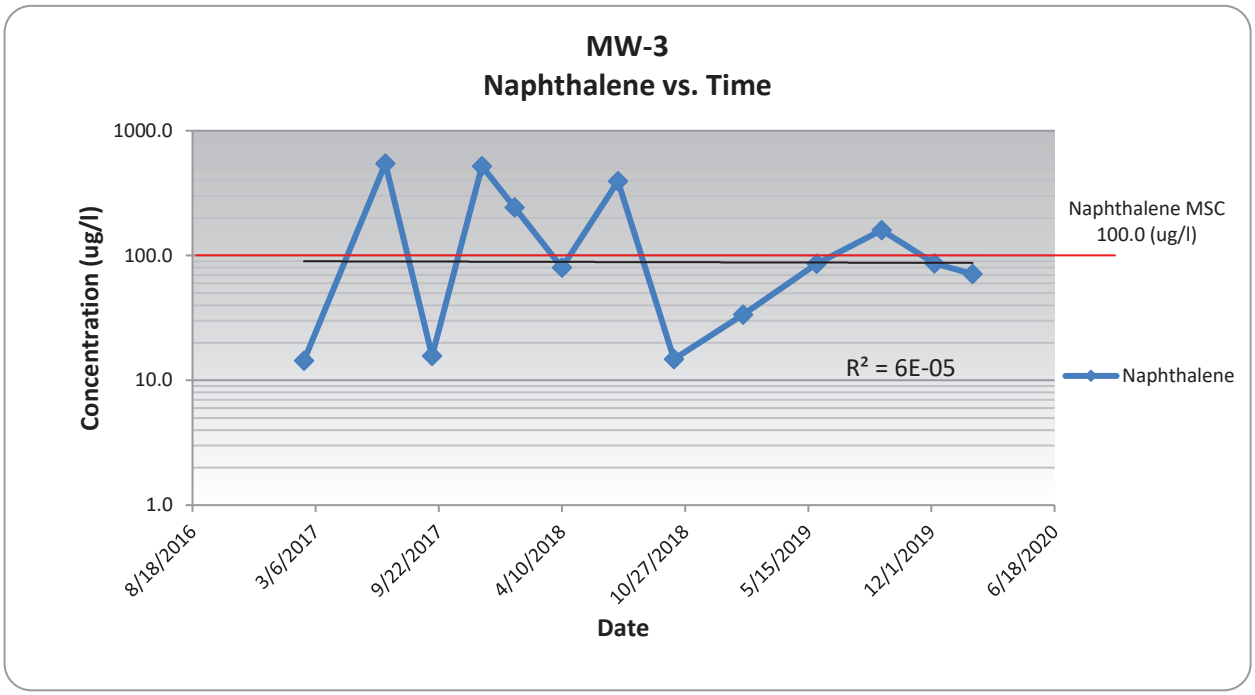

MW-2
Naphthalene vs. Time
1000
100
10
Concentration (ug/l)
R² = 0.2842
Naphthalene MSC
100.0 (ug/l)
Naphthalene
8/18/2016
3/6/2017
9/22/2017
4/10/2018
10/27/2018
5/15/2019
12/1/2019
6/18/2020
Date

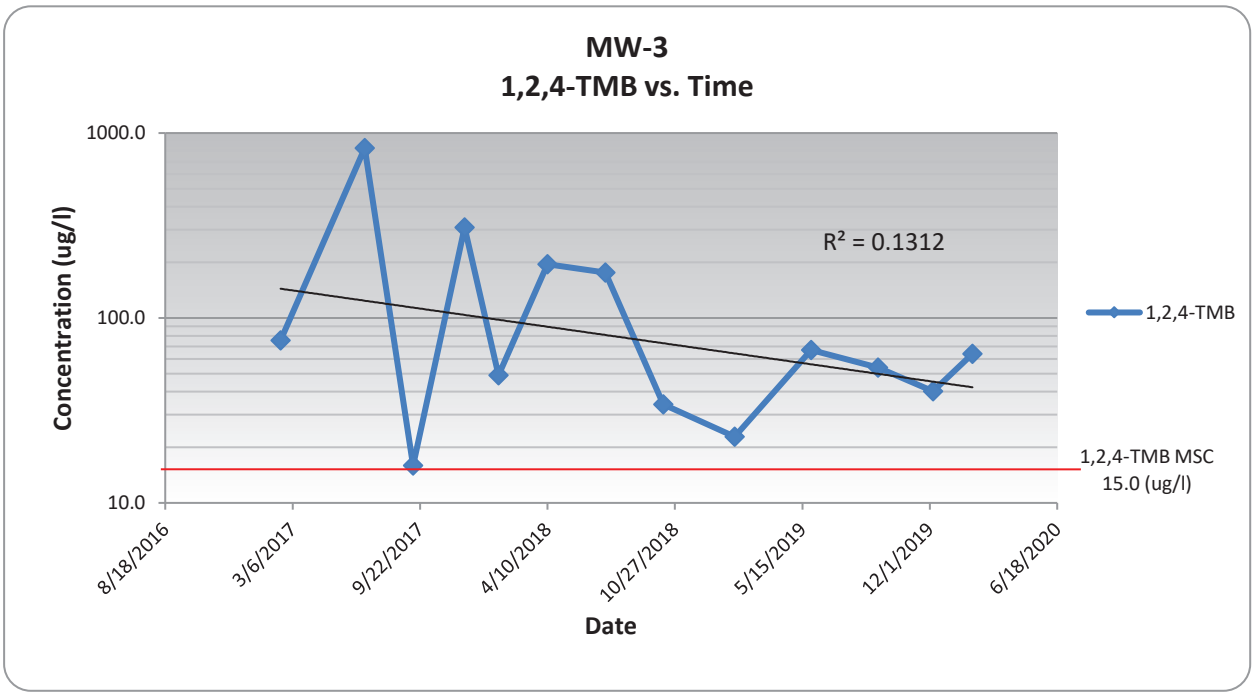

MW-2
1,2,4-TMB vs. Time
1000
100
10
Concentration (ug/l)
R² = 0.534
1,2,4-TMB
1,2,4-TMB MSC
15.0 (ug/l)
8/18/2016
3/6/2017
9/22/2017
4/10/2018
10/27/2018
5/15/2019
12/1/2019
6/18/2020
Date

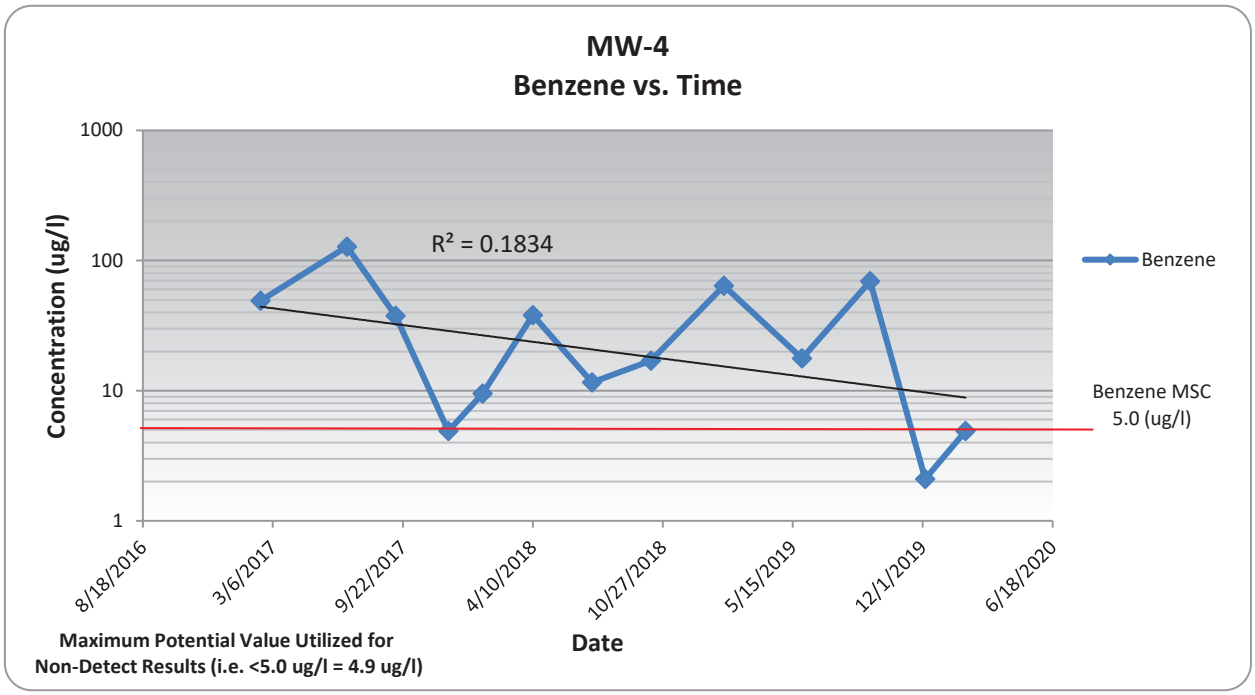

MW-3
Benzene vs. Time
1000
100
10
Concentration (ug/l)
R² = 0.044
Benzene
Benzene MSC
5.0 (ug/l)
8/18/2016
3/6/2017
9/22/2017
4/10/2018
10/27/2018
5/15/2019
12/1/2019
6/18/2020
Date

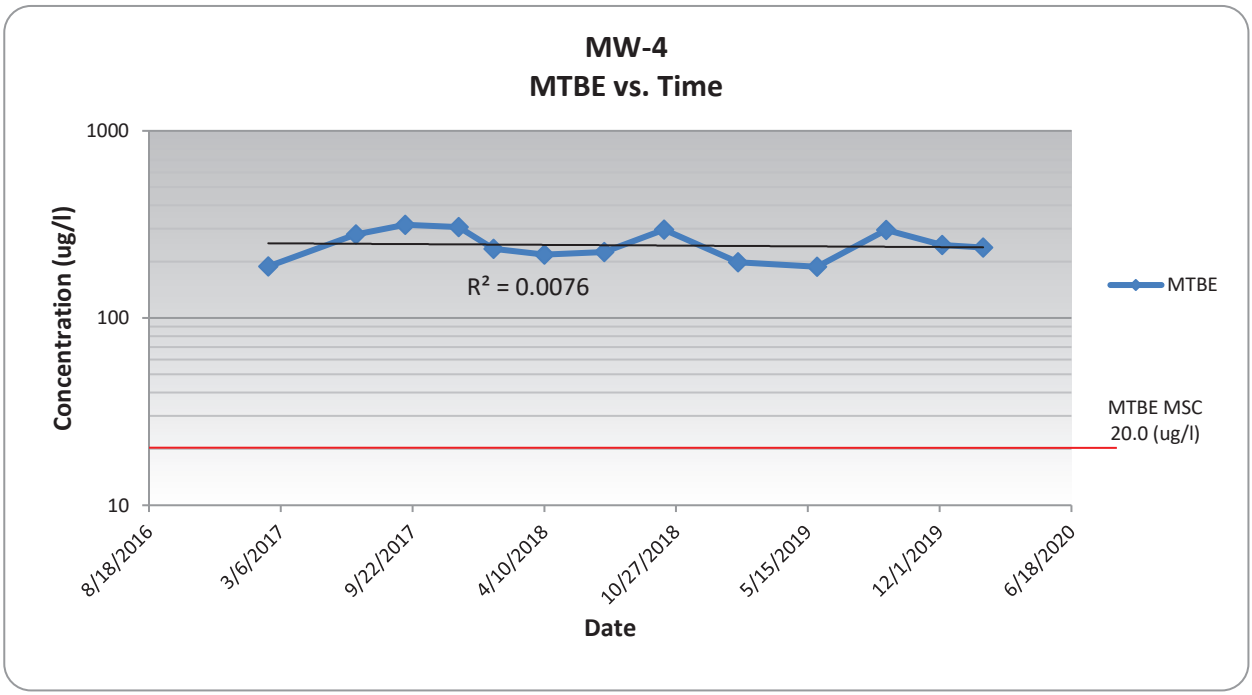

MW-3
Ethylbenzene vs. Time
10000.0
1000.0
100.0
10.0
1.0
Concentration (ug/l)
R² = 0.097
Ethylbenzene MSC
700.0 (ug/l)
Ethylbenzene
8/18/2016
3/6/2017
9/22/2017
4/10/2018
10/27/2018
5/15/2019
12/1/2019
6/18/2020
Date

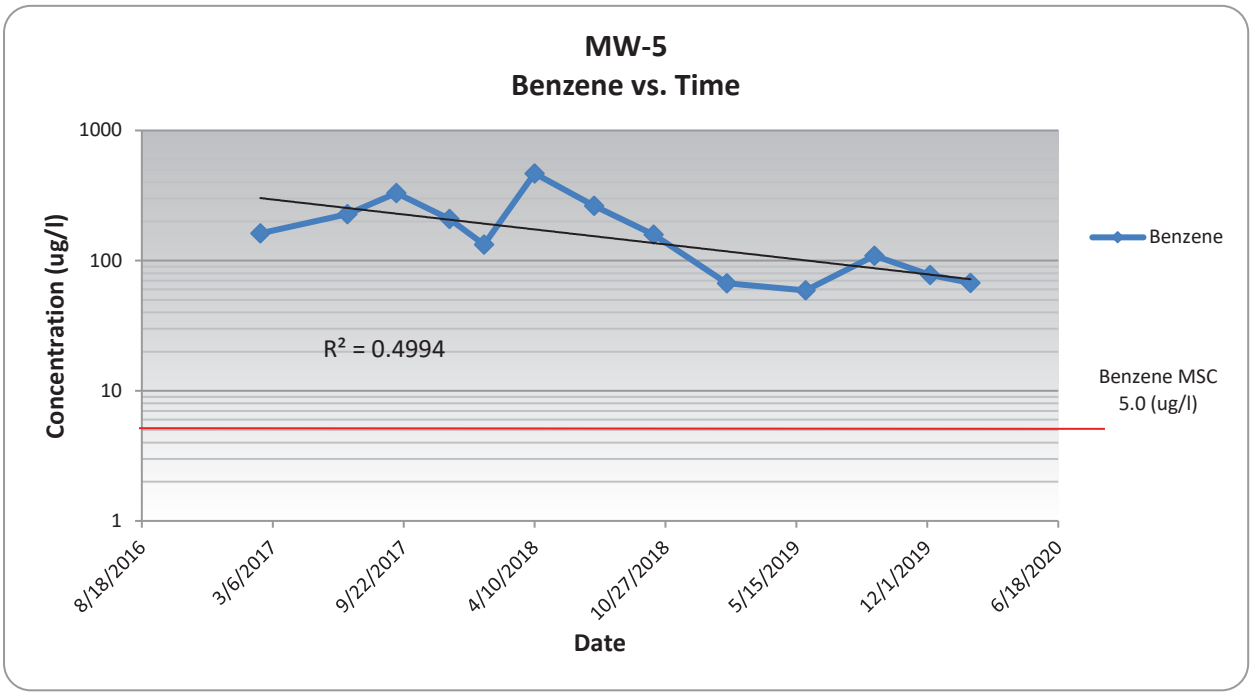

MW-3
MTBE vs. Time
100.0
10.0
1.0
Concentration (ug/l)
R² = 0.0162
MTBE MSC
20.0 (ug/l)
MTBE
8/18/2016
3/6/2017
9/22/2017
4/10/2018
10/27/2018
5/15/2019
12/1/2019
6/18/2020
Date

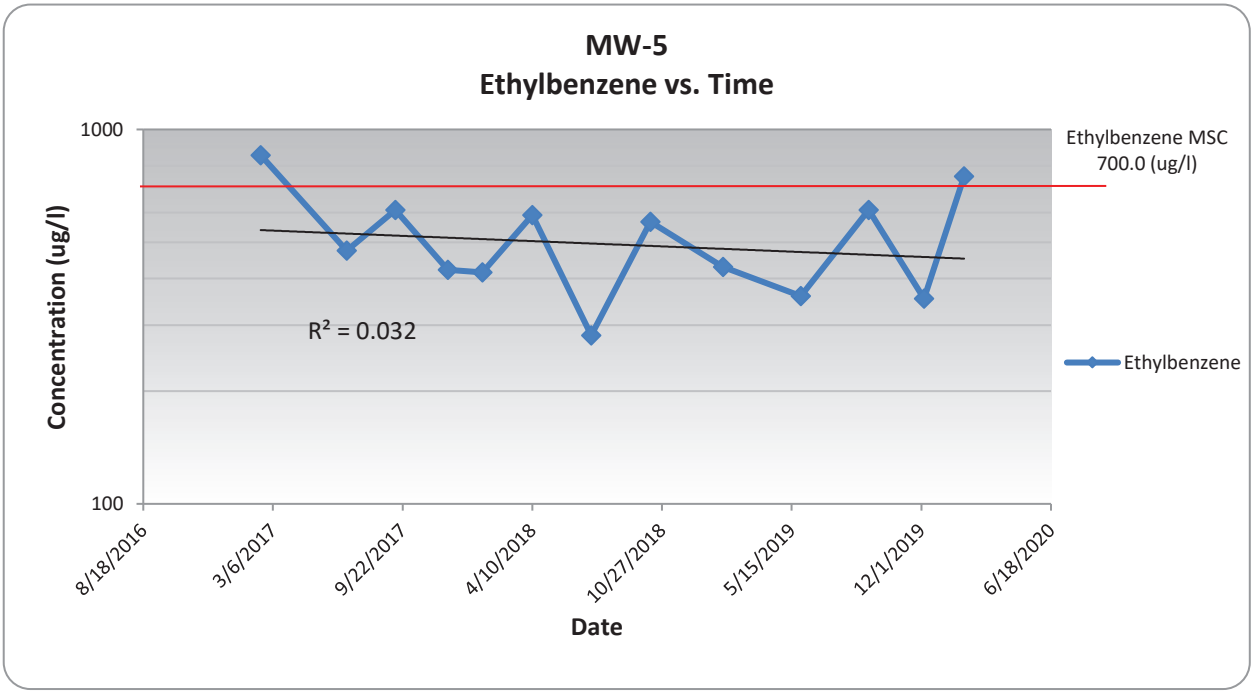

MW-3
Naphthalene vs. Time
1000.0
100.0
10.0
1.0
Concentration (ug/l)
R² = 6E-05
Naphthalene MSC
100.0 (ug/l)
Naphthalene
8/18/2016
3/6/2017
9/22/2017
4/10/2018
10/27/2018
5/15/2019
12/1/2019
6/18/2020
Date

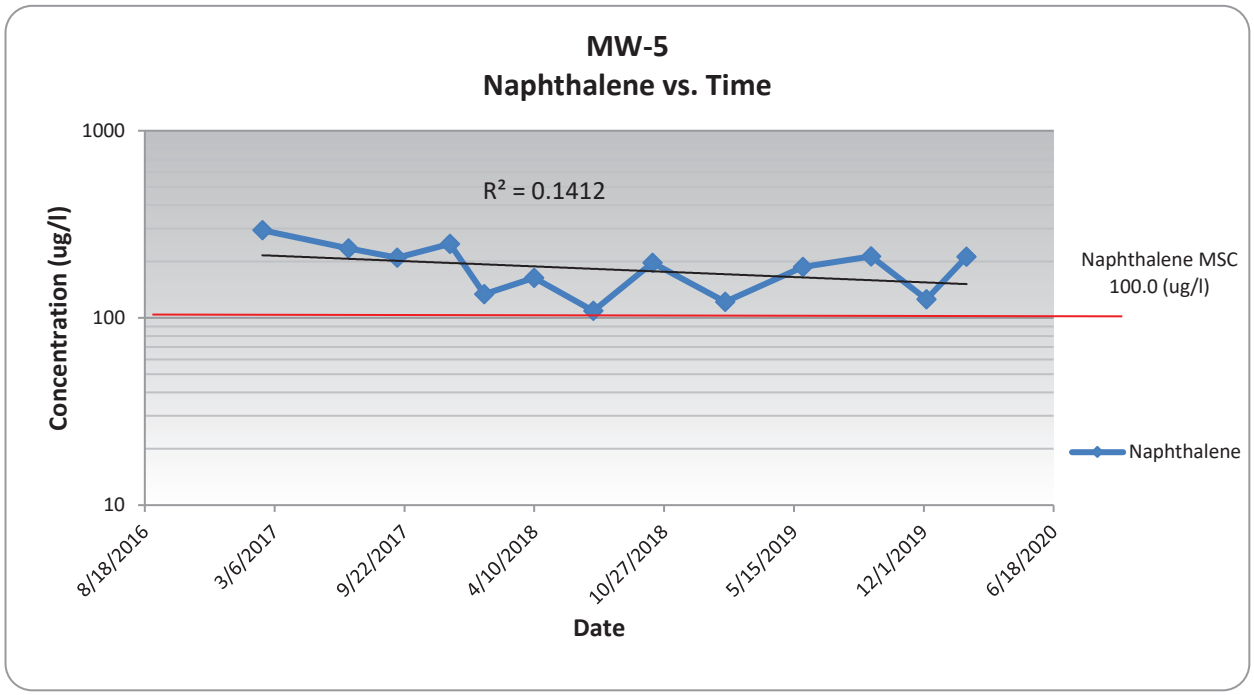

MW-3
1,2,4-TMB vs. Time
1000.0
100.0
10.0
Concentration (ug/l)
R² = 0.1312
1,2,4-TMB
1,2,4-TMB MSC
15.0 (ug/l)
8/18/2016
3/6/2017
9/22/2017
4/10/2018
10/27/2018
5/15/2019
12/1/2019
6/18/2020
Date

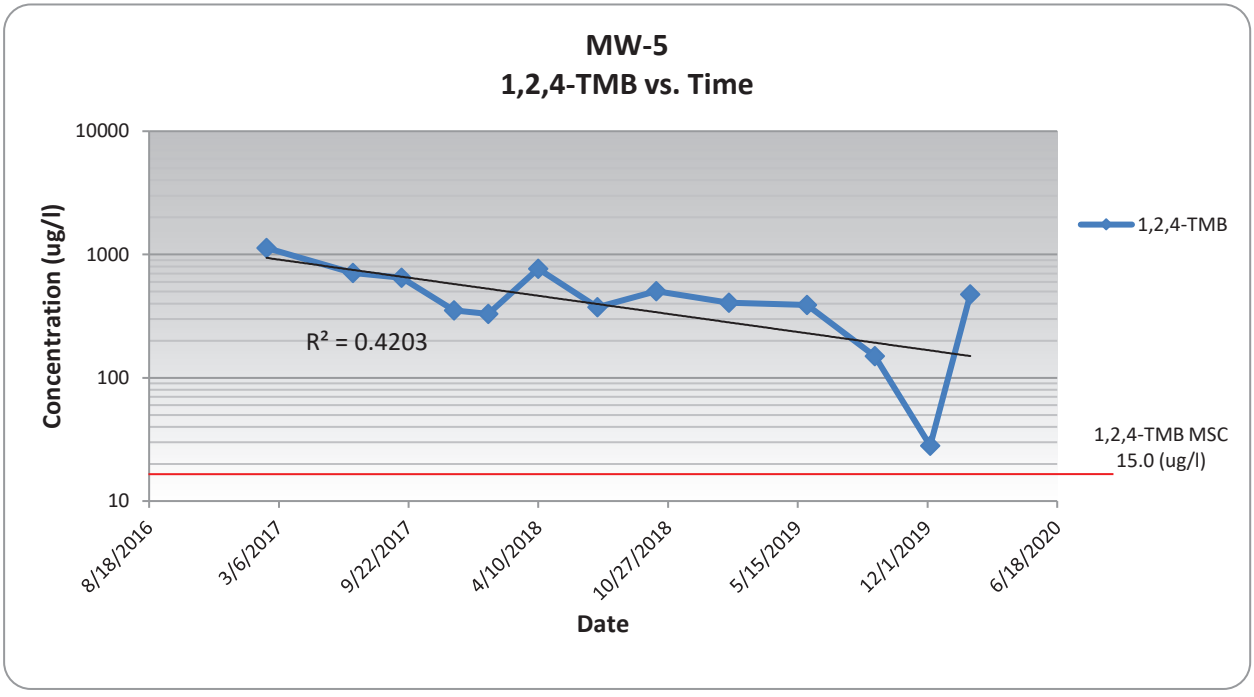

MW-4
Benzene vs. Time
1000
100
10
1
Concentration (ug/l)
R² = 0.1834
Benzene
Benzene MSC
5.0 (ug/l)
8/18/2016
3/6/2017
9/22/2017
4/10/2018
10/27/2018
5/15/2019
12/1/2019
6/18/2020
Date
Maximum Potential Value Utilized for
Non-Detect Results (i.e. <5.0 ug/l = 4.9 ug/l)

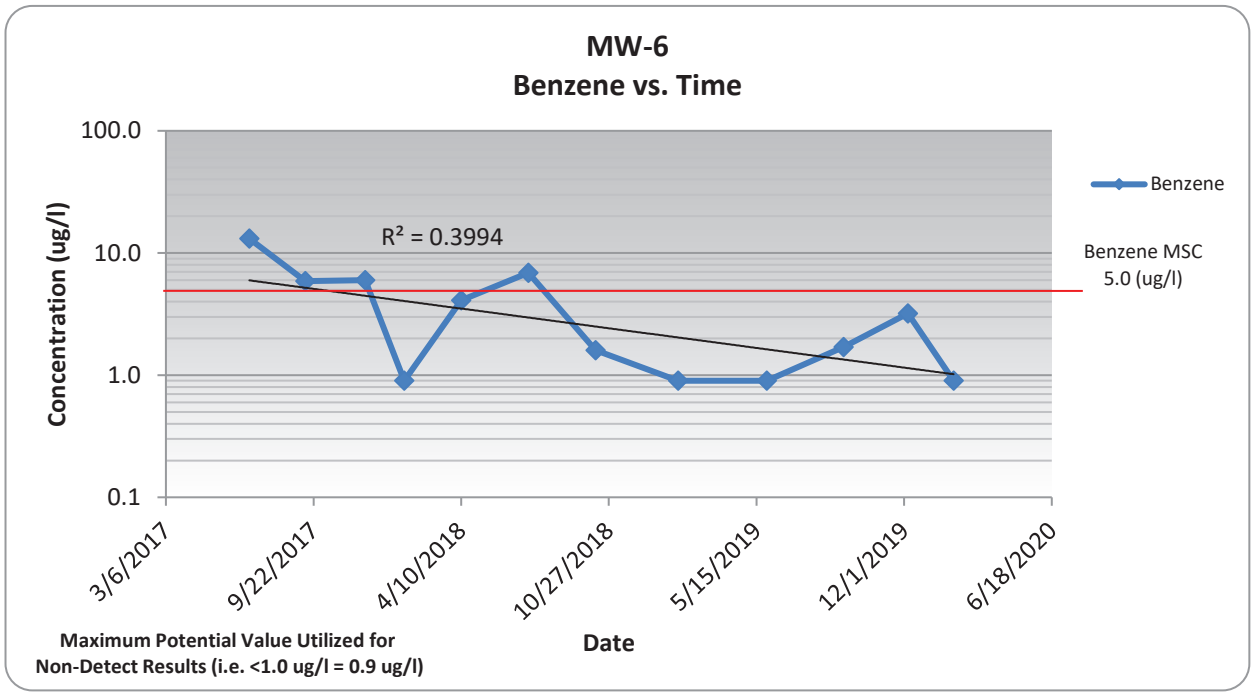

MW-4
MTBE vs. Time
1000
100
10
Concentration (ug/l)
R² = 0.0076
MTBE
MTBE MSC
20.0 (ug/l)
8/18/2016
3/6/2017
9/22/2017
4/10/2018
10/27/2018
5/15/2019
12/1/2019
6/18/2020
Date

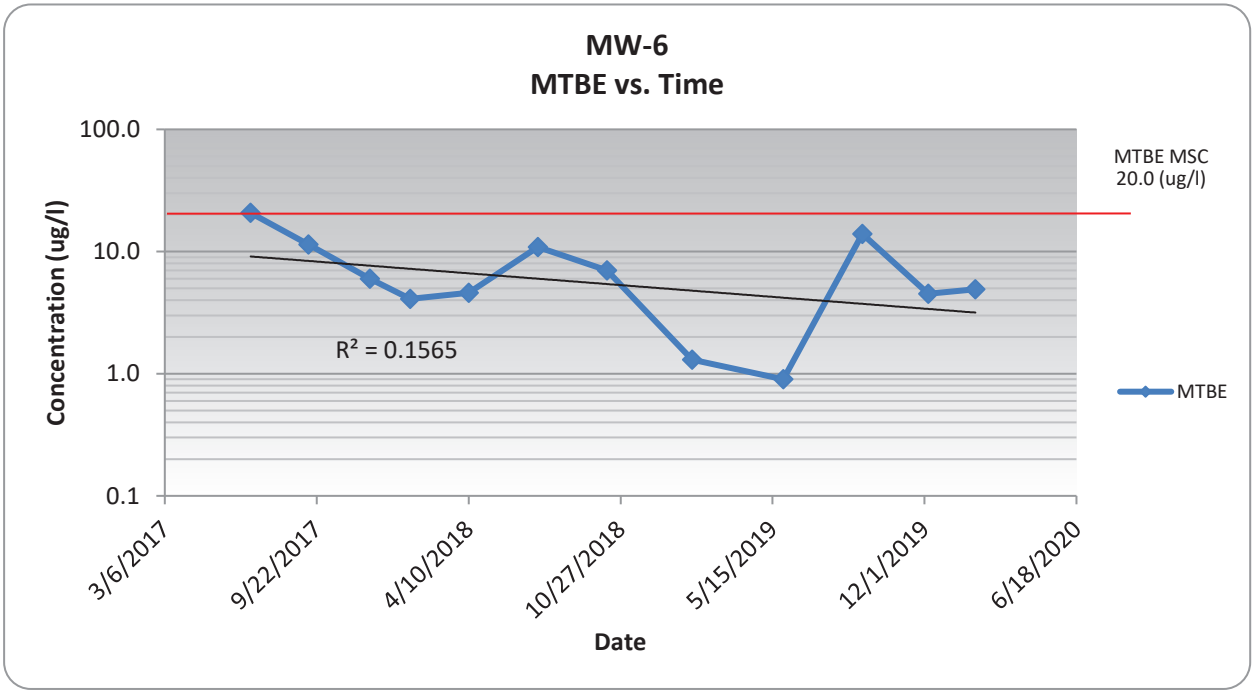

MW-5
Benzene vs. Time
1000
100
10
1
Concentration (ug/l)
R² = 0.4994
Benzene
Benzene MSC
5.0 (ug/l)
8/18/2016
3/6/2017
9/22/2017
4/10/2018
10/27/2018
5/15/2019
12/1/2019
6/18/2020
Date

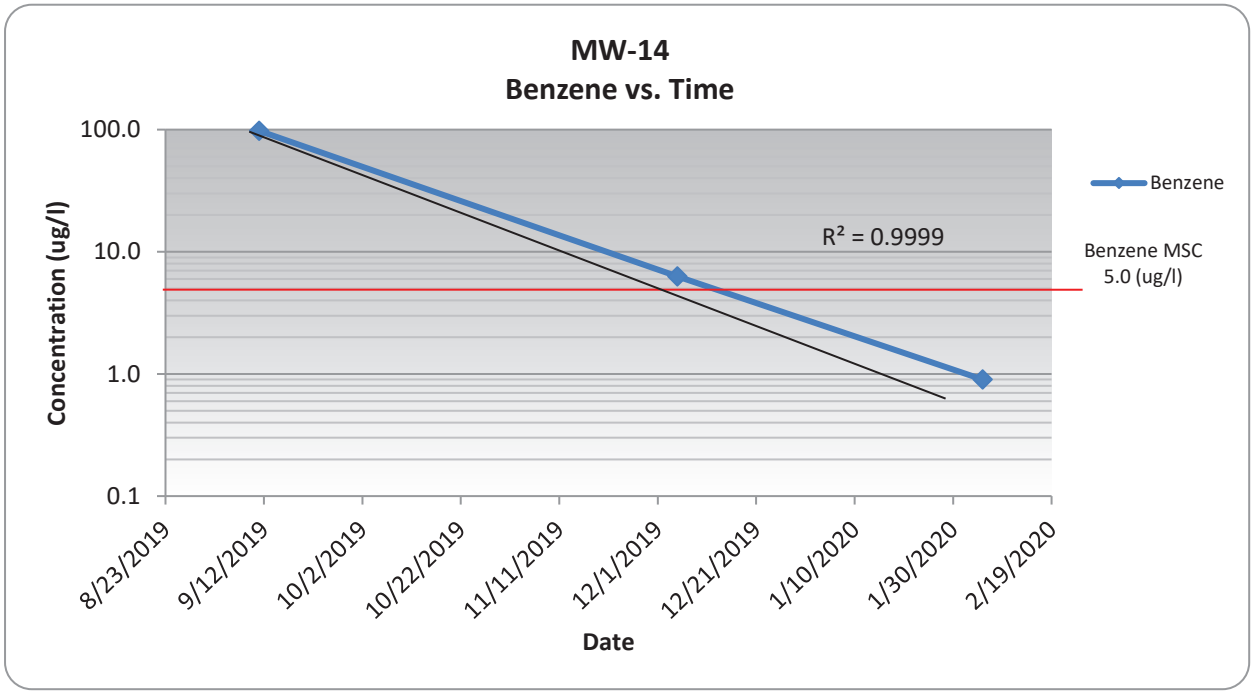

MW-5
Ethylbenzene vs. Time
1000
100
Concentration (ug/l)
R² = 0.032
Ethylbenzene MSC
700.0 (ug/l)
Ethylbenzene
8/18/2016
3/6/2017
9/22/2017
4/10/2018
10/27/2018
5/15/2019
12/1/2019
6/18/2020
Date

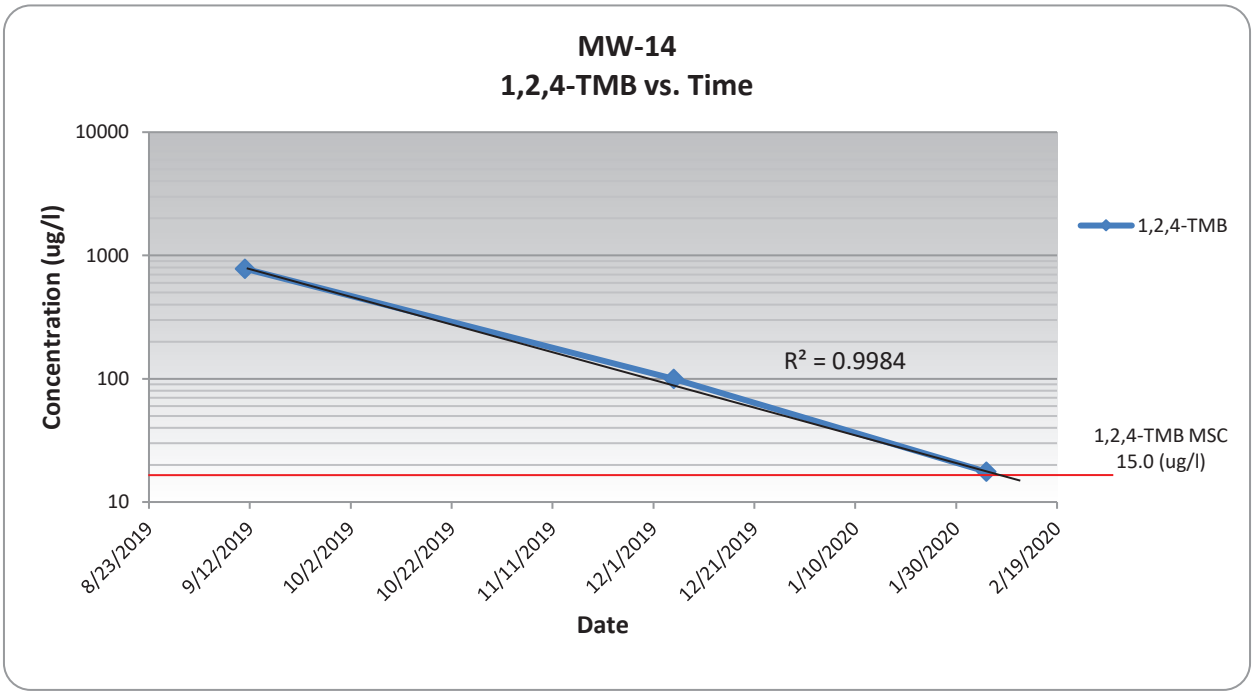

MW-5
Naphthalene vs. Time
1000
100
10
Concentration (ug/l)
R² = 0.1412
Naphthalene MSC
100.0 (ug/l)
Naphthalene
8/18/2016
3/6/2017
9/22/2017
4/10/2018
10/27/2018
5/15/2019
12/1/2019
6/18/2020
Date

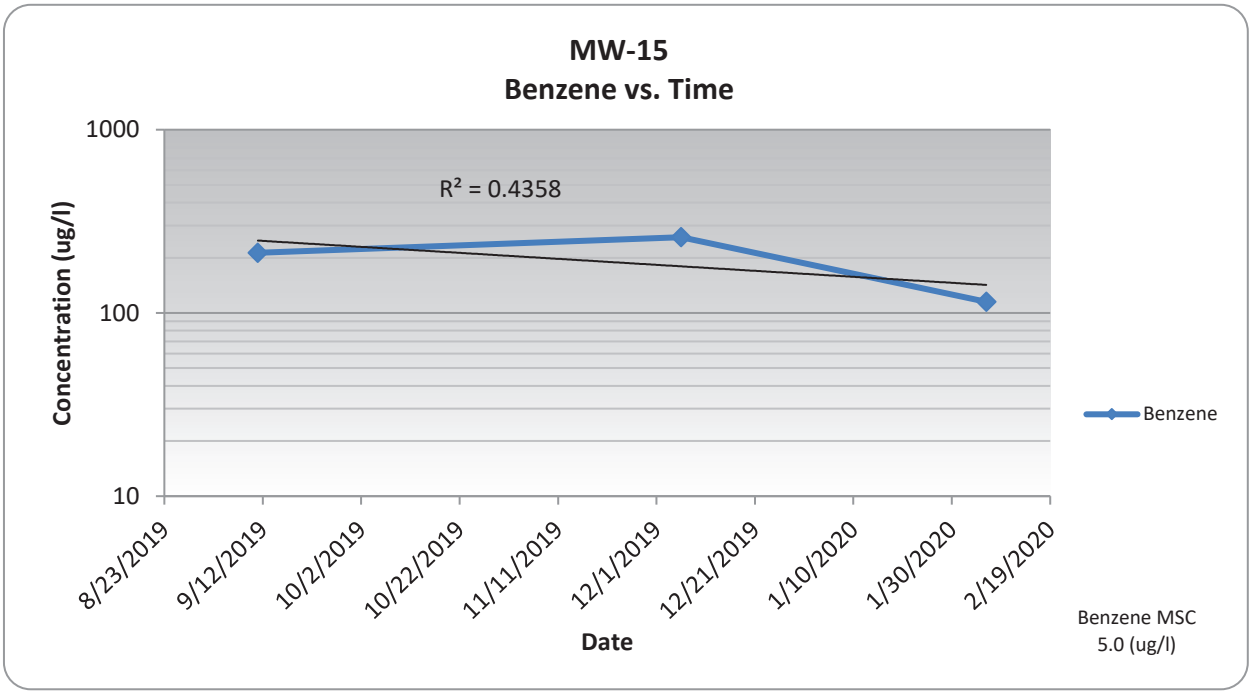

MW-5
1,2,4-TMB vs. Time
10000
1000
100
10
Concentration (ug/l)
R² = 0.4203
1,2,4-TMB
1,2,4-TMB MSC
15.0 (ug/l)
8/18/2016
3/6/2017
9/22/2017
4/10/2018
10/27/2018
5/15/2019
12/1/2019
6/18/2020
Date

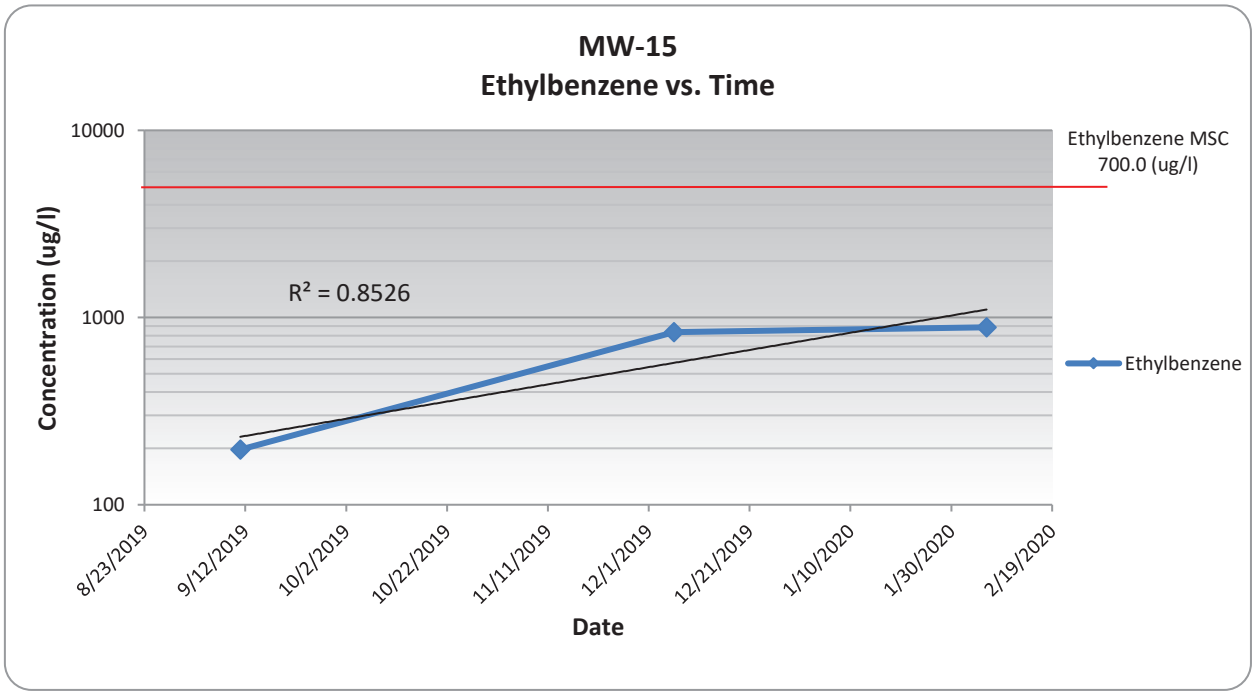

MW-6
Benzene vs. Time
100.0
10.0
1.0
0.1
Concentration (ug/l)
R² = 0.3994
3/6/2017
9/22/2017
4/10/2018
10/27/2018
5/15/2019
12/1/2019
6/18/2020
Date
Benzene
Benzene MSC
5.0 (ug/l)
Maximum Potential Value Utilized for
Non-Detect Results (i.e. <1.0 ug/l = 0.9 ug/l)

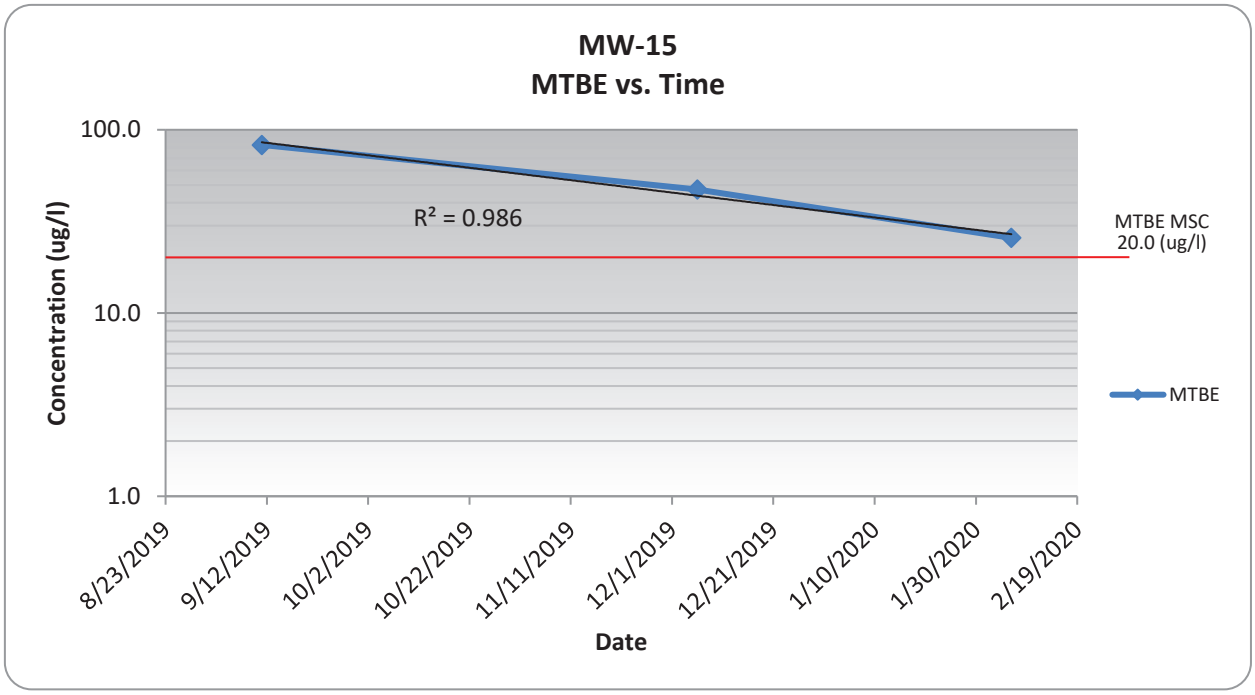

MW-6
MTBE vs. Time
100.0
10.0
1.0
0.1
Concentration (ug/l)
R² = 0.1565
3/6/2017
9/22/2017
4/10/2018
10/27/2018
5/15/2019
12/1/2019
6/18/2020
Date
MTBE MSC
20.0 (ug/l)
MTBE

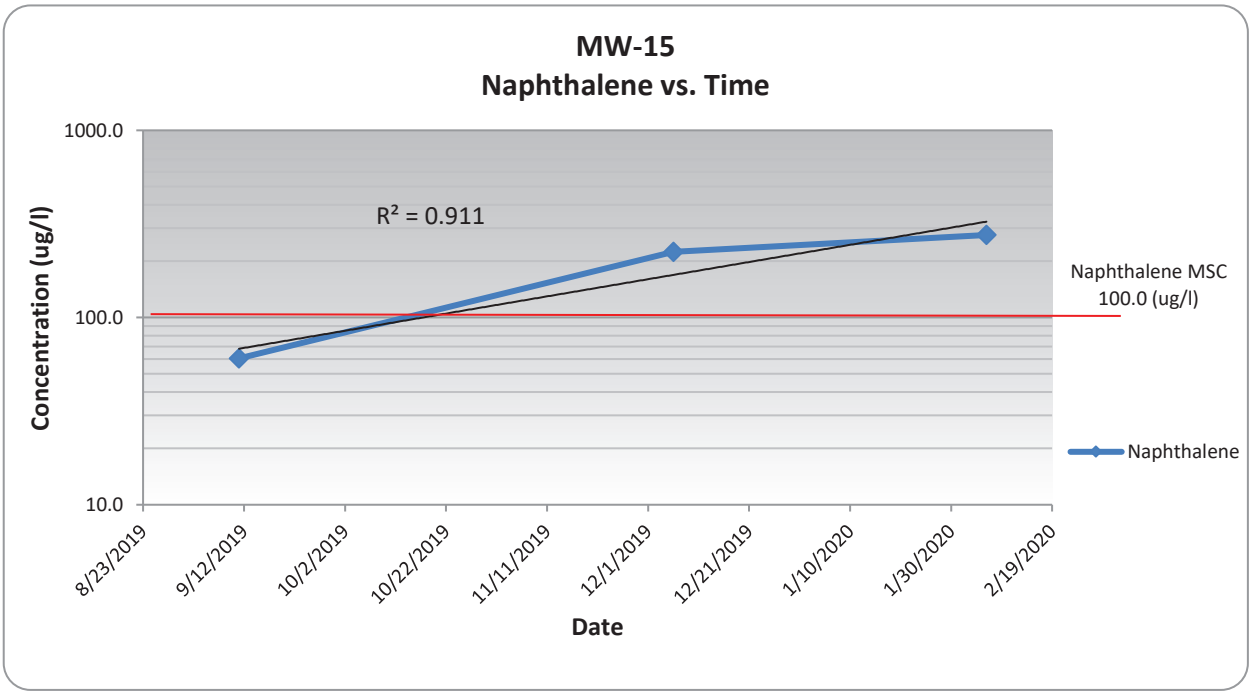

MW-14
Benzene vs. Time
100.0
10.0
1.0
0.1
Concentration (ug/l)
R² = 0.9999
Benzene
Benzene MSC
5.0 (ug/l)
8/23/2019
9/12/2019
10/2/2019
10/22/2019
11/11/2019
12/1/2019
12/21/2019
1/10/2020
1/30/2020
2/19/2020
Date

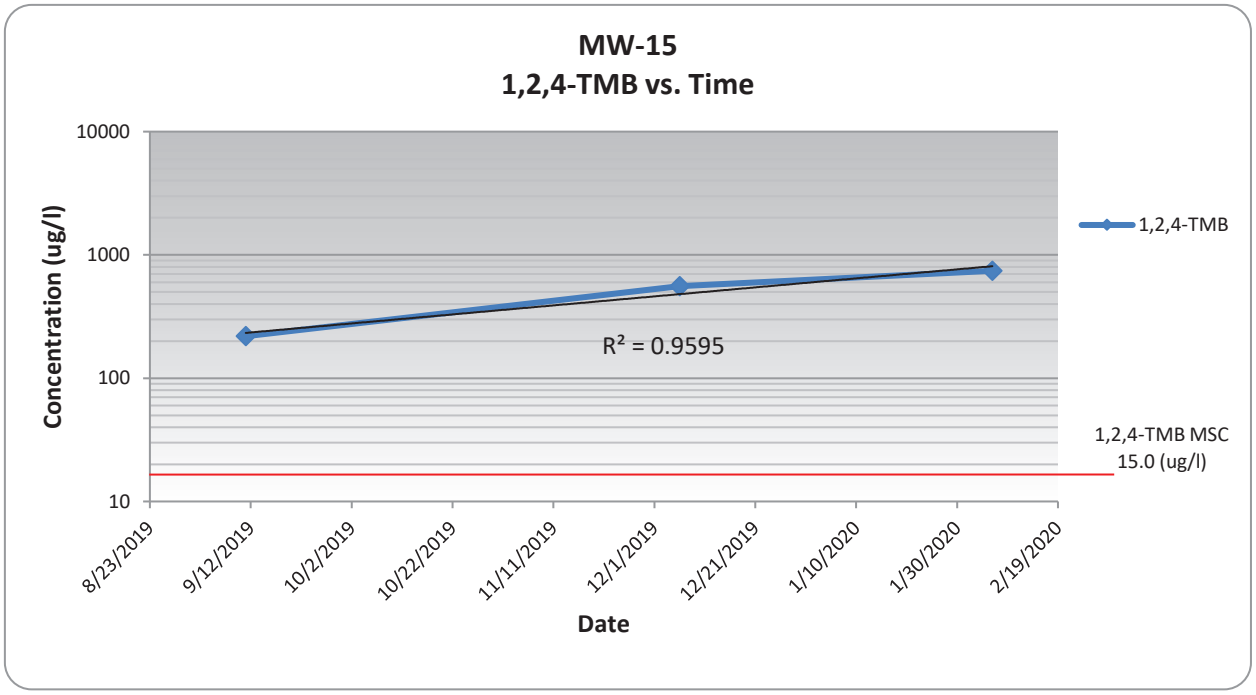

MW-14
1,2,4-TMB vs. Time
10000
1000
100
10
Concentration (ug/l)
R² = 0.9984
1,2,4-TMB
1,2,4-TMB MSC
15.0 (ug/l)
8/23/2019
9/12/2019
10/2/2019
10/22/2019
11/11/2019
12/1/2019
12/21/2019
1/10/2020
1/30/2020
2/19/2020
Date

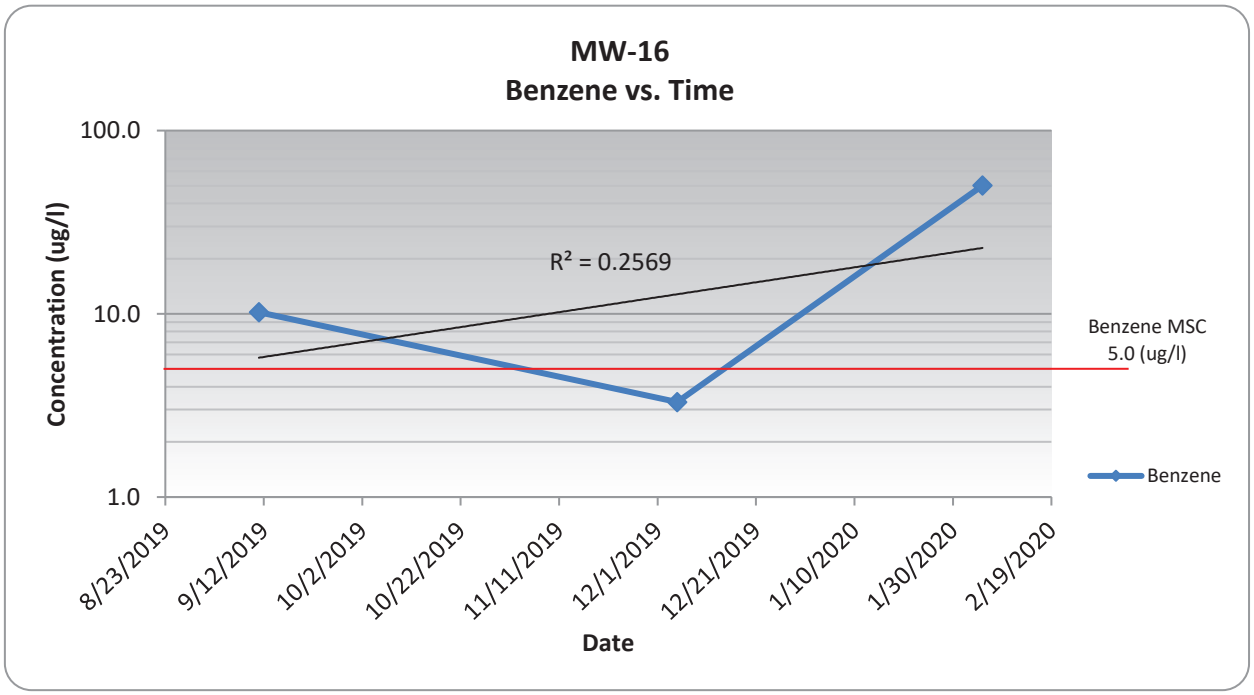

MW-15
Benzene vs. Time
1000
100
10
Concentration (ug/l)
R² = 0.4358
8/23/2019
9/12/2019
10/2/2019
10/22/2019
11/11/2019
12/1/2019
12/21/2019
1/10/2020
1/30/2020
2/19/2020
Date
Benzene
Benzene MSC
5.0 (ug/l)

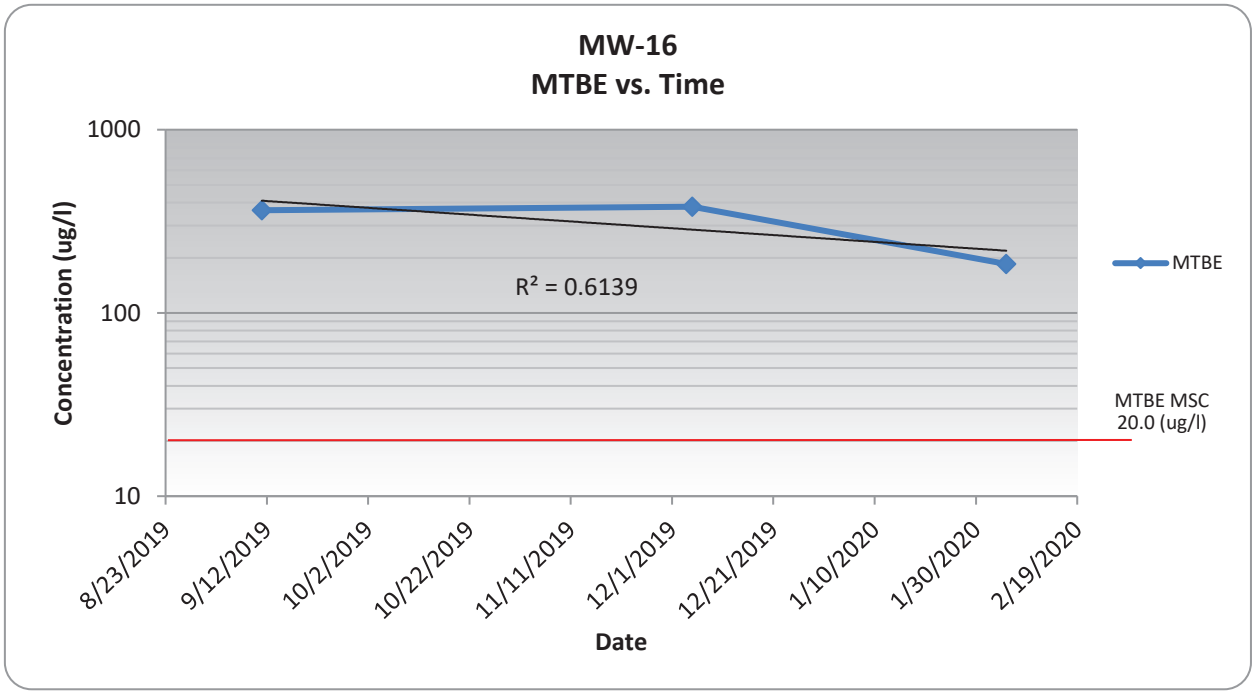

MW-15
Ethylbenzene vs. Time
10000
1000
100
Concentration (ug/l)
R² = 0.8526
8/23/2019
9/12/2019
10/2/2019
10/22/2019
11/11/2019
12/1/2019
12/21/2019
1/10/2020
1/30/2020
2/19/2020
Date
Ethylbenzene MSC
700.0 (ug/l)
Ethylbenzene

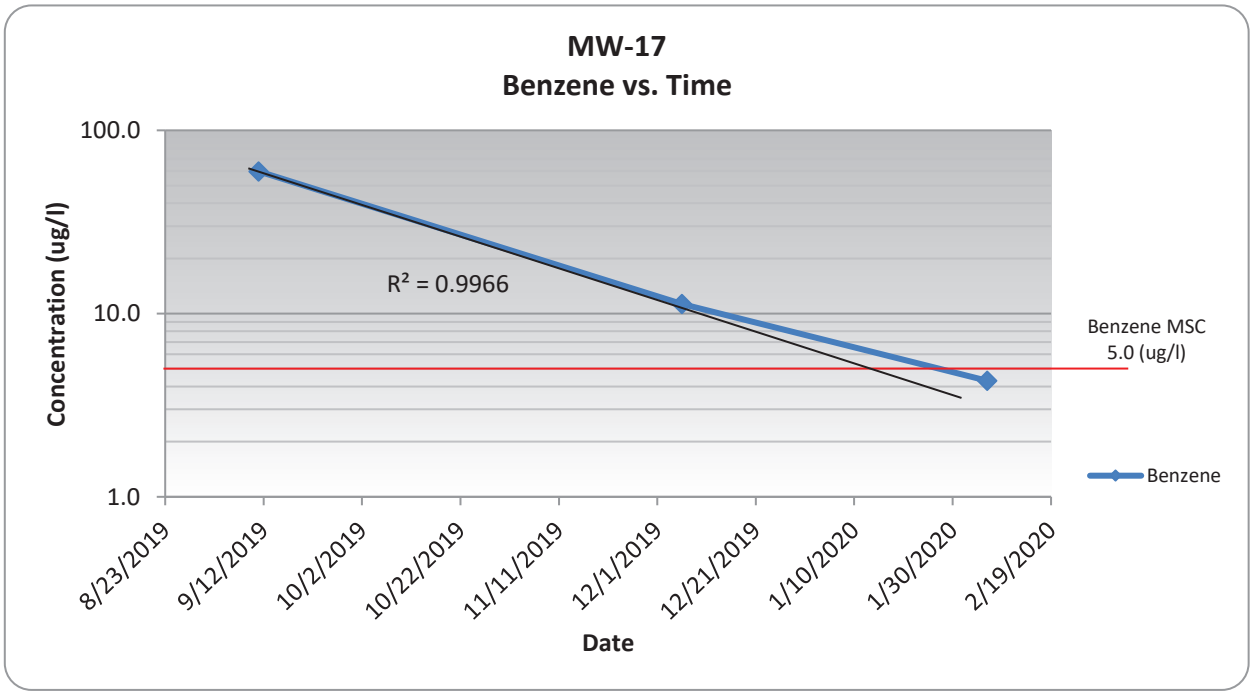

MW-15
MTBE vs. Time
100.0
10.0
1.0
Concentration (ug/l)
R² = 0.986
MTBE MSC
20.0 (ug/l)
MTBE
8/23/2019
9/12/2019
10/2/2019
10/22/2019
11/11/2019
12/1/2019
12/21/2019
1/10/2020
1/30/2020
2/19/2020
Date

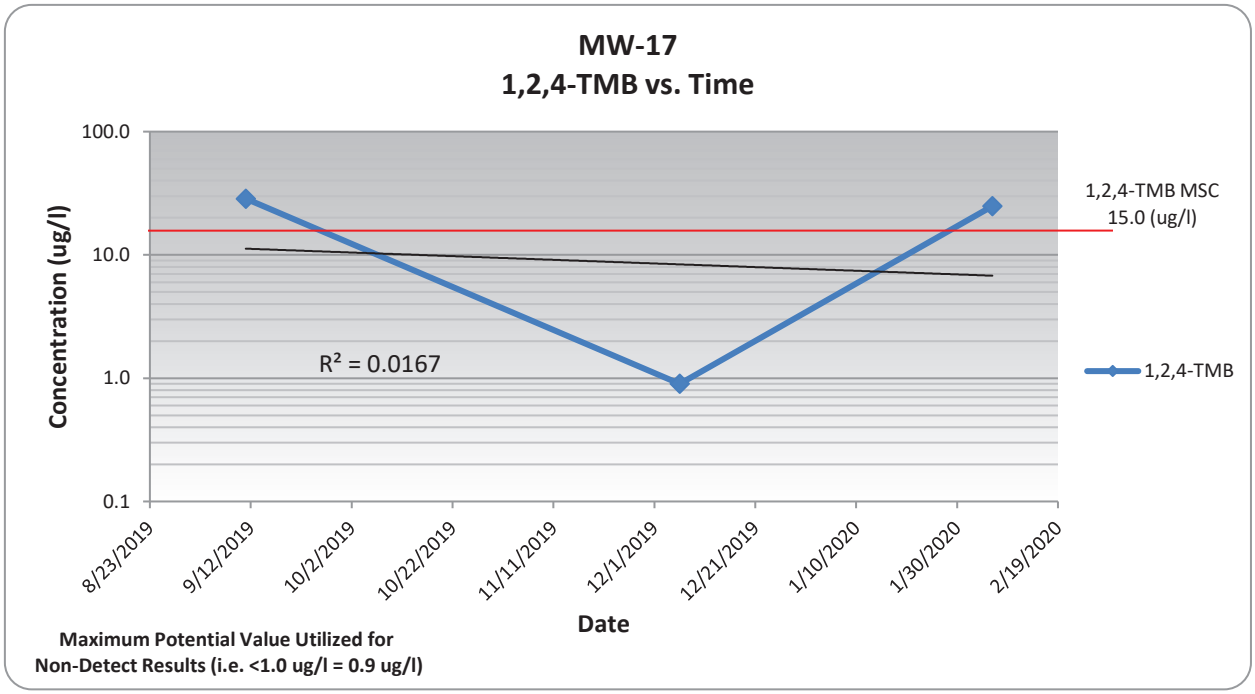

MW-15
Naphthalene vs. Time
1000.0
100.0
10.0
Concentration (ug/l)
R² = 0.911
Naphthalene MSC
100.0 (ug/l)
Naphthalene
8/23/2019
9/12/2019
10/2/2019
10/22/2019
11/11/2019
12/1/2019
12/21/2019
1/10/2020
1/30/2020
2/19/2020
Date


MW-15
1,2,4-TMB vs. Time
10000
1000
100
10
Concentration (ug/l)
R² = 0.9595
1,2,4-TMB
1,2,4-TMB MSC
15.0 (ug/l)
8/23/2019
9/12/2019
10/2/2019
10/22/2019
11/11/2019
12/1/2019
12/21/2019
1/10/2020
1/30/2020
2/19/2020
Date


MW-16
Benzene vs. Time
100.0
10.0
1.0
Concentration (ug/l)
R² = 0.2569
Benzene MSC
5.0 (ug/l)
Benzene
8/23/2019
9/12/2019
10/2/2019
10/22/2019
11/11/2019
12/1/2019
12/21/2019
1/10/2020
1/30/2020
2/19/2020
Date


MW-16
MTBE vs. Time
1000
100
10
Concentration (ug/l)
R² = 0.6139
MTBE
MTBE MSC
20.0 (ug/l)
8/23/2019
9/12/2019
10/2/2019
10/22/2019
11/11/2019
12/1/2019
12/21/2019
1/10/2020
1/30/2020
2/19/2020
Date


MW-17
Benzene vs. Time
100.0
10.0
1.0
Concentration (ug/l)
R² = 0.9966
Benzene MSC
5.0 (ug/l)
Benzene
8/23/2019
9/12/2019
10/2/2019
10/22/2019
11/11/2019
12/1/2019
12/21/2019
1/10/2020
1/30/2020
2/19/2020
Date


MW-17
1,2,4-TMB vs. Time
100.0
10.0
1.0
0.1
Concentration (ug/l)
R² = 0.0167
8/23/2019
9/12/2019
10/2/2019
10/22/2019
11/11/2019
12/1/2019
12/21/2019
1/10/2020
1/30/2020
2/19/2020
Date
1,2,4-TMB MSC
15.0 (ug/l)
1,2,4-TMB
Maximum Potential Value Utilized for
Non-Detect Results (i.e. <1.0 ug/l = 0.9 ug/l)