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Pre-Design Investigation Report
Canastota Former MGP Site
Canastota, NY

NYSDEC Site #727014

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1. Introduction

On behalf of National Grid, GEI Consultants, Inc., P.C. (GEI) conducted a Pre-Design Investigation (PDI) at the former Canastota Manufactured Gas Plant (MGP) site from September 6, 2022, to April 27, 2023, in order to obtain data for the remedial design and to obtain data requested by the New York State Department of Environmental Conservation (NYSDEC). The main design elements addressed by the PDI were:

- Confirm or refine the vertical and horizontal delineation of MGP-related impacts to be remediated by the excavation and in-situ solidification (ISS) components of the remedial design.
- Collect soil samples and geotechnical data to support the design of a support of excavation (SOE) approach/system.
- Assess the building foundation configurations for the Garage and Salt Storage Unit, as well as the former MGP gas holder foundation protrusion from the east side of the Garage, so that the SOE design can accommodate these features.
- Assess the area around the sanitary sewer line to refine the horizontal delineation of MGP-related impacts and evaluate the sewer corridor as a potential migration pathway.
- Install and sample three additional shallow monitoring wells as requested by the NYSDEC.
- Evaluate the accessibility and condition of the existing monitoring well network and perform a round of water-level gauging and sampling.
- Collect samples to perform bench-scale treatability testing for ISS to evaluate reagent mix design and application ratios.
- Collect samples for waste characterization profiling; and
- Create an updated site survey map.

The PDI investigation was performed in accordance with the NYSDEC-approved PDI Workplan dated March 21, 2022, and the Supplemental PDI Workplan dated December 1, 2022. The investigation locations are shown in Figure 1.

Borings and test pits were advanced by Parratt Wolff, Inc. (Parratt Wolff) of East Syracuse New York between September 7, 2022, and December 14, 2022.

2. PDI Activities and Results

2.1 Utility Clearance

Utility locating services were provided by Blood Hound, LLC on August 29, 2022, to identify and mark subsurface utility locations within the investigation area. Investigation locations were adjusted as needed to be further than ten feet from any identified utility lines. UDIG New York was also contacted prior to beginning any ground-intrusive activities.

2.2 Test Pits

Test pits were advanced at eight locations (TP-101 to TP-108) to assess building foundations, locate and assess the area around the existing sanitary sewer line, locate former MGP structures, confirm/refine the remedial area, and to obtain bulk soil samples for bench scale treatability testing of soil mixes for ISS. Parratt-Wolff advanced test pits using a mini excavator and vacuum excavation methods with direction and oversight from GEI. Test pit locations are shown on Figure 1. Photographs and information regarding soil type, subsurface features, and the presence of MGP-related impacts are provided in the test pit logs in Attachment A.

Where present, pavement was saw-cut prior to excavation. The test pit locations were pre-cleared to approximately 5 feet and were excavated to depths ranging from 4.5 to 7 feet below ground surface (bgs). The limit of excavation was due to the presence of groundwater which reduced the ability to see deeper soils. The presence of water also created stability problems in test pits that were excavated in gravelly, unconsolidated fill. Fill materials were encountered in each test pit; native soils were not observed.

Analytical soil samples were collected from TP-101 through TP-105 and TP-107 to confirm the visual observations. Samples were submitted under chain of custody protocols to Eurofins Environmental Testing, Inc. (Eurofins) for analysis of semi-volatile organic compounds (SVOCs) using EPA Method 8270. The analytical results are summarized in Table 1 and compared to Commercial SCOs and to the 500-ppm total SVOC limit established in the NYSDEC Decision Document (Sept 2021). A bulk soil sample was also obtained from TP-104 (5-6 ft bgs) for use in bench scale treatability testing.

At the completion of sampling each test pit was backfilled with the soil removed, in reverse order of excavation (deepest soil first, shallowest soil last). Locations located in paved areas were patched with cold-mix asphalt or topped with coarse gravel to facilitate hot-mix paving at a later time.

2.2.1 Test Pits - Building Foundations

Test pits were excavated to expose the foundations of the DPW Garage building and the Salt Storage Unit. Two test pits (TP-103 and TP-104) were excavated along the perimeter of the Salt Storage Unit. The floor slab of the structure was observed to be constructed of multiple layers of asphalt, totaling 1 to 1.2 feet thick, placed over hard brick (TP-103) or concrete fill (TP-104).

Test pits TP-102 and TP-105 were performed to expose the foundation of the DPW Garage building. The test pits showed that the concrete block walls of the garage extend approximately 2.5 feet below-grade and rest on cast-in-place concrete strip footings. The footings were measured to be approximately 11 inches thick and extend approximately 5 inches beyond the face of the block foundation wall (see test pit logs). The soil beneath the footers consisted of fill to at least 5 feet bgs at TP-102 and to 4 feet bgs at TP-105.

2.2.2 Test Pits Sanitary Sewer Line

Test pits TP-106 and TP-106A were excavated in the vicinity of the sanitary sewer line to assess the sewer line construction, condition, bedding material, and if there were indications of MGP impacts within the bedding material for the pipe. These test pits were advance using only vacuum excavation methods. The sanitary sewer was not found at the first location (TP-106), so another test pit (TP-106A) was excavated to the south.

The sanitary sewer line was located at TP-106A approximately 43-inches below grade. It was constructed of plastic and surrounded by miscellaneous fill including bricks, large concrete blocks, and wood. MGP-related impacts were not observed at these locations.

2.2.3 Test Pits MGP Structures

One of the goals of TP-101 and TP-108 was to assess the locations of former MGP structures. TP-101 was excavated along the DPW Garage building to evaluate the location of the former gas holder wall. During excavation, TP-101 was shifted away from the DPW Garage because the asphalt near the building was too thick to be broken up with the excavator. The gas holder wall was not observed at this location; however, the existing information from the RI is sufficient for determining the gas holder location in relation to the remedial area limits for the design.

TP-108 was excavated to confirm/refine the location of the tar well structure. The test pit was first excavated inside the tar well (TP-108A) and then expanded to the north to observe the area outside the tar well (TP-108B). A soil boring (SB-109) was later advanced within TP-108B to evaluate impacts outside of the tar well.

2.2.4 Test Pits MGP-Related Impacts

The MGP-related impacts observed at each test pit location were recorded on the logs. Observations are shown on Figure 2 using the classification system included in the PDI Workplan: red shading for coal tar saturated soil, pink shading for coal tar-coated soil or lenses, orange shading for blebs or sheen, yellow shading for slight hydrocarbon-like staining or odor, and green shading if no MGP- related impacts were observed.

Coal tar NAPL was observed on the groundwater surface at TP-103 and TP-104, located at the west and south sides of the Salt Storage Unit, respectively. A 2-inch-thick, semi-plastic tar layer was observed at TP-101 at 2.5 feet bgs, located along the east side of the DPW Garage building. At TP-108B the outside of the wall of the tar well was observed to have a coating of hardened tar. Soil samples collected from TP-101 (3 ft), TP-103 (7 ft), and TP-104 (5.5 ft) exceeded Commercial SCOs for various individual PAHs but were below 500 ppm total SVOCs. A sample was not collected at TP-108.

No visual MGP-related impacts were observed at TP-102, TP-105, TP-106, TP-106A, and TP-107. Additionally, analytical samples collected from TP-102 (5 ft), TP-105 (4.5 ft), and TP-107 (5 ft) were all below 500 ppm total SVOCs. Samples were not collected from TP-106 and TP-106A.

2.3 Soil Borings

Soil borings were advanced by Parratt-Wolff with direction and oversight by GEI to confirm/refine the delineation of the remedial area and to collect geotechnical data to inform the remedial design. Sixteen soil borings were advanced during the first mobilization between September 7 to October 4, 2022, and ten additional borings were advanced during the second mobilization between December 5 to 14, 2022. A total of 26 soil borings (SB-101 through SB-115, SB-117, SB-118, SB-121 through SB-129) were advanced during this PDI. Contingent soil borings SB-116, SB-119, and SB-120 were cleared to approximately 5-feet bgs but were not advanced because visual observations at preceding locations concluded that these borings were not necessary to define the remedial area. Soil boring SB-115 was planned to be performed inside the Salt Storage Unit to assess the floor construction and delineate MGP impacts, but the amount of salt stored in the building at the time of the PDI and Supplemental PDI prevented access for drilling. Boring locations are shown on Figures 1, and boring logs are provided in Attachment A.

In paved areas, a roughly 1.5-foot square was saw-cut in the asphalt at each boring to facilitate pre-clearing. Each drilling location was pre-cleared to a depth of approximately five feet using vacuum excavation or hand-digging. The borings were then advanced using a truck-mounted hollow stem auger (HSA) or direct-push drilling methods. Delineation soil borings were generally advanced to two feet below the top of the till surface, and

geotechnical borings were advanced approximately 20 feet below the top of the till surface observed in the field.

Soil samples were obtained from HSA borings using standard 2-foot long, 2-inch outer-diameter split-spoon samplers. Standard penetration testing (SPT) of the soil was performed for each split spoon sample, and the SPT N-values (i.e., blow counts) were recorded. During the supplemental PDI some of the delineation borings were performed by direct-push (Geoprobe) drilling using a 4-ft long sampler equipped with a polycarbonate plastic core liner as it was found that the direct-push method was able to penetrate the till faster and with greater soil recovery than split-spoon sampling. The borings sampled by direct-push equipment are identified on Figure 1.

Samples were obtained continuously from the base of the pre-cleared interval (generally 4 or 5 ft bgs) to the top of the till. Borings advanced for geotechnical design were sampled at 5-foot intervals after the till was encountered. Note that for some of the borings, 3-inch diameter split spoon samplers were also used to collect sufficient sample volume for the treatability study and waste characterization samples.

Soil recovered from each sample interval was visually characterized (for soil type, grain size, color, texture, and moisture content) and placed in glass "drillers jars" for headspace screening using a MiniRAE 3000 photo-ionization detector (PID) equipped with a 10.6 eV bulb. In addition, visual observations associated with the presence of hydrocarbon impacts including staining, sheen, or coal tar NAPL, was recorded. This information is summarized on the boring logs (Attachment A).

Following completion of each soil boring, the borehole was backfilled with cement-bentonite grout placed using tremie methods from the bottom of the borehole to the ground surface. Locations drilled in paved areas were patched with cold-mix asphalt. Locations drilled in the grassy area were covered with soil and sod that had been removed during pre-clearing.

2.3.1 Soil Borings – Delineation

The MGP-related impacts observed at each of the PDI investigation locations is shown on Figure 2 using the classification system described in the PDI Workplan. Table 2 also summarizes the depths of the MGP-related impacts for each boring using the same color classification system. Cross-sections A-A' and C-C' from the Remedial Investigation Report were updated using the PDI results, and new cross-section D-D' was created. The locations of the cross-sections are shown on Figure 3, and the cross-sections are presented as Figures 4 through 6. The figure from the RI showing the top of the till surface was also updated to show the till elevations from the PDI; however, due to the degree of variability in the till surface a new contour map was not prepared. Figure 7 shows top of till at all locations where it was encountered. The till surface can be clearly seen in the cross-sections to dip to the north at the site.

The PDI boring program was conducted in an "inside-out" fashion, working from areas of known or suspected impacts outwards until MGP impacts were no longer observed in the field. As a result, borings were not performed at some of the step-out (contingency) borings that were pre-cleared when the limits of impact were found by the previous boring. Likewise, at the northwest side of the impacted area additional borings outside of the contingency locations were advanced to complete the delineation. The PDI and Supplemental PDI boring and test pit program was able to successfully refine the limits of MGP impacts, as discussed below in Section 3.2.

In addition to visual observations, analytical soil samples were collected from various intervals for laboratory analysis to confirm/refine the delineation of the remedial area. If MGP-related impacts were observed, soil samples were collected from the first interval below the visual impacts to establish the vertical limit. Soil samples were also collected from intervals where visual impacts were uncertain to confirm limits with analytical data. If MGP-related impacts were not encountered, a sample was collected from the one-foot interval immediately above the water table. Delineation samples were submitted under chain of custody protocols to Eurofins for analysis of semi-volatile organic compounds (SVOCs) using EPA Method 8270.

Analytical results are summarized in Table 1 and compared to Commercial Soil Cleanup Objectives (SCOs) and 500 ppm total SVOCs. Of the sample intervals collected, only SB-105 (11-12.7 ft) and SB-127 (6-6.5 ft) exceeded 500 ppm SVOCs. For both SB-105 and SB-127, a sample was collected from a deeper interval that did not exceed 500 ppm total SVOCs thus providing vertical delineation at these locations.

2.3.2 Soil Borings – Geotechnical

Field geotechnical data was collected from six of the soil borings (SB-102, SB-104, SB-106, SB-107, SB-112, and SB-113) to inform the geotechnical design of the proposed remedy. The geotechnical soil borings were drilled and logged in the same manner as described above. Additionally, pocket penetrometer and torvane testing was performed in the field on cohesive soils, and these values were recorded on the boring logs (Attachment A).

Representative soils samples from the PDI borings were also submitted for laboratory geotechnical testing for grain size, moisture content, and Atterberg limits (see Section 2.8).

2.4 Monitor Well Installations

Two new monitoring wells (MW-101 and MW-102) were installed between December 12 and December 14, 2022, by Parratt-Wolff, Inc with observation and documentation by GEI. As noted in the Supplemental PDI Workplan, these two wells were installed on the Lennox Ambulance Company and Village of Canastota Department of Public Works (DPW) properties since National Grid was unable to obtain access to the downgradient residential

property. Additionally, MW-103 was not installed because the two new wells (MW-101 and MW-102) along with MW-07 defined the location and width of the groundwater plume, and thus MW-103 was concluded to be unnecessary. Monitoring well locations are shown on Figure 1.

Soil borings for the monitoring well locations were advanced using a tracked Geoprobe 7822DT drill rig equipped with HSAs, and soil samples were obtained using a 4-foot direct-push sampler. The wells were constructed using a two-inch diameter Schedule 40 PVC well riser with a 10-foot section of 0.01-inch slotted screen. The screened interval is from approximately 2 to 12 feet deep in both wells due to the shallow water table observed at those locations. Both monitoring wells were completed with a locking steel guard pipe set into a concrete pad. The newly installed wells were developed by Parratt-Wolff following installation. Soil boring and monitoring well construction logs for the two new wells are included in Attachment A, and Table 3 provides construction information for all the wells at the Site.

2.5 Existing Monitoring Well Assessment and Repairs

A monitoring well assessment was performed to locate and evaluate the condition of the existing monitoring wells at the Site. GEI field staff evaluated 11 of the 14 existing monitoring wells on January 18, 2023, prior to conducting a groundwater sampling event. During this program, MW-02 and MW-08 were unable to be located. MW-04A was located, but it was partially covered with asphalt and unable to be opened. During subsequent field activities on March 24, 2023, these three wells were located and uncovered with assistance from GEI's surveying subcontractor (Keystone Associates). A condition assessment of these three wells was performed and documented during the March 2023 site visit.

GEI field staff completed Well Integrity Assessment Forms to document the condition of the wells and recommend repairs, which are presented in Attachment C. The assessment also included gauging the depth to groundwater, depth to bottom, and the presence or absence of NAPL at each well. The assessment observations and the repairs performed are summarized in Table 3.

Based on the well assessment, Parratt-Wolff, Inc with direction from GEI performed recommended repairs during a mobilization on April 6, 2023. Some minor repairs were also performed during other field activities by GEI field staff. Repairs included replacing the roadboxes and restoring the surface at MW-04A and MW-13, replacing the guard pipe at MW-03, replacing a plug at MW-05, and replacing bolts and locks at various other monitoring wells.

2.6 Groundwater Sampling and Gauging

GEI performed comprehensive gauging at the new and existing monitoring wells prior to sampling. Gauging and sampling were performed from January 18 to 20, 2023 for MW-01, MW-03, MW-04, MW-05, MW-06, MW-07, MW-09, MW-10, MW-11D, MW12D, MW-13, MW-101, and MW-102. Gauging and sampling were performed on April 27, 2023, for MW-02, MW-04A, and MW-08.

Depth-to-water measurements were converted to water elevations using recently surveyed well reference elevations. The groundwater elevations are summarized in Table 3. Groundwater elevations were used to create a groundwater contour map as shown on Figure 8. Note that the January 2023 groundwater elevations show a mounding of the water table at the north side of the site, with an expanded area of inferred flow to the south across the central portion of the site. This is interpreted to be due to period of heavy rain taking place during the monitoring event. Flow to the south in the vicinity of MW-2 has been observed in all previous gauging events; however, the mounding in January 2023 expanded the area for this southerly flow. No other changes to the site conditions were observed that would cause a permanent change in the groundwater flow pattern documented during the RI.

Sampling was performed using low-flow sampling methods. Groundwater samples were analyzed for 17 PAHs (EPA Method 8270) and benzene, toluene, ethyl benzene, xylene (BTEX) (EPA Method 8260) as indicated in the Workplan. Samples were submitted under chain of custody protocols to Eurofins for analysis of the specified parameters. Groundwater analytical results are provided in Table 4 and compared to New York State Ambient Water Quality Standards (NYS AWQS) and Guidance Values for GA groundwater.

Note that due to a shipping problem by Eurofins the groundwater samples obtained on January 18 and 19, 2023 were not delivered on-time to the analytical laboratory in Amherst, NY. The samples were received at 18C, and therefore the results for those samples were qualified during data validation as estimated and given a “J” data quality flag. Based on the data validation and the comparison to previous groundwater sampling at these wells the data appear to be consistent and usable.

BTEX and/or PAHs were detected above standards at MW-04, MW-04A, MW-07, MW-09, and MW-10. MW-10 shows the highest concentration of PAHs (2,725 ug/L), and MW-07 shows the highest concentration of BTEX (4,880 ug/L). Groundwater concentrations are consistent with previous sampling results and generally appear in the source area or downgradient of the observed soil impacts. Figures 9 and 10 summarize the current and historic groundwater BTEX and PAH concentrations in the site wells. Contouring of total BTEX concentration from the 2023 groundwater sampling is shown on Figure 9, and the total PAH concentration is contoured on Figure 10. These figures show that the general distribution of contaminants is consistent with that shown by the RI.

Monitoring wells MW-101, MW-07, and MW-102 form a transect across the direction of groundwater flow at the downgradient side of the site. BTEX and PAHs were not detected in wells MW-101 and MW-102, indicating that the plume is not more than 120 feet wide and centered at or near MW-07, as previously discussed in the RI. Sampling of off-site monitoring well MW-14 during the RI did not show the presence of BTEX or PAHs at this well location, 95 feet downgradient of MW-07. It is likely, therefore, that the groundwater plume attenuates to below groundwater standards in the area between the site property boundary and the former location of MW-14, within the vacant portion of the adjoining residential parcel. The distance to the nearest residence from MW-07 is approximately 300 feet upgradient and 400 feet downgradient.

2.7 ISS Treatability Study

To develop an effective and efficient mix design for the ISS treatment approach, bulk soil samples were collected for laboratory (bench scale) testing from locations and depths that were considered to be representative of the range of soil types and conditions found within the impacted area at the site. Four 5-gallon bulk samples were created, as described below. These samples were shipped to JLT Laboratories, Inc. (JLT) in Canonsburg, Pennsylvania for characterization testing and use in the mix design and testing process.

2.7.1 Treatability Study Soils

The soil in two of the bulk samples was screened in the field to remove oversized material using a standard 3/8-inch sieve; material larger than this cannot be used in bench-scale testing procedures. The bench scale mix designs are not negatively affected by the exclusion of these gravel-sized particles. JTL performed grain size testing on each of the four bulk samples, and the results are provided in Attachment B. The following composite bulk samples were obtained:

ISS Sample 1 – "Pond Fill"

Source: Test Pit-104 (5-6 feet bgs)

This sample represents the fill material that was encountered at multiple locations at the site within the footprint of the former pond that was located at the north side of the MGP. Overall, this sample consists of moist to saturated gravel, with smaller amounts of sand and fines, exhibiting moderate MGP impacts. Oversized material that was screened out had a maximum particle size of approximately 3 inches in diameter and composed about 1/3 of the soil volume (prior to removing the oversized material). The oversized material appeared to be a mix of gravel and debris such as glass fragments. The oversized material was sub-rounded to sub-angular. Based on the grain size analysis, the remaining material was found to consist of 68% sand, 17% fine gravel, and 15% fines.

ISS Sample 2 – "MGP Fill"

Source 1: Soil boring SB-105 (9-14 feet bgs) ~ 1 gallon

Source 2: Soil boring SB-110 (0-4 feet bgs) ~ 4 gallons

This bulk sample was obtained from the area north of the former MGP buildings that was the staging and operations yard for the site, and south of pond. Within this area were the underground tar separator and "hot well", condenser and scrubber equipment, and a coal pile.

A composite bulk sample was created from two borings, as noted above. The sample was similar to that of ISS Sample 1, though drier and with more debris and other man-made material. The oversized material screened-out was about 1/5 of the total soil volume and appeared to be a mix of gravel along with brick, clinker, urban fill materials, and debris. Oversized material that was screened out had a maximum particle size of about 1-inch in diameter. The material is a mix of gravel, clinker, brick, and coal, generally sub-rounded to sub-angular. Based on the grain size analysis, the remaining material consists of 58% well-graded sand, 23% fine gravel, 19% fines.

ISS Sample 3 – Alluvial soil

Source: Soil Boring SB-113 (12-16 feet bgs)

This sample was collected from the native alluvial soil encountered in the boring at the south side of the Salt Storage Unit. The sample is mostly fine sand and silt with some clay and is NAPL-impacted. Screening was not required for this sample. Based on the grain size analysis this sample is consists of 61% graded sand, 33% fines and 6% gravel.

ISS Sample 4 - Alluvial soil

Source: Soil Boring SB-109 (7-14 feet bgs)

Source: Soil Boring SB-110 (10-12 and 14-15 feet bgs)

The soil from both borings consisted principally of fine sand and silt with some clay. The soil has NAPL impacts. The soil from SB-109 also included some hard till-like material that is interpreted as re-worked compacted basal till that was incorporated into the alluvium at the time of post-glacial deposition. This displaced till was encountered within the alluvial soils in several of the borings within the impacted area of the site. The grain size testing of this sample shows it to be 54% narrowly graded fine sand, with 44% fines and a trace amount of gravel (1%).

2.7.2 Treatability Study Mix Design

The site subsurface information collected from the PDI, and previous investigations informed the composition of mix design test soils for use in testing for ISS treatability. "Composite A" soils are intended to represent the areas that contain significant "fill" materials at the site and are composed of 60 percent alluvium soils and 40 percent fill material. "Composite B" soils represent areas of ISS that have more of the fill material removed during the pre-excavation work and are 90 percent alluvium soils and 10 percent fill materials.

These composite soils were used in the mix design testing conducted at JLT. A "proof" mix was produced and tested to provide an early indication of the strength and permeability characteristics of a moderately high cementitious mix. This mixture comprising Composite B soils also contains 15 percent Portland cement. The unconfined compressive strength (UCS) of a sample of this material (cured for 14 days) was measured to be 357 pounds per square inch (psi). Based on this information, three mix designs were created from the two composite materials: two Composite A mixes for 7 percent and 11 percent total cementitious content (mix "A-07pct-1" and "A-11pct-1", respectively) and one Composite B ("B-07pct-1") mix at 7 percent total cementitious content. The total cementitious material in these samples is composed of 50 percent Portland cement (Type 1L) and 50 percent ground granulated blast furnace slag (BFS). The BFS cures more slowly than the Portland cement, so these mixtures were anticipated to gain strength more slowly than the proof mix.

Because of the controlled conditions of the laboratory treatability testing, target minimum criteria for UCS (65 psi) and saturated hydraulic conductivity (5×10^{-6} cm/sec) were set for the mix specimens. Mix strength (reported as UCS) were tested for the mix designs at 7, 14, and 28 days of curing and saturated hydraulic conductivity at 14 and 28 days of curing. Table 5 presents a summary of these UCS and hydraulic conductivity test results, and Figure 12 & 13 shows graphs of the increase in UCS for all three test samples over the 28-day curing period. Attachment B.1 provides the laboratory testing reports. These sample test results showed that the minimum targets were achieved for each of the mix designs prior to 14 days.

2.8 Geotechnical Sampling

Representative samples were selected from the soil borings for laboratory geotechnical analysis for grain size and Atterberg limits. These samples were sent to GEI's soil laboratory in Woburn, Mass. for analysis. The results of the testing were used to inform the information provided herein, perform quality control checks on the soil descriptions in the boring and test pit logs, and will be used for design development. The laboratory reports are provided in Attachment B.2, along with a summary table of the lab results.

2.9 Waste Characterization Sampling

Waste characterization soil samples were collected from four locations (SB-110(10-15), SB-109(0-4), SB-109(7-14), and SB-111(0-4)) during the PDI within the presumed remedial area to evaluate future off-site disposal options. Two samples were collected from shallow fill material to represent lesser impacted material, and two samples were collected from MGP-impacted soils to represent highly impacted material. Waste characterization samples were analyzed for both thermal desorption and landfill disposal requirements. The waste characterization analytical results are summarized in Table 6.

Composite samples of investigation-derived wastes (drilling spoils, and water from equipment decontamination and well sampling purge water) were also analyzed for waste disposal as described in Section 2.10, and the testing results are provided in Attachment E.

2.10 Quality Assurance/Quality Control (QA/QC) Sampling

QA/QC sampling was performed in accordance with the Workplan. Field QA/QC samples were collected at a frequency of one per 20 samples for each matrix and parameter, and included equipment blanks, duplicates, matrix spikes and matrix spike duplicates (MS/MSD). Two sets of QA/QC samples were collected during delineation soil sampling, and one set was collected during groundwater sampling. Groundwater sampling used only dedicated equipment, so an equipment blank was not collected as part of the QA/QC samples.

Analytical data from the delineation soil sampling and groundwater sampling was validated through the Data Usability Summary Report (DUSR) process. Validation reports are provided in Attachment D.

2.11 Investigation-Derived Waste (IDW) Management

Several forms of IDW were generated and managed during the PDI:

- Soil that was vacuum excavated for pre-clearing of boring and test pits was placed back in the excavation. Residual soil remained at some locations, and this material was placed into drums for disposal.
- Soil removed during the excavation of test pits was returned to the excavation in the reverse order of excavation and tamped with the bucket of the backhoe.
- Drilling spoils, soil samples, plastic core liners, poly sheeting, and PPE were placed in drums.
- Decontamination water was collected on a decontamination pad and pumped into drums. Soil collected in the pad was shoveled into drums. At the conclusion of work the poly sheeting used to create the pad was also placed into a drum for disposal.

- Purge water from monitoring well sampling was collected in 5-gallon buckets at each well location and then transferred to drums.

The drums were staged during the investigation at the north side of the investigation area. GEI coordinated with National Grid's waste disposal contractor (Capitol Environmental) for waste profile sampling and off-Site disposal. The drummed IDW material was classified as non-hazardous, and the lab data is included in Attachment E.

2.12 Surveying

Keystone Associates surveyed and mapped the following to create an updated base map for the Site:

- The locations and ground surface elevations of soil borings and test pits.
- The locations, ground surface elevations, and top-of-inner-casing elevations of the monitoring wells.
- The property lines for the Site.

The survey was performed on March 24, 2023. The surveyors also placed stakes around the Site to mark the corners of the property and the property line in the vicinity of MW-101 and MW-102. The stake marking the northeast corner was placed across the street in alignment with the property line to be out of the way of the neighboring driveway.

2.13 Ambient Air Monitoring

A Community Air Monitoring Plan (CAMP) was implemented during both the PDI and Supplemental PDI, as specified by the PDI Work Plan. The results of the monitoring are provided as Attachment F. A summary of the daily monitoring results is provided in Table F1 within the attachment. The daily monitoring summary reports and the raw data files for the PDI are provided as sub-attachments F1 and F2, and for the Supplemental PDI as F3 and F4.

3. PDI Summary and Recommended Revisions to Remedial Approach

3.1 Investigation Results

The PDI generally confirmed the site conditions and the type and extent of MGP impacts described in by the RI and that the proposed remedial approach of using shallow excavation, localized deep excavation (e.g., to remove MGP structures), and ISS is still valid. The PDI refined the lateral extent of MGP impacts to be remediated, as well as the depths of impact. This revised delineation will be used to modify the extent of remediation presented in the Decision Document and will be the basis of remedial design. The PDI also obtained geotechnical data on the soils and the structures at the site so that the remedial design could address foundation stability for the buildings and provided data for the design of excavation support systems (if necessary).

3.1.1 Soil stratigraphy

In general, the soil profile at the site includes the following strata in order of superposition.

Fill: This includes both the pond fill and the MGP fill units. Pond fill was placed within the footprint of the former pond that was located at the north side of the MGP. MGP fill is generally located above the pond fill and in other areas outside of the limits of the former pond. It was generally used to raise the grade of the site to the current elevations. The fill varies between 1- and 14-feet thick. The fill is primarily a granular material with varying amounts of debris and other man-made materials and includes debris from the former MGP structures. N-values for this material varied widely, and pre-clearing of the borings resulted in few in-place measurements being made of the material. Measured N-values in the consolidated MGP yard soils ranged from 4 to 21, with typical values in the 8 to 10 range. The loose pond fill soils had lower values, typically 3 to 10,

Alluvium: The alluvium is a native material that varies between 6- and 22-feet thick that underlies the fill. The alluvium is generally interbedded and contains varying amounts of sands, silts, and clays. At some locations the alluvium surrounds blocks of till that are separate from the in-place till unit. In the areas outside of the former MGP structures, the alluvium contained the highest percentage of visual impacts. Generally, the N-values were low, ranging from 2 to 10, with locations ranging up to the low 20s where significant sand or gravel was present. The isolated till areas had N-values in the 30s and 40s, consistent with those of the in-place till soil unit.

Till: The glacial till is a native material that underlies the alluvium. The bottom of the till was not encountered during the exploration program but is assumed to extend from the bottom of the alluvium to the top of bedrock. The till is a dense, heterogenous mixtures of sands, silts, clays, and gravels, serves as an aquitard, and the visual impacts appear to stop at the top of the till. N-values of the till were high, ranging from about 30 near the top of till, to 100/2". Typical values were in the upper-30s to low 40s.

3.2 Delineation of Impacts

Based on the results of the PDI, adjustments to the areal extent and depth of remediation are required. Figures 11 and 12 shows the original and revised limits and depths of impact for soils which exceed 500 ppm total SVOC concentration and/or contain significant amounts of NAPL based on visual observations. Areas which have been added for remediation are:

- An area to the northwest, in the downgradient direction from the core area of the MGP. The additional impacted locations include PDI borings SB-102, SB-121, and SB-127. The maximum depth of impacts in this area is 14 feet.

- An extension to the north along the east side of the Salt Storage Unit, as defined by PDI boring SB-105. The impacts at this location were observed in boring SB-105. The maximum depth of impacts in this area is 14 feet.

- The area within the eastern portion of the site exhibited deeper impacts to a maximum depth of 12 to 13 feet, as observed in boring SB-109 and SB-110.

The additional horizontal impacts described above resulted in approximately 5,900 square feet (sf) of remedial area. These areas will likely be addressed using shallow excavation and ISS. Remediating to a depth of 14 feet is still feasible for shallow excavation and bucket-mixed ISS. If MGP structures or other subsurface obstructions are encountered, they will be removed using traditional excavation methods and will be replaced with clean fill.

The PDI found that some locations included for remediation in the Decision Document can be excluded:

- NAPL or soil exceeding 500 ppm total SVOCs was not observed along the west side of the DPW Garage, in the vicinity of SB-101.
- The area around the retorts at the southeast side of the remediation area was not impacted by tar, as observed at PDI borings SB-108 and SB-114.
- Test Pits TP-106 and TP-106A, excavated to locate and evaluate the sanitary sewer line, did not show NAPL impacts.

The areas indicated above decreased the remedial area by approximately 2,200 sf.

Therefore, the total net change (increase) in remedial area is approximately 3,700 sf.

3.3 Recommendations

The results of the PDI indicate that the remedial approach described in the Decision Document for the Site is valid. However, modifications to the horizontal and vertical extent of the remediation are required based on the results of the PDI. These items are summarized above and shown on the figures. Adjustments to the layout of the soil excavation and ISS cells that were presented in the DD will be addressed in the 30% Remedial Design.

Tables

Table 1. Soil Analyitcal Results
National Grid Canastota Former MGP Site
Canastota, New York

Analyte	Units	CAS No.	Commercial SCO	SB101 (5-5'6)	SB103 (12-13)	SB103 (14-15'3)	SB104 (6-8)	SB105 (11-12'8)	SB105 (13-14'6)	SB106 (6-6'11)	SB107 (6-8)	SB108 (12-13)	SB 109 (14-15)	DUP2	SB 110 (12-14)	SB 110 (15-16)	SB 111 (14-16)	DUP 1	SB112 (12-14)	SB-113 (16-20)	SB114 (8-9)	SB115 (4-6)	SB117 (8-10)	SB118 (6-8)
Sample Name				SB101 (5-5'6)	SB103 (12-13)	SB103 (14-15'3)	SB104 (6-8)	SB105 (11-12'8)	SB105 (13-14'6)	SB106 (6-6'11)	SB107 (6-8)	SB108 (12-13)	SB 109 (14-15)	DUP2	SB 110 (12-14)	SB 110 (15-16)	SB 111 (14-16)	DUP 1	SB112 (12-14)	SB-113 (16-20)	SB114 (8-9)	SB115 (4-6)	SB117 (8-10)	SB118 (6-8)
Start Depth				5	12	14	6	11	13	6	6	12	14	14	12	15	14	14	12	16	8	4	8	6
End Depth				5.6	13	15.3	8	12.8	14.6	6.11	8	13	15	15	14	16	16	16	14	20	9	6	10	8
Depth Unit				ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
Sample Date				9/16/2022	9/16/2022	9/16/2022	9/21/2022	9/15/2022	9/15/2022	9/27/2022	9/26/2022	9/27/2022	10/3/2022	10/3/2022	10/3/2022	10/3/2022	9/30/2022	9/30/2022	12/6/2022	9/29/2022	9/27/2022	9/15/2022	9/19/2022	9/20/2022
Parent Sample														SB 109 (14-15)				SB 111 (14-16)						
PAH17	ug/kg																							
Acenaphthene		83-32-9	500000	2200 U	**24000**	**2400**	2100 U	**250000**	**900 J**	200 U	230 U	**28000**	200 U	200 U	**42 J**	200 U	200 U	**36 J**	**5700**	200 U	210 U	200 U	**2100**	**35 J**
Acenaphthylene		208-96-8	500000	**490 J**	**9400**	**930**	2100 U	**460000**	**6300**	200 U	**37 J**	**6300**	200 U	200 U	**250**	200 U	200 U	190 U	220 U	200 U	210 U	200 U	**180 J**	**51 J**
Anthracene		120-12-7	500000	**650 J**	**17000**	**2100**	2100 U	**430000**	**5600**	200 U	**140 J**	**16000**	200 U	200 U	220 U	200 U	200 U	190 U	220 U	200 U	210 U	200 U	**850 J**	210 U
Benzo(a)anthracene		56-55-3	5600	**1500 J**	**10000**	**1500**	**770 J**	**310000**	**7100**	200 U	**400**	**11000**	200 U	200 U	220 U	200 U	**29 J**	**30 J**	220 U	**22 J**	210 U	200 U	**290 J**	210 U
Benzo(b)fluoranthene		205-99-2	5600	**2100 J**	**7900**	**1200**	**750 J**	**260000**	**6300**	200 U	**310**	**8300**	200 U	200 U	220 U	200 U	200 U	190 U	220 U	200 U	210 U	200 U	**220 J**	210 U
Benzo(k)fluoranthene		207-08-9	56000	**780 J**	**2800**	**320**	**290 J**	**120000**	**2900**	200 U	230 U	**4500**	200 U	200 U	220 U	200 U	200 U	190 U	220 U	200 U	210 U	200 U	1100 U	210 U
Benzo(g,h,i)perylene		191-24-2	500000	**1200 J**	**5700**	**890**	**380 J**	**170000**	**3600**	200 U	**150 J**	**5900**	200 U	200 U	220 U	200 U	200 U	190 U	220 U	200 U	210 U	200 U	**130 J**	210 U
Benzo(a)pyrene		50-32-8	1000	**2000 J**	**10000**	**1500**	**750 J**	**310000**	**7300**	200 U	230 U	**12000**	200 U	200 U	220 U	200 U	200 U	190 U	220 U	200 U	210 U	200 U	**300 J**	210 U
Chrysene		218-01-9	56000	**1500 J**	**9900**	**1400**	**730 J**	**290000**	**5700**	200 U	**560**	**11000**	200 U	200 U	220 U	200 U	200 U	190 U	220 U	200 U	210 U	200 U	1100 U	210 U
Dibenz(a,h)anthracene		53-70-3	560.0	2200 U	**1100**	**170 J**	2100 U	**42000**	**760 J**	200 U	230 U	**1600 J**	200 U	200 U	220 U	200 U	200 U	190 U	220 U	200 U	210 U	200 U	1100 U	210 U
Fluoranthene		206-44-0	500000	**3000**	**25000**	**3200**	**1600 J**	**830000**	**15000**	200 U	**510**	**24000**	200 U	200 U	**34 J**	200 U	**58 J**	**69 J**	220 U	**58 J**	210 U	200 U	**1100**	**46 J**
Fluorene		86-73-7	500000	**340 J**	**16000**	**1700**	**260 J**	**390000**	**4600**	200 U	**61 J**	**18000**	200 U	200 U	220 U	200 U	200 U	**29 J**	**520**	**24 J**	210 U	200 U	**770 J**	210 U
Indeno(1,2,3-cd)pyrene		193-39-5	5600	**1000 J**	**4400**	**690**	**380 J**	**160000**	**3200**	200 U	**140 J**	**4800**	200 U	200 U	220 U	200 U	200 U	190 U	220 U	200 U	210 U	200 U	1100 U	210 U
2-Methylnaphthalene		91-57-6	NE	2200 U	**27000**	**2000**	2100 U	**580000**	**4700**	200 U	230 U	**37000**	200 U	200 U	220 U	200 U	200 U	190 U	**140 J**	200 U	210 U	200 U	**2000**	210 U
Naphthalene		91-20-3	500000	2200 U	**57000**	**3300**	2100 U	**2000000**	**13000**	200 U	**45 J**	**31000**	200 U	200 U	**99 J**	200 U	**47 J**	**83 J**	**5700**	**81 J**	210 U	200 U	**12000**	**90 J**
Phenanthrene		85-01-8	500000	**2200**	**65000**	**7600**	**1500 J**	**1600000**	**21000**	200 U	**220 J**	**57000**	200 U	**35 J**	**80 J**	200 U	**91 J**	**130 J**	220 U	**97 J**	210 U	200 U	**3200**	**61 J**
Pyrene		129-00-0	500000	**2500**	**29000**	**3700**	**1600 J**	**800000**	**12000**	200 U	**660**	**39000**	200 U	200 U	**36 J**	200 U	**62 J**	**76 J**	220 U	**45 J**	210 U	200 U	**1300**	**54 J**
Total PAH (17) (ND=0)		TPAH17_ND0	NE	**19260**	**321200**	**34600**	**9010**	**9002000**	**119960**	ND	**3233**	**315400**	ND	**35**	**541**	ND	**287**	**453**	**12060**	**327**	ND	ND	**24440**	**337**
PAH17 Other SVOCs	ug/kg																							
Acetophenone		98-86-2	NE	2200 U	1100 U	190 U	2100 U	12000 U	930 U	200 U	230 U	2000 U	200 U	200 U	220 U	200 U	200 U	190 U	220 U	200 U	210 U	200 U	1100 U	210 U
Atrazine		1912-24-9	NE	2200 U	1100 U	190 U	2100 U	12000 U	930 U	200 U	230 U	2000 U	200 U	200 U	220 U	200 U	200 U	190 U	220 U	200 U	210 U	200 U	1100 U	210 U
Benzaldehyde		100-52-7	NE	2200 U	1100 U	190 U	2100 U	12000 U	930 U	200 U	230 U	2000 U	200 U	200 U	220 U	200 U	200 U	190 U	220 U	200 U	210 U	200 U	1100 U	210 U
Biphenyl (1,1-Biphenyl)		92-52-4	NE	2200 U	**6100**	**540**	2100 U	**130000**	**980**	200 U	230 U	**4100**	200 U	200 U	220 U	200 U	200 U	190 U	**1400**	200 U	210 U	200 U	**390 J**	210 U
Bis(2-chloroethoxy)methane		111-91-1	NE	2200 U	1100 U	190 U	2100 U	12000 U	930 U	200 U	230 U	2000 U	200 U	200 U	220 U	200 U	200 U	190 U	220 U	200 U	210 U	200 U	1100 U	210 U
Bis(2-chloroethyl)ether		111-44-4	NE	2200 U	1100 U	190 U	2100 U	12000 U	930 U	200 U	230 U	2000 U	200 U	200 U	220 U	200 U	200 U	190 U	220 U	200 U	210 U	200 U	1100 U	210 U
2,2-oxybis(1-Chloropropane)		108-60-1	NE	2200 U	1100 U	190 U	2100 U	12000 U	930 U	200 U	230 U	2000 U	200 U	200 U	220 U	200 U	200 U	190 U	220 U	200 U	210 U	200 U	1100 U	210 U
Bis(2-ethylhexyl)phthalate		117-81-7	NE	2200 U	1100 U	190 U	2100 U	12000 U	930 U	200 U	230 U	2000 U	200 U	200 U	220 U	200 U	200 U	190 U	220 U	200 U	210 U	200 U	1100 U	210 U
4-Bromophenyl phenyl ether		101-55-3	NE	2200 U	1100 U	190 U	2100 U	12000 U	930 U	200 U	230 U	2000 U	200 U	200 U	220 U	200 U	200 U	190 U	220 U	200 U	210 U	200 U	1100 U	210 U
Butyl benzyl phthalate		85-68-7	NE	2200 U	1100 U	190 U	2100 U	12000 U	930 U	200 U	230 U	2000 U	200 U	200 U	220 U	200 U	200 U	190 U	220 U	200 U	210 U	200 U	1100 U	210 U
Caprolactam		105-60-2	NE	2200 U	1100 U	190 U	2100 U	12000 U	930 U	200 U	230 U	2000 U	200 U	200 U	220 U	200 U	200 U	190 U	220 U	200 U	210 U	200 U	1100 U	210 U
Carbazole		86-74-8	NE	2200 U	**1400**	**98 J**	2100 U	**110000**	**430 J**	200 U	**27 J**	**760 J**	200 U	200 U	220 U	200 U	200 U	190 U	**580**	200 U	210 U	200 U	**310 J**	210 U
4-Chloro-3-methylphenol		59-50-7	NE	2200 U	1100 U	190 U	2100 U	12000 U	930 U	200 U	230 U	2000 U	200 U	200 U	220 U	200 U	200 U	190 U	220 U	200 U	210 U	200 U	1100 U	210 U
4-Chloroaniline		106-47-8	NE	2200 U	1100 U	190 U	2100 U	12000 U	930 U	200 U	230 U	2000 U	200 U	200 U	220 U	200 U	200 U	190 U	220 U	200 U	210 U	200 U	1100 U	210 U
2-Chloronaphthalene		91-58-7	NE	2200 U	1100 U	190 U	2100 U	12000 U	930 U	200 U	230 U	2000 U	200 U	200 U	220 U	200 U	200 U	190 U	220 U	200 U	210 U	200 U	1100 U	210 U
2-Chlorophenol		95-57-8	NE	4200 U	2000 U	370 U	4100 U	24000 U	1800 U	390 U	450 U	3900 U	380 U	390 U	420 U	380 U	400 U	380 U	420 U	380 U	400 U	390 U	2100 U	420 U
4-Chlorophenyl phenyl ether		7005-72-3	NE	2200 UJ	1100 UJ	190 UJ	2100 U	12000 UJ	930 UJ	200 U	230 U	2000 U	200 U	200 U	220 U	200 U	200 U	190 U	220 U	200 U	210 U	200 UJ	1100 U	210 U
Dibenzofuran		132-64-9	350000	2200 U	**3600**	**350**	2100 U	**230000**	**1600**	200 U	**34 J**	**3200**	200 U	200 U	220 U	200 U	200 U	190 U	**530**	200 U	210 U	200 U	**170 J**	210 U
3,3-Dichlorobenzidine		91-94-1	NE	4200 U	2000 U	370 U	4100 U	24000 U	1800 U	390 U	450 U	3900 U	380 U	390 U	420 U	380 U	400 U	380 U	420 U	380 U	400 U	390 U	2100 U	420 U
2,4-Dichlorophenol		120-83-2	NE	2200 U	1100 U	190 U	2100 U	12000 U	930 U	200 U	230 U	2000 U	200 U	200 U	220 U	200 U	200 U	190 U	220 U	200 U	210 U	200 U	1100 U	210 U
Diethyl phthalate		84-66-2	NE	2200 U	1100 U	190 U	2100 U	12000 U	930 U	200 U	**240 J**	2000 U	200 U	200 U	220 U	200 U	200 U	190 U	220 U	200 U	210 U	200 U	1100 U	210 U
Dimethyl phthalate		131-11-3	NE	2200 U	1100 U	190 U	2100 U	12000 U	930 U	200 U	230 U	2000 U	200 U	200 U	220 U	200 U	200 U	190 U	220 U	200 U	210 U	200 U	1100 U	210 U
2,4-Dimethylphenol		105-67-9	NE	2200 U	1100 U	190 U	2100 U	**17000**	930 U	200 U	230 U	2000 U	200 U	200 U	220 U	200 U	200 U	190 U	220 U	200 U	210 U	200 U	1100 U	210 U
Di-n-butyl phthalate		84-74-2	NE	2200 U	1100 U	190 U	2100 U	12000 U	930 U	200 U	230 U	2000 U	200 U	200 U	220 U	200 U	200 U	190 U	220 U	200 U	210 U	200 U	1100 U	210 U
4,6-Dinitro-2-methylphenol		534-52-1	NE	4200 U	2000 U	370 U	4100 U	24000 U	1800 U	390 U	450 U	3900 U	380 U	390 U	420 U	380 U	400 U	380 U	420 U	380 U	400 U	390 U	2100 U	420 U
2,4-Dinitrophenol		51-28-5	NE	21000 UJ	10000 UJ	1900 UJ	20000 UJ	120000 UJ	9100 UJ	2000 UJ	2300 UJ	20000 UJ	1900 U	2000 U	2100 U	1900 U	2000 UJ	1900 UJ	2100 UJ	1900 UJ	2000 UJ	2000 UJ	11000 UJ	2100 UJ
2,4-Dinitrotoluene		121-14-2	NE	2200 U	1100 U	190 U	2100 U	12000 U	930 U	200 U	230 U	2000 U	200 U	200 U	220 U	200 U	200 U	190 U	220 U	200 U	210 U	200 U	1100 U	210 U
2,6-Dinitrotoluene		606-20-2	NE	2200 U	1100 U	190 U	2100 U	12000 U	930 U	200 U	230 U	2000 U	200 U	200 U	220 U	200 U	200 U	190 U	220 U	200 U	210 U	200 U	1100 U	210 U
Di-n-octyl phthalate		117-84-0	NE	2200 U	1100 U	190 U	2100 U	12000 U	930 U	200 U	230 U	2000 U	200 U	200 U	220 U	200 U	200 U	190 U	220 U	200 U	210 U	200 U	1100 U	210 U
Hexachlorobenzene		118-74-1	6000	2200 U	1100 U	190 U	2100 U	12000 U	930 U	200 U	230 U	2000 U	200 U	200 U	220 U	200 U	200 U	190 U	220 U	200 U	210 U	200 U	1100 U	210 U
1,3-Hexachlorobutadiene (C-46)		87-68-3	NE	2200 UJ	1100 UJ	190 UJ	2100 U	12000 UJ	930 UJ	200 U	230 U	2000 U	200 U	200 U	220 U	200 U	200 U	190 U	220 U	200 U	210 U	200 UJ	1100 U	210 U
Hexachlorocyclopentadiene		77-47-4	NE	2200 U	1100 U	190 U	2100 UJ	12000 U	930 U	200 U	230 U	2000 U	200 UJ	200 UJ	220 UJ	200 UJ	200 UJ	190 UJ	220 U	200 UJ	210 U	200 U	1100 UJ	210 UJ
Hexachloroethane		67-72-1	NE	2200 U	1100 U	190 U	2100 U	12000 U	930 U	200 U	230 U	2000 U	200 U	200 U	220 U	200 U	200 U	190 U	220 U	200 U	210 U	200 U	1100 U	210 U
Isophorone		78-59-1	NE	2200 U	1100 U	190 U	2100 U	12000 U	930 U	200 U	230 U	2000 U	200 U	200 U	220 U	200 U	200 U	190 U	220 U	200 U	210 U	200 U	1100 U	210 U
2-Methylnaphthalene		91-57-6	NE	2200 U	**27000**	**2000**	2100 U	**580000**	**4700**	200 U	230 U	**37000**	200 U	200 U	220 U	200 U	200 U	190 U	**140 J**	200 U	210 U	200 U	**2000**	210 U
2-Methylphenol (o-Cresol)		95-48-7	500000	2200 U	1100 U	190 U	2100 U	**7300 J**	930 U	200 U	230 U	2000 U	200 U	200 U	220 U	200 U	200 U	190 U	220 U	200 U	210 U	200 U	1100 U	210 U
4-Methylphenol (p-Cresol)		106-44-5	500000	4200 U	2000 U	370 U	4100 U	**19000 J**	1800 U	390 U	450 U	3900 U	380 U	390 U	420 U	380 U	400 U	380 U	420 U	380 U	400 U	390 U	2100 U	420 U
2-Nitroaniline		88-74-4	NE	4200 U	2000 U	370 U	4100 U	24000 U	1800 U	390 U	450 U	3900 U	380 U	390 U	420 U	380 U	400 U	380 U	420 U	380 U	400 U	390 U	2100 U	420 U
3-Nitroaniline		99-09-2	NE	4200 U	2000 U	370 U	4100 U	24000 U	1800 U	390 U	450 U	3900 U	380 U	390 U	420 U	380 U	400 U	380 U	420 U	380 U	400 U	390 U	2100 U	420 U
4-Nitroaniline		100-01-6	NE	4200 U	2000 U	370 U	4100 U	24000 U	1800 U	390 U	450 U	3900 U	380 U	390 U	420 U	380 U	400 U	380 U	420 U	380 U	400 U	390 U	2100 U	420 U
Nitrobenzene		98-95-3	NE	2200 U	1100 U	190 U	2100 U	12000 U	930 U	200 U	230 U	2000 U	200 U	200 U	220 U	200 U	200 U	190 U	220 U	200 U	210 U	200 U	1100 U	210 U
2-Nitrophenol		88-75-5	NE	2200 U	1100 U	190 U	2100 U	12000 U	930 U	200 U	230 U	2000 U	200 U	200 U	220 U	200 U	200 U	190 U	220 U	200 U	210 U	200 U	1100 U	210 U
4-Nitrophenol		100-02-7	NE	4200 U	2000 U	370 U	4100 U	24000 U	1800 U	390 U	450 U	3900 U	380 U	390 U	420 U	380 U	400 U	380 U	420 U	380 U	400 U	390 U	2100 U	420 U
N-Nitrosodiphenylamine (NDFA)		86-30-6	NE	2200 U	1100 U	190 U	2100 U	12000 U	930 U	200 U	230 U	2000 U	200 U	200 U	220 U	200 U	200 U	190 U	220 U	200 U	210 U	200 U	1100 U	210 U
N-Nitrosodi-n-propylamine (NDPA)		621-64-7	NE	2200 U	1100 U	190 U	2100 U	12000 U	930 U	200 U	230 U	2000 U	200 U	200 U	220 U	200 U	200 U	190 U	220 U	200 U	210 U	200 U	1100 U	210 U
Pentachlorophenol		87-86-5	6700	4200 U	2000 U	370 U	4100 U	24000 U	1800 U	390 U	450 U	3900 U	380 U	390 U	420 U	380 U	400 U	380 U	420 U	380 U	400 U	390 U	2100 U	420 U
Phenol		108-95-2	500000	2200 U	1100 U	190 U	2100 U	12000 U	930 U	200 U	230 U	2000 U	200 U	200 U	220 U	200 U	200 U	190 U	220 U	200 U	210 U	200 U	1100 U	210 U
2,4,5-Trichlorophenol		95-95-4	NE	2200 U	1100 U	190 U	2100 U	12000 U	930 U	200 U	230 U	2000 U	200 U	200 U	220 U	200 U	200 U	190 U	220 U	200 U	210 U	200 U	1100 U	210 U
2,4,6-Trichlorophenol		88-06-2	NE	2200 U	1100 U	190 U	2100 U	12000 U	930 U	200 U	230 U	2000 U	200 U	200 U	220 U	200 U	200 U	190 U	220 U	200 U	210 U	200 U	1100 U	210 U
Total SVOCs (ND=0)		TSVOC_ND0	NE	**19260**	**332300**	**35588**	**9010**	**9515300**	**122970**	ND	**3534**	**323460**	ND	**35**	**541**	ND	**287**	**453**	**14570**	**327**	ND	ND	**25310**	**337**

Table 1. Soil Analyitcal Results
National Grid Canastota Former MGP Site
Canastota, New York

Analyte	Units	CAS No.	Commercial SCO	Sample Name	SB121 (11-11.3)	SB122 (5.3-5.6)	SB123 (6.5-7.5)	SB124 (6.5-7.0)	SB126 (4-5)	SB127 (6-6.5)	SB127 (9-9.5)	SB128 (5.5-6)	SB128 (7-7.5)	SB129 (5-6)	TP101 (3)	TP102 (5)	TP103 (7)	TP104 (5.5)	TP105 (4.5)	TP107 (5)
				Start Depth	11	5.3	6.5	6.5	4	6	9	5.5	7	5	3	5	7	5.5	4.5	5
				End Depth	11.3	5.6	7.5	7	5	6.5	9.5	6	7.5	6	3	5	7	5.5	4.5	5
				Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
				Sample Date	12/9/2022	12/9/2022	12/8/2022	12/7/2022	12/9/2022	12/9/2022	12/9/2022	12/9/2022	12/9/2022	12/9/2022	9/7/2022	9/7/2022	9/6/2022	9/7/2022	9/6/2022	9/6/2022
				Parent Sample																
PAH17	ug/kg																			
Acenaphthene		83-32-9	500000		190 U	**490**	190 U	**210 J**	210 U	**39000**	**3100**	**160 J**	**1700**	**5600 J**	2000 U	2200 U	**290 J**	**12000**	1000 U	1100 U
Acenaphthylene		208-96-8	500000		190 U	**47 J**	190 U	**69 J**	210 U	**6400**	**1300**	**140 J**	**100 J**	**4200 J**	**2700**	**870 J**	**210 J**	**4900**	**540 J**	**160 J**
Anthracene		120-12-7	500000		190 U	210 U	190 U	240 U	210 U	**26000**	**2500**	**230**	210 U	**1000 J**	**2100**	**900 J**	**290 J**	**8000**	**1000**	**270 J**
Benzo(a)anthracene		56-55-3	5600		190 U	210 U	190 U	**94 J**	210 U	**19000**	**1600**	**390**	210 U	**1300 J**	**7900**	**4600**	**890 J**	**7700**	**3000**	**980 J**
Benzo(b)fluoranthene		205-99-2	5600		190 U	210 U	190 U	**160 J**	210 U	**14000**	**1300**	**410**	210 U	**7200 J**	**13000**	**6100**	**1100**	**7700**	**3300**	**1500**
Benzo(k)fluoranthene		207-08-9	56000		190 U	210 U	190 U	**55 J**	210 U	**6200**	**470 J**	**150 J**	210 U	**2600 J**	**6500**	**2300**	**490 J**	**2900 J**	**1500**	**570 J**
Benzo(g,h,i)perylene		191-24-2	500000		190 U	210 U	190 U	**140 J**	210 U	**9300**	**790 J**	**290**	210 U	**7100 J**	**7900**	**2200**	**540 J**	**2700 J**	**1300**	**590 J**
Benzo(a)pyrene		50-32-8	1000		190 U	210 U	190 U	**160 J**	210 U	**20000**	**1700**	**540**	210 U	**11000 J**	**9300**	**5000**	**1100**	**7700**	**2800**	**1200**
Chrysene		218-01-9	56000		190 U	210 U	190 U	**130 J**	210 U	**18000**	**1500**	**360**	210 U	**2200 J**	**9700**	**4600**	**910 J**	**6600**	**3000**	**1100**
Dibenz(a,h)anthracene		53-70-3	560.0		190 U	210 U	190 U	240 U	210 U	**2300**	**210 J**	**68 J**	210 U	**1300 J**	**2200**	**610 J**	**190 J**	**860 J**	**370 J**	**190 J**
Fluoranthene		206-44-0	500000		190 U	210 U	190 U	**160 J**	210 U	**47000**	**3600**	**640**	210 U	**2000 J**	**11000**	**8700**	**1800**	**21000**	**5800**	**1600**
Fluorene		86-73-7	500000		190 U	210 U	190 U	**91 J**	210 U	**15000**	**2200**	**76 J**	210 U	**1800 J**	**570 J**	2200 U	**190 J**	**9200**	**170 J**	1100 U
Indeno(1,2,3-cd)pyrene		193-39-5	5600		190 U	210 U	190 U	**110 J**	210 U	**7400**	**610 J**	**210 J**	210 U	**5300 J**	**7300**	**2300**	**530 J**	**2700 J**	**1400**	**590 J**
2-Methylnaphthalene		91-57-6	NE		190 U	210 U	190 U	240 U	210 U	**42000**	**340 J**	230 U	**71 J**	**4800 J**	**910 J**	2200 U	**220 J**	**11000**	1000 U	1100 U
Naphthalene		91-20-3	500000		**41 J**	**93 J**	190 U	**680**	210 U	**77000**	**2900**	230 U	**2000**	**5800 J**	**1900 J**	2200 U	**850 J**	**30000**	1000 U	**150 J**
Phenanthrene		85-01-8	500000		**28 J**	210 U	190 U	**120 J**	210 U	**88000**	**8900**	**1200**	**40 J**	**2100 J**	**5700**	**2900**	**1100**	**38000**	**2800**	**990 J**
Pyrene		129-00-0	500000		190 U	210 U	190 U	**230 J**	210 U	**61000**	**4400**	**950**	210 U	**6100 J**	**12000**	**7400**	**1600**	**18000**	**4600**	**1400**
Total PAH (17) (ND=0)		TPAH17_ND0	NE		**69**	**630**	ND	**2409**	ND	**497600**	**37420**	**5814**	**3911**	**71400**	**100680**	**48480**	**12300**	**190960**	**31580**	**11290**
PAH17 Other SVOCs	ug/kg																			
Acetophenone		98-86-2	NE		190 U	210 U	190 U	240 U	210 U	1100 U	1000 U	230 U	210 U	1100 U	2000 U	2200 U	1100 U	4200 U	1000 U	1100 U
Atrazine		1912-24-9	NE		190 U	210 U	190 U	240 U	210 U	1100 U	1000 U	230 U	210 U	1100 U	2000 U	2200 U	1100 U	4200 U	1000 U	1100 U
Benzaldehyde		100-52-7	NE		190 U	210 U	190 U	240 U	210 U	1100 U	1000 U	230 U	210 U	1100 U	2000 U	2200 U	1100 U	4200 U	1000 U	1100 U
Biphenyl (1,1-Biphenyl)		92-52-4	NE		190 U	210 U	190 U	240 U	210 U	**5200**	**890 J**	**59 J**	210 U	**690 J**	2000 U	2200 U	1100 U	**2500 J**	1000 U	1100 U
Bis(2-chloroethoxy)methane		111-91-1	NE		190 U	210 U	190 U	240 U	210 U	1100 U	1000 U	230 U	210 U	1100 U	2000 U	2200 U	1100 U	4200 U	1000 U	1100 U
Bis(2-chloroethyl)ether		111-44-4	NE		190 U	210 U	190 U	240 U	210 U	1100 U	1000 U	230 U	210 U	1100 U	2000 U	2200 U	1100 U	4200 U	1000 U	1100 U
2,2-oxybis(1-Chloropropane)		108-60-1	NE		190 U	210 U	190 U	240 U	210 U	1100 U	1000 U	230 U	210 U	1100 U	2000 U	2200 U	1100 U	4200 U	1000 U	1100 U
Bis(2-ethylhexyl)phthalate		117-81-7	NE		**200**	210 U	190 U	240 U	210 U	1100 U	1000 U	230 U	210 U	1100 U	2000 U	2200 U	1100 U	4200 U	1000 U	1100 U
4-Bromophenyl phenyl ether		101-55-3	NE		190 U	210 U	190 U	240 U	210 U	1100 U	1000 U	230 U	210 U	1100 U	2000 U	2200 U	1100 U	4200 U	1000 U	1100 U
Butyl benzyl phthalate		85-68-7	NE		190 U	210 U	190 U	240 U	210 U	1100 U	1000 U	230 U	210 U	1100 U	2000 U	2200 U	1100 U	4200 U	1000 U	1100 U
Caprolactam		105-60-2	NE		190 U	210 U	190 U	**76 J**	210 U	1100 U	1000 U	230 U	210 U	1100 U	2000 U	2200 U	1100 U	4200 U	1000 U	1100 U
Carbazole		86-74-8	NE		190 U	**50 J**	190 U	**180 J**	210 U	**460 J**	1000 U	230 U	**450**	1100 U	**660 J**	2200 U	1100 U	**1400 J**	**150 J**	1100 U
4-Chloro-3-methylphenol		59-50-7	NE		190 U	210 U	190 U	240 U	210 U	1100 U	1000 U	230 U	210 U	1100 U	2000 U	2200 U	1100 U	4200 U	1000 U	1100 U
4-Chloroaniline		106-47-8	NE		190 U	210 U	190 U	240 U	210 U	1100 U	1000 U	230 U	210 U	1100 U	2000 U	2200 U	1100 U	4200 U	1000 U	1100 U
2-Chloronaphthalene		91-58-7	NE		190 U	210 U	190 U	240 U	210 U	1100 U	1000 U	230 U	210 U	1100 U	2000 U	2200 U	1100 U	4200 U	1000 U	1100 U
2-Chlorophenol		95-57-8	NE		370 U	400 U	370 U	460 U	410 U	2100 U	1900 U	440 U	410 U	2200 U	3900 U	4300 U	2100 U	8200 U	2000 U	2100 U
4-Chlorophenyl phenyl ether		7005-72-3	NE		190 U	210 U	190 U	240 U	210 U	1100 U	1000 U	230 U	210 U	1100 U	2000 U	2200 U	1100 U	4200 U	1000 U	1100 U
Dibenzofuran		132-64-9	350000		190 U	210 U	190 U	**85 J**	210 U	**1800**	**310 J**	**28 J**	210 U	**250 J**	**750 J**	2200 U	1100 U	**4600**	1000 U	1100 U
3,3-Dichlorobenzidine		91-94-1	NE		370 U	400 U	370 U	460 U	410 U	2100 U	1900 U	440 U	410 U	2200 U	3900 U	4300 U	2100 U	8200 U	2000 U	2100 U
2,4-Dichlorophenol		120-83-2	NE		190 U	210 U	190 U	240 U	210 U	1100 U	1000 U	230 U	210 U	1100 U	2000 U	2200 U	1100 U	4200 U	1000 U	1100 U
Diethyl phthalate		84-66-2	NE		190 U	210 U	190 U	240 U	210 U	1100 U	1000 U	230 U	210 U	1100 U	2000 U	2200 U	1100 U	4200 U	1000 U	1100 U
Dimethyl phthalate		131-11-3	NE		190 U	210 U	190 U	240 U	210 U	1100 U	1000 U	230 U	210 U	1100 U	2000 U	2200 U	1100 U	4200 U	1000 U	1100 U
2,4-Dimethylphenol		105-67-9	NE		190 U	210 U	190 U	240 U	210 U	1100 U	1000 U	230 U	210 U	1100 U	2000 U	2200 U	1100 U	4200 U	1000 U	1100 U
Di-n-butyl phthalate		84-74-2	NE		190 U	210 U	190 U	240 U	210 U	1100 U	1000 U	230 U	210 U	1100 U	2000 U	2200 U	1100 U	4200 U	1000 U	1100 U
4,6-Dinitro-2-methylphenol		534-52-1	NE		370 U	400 U	370 U	460 U	410 U	2100 U	1900 U	440 U	410 U	2200 U	3900 U	4300 U	2100 U	8200 U	2000 U	2100 U
2,4-Dinitrophenol		51-28-5	NE		1900 UJ	2000 UJ	1900 UJ	2300 UJ	2100 UJ	11000 UJ	9800 UJ	2200 UJ	2100 UJ	11000 UJ	20000 UJ	22000 UJ	10000 UJ	41000 UJ	10000 UJ	10000 UJ
2,4-Dinitrotoluene		121-14-2	NE		190 U	210 U	190 U	240 U	210 U	1100 U	1000 U	230 U	210 U	1100 U	2000 U	2200 U	1100 U	4200 U	1000 U	1100 U
2,6-Dinitrotoluene		606-20-2	NE		190 U	210 U	190 U	240 U	210 U	1100 U	1000 U	230 U	210 U	1100 U	2000 U	2200 U	1100 U	4200 U	1000 U	1100 U
Di-n-octyl phthalate		117-84-0	NE		190 U	210 U	190 U	240 U	210 U	1100 U	1000 U	230 U	210 U	1100 U	2000 U	2200 U	1100 U	4200 U	1000 U	1100 U
Hexachlorobenzene		118-74-1	6000		190 U	210 U	190 U	240 U	210 U	1100 U	1000 U	230 U	210 U	1100 U	2000 U	2200 U	1100 U	4200 U	1000 U	1100 U
1,3-Hexachlorobutadiene (C-46)		87-68-3	NE		190 U	210 U	190 U	240 U	210 U	1100 U	1000 U	230 U	210 U	1100 U	2000 U	2200 U	1100 U	4200 U	1000 U	1100 U
Hexachlorocyclopentadiene		77-47-4	NE		190 U	210 U	190 U	240 U	210 U	1100 U	1000 U	230 U	210 U	1100 U	2000 U	2200 U	1100 U	4200 U	1000 U	1100 U
Hexachloroethane		67-72-1	NE		190 U	210 U	190 U	240 U	210 U	1100 U	1000 U	230 U	210 U	1100 U	2000 U	2200 U	1100 U	4200 U	1000 U	1100 U
Isophorone		78-59-1	NE		190 U	210 U	190 U	240 U	210 U	1100 U	1000 U	230 U	210 U	1100 U	2000 U	2200 U	1100 U	4200 U	1000 U	1100 U
2-Methylnaphthalene		91-57-6	NE		190 U	210 U	190 U	240 U	210 U	**42000**	**340 J**	230 U	**71 J**	**4800 J**	**910 J**	2200 U	**220 J**	**11000**	1000 U	1100 U
2-Methylphenol (o-Cresol)		95-48-7	500000		190 U	210 U	190 U	240 U	210 U	1100 U	1000 U	230 U	210 U	1100 U	2000 U	2200 U	1100 U	4200 U	1000 U	1100 U
4-Methylphenol (p-Cresol)		106-44-5	500000		370 U	400 U	370 U	460 U	410 U	2100 U	1900 U	440 U	410 U	2200 U	3900 U	4300 U	2100 U	8200 U	2000 U	2100 U
2-Nitroaniline		88-74-4	NE		370 U	400 U	370 U	460 U	410 U	2100 U	1900 U	440 U	410 U	2200 U	3900 U	4300 U	2100 U	8200 U	2000 U	2100 U
3-Nitroaniline		99-09-2	NE		370 U	400 U	370 U	460 U	410 U	2100 U	1900 U	440 U	410 U	2200 U	3900 U	4300 U	2100 U	8200 U	2000 U	2100 U
4-Nitroaniline		100-01-6	NE		370 U	400 U	370 U	460 U	410 U	2100 U	1900 U	440 U	410 U	2200 U	3900 U	4300 U	2100 U	8200 U	2000 U	2100 U
Nitrobenzene		98-95-3	NE		190 U	210 U	190 U	240 U	210 U	1100 U	1000 U	230 U	210 U	1100 U	2000 U	2200 U	1100 U	4200 U	1000 U	1100 U
2-Nitrophenol		88-75-5	NE		190 U	210 U	190 U	240 U	210 U	1100 U	1000 U	230 U	210 U	1100 U	2000 U	2200 U	1100 U	4200 U	1000 U	1100 U
4-Nitrophenol		100-02-7	NE		370 U	400 U	370 U	460 U	410 U	2100 U	1900 U	440 U	410 U	2200 U	3900 U	4300 U	2100 U	8200 U	2000 U	2100 U
N-Nitrosodiphenylamine (NDFA)		86-30-6	NE		190 U	210 U	190 U	240 U	210 U	**1100**	1000 U	230 U	210 U	1100 U	2000 U	2200 U	1100 U	4200 U	1000 U	1100 U
N-Nitrosodi-n-propylamine (NDPA)		621-64-7	NE		190 U	210 U	190 U	240 U	210 U	1100 U	1000 U	230 U	210 U	1100 U	2000 U	2200 U	1100 U	4200 U	1000 U	1100 U
Pentachlorophenol		87-86-5	6700		370 U	400 U	370 U	460 U	410 U	2100 U	1900 U	440 U	410 U	2200 U	3900 U	4300 U	2100 U	8200 U	2000 U	2100 U
Phenol		108-95-2	500000		190 U	210 U	190 U	240 U	210 U	1100 U	1000 U	230 U	210 U	1100 U	2000 U	2200 U	1100 U	4200 U	1000 U	1100 U
2,4,5-Trichlorophenol		95-95-4	NE		190 U	210 U	190 U	240 U	210 U	1100 U	1000 U	230 U	210 U	1100 U	2000 U	2200 U	1100 U	4200 U	1000 U	1100 U
2,4,6-Trichlorophenol		88-06-2	NE		190 U	210 U	190 U	240 U	210 U	1100 U	1000 U	230 U	210 U	1100 U	2000 U	2200 U	1100 U	4200 U	1000 U	1100 U
Total SVOCs (ND=0)		TSVOC_ND0	NE		**269**	**680**	ND	**2750**	ND	**506160**	**38620**	**5901**	**4361**	**72340**	**102090**	**48480**	**12300**	**199460**	**31730**	**11290**

Table 1. Soil Analytical Results
National Grid Canastota Former MGP Site
Canastota, New York

Notes:
Analytes in blue are not detected in any sample
ug/kg = micrograms per kilogram

PAH = Polycyclic Aromatic Hydrocarbon
SVOC = Semi-Volatile Organic Compound

Total PAHs and Total SVOCs are calculated using detects only.
Total PAH17 is calculated using the list of analytes: Acenaphthene, Acenaphthylene, Anthracene, Benz[a]anthracene, Benzo[a]pyrene, Benzo[b]fluoranthene, Benzo[g,h,i]perylene, Benzo[k]fluoranthene, Chrysene, Dibenz[a,h]anthracene, Fluoranthene, Fluorene, Indeno[1,2,3-cd]pyrene, Naphthalene, 2-Methylnaphthalene, Phenanthrene, and Pyrene

6 NYCRR = New York State Register and Official Compilation of Codes, Rules and Regulations of the State of New York
Comparison of detected results are performed against one or more of the following NYCRR, Chapter IV, Part 375-6 Soil Cleanup Objectives (SCO)s: Unrestricted Use, Residential, Restricted-Residential, Commercial, Industrial, Protection of Ecological Resources, or Protection of Groundwater

CAS No. = Chemical Abstracts Service Number
MGP = Manufactured Gas Plant
ND = Not Detected
NE = Not Established

Bolding indicates a detected result concentration
Shading and bolding indicates that the detected concentration is above the NYSDOH guidance it was compared to

Validation Qualifiers:
J = The result is an estimated value.
U = The result was not detected above the reporting limit.
UJ = The results was not detected at or above the reporting limit shown and the reporting limit is estimated.

Table 2. Observations of Impacts in Soil Borings
National Grid Canastota Former MGP Site
Canastota, New York

Boring ID	Date Installed	Bottom of Boring (ft, bgs)	Depth	NAPL
Remedial Investigation				
SB-01	12/2/2003	12	No impacts observed.	
SB-02	12/2/2003	5.6	no NAPL observed	
SB-03	12/2/2003	10	6.42-7.03	trace blob
			9-10	vein of tar-coated grains in middle
SB-03A	12/2/2003	16	8-10	vein of tar-coated grains
			10-10.7	trace tar-coated grains
			10.7-11.5	tar in vertical veins
SB-04	12/2/2003	12.4	8-12	trace grain coatings <1/8"
			12-12.4	tar-like
SB-05	12/1/2003	10.8	4-8	blebs, heavily coated tar, viscous black
			8-10.8	black viscous tar
SB-06	12/1/2003	16	No impacts observed.	
SB-07	12/1/2003	26.5	6.4-8	tar coated
			8-8.9	tar coated
			8.9-11	blobs of tar
SB-08	12/3/2003	20	5.1-7.4	stringers of tar-coated grains with viscous black tar
			7.4-9.29	trace to moderately coated grains
			9.29-10	tar blobs
			10-11.14	tar coated, saturated with liquid tar in pore spaces
SB-09/MW-01	12/2/2003	12	No impacts observed.	
SB-10/MW-02	12/2/2003	12	No impacts observed.	
SB-11	12/3/2003	20	6.26-8	moderately tar-coated grains with blebs
			8-9.3	vertical veins of tar-coated grains
			9.3-9.6	tar saturated
SB-12/MW-03	12/1/2003	30	No impacts observed.	
MW-04	7/13/2005	10	No impacts observed.	
MW-04A	1/5/2012	26	No impacts observed.	
MW-05	7/13/2005	10.8	No impacts observed.	
MW-13	1/4/2012	12	No impacts observed.	
SB-13	7/12/2005	15.5	No impacts observed.	
SB-14/MW-06	7/13/2005	13.3	7-11.7	tar-coated grains
SB-15	7/11/2005	17	No impacts observed.	
SB-16	7/11/2005	15	No impacts observed.	
SB-17	7/11/2005	10	No impacts observed.	
SB-18	7/11/2005	7.3	no NAPL observed	
SB-18A	7/11/2005	7.3	no NAPL observed	
SB-19	7/13/2005	18.6	5-5.6	tar-coated grains
SB-20	7/12/2005	16.8	5-5.9	tar coated
SB-20A	7/13/2005	20	2.7-3	tar saturated
			8.5	tar blebs
SB-21	7/12/2005	17	6.1-7.3	gravel vein tar coated
SB-22	7/13/2005	11.2	5-7.1	some tar-coated grains
			7.1-10	blebs or tar at 9'
SB-23	7/12/2005	17	no NAPL observed	
SB-24	12/17/2010	14	no NAPL observed	
SB-25/MW-07	12/20/2010	18	no NAPL observed	
SB-26	12/9/2010	26	No impacts observed.	
SB-27	12/13/2010	7	no NAPL observed	
SB-28	12/21/2010	10	No impacts observed.	
SB-29/MW-08	12/16/2010	16	No impacts observed.	
SB-30	12/15/2010	11	No impacts observed.	
SB-31	12/15/2010	13	No impacts observed.	
SB-32	12/14/2010	19	7-7.5	coated with black slightly viscous NAPL
			7.5-9.8	lenses of black slightly viscous NAPL
			9.8-12	saturated with reddish-brown oily NAPL
			13-17	trace blebs of reddish-brown oily NAPL
SB-34/MW-12D	12/22/2010	32	No impacts observed.	

Table 2. Observations of Impacts in Soil Borings
National Grid Canastota Former MGP Site
Canastota, New York

Boring ID	Date Installed	Bottom of Boring (ft, bgs)	Depth	NAPL
SB-35	12/21/2010	10	No impacts observed.	
SB-37/MW-11D	12/17/2010	24	No impacts observed.	
SB-38	12/27/2010	14	no NAPL observed	
SB-39/MW-09	12/14/2010	12	no NAPL observed	
SB-40	12/21/2010	10	No impacts observed.	
SB-41	12/14/2010	18	No impacts observed.	
SB-42	12/15/2010	17	5.2-5.4	black slightly viscous NAPL-saturated wood
SB-43	12/10/-12/13/2010	24	7-10	black oily NAPL coated grains
			10-13.6	Reddish-brown oily NAPL coated to saturated
			20-22.9	little NAPL coating outside of sample
SB-44	12/8/2010	26	No impacts observed.	
SB-45	12/9/2010	26	No impacts observed.	
SB-46	12/10/2010	24	no NAPL observed	
SB-47	12/21/2010	26	No impacts observed.	
SB-48	12/16/2010	11.5	7-11.5	little black sticky NAPL coating
SB-49	12/27/2010	14	no NAPL observed	
SB-50	12/28/2010	20	8-10	trace NAPL blebs
			10-13	thin lenses of NAPL
			14-16	trace small NAPL blebs
SB-51	12/28/2010	18	no NAPL observed	sheen
SB-52	12/29/2010	19.5	12-13	trace NAPL blebs
SB-53	1/3/2012	24	No impacts observed	
SB-54	1/4/2012	11.5	8-11.5	black oily NAPL saturated
SB-55	1/4/2012	12.5	5-8	black oily NAPL coating
			8-12.5	black NAPL coating
SB-56	1/4/2012	11	8-11	coated with reddish-brown oily NAPL
SB-57	1/4/2012	16	No impacts observed.	
SB-58	1/5/2012	16	10-12	trace black NAPL blebs
MW-14	9/9/2014	12	No impacts observed.	
Pre-Design Investigation				
SB-101	9/16/2022	21.8	No impacts observed.	
SB-102	9/19/2022	45.4	7.2-7.5	NAPL in sand interval
			7.5-10	odor
			10-14	NAPL seams and blebs
SB-103	9/16/2022	24	4-8	light odor
			8.7-12	heavy sheen in soil and water
			12-13.6	heavy sheen and occational NAPL blebs
			13.6-16	light odor
SB-104	9/21/2022	30.8	No impacts observed	DEC rep believed there to be light odor and sheen at 6-8 ft. Not seen by GEI staff.
SB-105	9/15/2022	24.4	7-9	sheen and blebs on spoon (no recovery)
			9-13.7	NAPL blebs
			13.7-14.5	occational NAPL blebs and seams
			17.7-17.8	NAPL in sand interval
SB-106	9/27/2022	45.4	No impacts observed	
SB-107	9/26/2022	25.2	4-8, 8.8-9.3	light odor
SB-108	9/27/2022	14.3	No impacts observed	
SB-109	10/3/2022	20.5	7.8-8	NAPL streaks and bands
			10-11.1	NAPL streaks
			12-13.7	NAPL bands
			13.7-14	NAPL blebs
SB-110	10/3/2022	20	4-6	slight odor
			6-8	moderate odor
			8-10	sheen, slight to moderate odor
			10-12	Intermittent NAPL zones
			14-16	moderate odor, staining

Table 2. Observations of Impacts in Soil Borings
National Grid Canastota Former MGP Site
Canastota, New York

Boring ID	Date Installed	Bottom of Boring (ft, bgs)	Depth	NAPL
SB-111	9/30/2022	24	4-6.4	slight odor
			6.4-6.5	"taffy-like" tar
			7-7.2	occational NAPL blebs
			8-8.8	NAPL in small veins in sand interval
			10-10.8, 12-12.4	trace NAPL on gravel grain boundaries in till
SB-112	12/6/2022	40.7	6.2-6.7	tar coating, strong odor
			8.2-8.8	NAPL streaks and blebs
			10-12	Shelby tube (not opened) - assumed as above
			12-14	moderate odor, trace sheen
			14-16	slight odor
SB-113	9/29/2022	47	6-8	strong odor, sheen
			8.3-8.4	strong odor, sheen
			10-12	trace NAPL or sheen in thin bands
			13.2-14	NAPL in thin bands
			14-17.3	moderate odor, spotty sheen
SB-114	9/27/2022	21	No impacts observed	
SB-115	9/15/2022	20	No impacts observed	
SB-117	9/19/2022	20	6-8	moderate odor
			8-8.8, 10-12	trace NAPL blebs, moderate odor
SB-118	9/26/2022	20	no NAPL observed	light odor from 6.4-6.9 ft
SB-121	12/9/2022	16	4-5.3	spotty sheen
			5.3-6.7	NAPL and sheen bleeding from soil
			8-10.4	occational spots of sheen, light odor
SB-122	12/9/2022	20	No NAPL observed	trace odor during hand clearing at 4.7 ft
SB-123	12/8/2022	18	No impacts observed	
SB-124	12/7/2022	25.8	No impacts observed	
SB-126	12/9/2022	16	No impacts observed	
SB-127	12/9/2022	16	5.5-6	sheen and odor
			6-6.5	NAPL
			8.3-9	NAPL streaks
SB-128	12/9/2022	16	5.5-7.3	light odor or occational sheen
SB-129	12/9/2022	16	4.4-5.7	light odor
MW-101	12/13/2022	16	No impacts observed	
MW-102	12/12/2022	16	No impacts observed	

Notes:
ft, bgs = feet below ground surface.
Only PDI borings completed are entered.

TAR SATURATED
COATED MATERIAL, LENSES
BLEBS, GLOBS, SHEEN
STAINING, ODOR
PETROLEUM IMPACTS - SHEEN, STAINING, ODOR
NO OBSERVED IMPACTS

Table 3. Monitoring Well Gauging and Assessment Summary
National Grid Canastota Former MGP Site
Canastota, New York

Well Construction									Gauging				Assessment & Repairs			
Location	Well Type	Well Diameter (in)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	Northing	Easting	Ground Elevation (ft)	Top of Inner Well Casing Elevation	Gauging Date	Depth to Bottom (ft bic)	Depth to Water (ft bic)	Groundwater Elevation (ft)	Assessment Date	Condition/Notes	Repair Date	Repairs/Notes
MW-01	Flushmount	2	4	9	1123232.57	1044597.94	426.81	426.48	1/18/2023	8.26	4.35	422.13	1/18/2023	Good condition, 3 bolts present, surface completion intact.	NA	None
MW-02	Flushmount	2	4	9	1123243.61	1044766.11	426.89	426.56	4/27/2023	8.44	6.98	419.58*	3/24/2023	Unable to locate on 1/18/2023. Found with metal detector during survey located in a low area where runoff and debris pools. 3 bolts present, 2 bolts not threaded.	4/6/2023	Cleared debris from on top of well, cleaned bolt holes, and replaced bolts.
MW-03	Stick-up	2	4	14	1123680.87	1044573.53	425.03	427.55	1/18/2023	16.25	4.79	422.76	1/18/2023	Cover cracked and lock rusted.	4/6/2023	Replaced cover and lock.
MW-04	Flushmount	2	3	8	1123575.47	1044747.56	425.62	425.38	1/18/2023	7.70	2.58	422.80	1/18/2023	Missing 1 bolt and remaining 2 bolts unable to thread properly.	4/6/2023	Replaced 3 bolts, rethreaded bolt holes for larger bolts.
MW-04A	Flushmount	2	5	10	1123561.51	1044736.58	426.08	425.80	4/27/2023	10.00	2.58	423.22*	3/24/2023	Well partially covered with asphalt and unable to open on 1/18/2023. Uncovered during survey. Roadbox fully detached and filled with sediment and debris.	4/6/2023	Replaced roadbox and concrete surface completion.
MW-05	Flushmount	2	3	8	1123424.35	1044810.49	425.95	425.66	1/18/2023	8.09	2.81	422.85	1/18/2023	Plug missing. Roadbox fully submerged in standing water. 1 bolt hole broken off, 2 bolts present, 1 bolt not threaded.	12/14/2022 & 4/6/2023	Added a plug on 12/14/2022. Replaced 2 bolts to have 3 total on 4/6/2023.
MW-06	Flushmount	2	3	13	1123526.9	1044536.18	425.14	424.78	1/18/2023	13.04	1.94	422.84	1/18/2023	Good condition, 3 bolts present, surface completion intact.	NA	None
MW-07	Stick-up	2	3	13	1123581.96	1044429.53	420.87	422.34	1/18/2023	14.67	1.37	420.97	1/18/2023	No lock present.	4/6/2023	Replaced lock.
MW-08	Flushmount	2	3	13	1123314.25	1044783.1	426.56	426.12	4/27/2023	12.49	2.52	423.6*	3/24/2023	Unable to locate on 1/18/2023. Found with metal detector during survey. Good condition.	NA	None
MW-09	Flushmount	2	3	10	1123358.95	1044511	425.54	425.34	1/18/2023	9.40	2.17	423.17	1/18/2023	Good condition, 3 bolts present, surface completion intact.	NA	None
MW-10	Flushmount	2	3	13	1123440.52	1044681.32	426.92	426.79	1/18/2023	14.61	3.63	423.16	1/18/2023	Some minor chips and cracks in surface completion but holds roadbox in place. ~1.5' DNAPL in well.	NA	Cap modified so that cover fits over top.
MW-11D	Stick-up	2	13	23	1123655.52	1044486.61	422.21	424.73	1/18/2023	22.49	2.82	421.91	1/18/2023	Good condition.	NA	None
MW-12D	Stick-up	2	19	29	1123690.28	1044631.31	424.75	427.34	1/18/2023	31.95	2.66	424.68	1/18/2023	Lock cut because it was rusted shut.	3/24/2023	Replaced lock.
MW-13	Flushmount	2	5	10	1123247.51	1044681.6	427.26	427.12	1/18/2023	9.89	5.65	421.47	1/18/2023	Roadbox fully detached and full of sediment and debris. Cracks in surrounding concrete. Well submerged in standing water.	4/6/2023	Replaced roadbox and concrete surface completion.
MW-101	Stick-up	2	1.5	11.5	1123531.01	1044423.5	421.42	423.39	1/18/2023	13.56	2.45	420.94	1/18/2023	Silt present in bottom of well (~0.8').	NA	None
MW-102	Stick-up	2	2	12	1123663.2	1044427.8	420.95	423.03	1/18/2023	13.89	2.39	420.64	1/18/2023	Silt present in bottom of well (~0.7').	NA	None

Notes:
Survey performed 3/24/23; Vertical Datum NGVD29; Horizontal Datum NAD83
NA = Not Applicable
NM = Not Measured
in - inch
ft bgs - feet below ground surface
ft - feet
ft bic - feet below inner casing
* - denotes groundwater elevation measured during a separate mobilization

Table 4. Groundwater Analytical Results
National Grid Canastota Former MGP Site
Canastota, New York

Analyte	Units	CAS No.	Sample Name / Sample Date / Parent Sample / NYS AWQS	MW-01 1/19/2023	MW-02 4/27/2023	MW-03 1/19/2023	MW-04 1/20/2023	DUP 1/20/2023 MW-04	MW-04A 4/27/2023	MW-05 1/20/2023	MW-06 1/20/2023	MW-07 1/19/2023	MW-08 4/27/2023	MW-09 1/19/2023	MW-10 1/20/2023	MW-101 1/19/2023	MW-102 1/19/2023	MW-11D 1/19/2023	MW-12D 1/19/2023	MW-13 1/18/2023
BTEX	ug/L																			
Benzene		71-43-2	1	1 UJ	5 UJ	1 U	10 U	10 U	**6.8 J**	2 U	1 U	**3800 J**	1 UJ	1 UJ	**1900**	5 UJ	1 U	1 UJ	2 U	5 UJ
Toluene		108-88-3	5	1 UJ	5 UJ	1 U	10 U	10 U	10 UJ	2 U	1 U	100 UJ	1 UJ	1 UJ	**310**	5 UJ	1 U	1 UJ	2 U	5 UJ
Ethylbenzene		100-41-4	5	1 UJ	5 UJ	1 U	10 U	10 U	10 UJ	2 U	1 U	**710 J**	1 UJ	1 UJ	**260**	5 UJ	1 U	1 UJ	2 U	5 UJ
Total Xylene		1330-20-7	5	2 UJ	10 UJ	2 U	20 U	20 U	20 UJ	4 U	2 U	**370 J**	2 UJ	2 UJ	**420**	10 UJ	2 U	2 UJ	4 U	10 UJ
Total BTEX (ND=0)		TBTEX_ND0	NE	ND	ND	ND	ND	ND	**6.8**	ND	ND	**4880**	ND	ND	**2890**	ND	ND	ND	ND	ND
PAH17	ug/L																			
Acenaphthene		83-32-9	20*	5 UJ	5 UJ	5 U	**3.9 J**	**4.2 J**	5 UJ	5 U	5 U	500 UJ	5 UJ	100 UJ	**100**	5 UJ	5 U	5 UJ	5 U	5 UJ
Acenaphthylene		208-96-8	NE	5 UJ	5 UJ	5 U	5 U	5 U	5 UJ	5 U	5 U	500 UJ	5 UJ	100 UJ	**28 J**	5 UJ	5 U	5 UJ	5 U	5 UJ
Anthracene		120-12-7	50*	5 UJ	5 UJ	5 U	5 U	5 U	5 UJ	5 U	5 U	500 UJ	5 UJ	100 UJ	**6.7 J**	5 UJ	5 U	5 UJ	5 U	5 UJ
Fluoranthene		206-44-0	50*	5 UJ	5 UJ	5 U	5 U	5 U	5 UJ	5 U	5 U	500 UJ	5 UJ	**14 J**	**5.1 J**	5 UJ	5 U	5 UJ	5 U	5 UJ
Fluorene		86-73-7	50*	5 UJ	5 UJ	5 U	**1.8 J**	**1.7 J**	5 UJ	5 U	5 U	500 UJ	5 UJ	100 UJ	**40 J**	5 UJ	5 U	5 UJ	5 U	5 UJ
Indeno(1,2,3-cd)pyrene		193-39-5	0.002*	5 UJ	5 UJ	5 U	5 U	5 U	5 UJ	5 U	5 U	500 UJ	5 UJ	**9.6 J**	50 U	5 UJ	5 U	5 UJ	5 U	5 UJ
Naphthalene		91-20-3	10*	5 UJ	5 UJ	5 U	**20**	**19**	5 UJ	5 U	5 U	**1600 J**	5 UJ	100 UJ	**2500**	5 UJ	5 U	5 UJ	5 U	**1.7 J**
Phenanthrene		85-01-8	50*	5 UJ	5 UJ	5 U	5 U	5 U	5 UJ	5 U	5 U	500 UJ	5 UJ	100 UJ	**42 J**	5 UJ	5 U	5 UJ	5 U	5 UJ
Pyrene		129-00-0	50*	5 UJ	5 UJ	5 U	5 U	5 U	5 UJ	5 U	5 U	500 UJ	5 UJ	**17 J**	**4.6 J**	5 UJ	5 U	5 UJ	5 U	5 UJ
Total PAH (17) (ND=0)		TPAH17_ND0	NE	ND	ND	ND	**25.7**	**24.9**	ND	ND	ND	**1600**	ND	**40.6**	**2726.4**	ND	ND	ND	ND	**1.7**

Table 4. Groundwater Analytical Results
National Grid Canastota Former MGP Site
Canastota, New York

Notes:
Analytes in blue are not detected in any sample
ug/L = micrograms per liter or parts per billion (ppb)

BTEX = Benzene, Toluene, Ethylbenzene, and Xylenes
PAH = Polycyclic Aromatic Hydrocarbon

Total BTEX and Total PAHs are calculated using detects only.
Total PAH17 is calculated using the list of analytes: Acenaphthene, Acenaphthylene, Anthracene, Benz[a]anthracene, Benzo[a]pyrene, Benzo[b]fluoranthene, Benzo[g,h,i]perylene, Benzo[k]fluoranthene, Chrysene, Dibenz[a,h]anthracene, Fluoranthene, Fluorene, Indeno[1,2,3-cd]pyrene, Naphthalene, 2-Methylnaphthalene, Phenanthrene, and Pyrene

NYS AWQS = New York State Ambient Water Quality Standards and Guidance Values for GA groundwater
* indicates the value is a guidance value and not a standard

CAS No. = Chemical Abstracts Service Number
ND = Not Detected
NE = Not Established

Only detected concentrations are shown
Bolding indicates a detected result concentration
Shading and bolding indicates that the detected concentration is above the NYSDOH guidance it was compared to

Validation Qualifiers:
J = The result is an estimated value.
U = The result was not detected above the reporting limit.
UJ = The results was not detected at or above the reporting limit shown and the reporting limit is estimated.

Table 5. Treatability Study Test Results
National Grid Canastota Former MGP Site
Canastota, New York

Mix ID	Fabrication Date	Test Date	Age (days)	Bulk Density (pcf)	Load (lbs)	Peak Stress (psi)*	Saturated Hydraulic Conductivity (cm/sec)**
A-07pct-1	05/05/2023	05/12/2023	7	115.6	575.9	81.5	NM
		05/19/2023	14	115.7	740.3	104.7	3.31E-07
		06/02/2023	28	116.0	1075.5	152.2	2.76E-07
A-11pct-1	05/05/2023	05/12/2023	7	114.1	1090.3	154.2	NM
		05/19/2023	14	115.1	1439.0	203.6	3.59E-07
		06/02/2023	28	113.4	1822.1	257.8	1.97E-07
B-07pct-1	05/05/2023	05/12/2023	7	112.3	343.3	48.6	NM
		05/19/2023	14	112.4	645.7	91.3	6.90E-07
		06/02/2023	28	112.9	677.5	95.8	6.60E-07
Treatibility Study Target			28	NA	NA	65.0	5.0E-06

Notes:
NM - Not Measured
NA - Not Applicable
* UCS at 7, 14 & 28 Days (Using 3"x6" Cylinders)
** Saturated hydraulic conductivity at 14 & 28 Days (Using 2"x4" Cylinders)

Table 6. Waste Characterization Analytical Results
National Grid Canastota Former MGP Site
Canastota, NY

			Sample Name	SB 109 (0-4)	SB-109 (7-14)	SB 110 (10-15)	SB 111 (0-4)
			Start Depth	0	7	10	0
			End Depth	4	14	15	4
			Depth Unit	ft	ft	ft	ft
			Sample Date	10/3/2022	10/3/2022	10/3/2022	9/29/2022
Analyte		**Units**	**CAS No.**				
BTEX		ug/kg					
	Benzene		71-43-2	**0.96 J**	**730**	**470 J**	**2.2 J**
	Toluene		108-88-3	**1.5 J**	**470 J**	**550 J**	5.1 U
	Ethylbenzene		100-41-4	**3.1 J**	**1900**	**1300 J**	**3.2 J**
	Total Xylene		1330-20-7	**11**	**2000**	**2000 J**	**6.1 J**
	Total BTEX (ND=0)		TBTEX_ND0	**16.56**	**5100**	**4320**	**11.5**
Other VOCs		ug/kg					
	Acetone		67-64-1	**13 J**	3200 U	7800 U	**80**
	Bromodichloromethane		75-27-4	5.6 U	630 U	1600 U	5.1 U
	Bromoform		75-25-2	5.6 U	630 U	1600 U	5.1 U
	Bromomethane		74-83-9	5.6 U	630 U	1600 U	5.1 U
	Carbon disulfide		75-15-0	**4 J**	630 U	1600 U	5.1 U
	Carbon tetrachloride		56-23-5	5.6 U	630 U	1600 U	5.1 U
	Chlorobenzene		108-90-7	5.6 U	630 U	1600 U	5.1 U
	Chloroethane		75-00-3	5.6 U	630 U	1600 U	5.1 U
	Chloroform (Trichloromethane)		67-66-3	**0.4 J**	630 U	1600 U	5.1 U
	Chloromethane		74-87-3	5.6 U	630 U	1600 U	5.1 U
	Cyclohexane		110-82-7	5.6 U	630 U	1600 U	5.1 U
	1,2-Dibromo-3-chloropropane		96-12-8	5.6 U	630 U	1600 U	5.1 U
	Dibromochloromethane		124-48-1	5.6 U	630 U	1600 U	5.1 U
	1,2-Dibromoethane (EDB)		106-93-4	5.6 U	630 U	1600 U	5.1 U
	1,2-Dichlorobenzene (o-DCB)		95-50-1	5.6 U	630 U	1600 U	5.1 U
	1,3-Dichlorobenzene (m-DCB)		541-73-1	5.6 U	630 U	1600 U	5.1 U
	1,4-Dichlorobenzene (p-DCB)		106-46-7	5.6 U	630 U	1600 U	5.1 U
	Dichlorodifluoromethane (Freon 12)		75-71-8	5.6 U	630 U	1600 U	5.1 U
	1,1-Dichloroethane		75-34-3	5.6 U	630 U	1600 U	5.1 U
	1,2-Dichloroethane		107-06-2	5.6 U	630 U	1600 U	5.1 U
	1,1-Dichloroethene		75-35-4	5.6 U	630 U	1600 U	5.1 U
	cis-1,2-Dichloroethene		156-59-2	5.6 U	630 U	1600 U	5.1 U
	trans-1,2-Dichloroethene		156-60-5	5.6 U	630 U	1600 U	5.1 U
	1,2-Dichloropropane		78-87-5	5.6 U	630 U*+	1600 U*+	5.1 U
	cis-1,3-Dichloropropene		10061-01-5	5.6 U	630 U*+	1600 U*+	5.1 U
	trans-1,3-Dichloropropene		10061-02-6	5.6 U	630 U	1600 U	5.1 U
	2-Hexanone		591-78-6	28 U	3200 U	7800 U	26 U
	Isopropylbenzene		98-82-8	**1.5 J**	**210 J**	**270 J**	**3.1 J**
	Methyl acetate		79-20-9	28 U	3200 U	7800 U	26 U
	Methyl ethyl ketone (2-Butanone)		78-93-3	**2.9 J**	3200 U	7800 U	**21 J**
	Methyl tert-butyl ether (MTBE)		1634-04-4	5.6 U	630 U	1600 U	5.1 U
	4-Methyl-2-pentanone (MIBK)		108-10-1	28 U	3200 U	7800 U	26 U
	Methylcyclohexane		108-87-2	5.6 U	630 U	1600 U	5.1 U
	Methylene chloride		75-09-2	5.6 U	630 U	1600 U	5.1 U
	Styrene		100-42-5	**0.33 J**	630 U	1600 U	5.1 U
	1,1,2,2-Tetrachloroethane		79-34-5	5.6 U	630 U	1600 U	5.1 U
	Tetrachloroethene (PCE)		127-18-4	5.6 U	630 U	1600 U	5.1 U
	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)		76-13-1	5.6 U	630 U	1600 U	5.1 U
	1,2,4-Trichlorobenzene		120-82-1	5.6 U	630 U	1600 U	5.1 U
	1,1,1-Trichloroethane (TCA)		71-55-6	5.6 U	630 U	1600 U	5.1 U
	1,1,2-Trichloroethane		79-00-5	5.6 U	630 U	1600 U	5.1 U
	Trichloroethene (TCE)		79-01-6	5.6 U	630 U	1600 U	5.1 U
	Trichlorofluoromethane (Freon 11)		75-69-4	5.6 U	630 U	1600 U	5.1 U
	Vinyl chloride		75-01-4	5.6 U	630 U	1600 U	5.1 U

Table 6. Waste Characterization Analytical Results
National Grid Canastota Former MGP Site
Canastota, NY

		Sample Name	SB 109 (0-4)	SB-109 (7-14)	SB 110 (10-15)	SB 111 (0-4)
		Start Depth	0	7	10	0
		End Depth	4	14	15	4
		Depth Unit	ft	ft	ft	ft
		Sample Date	10/3/2022	10/3/2022	10/3/2022	9/29/2022
Analyte	**Units**	**CAS No.**				
TCLP VOCs	mg/L					
Benzene		71-43-2	0.01 U	**0.0055 J**	**0.0052 J**	0.01 U
Carbon tetrachloride		56-23-5	0.01 U	0.01 U	0.01 U	0.01 U
Chlorobenzene		108-90-7	0.01 U	0.01 U	0.01 U	0.01 U
Chloroform (Trichloromethane)		67-66-3	0.01 U	0.01 U	0.01 U	0.01 U
1,2-Dichloroethane		107-06-2	0.01 U	0.01 U	0.01 U	0.01 U
1,1-Dichloroethene		75-35-4	0.01 U	0.01 U	0.01 U	0.01 U
Methyl ethyl ketone (2-Butanone)		78-93-3	0.05 U	0.05 U	0.05 U	0.05 U
Trichloroethene (TCE)		79-01-6	0.01 U	0.01 U	0.01 U	0.01 U
Vinyl chloride		75-01-4	0.01 U	0.01 U	0.01 U	0.01 U
PAH17	ug/kg					
Acenaphthene		83-32-9	2000 U	**4800**	**21000**	21000 U
Acenaphthylene		208-96-8	**380 J**	**3200**	**6800**	21000 U
Anthracene		120-12-7	2000 U	**6000**	**15000**	21000 U
Benzo(a)anthracene		56-55-3	**1100 J**	**3800**	**10000**	21000 U
Benzo(b)fluoranthene		205-99-2	**1900 J**	**3300**	**7600**	21000 U
Benzo(k)fluoranthene		207-08-9	**670 J**	1100 U	**3400**	21000 U
Benzo(g,h,i)perylene		191-24-2	**1300 J**	**1600**	**5200**	21000 U
Benzo(a)pyrene		50-32-8	**1500 J**	**3500**	**9800**	21000 U
Chrysene		218-01-9	**1400 J**	**4000**	**9400**	21000 U
Dibenz(a,h)anthracene		53-70-3	2000 U	1100 U	**1400**	21000 U
Fluoranthene		206-44-0	**1900 J**	**8500**	**26000**	**2400 J**
Fluorene		86-73-7	2000 U	**5600**	**15000**	21000 U
Indeno(1,2,3-cd)pyrene		193-39-5	**1200 J**	**1400**	**4100**	21000 U
2-Methylnaphthalene		91-57-6	2000 U	**1000 J**	**10000**	21000 U
Naphthalene		91-20-3	2000 U	**2500**	**26000**	21000 U
Phenanthrene		85-01-8	**1000 J**	**23000**	**68000**	21000 U
Pyrene		129-00-0	**1800 J**	**11000**	**28000**	21000 U
Total PAH (17) (ND=0)		TPAH17_ND0	**14150**	**83200**	**266700**	**2400**
PAH17 Other SVOCs	ug/kg					
Acetophenone		98-86-2	2000 U	1100 U	1000 U	21000 U
Atrazine		1912-24-9	2000 U	1100 U	1000 U	21000 U
Benzaldehyde		100-52-7	2000 U	1100 U	1000 U	21000 U
Biphenyl (1,1-Biphenyl)		92-52-4	2000 U	**1200**	**5100**	21000 U
Bis(2-chloroethoxy)methane		111-91-1	2000 U	1100 U	1000 U	21000 U
Bis(2-chloroethyl)ether		111-44-4	2000 U	1100 U	1000 U	21000 U
2,2-oxybis(1-Chloropropane)		108-60-1	2000 U	1100 U	1000 U	21000 U
Bis(2-ethylhexyl)phthalate		117-81-7	2000 U	1100 U	1000 U	21000 U
4-Bromophenyl phenyl ether		101-55-3	2000 U	1100 U	1000 U	21000 U
Butyl benzyl phthalate		85-68-7	2000 U	1100 U	1000 U	21000 U
Caprolactam		105-60-2	2000 U	1100 U	1000 U	21000 U
Carbazole		86-74-8	2000 U	**140 J**	**1700**	21000 U
4-Chloro-3-methylphenol		59-50-7	2000 U	1100 U	1000 U	21000 U
4-Chloroaniline		106-47-8	2000 U	1100 U	1000 U	21000 U
2-Chloronaphthalene		91-58-7	2000 U	1100 U	1000 U	21000 U
2-Chlorophenol		95-57-8	3900 U	2100 U	2000 U	41000 U
4-Chlorophenyl phenyl ether		7005-72-3	2000 U	1100 U	1000 U	21000 U
Dibenzofuran		132-64-9	2000 U	**670 J**	**5400**	21000 U
3,3-Dichlorobenzidine		91-94-1	3900 U	2100 U	2000 U	41000 U
2,4-Dichlorophenol		120-83-2	2000 U	1100 U	1000 U	21000 U
Diethyl phthalate		84-66-2	2000 U	1100 U	**170 JB**	21000 U
Dimethyl phthalate		131-11-3	2000 U	1100 U	1000 U	21000 U
2,4-Dimethylphenol		105-67-9	2000 U	1100 U	1000 U	21000 U
Di-n-butyl phthalate		84-74-2	2000 U	1100 U	1000 U	21000 U

Table 6. Waste Characterization Analytical Results
National Grid Canastota Former MGP Site
Canastota, NY

			Sample Name	SB 109 (0-4)	SB-109 (7-14)	SB 110 (10-15)	SB 111 (0-4)
			Start Depth	0	7	10	0
			End Depth	4	14	15	4
			Depth Unit	ft	ft	ft	ft
			Sample Date	10/3/2022	10/3/2022	10/3/2022	9/29/2022
Analyte		**Units**	**CAS No.**				
	4,6-Dinitro-2-methylphenol		534-52-1	3900 U	2100 U	2000 U	41000 U
	2,4-Dinitrophenol		51-28-5	19000 U	11000 U	10000 U	210000 U
	2,4-Dinitrotoluene		121-14-2	2000 U	1100 U	1000 U	21000 U
	2,6-Dinitrotoluene		606-20-2	2000 U	1100 U	1000 U	21000 U
	Di-n-octyl phthalate		117-84-0	2000 U	1100 U	1000 U	21000 U
	Hexachlorobenzene		118-74-1	2000 U	1100 U	1000 U	21000 U
	1,3-Hexachlorobutadiene (C-46)		87-68-3	2000 U	1100 U	1000 U	21000 U
	Hexachlorocyclopentadiene		77-47-4	2000 U	1100 U	1000 U	21000 U
	Hexachloroethane		67-72-1	2000 U	1100 U	1000 U	21000 U
	Isophorone		78-59-1	2000 U	1100 U	1000 U	21000 U
	2-Methylnaphthalene		91-57-6	2000 U	**1000 J**	**10000**	21000 U
	2-Methylphenol (o-Cresol)		95-48-7	2000 U	1100 U	1000 U	21000 U
	4-Methylphenol (p-Cresol)		106-44-5	3900 U	2100 U	2000 U	41000 U
	2-Nitroaniline		88-74-4	3900 U	2100 U	2000 U	41000 U
	3-Nitroaniline		99-09-2	3900 U	2100 U	2000 U	41000 U
	4-Nitroaniline		100-01-6	3900 U	2100 U	2000 U	41000 U
	Nitrobenzene		98-95-3	2000 U	1100 U	1000 U	21000 U
	2-Nitrophenol		88-75-5	2000 U	1100 U	1000 U	21000 U
	4-Nitrophenol		100-02-7	3900 U	2100 U	2000 U	41000 U
	N-Nitrosodiphenylamine (NDFA)		86-30-6	2000 U	1100 U	1000 U	21000 U
	N-Nitrosodi-n-propylamine (NDPA)		621-64-7	2000 U	1100 U	1000 U	21000 U
	Pentachlorophenol		87-86-5	3900 U	2100 U	2000 U	41000 U
	Phenol		108-95-2	2000 U	1100 U	1000 U	21000 U
	2,4,5-Trichlorophenol		95-95-4	2000 U	1100 U	1000 U	21000 U
	2,4,6-Trichlorophenol		88-06-2	2000 U	1100 U	1000 U	21000 U
TCLP SVOCs		mg/L					
	1,4-Dichlorobenzene (p-DCB)		106-46-7	0.042 U	0.04 U	0.04 U	0.04 U
	2,4-Dinitrotoluene		121-14-2	0.021 U	0.02 U	0.02 U	0.02 U
	Hexachlorobenzene		118-74-1	0.021 U	0.02 U	0.02 U	0.02 U
	1,3-Hexachlorobutadiene (C-46)		87-68-3	0.021 U	0.02 U	0.02 U	0.02 U
	Hexachloroethane		67-72-1	0.021 U	0.02 U	0.02 U	0.02 U
	2-Methylphenol (o-Cresol)		95-48-7	0.021 U	0.02 U	0.02 U	0.02 U
	3-Methylphenol (m-Cresol)		108-39-4	0.042 U	0.04 U	0.04 U	0.04 U
	4-Methylphenol (p-Cresol)		106-44-5	0.042 U	0.04 U	0.04 U	0.04 U
	Nitrobenzene		98-95-3	0.021 U	0.02 U	0.02 U	0.02 U
	Pentachlorophenol		87-86-5	0.042 U	0.04 U	0.04 U	0.04 U
	Pyridine		110-86-1	0.1 U	0.1 U	0.1 U	0.1 U
	2,4,5-Trichlorophenol		95-95-4	0.021 U	0.02 U	0.02 U	0.02 U
	2,4,6-Trichlorophenol		88-06-2	0.021 U	0.02 U	0.02 U	0.02 U
PCB Aroclors		mg/kg					
	Aroclor 1016		12674-11-2	0.23 U	0.24 U	0.27 U	2.2 U
	Aroclor 1221		11104-28-2	0.23 U	0.24 U	0.27 U	2.2 U
	Aroclor 1232		11141-16-5	0.23 U	0.24 U	0.27 U	2.2 U
	Aroclor 1242		53469-21-9	0.23 U	0.24 U	0.27 U	2.2 U
	Aroclor 1248		12672-29-6	0.23 U	0.24 U	0.27 U	2.2 U
	Aroclor 1254		11097-69-1	0.23 U	0.24 U	0.27 U	2.2 U
	Aroclor 1260		11096-82-5	0.23 U	0.24 U	0.27 U	2.2 U
	Aroclor 1262		37324-23-5	0.23 U	0.24 U	0.27 U	2.2 U
	Aroclor 1268		11100-14-4	0.23 U	0.24 U	0.27 U	2.2 U

Table 6. Waste Characterization Analytical Results
National Grid Canastota Former MGP Site
Canastota, NY

		Sample Name	SB 109 (0-4)	SB-109 (7-14)	SB 110 (10-15)	SB 111 (0-4)
		Start Depth	0	7	10	0
		End Depth	4	14	15	4
		Depth Unit	ft	ft	ft	ft
		Sample Date	10/3/2022	10/3/2022	10/3/2022	9/29/2022
Analyte	**Units**	**CAS No.**				
TCLP Pesticides	mg/L					
gamma-BHC (gamma-Hexachlorocyclohexane) (Lindane)		58-89-9	0.0002 U	0.0002 U	**8.4E-05 J**	0.0002 U
Chlordane (Alpha & Gamma)		57-74-9	0.002 U	0.002 U	0.002 U	0.002 U
Endrin		72-20-8	0.0002 U	0.0002 U	0.0002 U	0.0002 U
Heptachlor		76-44-8	0.0002 U	0.0002 U	0.0002 U	0.0002 U
Heptachlor epoxide		1024-57-3	0.0002 U	0.0002 U	0.0002 U	0.0002 U
Methoxychlor		72-43-5	0.0002 U	0.0002 U	0.0002 U	0.0002 U
Toxaphene		8001-35-2	0.002 U	0.002 U	0.002 U	0.002 U
TCLP Herbicides	mg/L					
2,4-D (2,4-Dichlorophenoxyacetic acid)		94-75-7	0.002 U	0.002 U	**0.00088 J**	0.002 U
2,4,5-TP (Silvex)		93-72-1	0.002 U	0.002 U	0.002 U	0.002 U
Total Metals	mg/kg					
Antimony		7440-36-0	**5.5 J**	**1.2 J**	19.5 U	**3.6 J**
Arsenic		7440-38-2	**74.4 F1**	**8.4**	**3.3**	**7.9**
Barium		7440-39-3	**151 F1F2**	**120**	**32**	**70.5**
Beryllium		7440-41-7	**0.43**	**0.47**	**0.26**	**0.19 J**
Cadmium		7440-43-9	**0.56**	**0.11 J**	**0.096 J**	**0.59**
Chromium		7440-47-3	**11**	**12.1**	**8.3**	**42.6**
Lead		7439-92-1	**117 F1F2**	**20.9**	**7.8**	**195**
Mercury		7439-97-6	**0.12**	**0.049**	**0.024 J**	**0.12**
Nickel		7440-02-0	**20.9 J**	**23.7**	**10.9**	**30.7**
Selenium		7782-49-2	**5.5**	5.2 U	5.2 U	**0.95 J**
Silver		7440-22-4	0.7 U	0.77 U	0.79 U	1.5 U
Sulfur	percent	7704-34-9	**0.21**	**0.042**	**0.086**	**0.13**
Thallium		7440-28-0	**6.2 J**	7.9 U	**0.44 J**	7.6 U
Vanadium		7440-62-2	**28.7**	**20.6**	**13.3**	**18.5**
Zinc		7440-66-6	**264 F2**	**45**	**26.9**	**197**
TCLP Metals	mg/L					
Arsenic		7440-38-2	0.015 U	**0.0096 J**	**0.0061 J**	0.015 U
Barium		7440-39-3	**0.5 J**	**1.9**	**0.66 J**	**0.61 J**
Cadmium		7440-43-9	**0.0027**	**0.0008 J**	**0.0023**	**0.006**
Chromium		7440-47-3	0.02 U	0.02 U	0.02 U	0.02 U
Lead		7439-92-1	**0.017 J**	**0.0093 J**	**0.62**	**0.24**
Mercury		7439-97-6	0.0002 U	0.0002 U	0.0002 U	0.0002 U
Selenium		7782-49-2	0.025 U	0.025 U	0.025 U	0.025 U
Silver		7440-22-4	0.006 U	0.006 U	0.006 U	0.006 U
Cyanides	mg/kg					
Cyanide Reactivity		REAC-CN	9.9 U	9.3 U	9.5 U	9.7 U
Total Cyanide		57-12-5	**1.3**	1.1 U	1.1 UF1	1.2 U
Other						
British Thermal Units	btu	BTU	0 U	0 U	0 U	0 U
Flash Point	deg f	FP	50 U	50 U	50 U	50 U
Paint Filter	ml/100g	PF	0 U	0 U	0 U	0 U
pH	s.u.	pH	**8.5 HF**	**8.3 HF**	**7.8 HF**	**7.9 HF**
Sulfide Reactivity	mg/kg	REAC-HS	9.9 U	9.3 U	9.5 U	9.7 U
Sulfur	percent	7704-34-9	**0.21**	**0.042**	**0.086**	**0.13**
Temperature at Analysis	deg c	TEMP	**19.4 HF**	**19.2 HF**	**19.4 HF**	**19.5 HF**
TPH-Gasoline Range Organics (C6-C10)	mg/kg	TPHC6C10	**3.2 B**	**20 B**	**32 B**	**2.5**
TPH-Diesel Range Organics (C10-C28)	mg/kg	TPH-DRO10-28	**96**	**370**	**1100**	**150 B**

Table 6. Waste Characterization Analytical Results
National Grid Canastota Former MGP Site
Canastota, NY

Notes:
Data for these sampling events have not been validated. Qualifiers are Lab Qualifiers.
Analytes in blue are not detected in any sample

btu = British thermal units
deg c = degrees Celsius
deg F = degrees Fahrenheit
mg/kg = milligrams/kilogram or parts per million (ppm)
mg/L = milligrams/liter
mg/100g = milligrams per 100 grams
% = Percent
s.u. = standard units
ug/kg = micrograms per kilogram

BTEX = Benzene, Toluene, Ethylbenzene, and Xylenes
PAH = Polycyclic Aromatic Hydrocarbon
PCB = Polychlorinated Biphenyl
SVOC = Semi-Volatile Organic Compound
TCLP = Toxicity Characteristic Leaching Procedure
VOC = Volatile Organic Compound

Total BTEX and Total PAHs are calculated using detects only.
Total PAH17 is calculated using the list of analytes: Acenaphthene, Acenaphthylene, Anthracene, Benz[a]anthracene, Benzo[a]pyrene, Benzo[b]fluoranthene, Benzo[g,h,i]perylene, Benzo[k]fluoranthene, Chrysene, Dibenz[a,h]anthracene, Fluoranthene, Fluorene, Indeno[1,2,3-cd]pyrene, Naphthalene, 2-Methylnaphthalene, Phenanthrene, and Pyrene

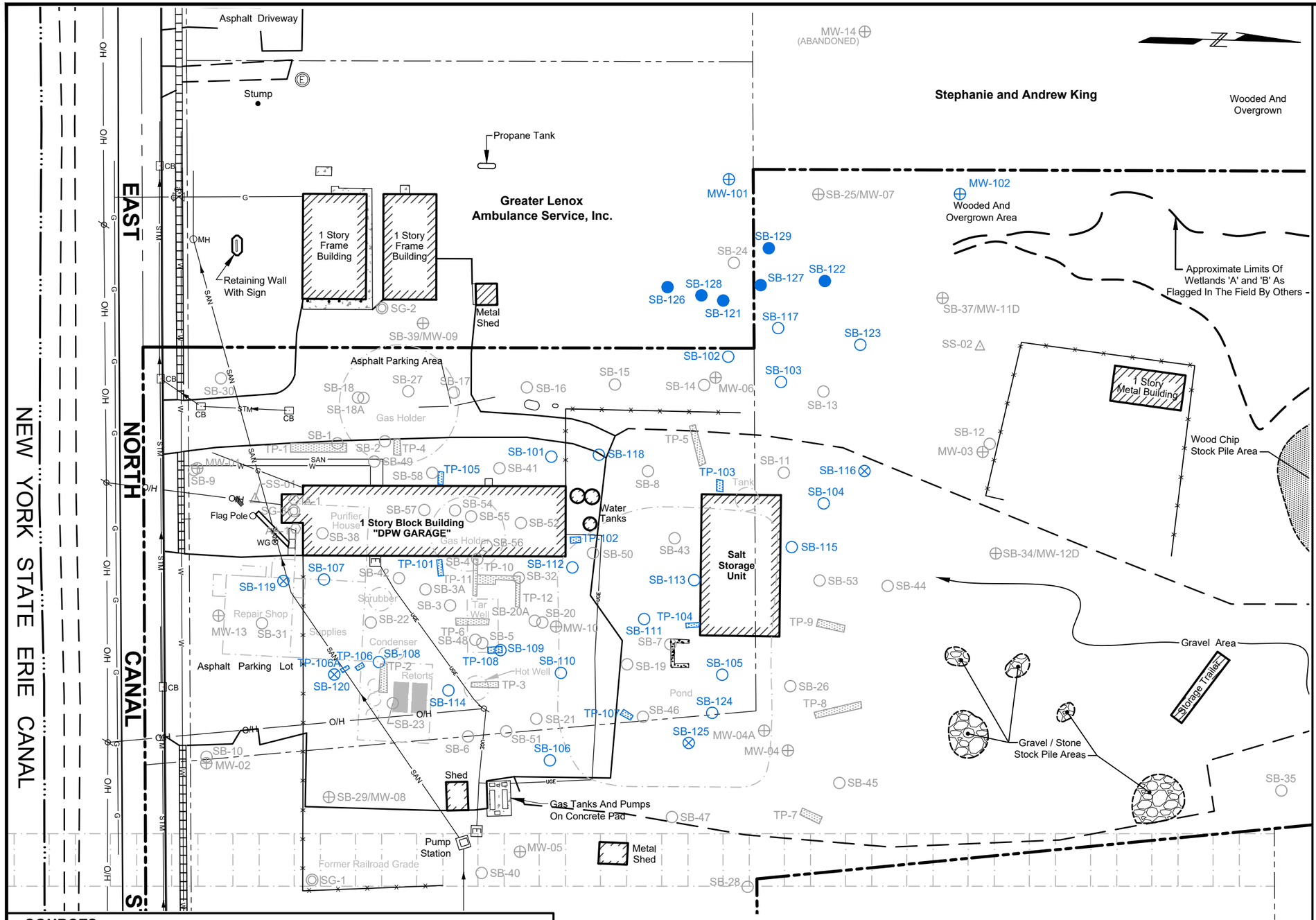
CAS No. = Chemical Abstracts Service Number

Bolding indicates a detected result concentration

Laboratory Qualifiers:

+/- = result may be biased high/low, respectively
* = The duplicate result was not within control limits.
B = The analyte was detected in the associated method blank.
F1 = MS and/or MSD recovery exceeds the control limits.
F2 = MS/MSD relative percent difference exceeds the control limits.
HF = The pH measurement was performed in the laboratory outside the 15 minute timeframe.
I = The lower value for the two columns has been reported due to obvious interference.
J = The result is an estimated value.
U = The result was not detected above the reporting limit.

Figures



LEGEND:

- SITE PROPERTY BOUNDARY
- OFFSITE PROPERTY BOUNDARY
- CHAIN-LINK FENCE
- EXISTING STRUCTURE
- HISTORIC STRUCTURE
- MW-102 — MONITORING WELL
- SB-124 — SOIL BORING - SPT
- SB-126 — SOIL BORING - DIRECT PUSH
- SB-120 — CONTINGENT LOCATION NOT ADVANCED
- TP-106 — TEST PIT
- MW-01 — MONITORING WELL (PREVIOUS INVESTIGATION)
- SB-19 — SOIL BORING (PREVIOUS INVESTIGATION)
- SS-01 — SOIL SAMPLE (PREVIOUS INVESTIGATION)
- TP-1 — TEST PIT (PREVIOUS INVESTIGATION)
- IA-1 — AIR SAMPLE (PREVIOUS INVESTIGATION)
- SG-3 — SOIL VAPOR SAMPLE POINT (PREVIOUS INVESTIGATION)
- G — GAS LINE
- SAN — SANITARY SEWER LINE
- STM — STORM SEWER LINE
- W — WATER LINE
- UGE — UNDERGROUND ELECTRIC LINE
- UTILITY POLE
- CB — CATCH BASIN
- GV — GAS VALVE
- WG — WATER VALVE

NOTES:

1. HORIZONTAL DATUM: NEW YORK STATE PLANE COORDINATE SYSTEM, CENTRAL ZONE, (NAD 83).
2. VERTICAL DATUM: NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD 29).
3. LOCATIONS OF SOME HISTORIC FEATURES ADJUSTED BASED ON FIELD OBSERVATIONS.
4. SPT = STANDARD PENETRATION TESTING (2-FOOT SPLIT SPOON).

SOURCES:

1. PLAN BASED ON SURVEY MAPS SHEETS 1 AND 2: *LANDS OF VILLAGE OF CANASTOTA, NORTHEAST CANAL STREET AND ROBERTS STREET, BEING PART OF LOT # 86 OF THE CANASTOTA TRACT, VILLAGE OF CANASTOTA - MADISON COUNTY, STATE OF NEW YORK,* PREPARED BY DELTA ENGINEERS, ARCHITECTS & LAND SURVEYORS, 4873 NEW YORK STATE ROUTE #5, VERNON, NY, SCALE: 1" = 30, DATE: 2/10/2010, LAST REVISED JANUARY 20, 2011.
2. 1911 SANBORN FIRE INSURANCE MAP.
3. UPDATED BASED ON SURVEY MAP PREPARED BY KEYSTONE ASSOCIATES ARCHITECTS, ENGINEERS AND SURVEYORS, LLC DATED 2/2/23 AND UPDATED ON 4/12/23.

0 60 120

SCALE, FEET

Pre-Design Investigation Results Report
Canastota Non-Owned Former MGP Site
Canastota, New York

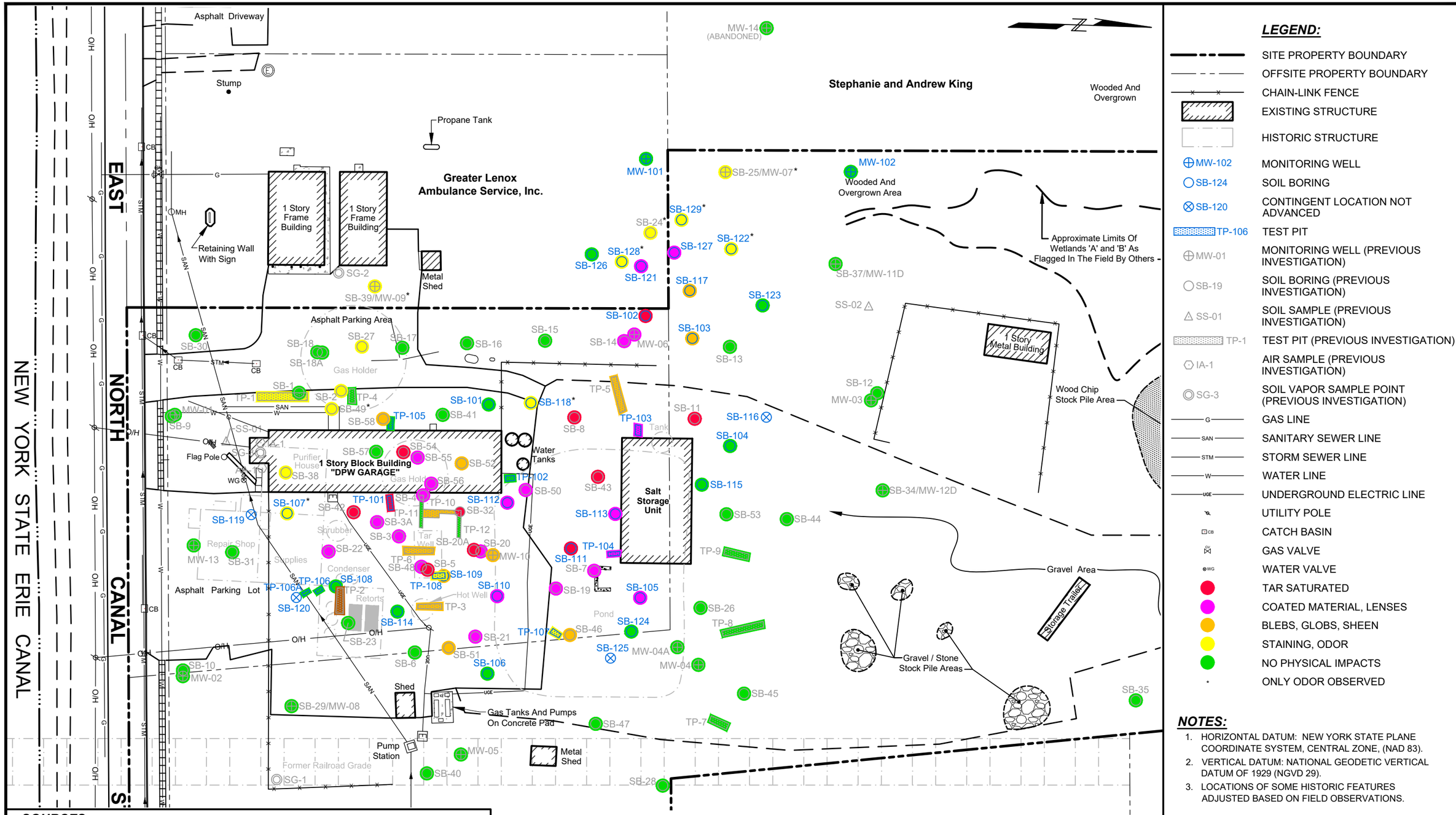
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PRE-DESIGN INVESTIGATION LOCATIONS

Project 034390 | August 2023 | Fig. 1

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LEGEND:

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- UTILITY POLE
- CB — CATCH BASIN
- GAS VALVE
- WG — WATER VALVE
- TAR SATURATED
- COATED MATERIAL, LENSES
- BLEBS, GLOBS, SHEEN
- STAINING, ODOR
- NO PHYSICAL IMPACTS
- * — ONLY ODOR OBSERVED

NOTES:

1. HORIZONTAL DATUM: NEW YORK STATE PLANE COORDINATE SYSTEM, CENTRAL ZONE, (NAD 83).
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0 60 120

SCALE, FEET

Pre-Design Investigation Results Report
Canastota Non-Owned Former MGP Site
Canastota, New York

nationalgrid

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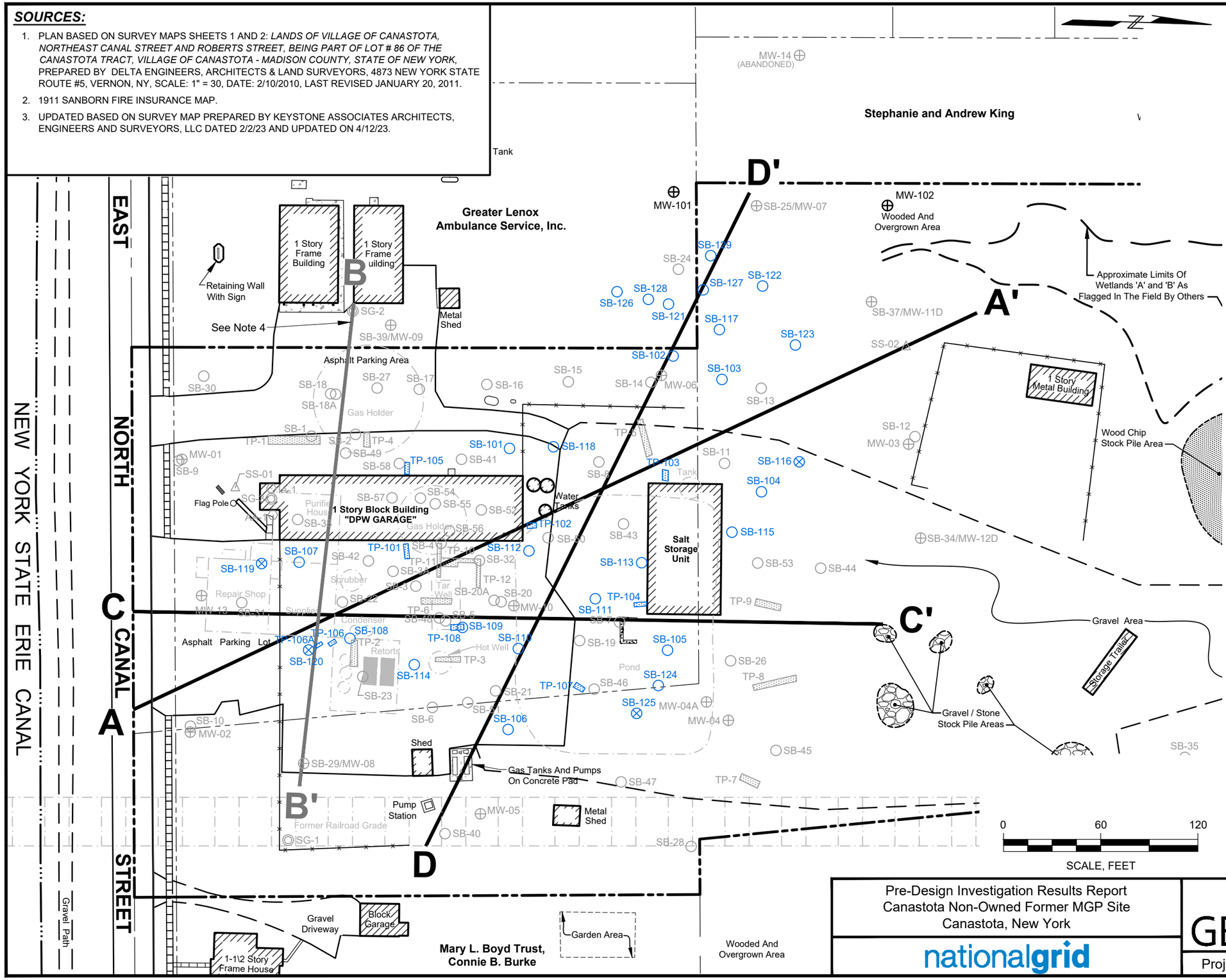
SUBSURFACE SOIL PHYSICAL OBSERVATIONS

Project 034390 | August 2023 | Fig. 2

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SOURCES:

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LEGEND:

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- OFFSITE PROPERTY BOUNDARY
- CHAIN-LINK FENCE
- EXISTING STRUCTURE
- HISTORIC STRUCTURE
- A — A' CROSS SECTION LOCATION
- MW-102 MONITORING WELL
- SB-124 SOIL BORING
- SB-120 CONTINGENT LOCATION NOT ADVANCED
- TP-106 TEST PIT
- MW-01 MONITORING WELL (PREVIOUS INVESTIGATION)
- SB-19 SOIL BORING (PREVIOUS INVESTIGATION)
- SS-01 SOIL SAMPLE (PREVIOUS INVESTIGATION)
- TP-1 TEST PIT (PREVIOUS INVESTIGATION)
- IA-1 AIR SAMPLE (PREVIOUS INVESTIGATION)
- SG-3 SOIL VAPOR SAMPLE POINT (PREVIOUS INVESTIGATION)

NOTES:

1. HORIZONTAL DATUM: NEW YORK STATE PLANE COORDINATE SYSTEM, CENTRAL ZONE, (NAD 83).
2. VERTICAL DATUM: NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD 29).
3. LOCATIONS OF SOME HISTORIC FEATURES ADJUSTED BASED ON FIELD OBSERVATIONS.
4. CROSS SECTION B-B' NOT INCLUDED BECAUSE IT IS NOT RELEVANT TO THE PDI REPORT. SEE REMEDIAL INVESTIGATION REPORT (GEI 2015) FOR CROSS SECTION B-B'.

0 60 120

SCALE, FEET

Pre-Design Investigation Results Report
Canastota Non-Owned Former MGP Site
Canastota, New York

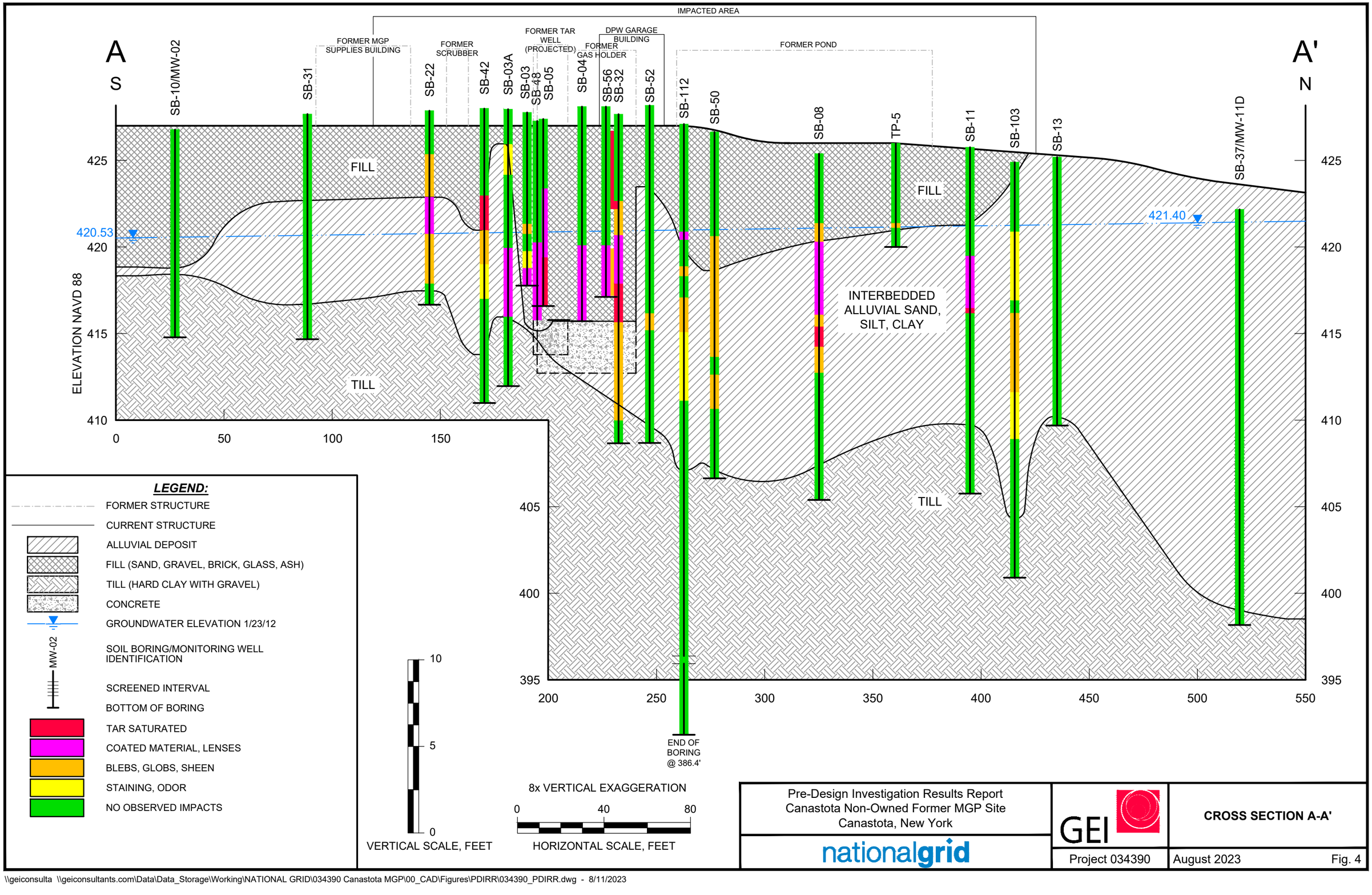
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CROSS SECTION LOCATIONS

Project 034390 | August 2023 | Fig. 3

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Canastota, New York

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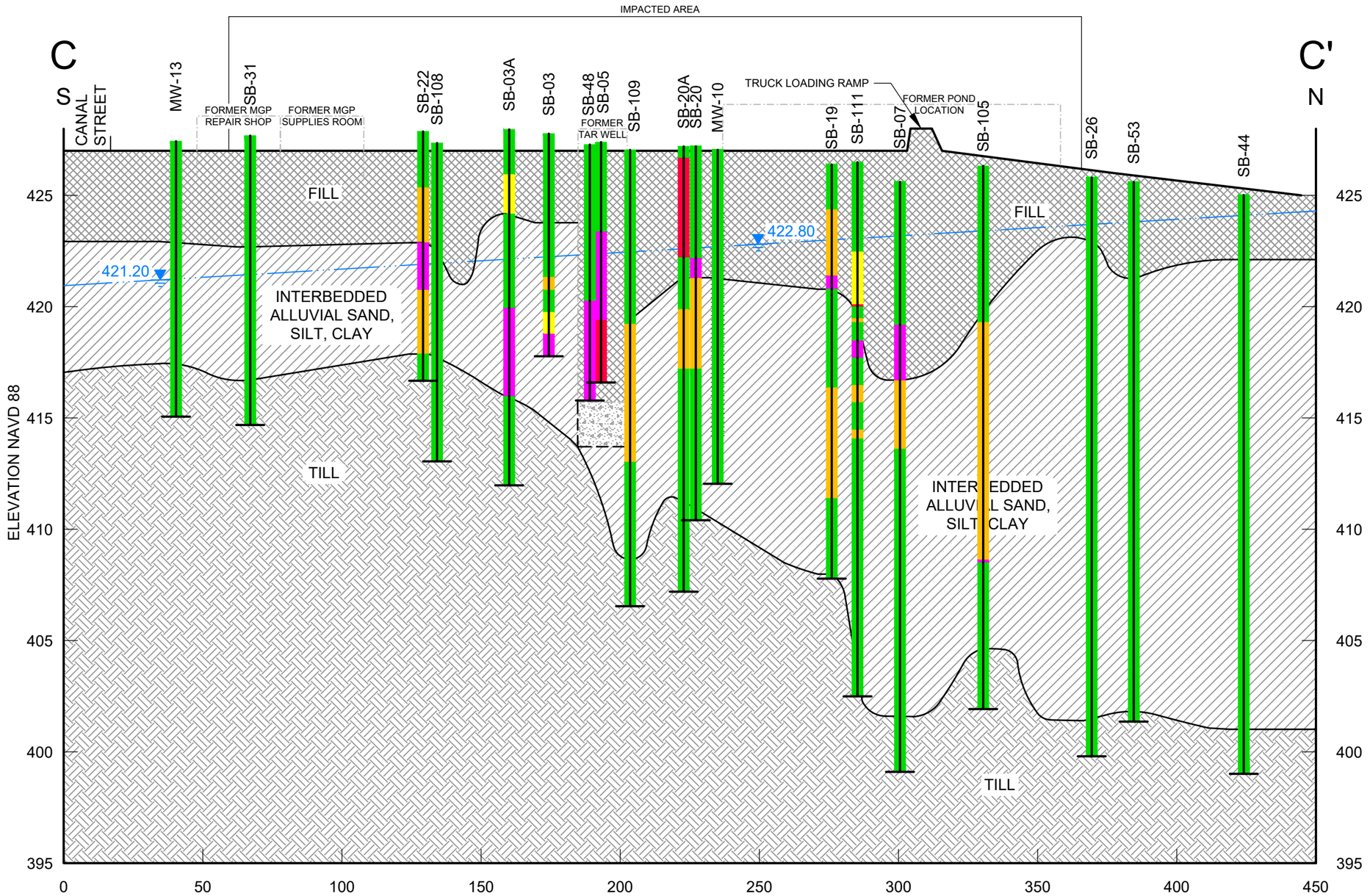
CROSS SECTION A-A'

Project 034390 | August 2023 | Fig. 4

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LEGEND:

- FORMER STRUCTURE
- CURRENT STRUCTURE
- ALLUVIAL DEPOSIT
- FILL (SAND, GRAVEL, BRICK, GLASS, ASH)
- TILL (HARD CLAY WITH GRAVEL)
- CONCRETE
- GROUNDWATER ELEVATION 1/23/12
- MW-02 — SOIL BORING/MONITORING WELL IDENTIFICATION
- SCREENED INTERVAL
- BOTTOM OF BORING
- TAR SATURATED
- COATED MATERIAL, LENSES
- BLEBS, GLOBS, SHEEN
- STAINING, ODOR
- NO OBSERVED IMPACTS



10
5
0
VERTICAL SCALE, FEET

8x VERTICAL EXAGGERATION
0 40 80
HORIZONTAL SCALE, FEET

Pre-Design Investigation Results Report
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Canastota, New York

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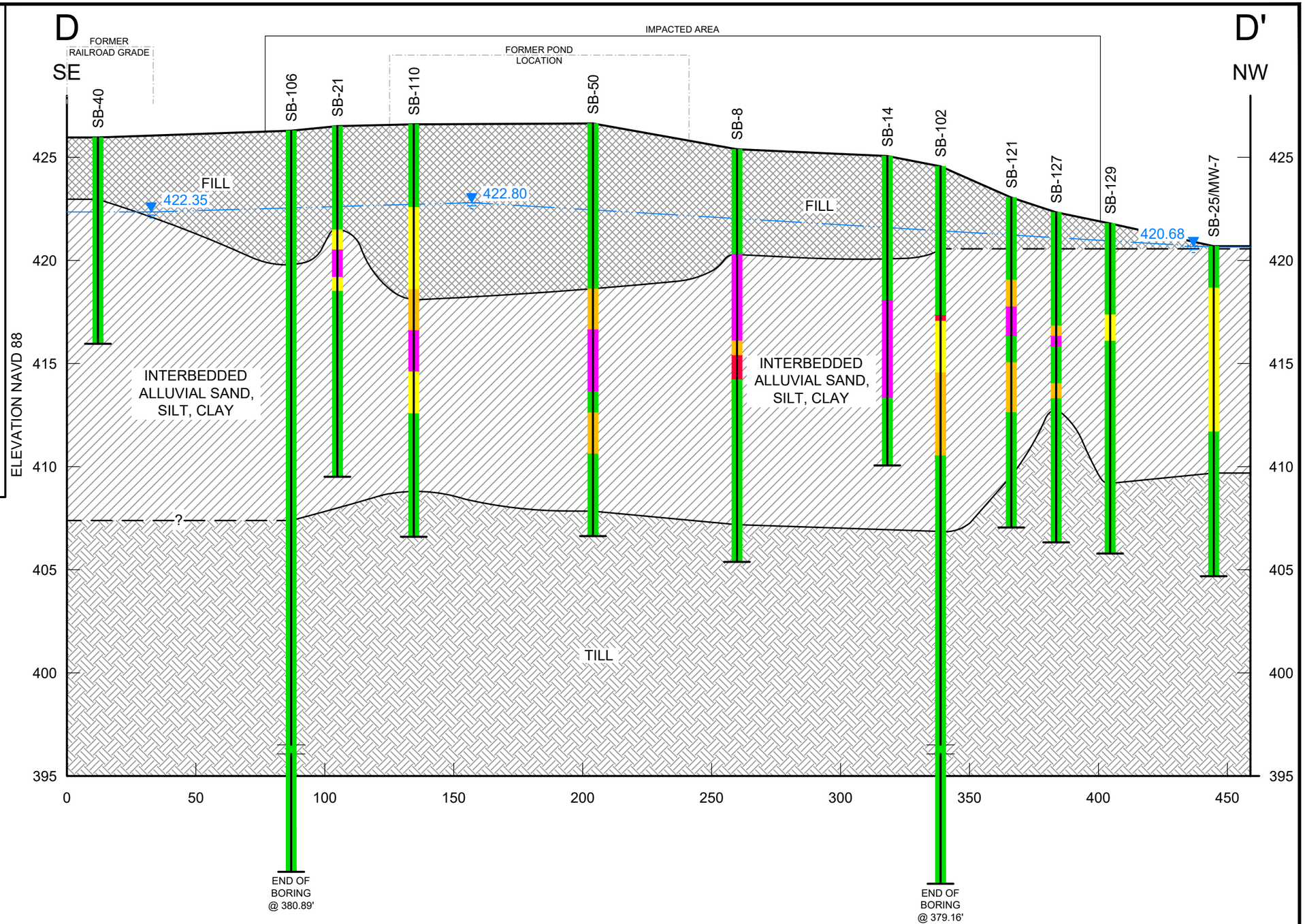
CROSS SECTION C-C'

Project 034390 | August 2023 | Fig. 5

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LEGEND:

- FORMER STRUCTURE
- CURRENT STRUCTURE
- ALLUVIAL DEPOSIT
- FILL (SAND, GRAVEL, BRICK, GLASS, ASH)
- TILL (HARD CLAY WITH GRAVEL)
- CONCRETE
- GROUNDWATER ELEVATION 1/23/12
- MW-02 — SOIL BORING/MONITORING WELL IDENTIFICATION
- SCREENED INTERVAL
- BOTTOM OF BORING
- TAR SATURATED
- COATED MATERIAL, LENSES
- BLEBS, GLOBS, SHEEN
- STAINING, ODOR
- NO OBSERVED IMPACTS



10
5
0
VERTICAL SCALE, FEET

8x VERTICAL EXAGGERATION

0 40 80
HORIZONTAL SCALE, FEET

Pre-Design Investigation Results Report
Canastota Non-Owned Former MGP Site
Canastota, New York

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CROSS SECTION D-D'

Project 034390 | August 2023 | Fig. 6

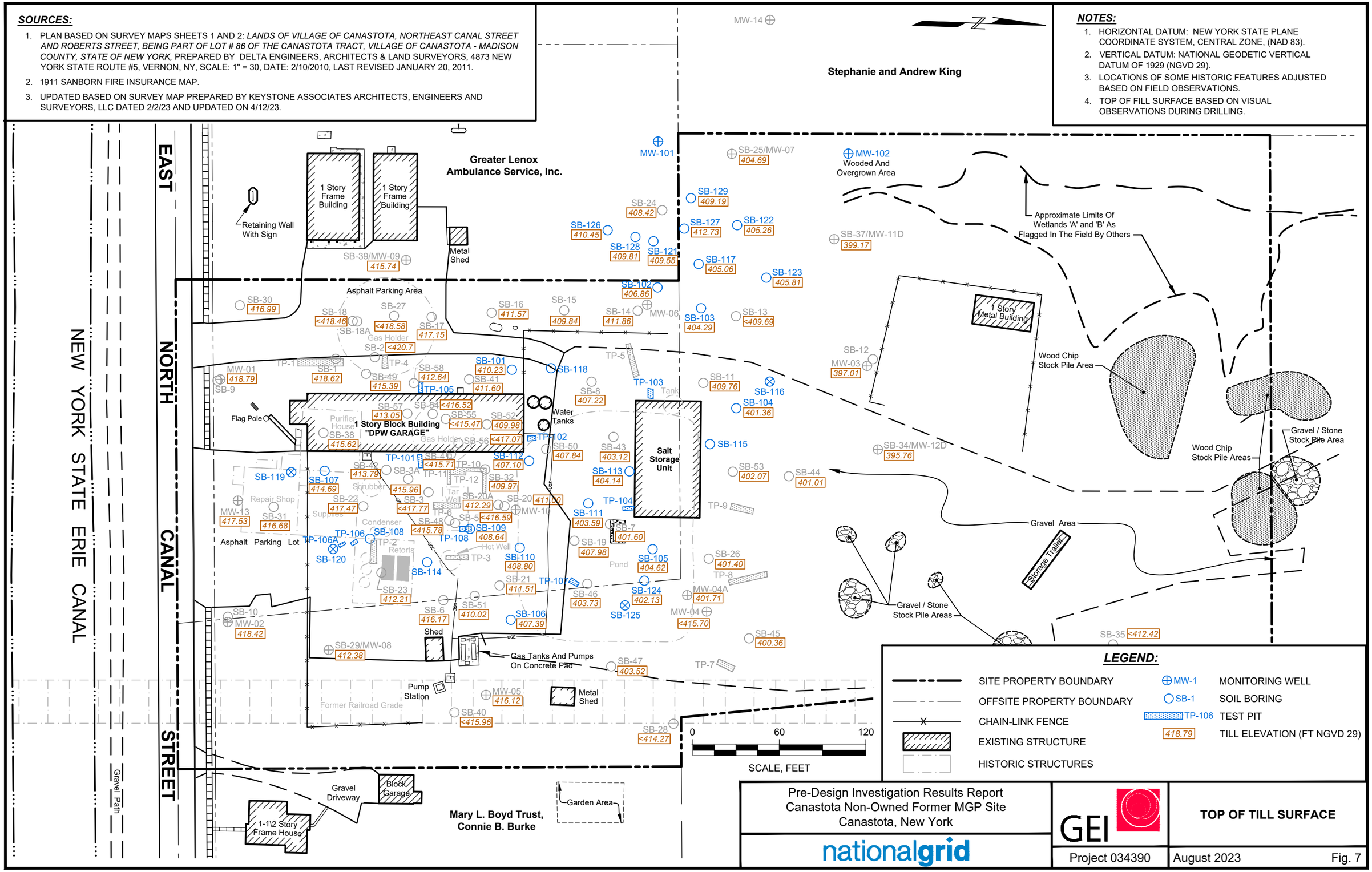
\\geiconsulta \\geiconsultants.com\Data\Data_Storage\Working\NATIONAL GRID\034390 Canastota MGP\00_CAD\Figures\PDIRR\034390_PDIRR.dwg - 8/11/2023

SOURCES:

1. PLAN BASED ON SURVEY MAPS SHEETS 1 AND 2: *LANDS OF VILLAGE OF CANASTOTA, NORTHEAST CANAL STREET AND ROBERTS STREET, BEING PART OF LOT # 86 OF THE CANASTOTA TRACT, VILLAGE OF CANASTOTA - MADISON COUNTY, STATE OF NEW YORK,* PREPARED BY DELTA ENGINEERS, ARCHITECTS & LAND SURVEYORS, 4873 NEW YORK STATE ROUTE #5, VERNON, NY, SCALE: 1" = 30, DATE: 2/10/2010, LAST REVISED JANUARY 20, 2011.
2. 1911 SANBORN FIRE INSURANCE MAP.
3. UPDATED BASED ON SURVEY MAP PREPARED BY KEYSTONE ASSOCIATES ARCHITECTS, ENGINEERS AND SURVEYORS, LLC DATED 2/2/23 AND UPDATED ON 4/12/23.

NOTES:

1. HORIZONTAL DATUM: NEW YORK STATE PLANE COORDINATE SYSTEM, CENTRAL ZONE, (NAD 83).
2. VERTICAL DATUM: NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD 29).
3. LOCATIONS OF SOME HISTORIC FEATURES ADJUSTED BASED ON FIELD OBSERVATIONS.
4. TOP OF FILL SURFACE BASED ON VISUAL OBSERVATIONS DURING DRILLING.



LEGEND:

SITE PROPERTY BOUNDARY	MW-1 MONITORING WELL
OFFSITE PROPERTY BOUNDARY	SB-1 SOIL BORING
CHAIN-LINK FENCE	TP-106 TEST PIT
EXISTING STRUCTURE	418.79 TILL ELEVATION (FT NGVD 29)
HISTORIC STRUCTURES	

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Canastota Non-Owned Former MGP Site
Canastota, New York

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TOP OF TILL SURFACE

Project 034390 | August 2023 | Fig. 7

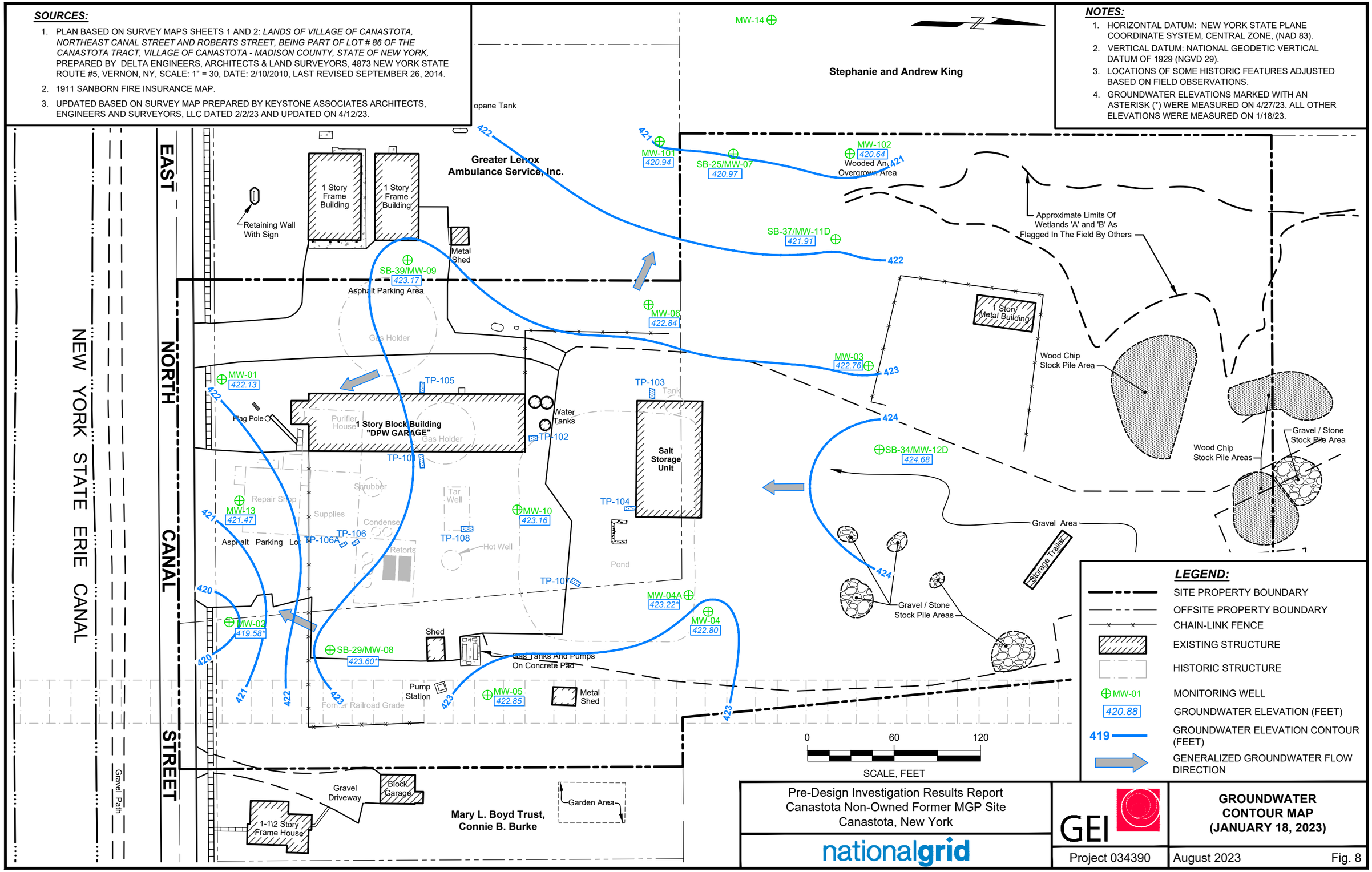
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SOURCES:

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2. 1911 SANBORN FIRE INSURANCE MAP.
3. UPDATED BASED ON SURVEY MAP PREPARED BY KEYSTONE ASSOCIATES ARCHITECTS, ENGINEERS AND SURVEYORS, LLC DATED 2/2/23 AND UPDATED ON 4/12/23.

NOTES:

1. HORIZONTAL DATUM: NEW YORK STATE PLANE COORDINATE SYSTEM, CENTRAL ZONE, (NAD 83).
2. VERTICAL DATUM: NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD 29).
3. LOCATIONS OF SOME HISTORIC FEATURES ADJUSTED BASED ON FIELD OBSERVATIONS.
4. GROUNDWATER ELEVATIONS MARKED WITH AN ASTERISK (*) WERE MEASURED ON 4/27/23. ALL OTHER ELEVATIONS WERE MEASURED ON 1/18/23.



LEGEND:

- SITE PROPERTY BOUNDARY
- OFFSITE PROPERTY BOUNDARY
- CHAIN-LINK FENCE
- EXISTING STRUCTURE
- HISTORIC STRUCTURE
- MW-01 — MONITORING WELL
- 420.88 — GROUNDWATER ELEVATION (FEET)
- 419 — GROUNDWATER ELEVATION CONTOUR (FEET)
- GENERALIZED GROUNDWATER FLOW DIRECTION

Pre-Design Investigation Results Report
Canastota Non-Owned Former MGP Site
Canastota, New York

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GROUNDWATER CONTOUR MAP (JANUARY 18, 2023)

August 2023 Fig. 8

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SOURCES:

1. PLAN BASED ON SURVEY MAPS SHEETS 1 AND 2: *LANDS OF VILLAGE OF CANASTOTA, NORTHEAST CANAL STREET AND ROBERTS STREET, BEING PART OF LOT # 86 OF THE CANASTOTA TRACT, VILLAGE OF CANASTOTA - MADISON COUNTY, STATE OF NEW YORK,* PREPARED BY DELTA ENGINEERS, ARCHITECTS & LAND SURVEYORS, 4873 NEW YORK STATE ROUTE #5, VERNON, NY, SCALE: 1" = 30, DATE: 2/10/2010, LAST REVISED SEPTEMBER 26, 2014.
2. 1911 SANBORN FIRE INSURANCE MAP.
3. UPDATED BASED ON SURVEY MAP PREPARED BY KEYSTONE ASSOCIATES ARCHITECTS, ENGINEERS AND SURVEYORS, LLC DATED 2/2/23 AND UPDATED ON 4/12/23.

LEGEND:

- SITE PROPERTY BOUNDARY
- OFFSITE PROPERTY BOUNDARY
- CHAIN-LINK FENCE
- EXISTING STRUCTURE
- HISTORIC STRUCTURE
- MW-101 MONITORING WELL
- ND NOT DETECTED
- BTEX BENZENE, TOLUENE, ETHYLBENZENE, XYLENES
- PAHs POLYCYCLIC AROMATIC HYDROCARBONS
- µg/L MICROGRAMS PER LITER
- **0.11** BOLD INDICATES DETECTED COMPOUNDS
- —1— TOTAL BTEX ISOCONCENTRATION (µg/L) (JANUARY AND APRIL 2023)

Location Name	MW-10							
Sample Date	1/20/2011	10/18/2011	1/23/2012	3/21/2013	3/21/2013 [DUP]	9/25/2014	9/25/2014 [DUP]	1/20/2023
Total BTEX (µg/L)	**1620**	**1390**	**1540**	**1130**	**1210**	**1212**	**1570**	**2890**
Total PAHs (µg/L)	**2578.06**	**1962.3**	**1813.48**	**2029.6**	**1988.2**	**1764.9**	**2367.5**	**2726.4**

Location Name	MW-09			
Sample Date	1/20/2011	10/18/2011	1/23/2012	1/19/2023
Total BTEX (µg/L)	**0.43**	ND	**0.19**	ND
Total PAHs (µg/L)	**4.39**	**0.84**	**0.78**	**40.6**

Location Name	MW-01					
Sample Date	12/30/2003	8/3/2005	1/19/2011	10/18/2011	1/24/2012	1/19/2023
Total BTEX (µg/L)	ND	ND	ND	ND	ND	ND
Total PAHs (µg/L)	ND	ND	ND	ND	ND	ND

Location Name	MW-13	
Sample Date	1/23/2012	1/19/2023
Total BTEX (µg/L)	ND	ND
Total PAHs (µg/L)	ND	**1.7**

Location Name	MW-08			
Sample Date	1/19/2011	10/18/2011	1/24/2012	4/27/2023
Total BTEX (µg/L)	ND	ND	ND	ND
Total PAHs (µg/L)	ND	ND	ND	ND

Location Name	MW-02						
Sample Date	12/29/2003	12/29/2003 [DUP]	8/3/2005	1/19/2011	10/18/2011	1/23/2012	4/27/2023
Total BTEX (µg/L)	ND	ND	ND	ND	ND	ND	ND
Total PAHs (µg/L)	ND	ND	ND	ND	**0.56**	ND	ND

Location Name	MW-05				
Sample Date	8/4/2005	1/19/2011	10/18/2011	1/24/2012	1/20/2023
Total BTEX (µg/L)	ND	ND	ND	ND	ND
Total PAHs (µg/L)	ND	ND	ND	ND	ND

Location Name	MW-14
Sample Date	9/25/2014
Total BTEX (µg/L)	ND
Total PAHs (µg/L)	ND

Location Name	MW-101
Sample Date	1/19/2023
Total BTEX (µg/L)	ND
Total PAHs (µg/L)	ND

Location Name	MW-102
Sample Date	1/19/2023
Total BTEX (µg/L)	ND
Total PAHs (µg/L)	ND

Location Name	MW-07						
Sample Date	1/20/2011	10/19/2011	1/23/2012	1/23/2012 [DUP]	3/21/2013	9/25/2014	1/19/2023
Total BTEX (µg/L)	**0.44**	**6030**	**4570**	**5380**	**2205**	**8190**	**4880**
Total PAHs (µg/L)	**3.73**	**3655.6**	**1026.4**	**1643.8**	**445.06**	**1972.3**	**1600**

Location Name	MW-11D			
Sample Date	1/20/2011	10/19/2011	1/23/2012	1/19/2023
Total BTEX (µg/L)	ND	ND	ND	ND
Total PAHs (µg/L)	ND	ND	ND	ND

Location Name	MW-03					
Sample Date	12/30/2003	8/3/2005	1/19/2011	10/19/2011	1/24/2012	1/19/2023
Total BTEX (µg/L)	ND	ND	ND	ND	ND	ND
Total PAHs (µg/L)	ND	ND	ND	ND	ND	ND

Location Name	MW-06								
Sample Date	8/4/2005	8/4/2005 [DUP]	1/20/2011	1/20/2011 [DUP]	10/18/2011	1/24/2012	3/21/2013	9/25/2014	1/20/2023
Total BTEX (µg/L)	**2620**	**2070**	**0.4**	**0.43**	**16.35**	**0.64**	**2700**	**9.41**	ND
Total PAHs (µg/L)	**1995**	**2112**	**6.22**	**5.4**	**18.59**	ND	**1550.4**	**12.23**	ND

Location Name	MW-04A	
Sample Date	1/23/2012	4/27/2023
Total BTEX (µg/L)	**0.11**	**6.8**
Total PAHs (µg/L)	ND	ND

Location Name	MW-04			
Sample Date	8/3/2005	1/19/2011	1/20/2023	1/20/2023 [DUP]
Total BTEX (µg/L)	ND	ND	ND	ND
Total PAHs (µg/L)	**9**	ND	**25.7**	**24.9**

Location Name	MW-12D				
Sample Date	1/19/2011	10/19/2011	10/19/2011 [DUP]	1/24/2012	1/19/2023
Total BTEX (µg/L)	ND	ND	ND	ND	ND
Total PAHs (µg/L)	ND	ND	ND	ND	ND

NOTES:

1. HORIZONTAL DATUM: NEW YORK STATE PLANE COORDINATE SYSTEM, CENTRAL ZONE, (NAD 83).
2. VERTICAL DATUM: NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD 29).
3. LOCATIONS OF SOME HISTORIC FEATURES ADJUSTED BASED ON FIELD OBSERVATIONS.

0 60 120

SCALE, FEET

Pre-Design Investigation Results Report
Canastota Non-Owned Former MGP Site
Canastota, New York

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GROUNDWATER ANALYTICAL RESULTS - TOTAL BTEX (ug/L)

Project 034390 | August 2023 | Fig. 9

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SOURCES:

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LEGEND:

- SITE PROPERTY BOUNDARY
- OFFSITE PROPERTY BOUNDARY
- CHAIN-LINK FENCE
- EXISTING STRUCTURE
- HISTORIC STRUCTURE
- MW-01 MONITORING WELL
- ND NOT DETECTED
- BTEX BENZENE, TOLUENE, ETHYLBENZENE, XYLENES
- PAHs POLYCYCLIC AROMATIC HYDROCARBONS
- µg/L MICROGRAMS PER LITER
- **0.11** BOLD INDICATES DETECTED COMPOUNDS
- —1— TOTAL PAHs ISOCONCENTRATION (µg/L) (JANUARY AND APRIL 2023)

Location Name	MW-14
Sample Date	9/25/2014
Total BTEX (µg/L)	ND
Total PAHs (µg/L)	ND

Location Name	MW-101
Sample Date	1/19/2023
Total BTEX (µg/L)	ND
Total PAHs (µg/L)	ND

Location Name	MW-10							
Sample Date	1/20/2011	10/18/2011	1/23/2012	3/21/2013	3/21/2013 [DUP]	9/25/2014	9/25/2014 [DUP]	1/20/2023
Total BTEX (µg/L)	**1620**	**1390**	**1540**	**1130**	**1210**	**1212**	**1570**	**2890**
Total PAHs (µg/L)	**2578.06**	**1962.3**	**1813.48**	**2029.6**	**1988.2**	**1764.9**	**2367.5**	**2726.4**

Location Name	MW-09			
Sample Date	1/20/2011	10/18/2011	1/23/2012	1/19/2023
Total BTEX (µg/L)	**0.43**	ND	**0.19**	ND
Total PAHs (µg/L)	**4.39**	**0.84**	**0.78**	**40.6**

Location Name	MW-01					
Sample Date	12/30/2003	8/3/2005	1/19/2011	10/18/2011	1/24/2012	1/19/2023
Total BTEX (µg/L)	ND	ND	ND	ND	ND	ND
Total PAHs (µg/L)	ND	ND	ND	ND	ND	ND

Location Name	MW-13	
Sample Date	1/23/2012	1/19/2023
Total BTEX (µg/L)	ND	ND
Total PAHs (µg/L)	ND	**1.7**

Location Name	MW-102
Sample Date	1/19/2023
Total BTEX (µg/L)	ND
Total PAHs (µg/L)	ND

Location Name	MW-07						
Sample Date	1/20/2011	10/19/2011	1/23/2012	1/23/2012 [DUP]	3/21/2013	9/25/2014	1/19/2023
Total BTEX (µg/L)	**0.44**	**6030**	**4570**	**5380**	**2205**	**8190**	**4880**
Total PAHs (µg/L)	**3.73**	**3655.6**	**1026.4**	**1643.8**	**445.06**	**1972.3**	**1600**

Location Name	MW-11D			
Sample Date	1/20/2011	10/19/2011	1/23/2012	1/19/2023
Total BTEX (µg/L)	ND	ND	ND	ND
Total PAHs (µg/L)	ND	ND	ND	ND

Location Name	MW-03					
Sample Date	12/30/2003	8/3/2005	1/19/2011	10/19/2011	1/24/2012	1/19/2023
Total BTEX (µg/L)	ND	ND	ND	ND	ND	ND
Total PAHs (µg/L)	ND	ND	ND	ND	ND	ND

Location Name	MW-06								
Sample Date	8/4/2005	8/4/2005 [DUP]	1/20/2011	1/20/2011 [DUP]	10/18/2011	1/24/2012	3/21/2013	9/25/2014	1/20/2023
Total BTEX (µg/L)	**2620**	**2070**	**0.4**	**0.43**	**16.35**	**0.64**	**2700**	**9.41**	ND
Total PAHs (µg/L)	**1995**	**2112**	**6.22**	**5.4**	**18.59**	ND	**1550.4**	**12.23**	ND

Location Name	MW-04A	
Sample Date	1/23/2012	4/27/2023
Total BTEX (µg/L)	**0.11**	**6.8**
Total PAHs (µg/L)	ND	ND

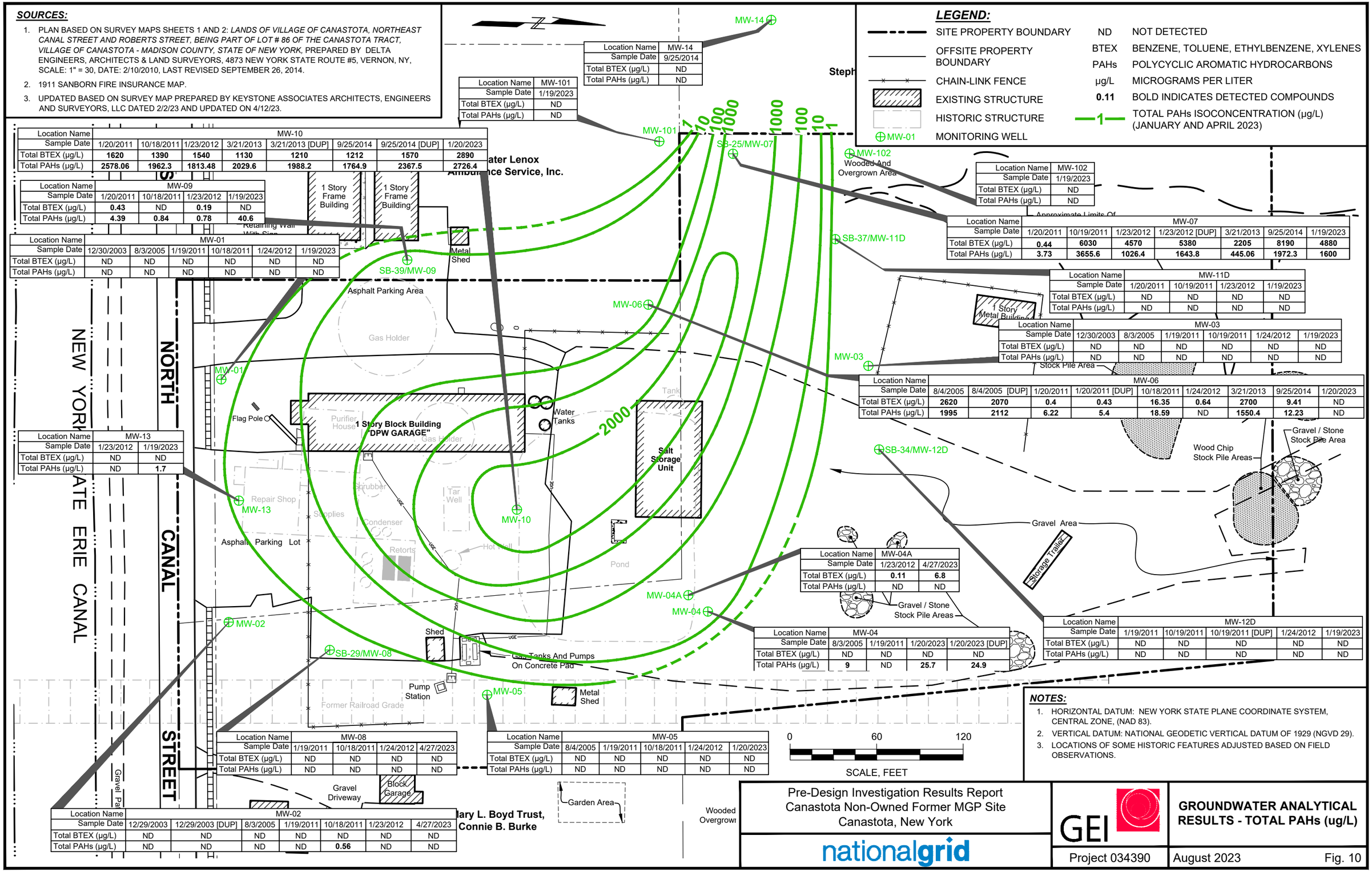
Location Name	MW-04			
Sample Date	8/3/2005	1/19/2011	1/20/2023	1/20/2023 [DUP]
Total BTEX (µg/L)	ND	ND	ND	ND
Total PAHs (µg/L)	**9**	ND	**25.7**	**24.9**

Location Name	MW-12D				
Sample Date	1/19/2011	10/19/2011	10/19/2011 [DUP]	1/24/2012	1/19/2023
Total BTEX (µg/L)	ND	ND	ND	ND	ND
Total PAHs (µg/L)	ND	ND	ND	ND	ND

Location Name	MW-08				
Sample Date	1/19/2011	10/18/2011	1/24/2012	4/27/2023	
Total BTEX (µg/L)	ND	ND	ND	ND	
Total PAHs (µg/L)	ND	ND	ND	ND	

Location Name	MW-05				
Sample Date	8/4/2005	1/19/2011	10/18/2011	1/24/2012	1/20/2023
Total BTEX (µg/L)	ND	ND	ND	ND	ND
Total PAHs (µg/L)	ND	ND	ND	ND	ND

Location Name	MW-02						
Sample Date	12/29/2003	12/29/2003 [DUP]	8/3/2005	1/19/2011	10/18/2011	1/23/2012	4/27/2023
Total BTEX (µg/L)	ND	ND	ND	ND	ND	ND	ND
Total PAHs (µg/L)	ND	ND	ND	ND	**0.56**	ND	ND



0 60 120

SCALE, FEET

NOTES:

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Pre-Design Investigation Results Report
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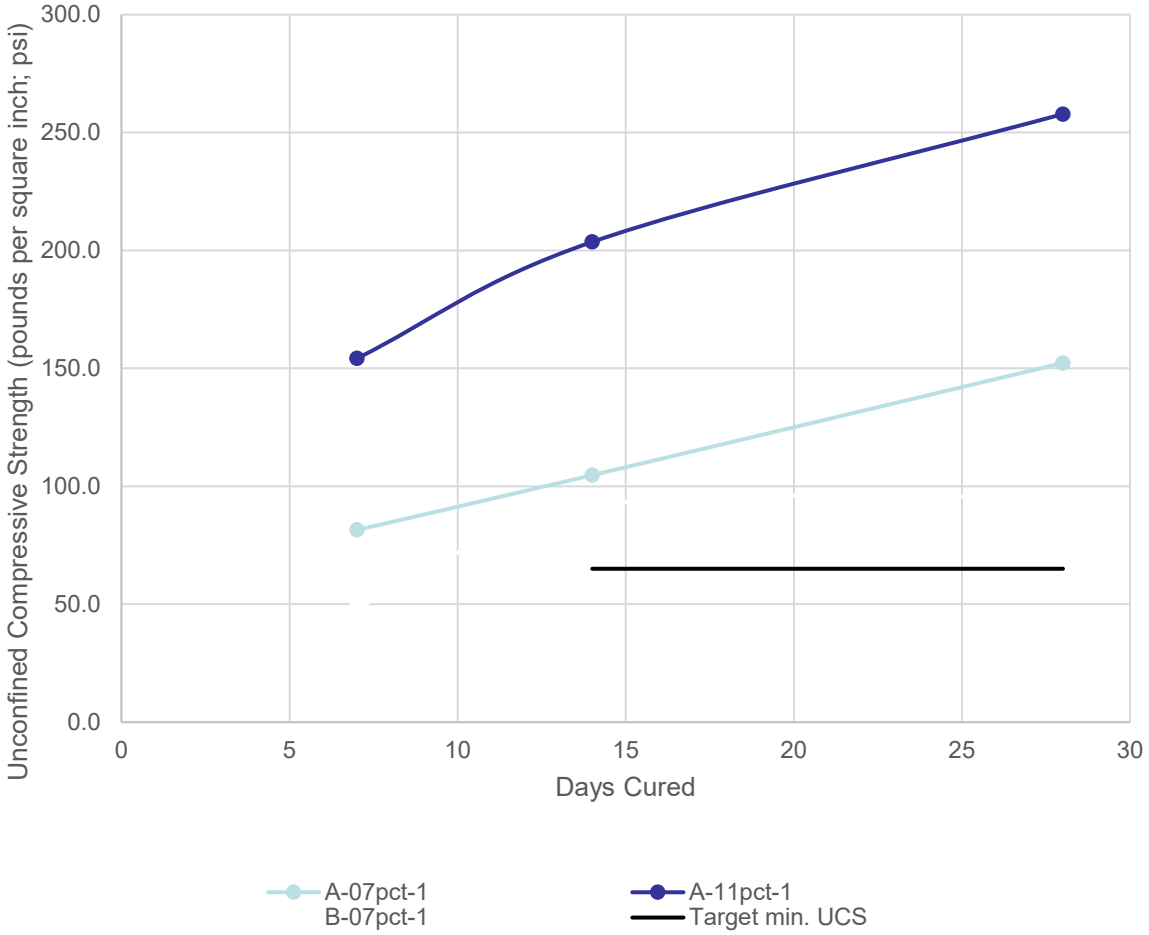
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GROUNDWATER ANALYTICAL RESULTS - TOTAL PAHs (ug/L)

Project 034390 | August 2023 | Fig. 10

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REMEDIAL INVESTIGATION REPORT
CANASTOTA NON-OWNED FORMER MGP SITE
CANASTOTAT, NEW YORK

nationalgrid

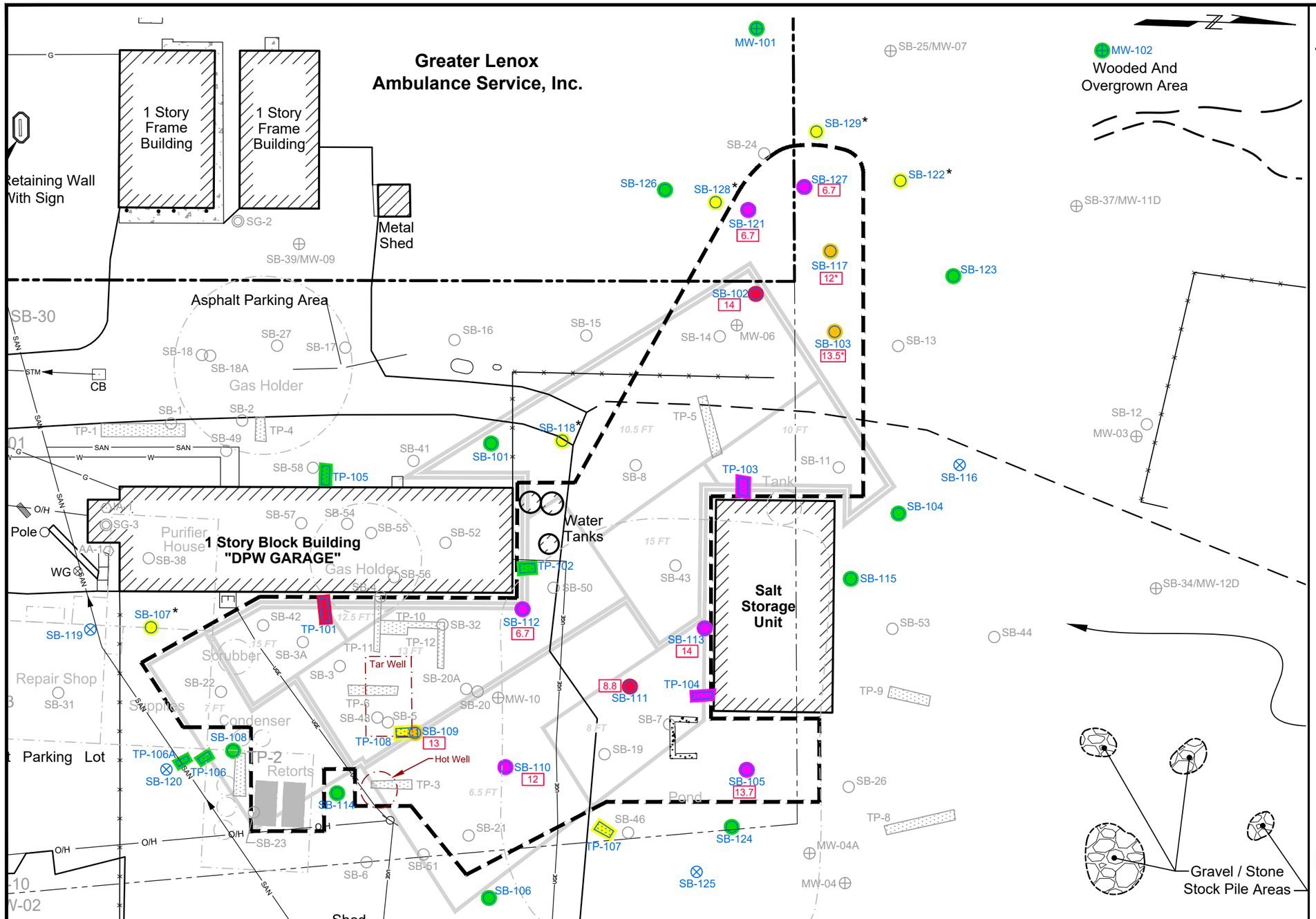
GEI Consultants

Round 1 Mix Strength Gain

Project 034390

June 2023

Fig. 11



LEGEND:

- SITE PROPERTY BOUNDARY
- OFFSITE PROPERTY BOUNDARY
- CHAIN-LINK FENCE
- EXISTING STRUCTURE
- HISTORIC STRUCTURE
- HISTORIC STRUCTURE TO BE REMOVED
- MW-102 — MONITORING WELL
- SB-124 — SOIL BORING
- SB-120 — CONTINGENT LOCATION NOT ADVANCED
- TP-106 — TEST PIT
- MW-01 — MONITORING WELL (PREVIOUS INVESTIGATION)
- SB-19 — SOIL BORING (PREVIOUS INVESTIGATION)
- SS-01 — SOIL SAMPLE (PREVIOUS INVESTIGATION)
- TP-1 — TEST PIT (PREVIOUS INVESTIGATION)
- IA-1 — AIR SAMPLE (PREVIOUS INVESTIGATION)
- SG-3 — SOIL VAPOR SAMPLE POINT (PREVIOUS INVESTIGATION)
- G — GAS LINE
- SAN — SANITARY SEWER LINE
- STM — STORM SEWER LINE
- W — WATER LINE
- UGE — UNDERGROUND ELECTRIC LINE
- UTILITY POLE
- CB — CATCH BASIN
- GV — GAS VALVE
- WG — WATER VALVE
- TAR SATURATED
- COATED MATERIAL, LENSES
- BLEBS, GLOBS, SHEEN
- STAINING, ODOR
- NO PHYSICAL IMPACTS
- * — ONLY ODOR OBSERVED
- 6.7 — PROPOSED DEPTH OF REMEDIATION
- 7 FT — FORMER REMEDIAL AREA
- PROPOSED REVISED REMEDIAL AREA

0 40 80

SCALE, FEET

SOURCES:

1. PLAN BASED ON SURVEY MAPS SHEETS 1 AND 2: *LANDS OF VILLAGE OF CANASTOTA, NORTHEAST CANAL STREET AND ROBERTS STREET, BEING PART OF LOT # 86 OF THE CANASTOTA TRACT, VILLAGE OF CANASTOTA - MADISON COUNTY, STATE OF NEW YORK,* PREPARED BY DELTA ENGINEERS, ARCHITECTS & LAND SURVEYORS, 4873 NEW YORK STATE ROUTE #5, VERNON, NY, SCALE: 1" = 30, DATE: 2/10/2010, LAST REVISED JANUARY 20, 2011.
2. 1911 SANBORN FIRE INSURANCE MAP.
3. UPDATED BASED ON SURVEY MAP PREPARED BY KEYSTONE ASSOCIATES ARCHITECTS, ENGINEERS AND SURVEYORS, LLC DATED 2/2/23 AND UPDATED ON 4/12/23.

NOTES:

1. HORIZONTAL DATUM: NEW YORK STATE PLANE COORDINATE SYSTEM, CENTRAL ZONE, (NAD 83).
2. VERTICAL DATUM: NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD 29).
3. LOCATIONS OF SOME HISTORIC FEATURES ADJUSTED BASED ON FIELD OBSERVATIONS.

Pre-Design Investigation Results Report
Canastota Non-Owned Former MGP Site
Canastota, New York

nationalgrid

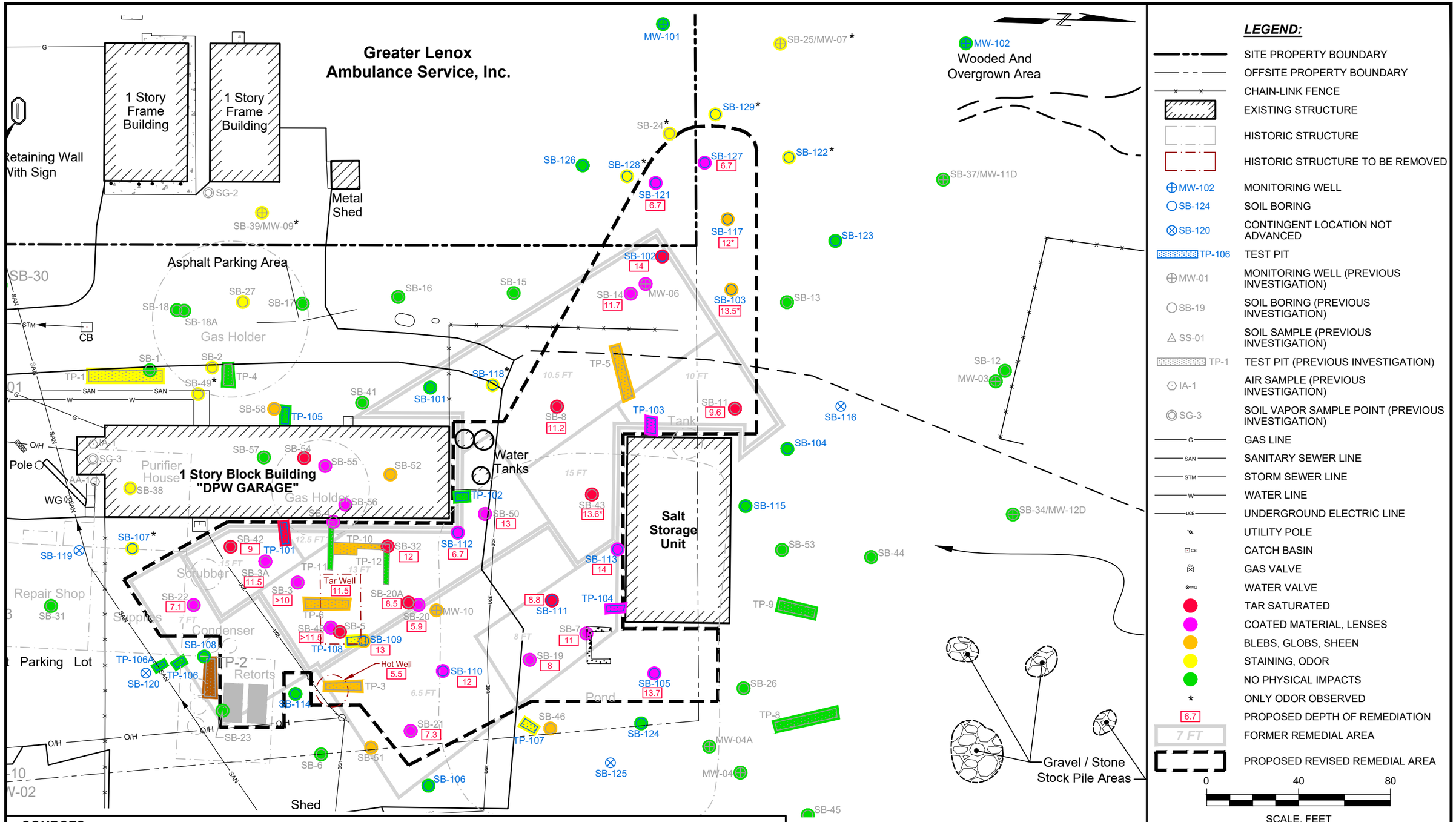
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Project 034390

**IMPACT DEPTHS
PDI INVESTIGATION
LOCATIONS**

August 2023 Fig. 12

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SOURCES:

1. PLAN BASED ON SURVEY MAPS SHEETS 1 AND 2: *LANDS OF VILLAGE OF CANASTOTA, NORTHEAST CANAL STREET AND ROBERTS STREET, BEING PART OF LOT # 86 OF THE CANASTOTA TRACT, VILLAGE OF CANASTOTA - MADISON COUNTY, STATE OF NEW YORK,* PREPARED BY DELTA ENGINEERS, ARCHITECTS & LAND SURVEYORS, 4873 NEW YORK STATE ROUTE #5, VERNON, NY, SCALE: 1" = 30, DATE: 2/10/2010, LAST REVISED JANUARY 20, 2011.
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NOTES:

1. HORIZONTAL DATUM: NEW YORK STATE PLANE COORDINATE SYSTEM, CENTRAL ZONE, (NAD 83).
2. VERTICAL DATUM: NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD 29).
3. LOCATIONS OF SOME HISTORIC FEATURES ADJUSTED BASED ON FIELD OBSERVATIONS.

Pre-Design Investigation Results Report
Canastota Non-Owned Former MGP Site
Canastota, New York

nationalgrid

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Project 034390

**IMPACT DEPTHS
ALL INVESTIGATION
LOCATIONS**

August 2023 Fig. 13

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Attachment A

Test Pit, Boring, and Monitoring Well Logs

Boring Location

NORTHING: _____ **EASTING:** _____ **STATION:** _____ **OFFSET:** _____
HORIZONTAL DATUM: NGVD-29 **STATION CENTERLINE:** _____
VERTICAL DATUM: NVGD 29 **ESTIMATED GROUND SURFACE ELEV. (FT):** 421.4
LOCATION: _____

BORING

MW-101

PAGE 1 of 1

Drilling Information

DATE START / END: 12/5/2022 - 12/13/2022 **TOTAL DEPTH (FT):** 16.0
CONTRACTOR: Parratt Wolf **DRILLER:** Mark Eaves **LOGGED BY:** B.Pabst
EQUIPMENT: GeoProbe 7822 DT **BORING METHOD:** Geoprobe/Hollow Stem Auger
AUGER ID/OD: 4.25 in / 8 in **CASING ID/OD:** N/A / N/A **CORE INFO:** _____
HAMMER TYPE: N/A **HAMMER WEIGHT (lbs):** N/A **HAMMER DROP (inch):** N/A
WATER LEVEL DEPTHS (ft): ▽ 0.50 7/23/2015
GENERAL NOTES: _____

ABBREVIATIONS:
ID = Inside Diameter; OD = Outside Diameter; Pen. = Penetration Length; Rec. = Recovery Length
bpf = Blows per Foot; mpf = Minute per Foot; S = Split Spoon; DP = Direct Push Sample
U = Undistrubed Tube Sample; C = Rock Core; V = Field Vane Shear; SC = Sonic Core
WOR = Weight of Rods; WOH = Weight of Hammer; RQD = Rock Quality Designation; OVM = Organic Vapor Meter
Q_v = Pocket Penetrometer Strength; S_v = Pocket Torvane Shear Strength; F_v = Field Vane Shear Strength; NA, NM = Not Applicable, Not Measured

Elev. (ft)	Depth (ft)	Casing Pen. (bpf) or Core Rate (mpf)	SAMPLE INFORMATION: Sample No.	Type	Depth (ft)	Pen./ Rec. (in)	Blows Count or RQD	N60	GRAPHIC LOG	Sample Description & Classification	H_2O Depth	Remarks
420										Topsoil with phragmites roots. Fine SAND - course SILT brown, wet. Gravel round-angular. No odor or sheen.	▽	Hand cleared to 4'3"
	5		S1		4.3 to 8.3	48/29				S1: (0-3") GRAVEL with Silt (GM), brown, wet. (3-29") SAND (SP) brown-black, wet, no odor or sheen.		0.6ppm
415			S2		8 to 12	48/37				S2: (0-14") SAND and SILT 10%, gravel (SP-SM), lt. brown. (14-25") SILT and CLAY (CL), 5% GRAVEL, brown. (25-37") TILL		0.1ppm
	10											
410			S3		12 to 16	48/34				S3: (0-34") lean CLAY and SILT, with gravel (CL), dense, hard, red, dry, no odor or sheen. TILL		0.1ppm
	15											
405										End of Boring at 16 feet		
	20											
400												

Stratification lines represent approximate boundary between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

CLIENT: National Grid
PROJECT NAME: Canastota MGP
CITY/STATE: Canastota, NY
GEI PROJECT NUMBER: 034390

GEI Consultants, Inc.
455 Winding Brook Drive
Glastonbury, CT 06033
(860) 368-5300

GEOTECHNICAL BORING LOG 02 034390.GPJ GEI DATA TEMPLATE.GDT 6/16/23

Boring Location

NORTHING: _____ **EASTING:** _____ **STATION:** _____ **OFFSET:** _____
HORIZONTAL DATUM: NGVD-29 **STATION CENTERLINE:** _____
VERTICAL DATUM: NVGD 29 **ESTIMATED GROUND SURFACE ELEV. (FT):** 420.9
LOCATION: _____

BORING

MW-102

PAGE 1 of 1

Drilling Information

DATE START / END: 12/5/2022 - 12/12/2022 **TOTAL DEPTH (FT):** 16.0
CONTRACTOR: Parratt Wolf **DRILLER:** Mark Eaves **LOGGED BY:** B.Pabst
EQUIPMENT: GeoProbe 7822 DT **BORING METHOD:** Geoprobe/Hollow Stem Auger
AUGER ID/OD: 4.25 in / 8 in **CASING ID/OD:** N/A / N/A **CORE INFO:** _____
HAMMER TYPE: N/A **HAMMER WEIGHT (lbs):** N/A **HAMMER DROP (inch):** N/A
WATER LEVEL DEPTHS (ft): ▽ 4.25 12/12/2022
GENERAL NOTES: _____

ABBREVIATIONS:
ID = Inside Diameter; OD = Outside Diameter; Pen. = Penetration Length; Rec. = Recovery Length
bpf = Blows per Foot; mpf = Minute per Foot; S = Split Spoon; DP = Direct Push Sample
U = Undistrubed Tube Sample; C = Rock Core; V = Field Vane Shear; SC = Sonic Core
WOR = Weight of Rods; WOH = Weight of Hammer; RQD = Rock Quality Designation; OVM = Organic Vapor Meter
Q_v = Pocket Penetrometer Strength; S_v = Pocket Torvane Shear Strength; F_v = Field Vane Shear Strength; NA, NM = Not Applicable, Not Measured

Elev. (ft)	Depth (ft)	Casing Pen. (bpf) or Core Rate (mpf)	SAMPLE INFORMATION: Sample No.	Type	Depth (ft)	Pen./ Rec. (in)	Blows Count or RQD	N60	GRAPHIC LOG	Sample Description & Classification	H_2O Depth	Remarks
420										0-2' Topsoil 2-4' SILT (ML) Dense	▽	Hand cleared to 4'3"
	5		S1		4.5 to 8.5	48/34				S1: SILT/CLAY (ML) with interbelled Sand, dense, brown, no odor or sheen.		0 ppm
415			S2		8 to 12	48/38				S2: Similar to S1		0 ppm
	10		S3		12 to 16	48/40				S3: Similar to S1		0 ppm
410												
	15											
405										End of Boring at 16 feet		
	20											
400												

Stratification lines represent approximate boundary between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

CLIENT: National Grid
PROJECT NAME: Canastota MGP
CITY/STATE: Canastota, NY
GEI PROJECT NUMBER: 034390

GEI Consultants, Inc.
455 Winding Brook Drive
Glastonbury, CT 06033
(860) 368-5300

GEOTECHNICAL BORING LOG 02 034390.GPJ GEI DATA TEMPLATE.GDT 6/16/23

Boring Location

NORTHING: _____ **EASTING:** _____ **STATION:** _____ **OFFSET:** _____
HORIZONTAL DATUM: NGVD-29 **STATION CENTERLINE:** _____
VERTICAL DATUM: NVGD 29 **ESTIMATED GROUND SURFACE ELEV. (FT):** 426.0
LOCATION: _____

BORING

SB-101

PAGE 1 of 1

Drilling Information

DATE START / END: 9/16/2022 - 9/16/2022 **TOTAL DEPTH (FT):** 21.0
CONTRACTOR: Parratt Wolf **DRILLER:** Mark Eaves **LOGGED BY:** B.Pabst
EQUIPMENT: GeoProbe 7822 DT **BORING METHOD:** Geoprobe/Hollow Stem Auger
AUGER ID/OD: N/A / N/A **CASING ID/OD:** N/A / N/A **CORE INFO:** _____
HAMMER TYPE: N/A **HAMMER WEIGHT (lbs):** N/A **HAMMER DROP (inch):** N/A
WATER LEVEL DEPTHS (ft): _____
GENERAL NOTES: _____

ABBREVIATIONS:
ID = Inside Diameter; OD = Outside Diameter; Pen. = Penetration Length; Rec. = Recovery Length
bpf = Blows per Foot; mpf = Minute per Foot; S = Split Spoon; DP = Direct Push Sample
U = Undistrubed Tube Sample; C = Rock Core; V = Field Vane Shear; SC = Sonic Core
WOR = Weight of Rods; WOH = Weight of Hammer; RQD = Rock Quality Designation; OVM = Organic Vapor Meter
Q_v = Pocket Penetrometer Strength; S_v = Pocket Torvane Shear Strength; F_v = Field Vane Shear Strength; NA, NM = Not Applicable, Not Measured

Elev. (ft)	Depth (ft)	Casing Pen. (bpf) or Core Rate (mpf)	SAMPLE INFORMATION: Sample No.	Type	Depth (ft)	Pen./ Rec. (in)	Blows Count or RQD	N60	GRAPHIC LOG	Sample Description & Classification	H_20 Depth	Remarks
425										Vacuum excavation to 4.5' on 9/12/22. (0-6") grass/sod. (6-24") SILT, some gravel, hard, roots to 3'6". Concrete pieces at 2-2.5'. Water at 4'3".		
	5		S1		5 to 7	24/6	2-2-1-2			S1: FILL, SILT and SAND, brown, damp, glass shards, no odor.		
420			S2		7 to 9	24/6	2-3-5-7			S2: SILT, light brown, moist, some dark brown clay inclusions. (ML) slight odor		
			S3		9 to 11	24/22	2-2-2-2			S3: Sand and Silt, fine to very fine, brown, wet, soft, no odor.		
	10											
415			S4		11 to 13	24/24	2-3-2-3			S4: SAND, trace silt, fine, brown, moist, increased firmness.		
			S5		13 to 15	24/7	1-1-1-5			S5: Upper position of sample lost- presume it was sand washed-out. (0-7") CLAY, brown, wet, soft at top. Grading to dense at bottom, trace odor. (CL)		
	15		S6		15 to 17	24/14	6-11-17-17			S6: (0-9") SILT, red, damp, grades from soft at top to firm at base. (9-14") SILT and CLAY, trace sand and gravel, hard, red, odor in water. (CL)		
410			S7		17 to 19	24	15-15-29-32			S7: NR, Rock in tip		
			S8		19 to 20.25	15/7	36-45-50/3-0			S8: Same as S6		
	20											
405										End of Boring at 21 feet		

Stratification lines represent approximate boundary between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

CLIENT: National Grid
PROJECT NAME: Canastota MGP
CITY/STATE: Canastota, NY
GEI PROJECT NUMBER: 034390

GEI Consultants, Inc.
455 Winding Brook Drive
Glastonbury, CT 06033
(860) 368-5300

GEOTECHNICAL BORING LOG 02 034390.GPJ GEI DATA TEMPLATE.GDT 6/16/23

Boring Location

NORTHING: _____ **EASTING:** _____ **STATION:** _____ **OFFSET:** _____

HORIZONTAL DATUM: NGVD-29 **STATION CENTERLINE:** _____

VERTICAL DATUM: NVGD 29 **ESTIMATED GROUND SURFACE ELEV. (FT):** 424.6

LOCATION: _____

BORING

SB-102

PAGE 1 of 2

Drilling Information

DATE START / END: 9/19/2022 - 9/19/2022 **TOTAL DEPTH (FT):** 47.0

CONTRACTOR: Parratt Wolf **DRILLER:** Mark Eaves **LOGGED BY:** B.Pabst

EQUIPMENT: GeoProbe 7822 DT **BORING METHOD:** Geoprobe/Hollow Stem Auger

AUGER ID/OD: N/A / N/A **CASING ID/OD:** N/A / N/A **CORE INFO:** _____

HAMMER TYPE: N/A **HAMMER WEIGHT (lbs):** N/A **HAMMER DROP (inch):** N/A

WATER LEVEL DEPTHS (ft): _____

GENERAL NOTES: _____

ABBREVIATIONS:
ID = Inside Diameter; OD = Outside Diameter; Pen. = Penetration Length; Rec. = Recovery Length
bpf = Blows per Foot; mpf = Minute per Foot; S = Split Spoon; DP = Direct Push Sample
U = Undistrubed Tube Sample; C = Rock Core; V = Field Vane Shear; SC = Sonic Core
WOR = Weight of Rods; WOH = Weight of Hammer; RQD = Rock Quality Designation; OVM = Organic Vapor Meter
Q_v = Pocket Penetrometer Strength; S_v = Pocket Torvane Shear Strength; F_v = Field Vane Shear Strength; NA, NM = Not Applicable, Not Measured

Elev. (ft)	Depth (ft)	Casing Pen. (bpf) or Core Rate (mpf)	SAMPLE INFORMATION: Sample No.	Type	Depth (ft)	Pen./ Rec. (in)	Blows Count or RQD	N60	GRAPHIC LOG	Sample Description & Classification	H_20 Depth	Remarks
										(0-12") grass (12-18") SILT (ML) brown, tree roots (18-36") LEAN CLAY with Sand (CL) little gravel (36-43") Concrete		Vacuum excavation to 3'
420	5		S1		4 to 6	24/15	WOH-2-3-5			S1: Clayey SILT (ML), brown, moist. Pen 0.2		1.5 ppm
			S2		6 to 8	24/18	4-3-1-1			S2: (0-6") GRAVEL with fine sand and silt, dark brown, wet (GP-GM) (6-18") SILT (ML), fine sand, dark brown, (11.5-18") contains NAPL.		250 ppm
			S3		8 to 10	24/6	3-4-4-5			S3: (0-2") GRAVEL with SILT, (2-4") SILT, (4-6") GRAVEL with SILT, wet, loose, some odor.		54 ppm
415	10		S4		10 to 12	24/19	2-2-4-4			S4: SAND, fine, brown, wet, NAPL blebs and streaks		190 ppm
			S5		12 to 14	24/24	4-4-2-2			S5: (0-11") SILT with clay, <10% sand and gravel, very soft. NAPL blebs and seams. (11-24") CLAY, soft, grey/brown. NAPL blebs and seams.		385 ppm
410	15		S6		14 to 16	24/24	4-4-6-7			S6: (0-16") SILT and Fine SAND. (16-24") CLAY, very firm, red.		319 ppm 15 ppm
			S7		16 to 18	24/24	7-9-16-12			S7: (0-20") CLAY, red, increasing in hardness with depth, very cohesive, Pen=1.5. (20-24") TILL, red, Pen=>4.5		2.7 ppm
			S8		18 to 20	24/12	12-16-17-22			S8: TILL; Lean CLAY, <15% fine gravel, hard, brittle		74 ppm
405	20		S9		20 to 22	24/7	12-16-16-20			S9: Similar to S8. P=>4.5		64 ppm
400												

Stratification lines represent approximate boundary between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

CLIENT: National Grid
PROJECT NAME: Canastota MGP
CITY/STATE: Canastota, NY
GEI PROJECT NUMBER: 034390

GEI Consultants, Inc.
455 Winding Brook Drive
Glastonbury, CT 06033
(860) 368-5300

GEOTECHNICAL BORING LOG 02 034390.GPJ GEI DATA TEMPLATE.GDT 6/16/23

Boring Location

NORTHING: _____ **EASTING:** _____ **STATION:** _____ **OFFSET:** _____

HORIZONTAL DATUM: NGVD-29 **STATION CENTERLINE:** _____

VERTICAL DATUM: NVGD 29 **ESTIMATED GROUND SURFACE ELEV. (FT):** 424.6

LOCATION: _____

BORING

SB-102

Elev. (ft)	Depth (ft)	Casing Pen. (bpf) or Core Rate (mpf)	SAMPLE INFORMATION: Sample No.	Type	Depth (ft)	Pen./ Rec. (in)	Blows Count or RQD	N60	GRAPHIC LOG	Sample Description & Classification	H_20 Depth	Remarks
395	30		S10		25 to 26.7	20/6	33-39-50/3			S10: Similar to S8.		
			S11		30 to 30.6	7/2	100/2			S10: Similar to S8.		
390	35		S12		35 to 36.3	16/8	30-39-50/3			S10: Similar to S8.		
385	40		S13		40 to 40.4	5/5	100/4			S10: Similar to S8.		
380	45		S14		45 to 45.4	5/5	100/4			S10: Similar to S8.		
										End of Boring at 47 feet		
375	50											
370	55											

Stratification lines represent approximate boundary between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

CLIENT: National Grid
PROJECT NAME: Canastota MGP
CITY/STATE: Canastota, NY
GEI PROJECT NUMBER: 034390

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455 Winding Brook Drive
Glastonbury, CT 06033
(860) 368-5300

GEOTECHNICAL BORING LOG 02 034390.GPJ GEI DATA TEMPLATE.GDT 6/16/23

Boring Location

NORTHING: _____ **EASTING:** _____ **STATION:** _____ **OFFSET:** _____
HORIZONTAL DATUM: NGVD-29 **STATION CENTERLINE:** _____
VERTICAL DATUM: NVGD 29 **ESTIMATED GROUND SURFACE ELEV. (FT):** 424.9
LOCATION: _____

BORING

SB-103

PAGE 1 of 2

Drilling Information

DATE START / END: 9/16/2022 - 9/16/2022 **TOTAL DEPTH (FT):** 24.0
CONTRACTOR: Parratt Wolf **DRILLER:** Mark Eaves **LOGGED BY:** B.Pabst
EQUIPMENT: GeoProbe 7822 DT **BORING METHOD:** Geoprobe/Hollow Stem Auger
AUGER ID/OD: N/A / N/A **CASING ID/OD:** N/A / N/A **CORE INFO:** _____
HAMMER TYPE: N/A **HAMMER WEIGHT (lbs):** N/A **HAMMER DROP (inch):** N/A
WATER LEVEL DEPTHS (ft): _____
GENERAL NOTES: _____

ABBREVIATIONS:
ID = Inside Diameter; OD = Outside Diameter; Pen. = Penetration Length; Rec. = Recovery Length
bpf = Blows per Foot; mpf = Minute per Foot; S = Split Spoon; DP = Direct Push Sample
U = Undistrubed Tube Sample; C = Rock Core; V = Field Vane Shear; SC = Sonic Core
WOR = Weight of Rods; WOH = Weight of Hammer; RQD = Rock Quality Designation; OVM = Organic Vapor Meter
Q_v = Pocket Penetrometer Strength; S_v = Pocket Torvane Shear Strength; F_v = Field Vane Shear Strength; NA, NM = Not Applicable, Not Measured

Elev. (ft)	Depth (ft)	Casing Pen. (bpf) or Core Rate (mpf)	Sample No.	Type	Depth (ft)	Pen./ Rec. (in)	Blows Count or RQD	N60	GRAPHIC LOG	Sample Description & Classification	H_2O Depth	Remarks
										(0-12") TOPSOIL, SOD (6-30") large rocks and concrete pieces (30-42") caving, soft soil (42-48") concrete pieces		Hand clear to 4.3'
420	5		S1		5 to 7	24/15	4-5-4-4			S1: (0-2") large rocks and concrete pieces. (2"-6") CLAY, plastic, dark gray, moist, firm. (6-16") SILT, non-cohesive, moist, firm, trace odor.		242 ppm
			S2		6 to 8	24/5	4-4-4-4			S2: (0-5") SAND and GRAVEL, loose, <10% fines		368 ppm
			S3		8 to 10	24/16	WOH-WOH-WOH-1			S3: (0-8") Fine SAND, loose, brown, wet. (8-16") SILT, brown, wet, heavy sheen.		394 ppm
415	10		S4		10 to 12	24/0	1-1-1-1			S4: No recovery, Sheen on outisde of spoon, strong odor.		
			S5		12 to 14	24/24	3-2-3-5			S5: (0-7") SILT, soft, heavy sheen and NAPL blebs. (7-12") CLAY with silt, soft, red, NAPL blebs. (19-24") SILT trace gravel, slight odor.		352 ppm 40 ppm
410	15		S6		14 to 16	24/15	6-6-14-21			S6: (0-15") SILT, some clay, hard, laminated, dark red, brittle, dry		101 ppm
			S7		16 to 18	24/10	15-19-24-27			S7: (0-10") Similar to S6		161 ppm
			S8		18 to 20	24/24	15-16-24-31			S8: Similar to S6		2.7 ppm
405	20		S9		20 to 22	24/11	16-16-24-29			S9: (0-6") Similar to S6. (6-11") TILL, SILT, little clay, trace gravel, hard, brittle,red		18.5 ppm
			S10		22 to 24	24/10	20-21-36-44			S10: (0-10") TILL, SILT, little clay, trace gravel, hard, brittle,red		6.9 ppm

Stratification lines represent approximate boundary between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

CLIENT: National Grid
PROJECT NAME: Canastota MGP
CITY/STATE: Canastota, NY
GEI PROJECT NUMBER: 034390

GEI Consultants, Inc.
455 Winding Brook Drive
Glastonbury, CT 06033
(860) 368-5300

GEOTECHNICAL BORING LOG 02 034390.GPJ GEI DATA TEMPLATE.GDT 6/16/23

Boring Location

NORTHING: _____ **EASTING:** _____ **STATION:** _____ **OFFSET:** _____

HORIZONTAL DATUM: NGVD-29 **STATION CENTERLINE:** _____

VERTICAL DATUM: NVGD 29 **ESTIMATED GROUND SURFACE ELEV. (FT):** 424.9

LOCATION: _____

BORING

SB-103

Elev. (ft)	Depth (ft)	Casing Pen. (bpf) or Core Rate (mpf)	SAMPLE INFORMATION: Sample No.	Type	Depth (ft)	Pen./ Rec. (in)	Blows Count or RQD	N60	GRAPHIC LOG	Sample Description & Classification	H_20 Depth	Remarks
395	30									End of Boring at 24 feet		
390	35											
385	40											
380	45											
375	50											
370	55											

Stratification lines represent approximate boundary between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

CLIENT: National Grid
PROJECT NAME: Canastota MGP
CITY/STATE: Canastota, NY
GEI PROJECT NUMBER: 034390

GEI Consultants, Inc.
455 Winding Brook Drive
Glastonbury, CT 06033
(860) 368-5300

GEOTECHNICAL BORING LOG 02 034390.GPJ GEI DATA TEMPLATE.GDT 6/16/23

Boring Location

NORTHING: _____ **EASTING:** _____ **STATION:** _____ **OFFSET:** _____

HORIZONTAL DATUM: NGVD-29 **STATION CENTERLINE:** _____

VERTICAL DATUM: NVGD 29 **ESTIMATED GROUND SURFACE ELEV. (FT):** 426.0

LOCATION: _____

BORING

SB-104

Drilling Information

DATE START / END: 9/21/2022 - 9/21/2022 **TOTAL DEPTH (FT):** 32.0

CONTRACTOR: Parratt Wolf **DRILLER:** Mark Eaves **LOGGED BY:** B.Pabst

EQUIPMENT: GeoProbe 7822 DT **BORING METHOD:** Geoprobe/Hollow Stem Auger

AUGER ID/OD: N/A / N/A **CASING ID/OD:** N/A / N/A **CORE INFO:** _____

HAMMER TYPE: N/A **HAMMER WEIGHT (lbs):** N/A **HAMMER DROP (inch):** N/A

WATER LEVEL DEPTHS (ft): _____

GENERAL NOTES: Lab Sample: SB104(6-8) PAHs

ABBREVIATIONS:

ID = Inside Diameter; OD = Outside Diameter; Pen. = Penetration Length; Rec. = Recovery Length

bpf = Blows per Foot; mpf = Minute per Foot; S = Split Spoon; DP = Direct Push Sample

U = Undistrubed Tube Sample; C = Rock Core; V = Field Vane Shear; SC = Sonic Core

WOR = Weight of Rods; WOH = Weight of Hammer; RQD = Rock Quality Designation; OVM = Organic Vapor Meter

Q_v = Pocket Penetrometer Strength; S_v = Pocket Torvane Shear Strength; F_v = Field Vane Shear Strength; NA, NM = Not Applicable, Not Measured

Elev. (ft)	Depth (ft)	Casing Pen. (bpf) or Core Rate (mpf)	SAMPLE INFORMATION: Sample No.	Type	Depth (ft)	Pen./ Rec. (in)	Blows Count or RQD	N60	GRAPHIC LOG	Sample Description & Classification	H_2O Depth	Remarks
425										Vacuum excavation to 4.3', crushed asphalt at surface.		
			S1		4 to 6	24/0	2-2-5-8			S1: No recovery, gravel and silt in tip of sampler, brown, wet, no odor or sheen. (FILL)		
	5											
420			S2		6 to 8	24/4	5-5-10-11			S2: Gravel and Silt, 10-30% Sand, brown, wet, loose.		1.5 ppm
			S3				3-7-9-12			S3: SILT and CLAY, brown, damp-dry, hard, Pen>45, no odor.		0.8 ppm
	10		S4		10 to 11.5	18/18				S4: Shelby Tube		
415			S5		12 to 14	24/21	11-11-14-19			S5: SILT and CLAY, red, damp-dry, dense, Pen>4.5.		0.9 ppm
			S6		14 to 16	24/16	8-8-13-17			S6: Similar to S5. dry, brittle. Pen>4.5. Tor=7 to >10		0.5 ppm
	15											
410			S7		16 to 18	24/8	15-24-33-36			S7: Similar to S6. Pen >4.5		1.1 ppm
			S8		18 to 20	24/24	12-12-17-15			S8: Similar to S6. Pen >4.5		0.7 ppm
	20		S9		20 to 22	24/17	10-12-17-12			S9: Similar to S6. Increased clay content, dry, but plastic when water added (CL).		1.2 ppm
405			S10		22 to 24	24/24	16-21-22-26			S10: Similar to S9.		1.0 ppm
			S11		24 to	24/16	14-17-17-20			S11: (0-7") Similar to S10. (7-16") CLAY and SILT, trace gravel, red, hard,		1.6 ppm

Stratification lines represent approximate boundary between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

CLIENT: National Grid

PROJECT NAME: Canastota MGP

CITY/STATE: Canastota, NY

GEI PROJECT NUMBER: 034390

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(860) 368-5300

GEOTECHNICAL BORING LOG 02 034390.GPJ GEI DATA TEMPLATE.GDT 6/16/23

Boring Location

NORTHING: _____ **EASTING:** _____ **STATION:** _____ **OFFSET:** _____

HORIZONTAL DATUM: NGVD-29 **STATION CENTERLINE:** _____

VERTICAL DATUM: NVGD 29 **ESTIMATED GROUND SURFACE ELEV. (FT):** 426.0

LOCATION: _____

BORING

SB-104

Elev. (ft)	Depth (ft)	Casing Pen. (bpf) or Core Rate (mpf)	SAMPLE INFORMATION: Sample No.	Type	Depth (ft)	Pen./ Rec. (in)	Blows Count or RQD	N60	GRAPHIC LOG	Sample Description & Classification	H_20 Depth	Remarks
					26					brittle, (TILL). Pen>4.5		
400			S12		26 to 28	24/7	18-31-37-40			S12: Similar to S11.		0.8 ppm
			S13		28 to 30	24/15	14-14-20-31			S13: Similar to S11.		1.4 ppm
	30		S14		30 to 31.3	16/10	44-50/4			S14: Similar to S11.		0.8 ppm
395												
										End of Boring at 32 feet		
	35											
390												
	40											
385												
	45											
380												
	50											
375												
	55											
370												

Stratification lines represent approximate boundary between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

CLIENT: National Grid
PROJECT NAME: Canastota MGP
CITY/STATE: Canastota, NY
GEI PROJECT NUMBER: 034390

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GEOTECHNICAL BORING LOG 02 034390.GPJ GEI DATA TEMPLATE.GDT 6/16/23

Boring Location

NORTHING: _____ **EASTING:** _____ **STATION:** _____ **OFFSET:** _____
HORIZONTAL DATUM: NGVD-29 **STATION CENTERLINE:** _____
VERTICAL DATUM: NVGD 29 **ESTIMATED GROUND SURFACE ELEV. (FT):** 426.3
LOCATION: _____

BORING

SB-105

PAGE 1 of 1

Drilling Information

DATE START / END: 9/16/2022 - 9/16/2022 **TOTAL DEPTH (FT):** 25.0
CONTRACTOR: Parratt Wolf **DRILLER:** Mark Eaves **LOGGED BY:** B.Pabst
EQUIPMENT: GeoProbe 7822 DT **BORING METHOD:** Geoprobe/Hollow Stem Auger
AUGER ID/OD: N/A / N/A **CASING ID/OD:** N/A / N/A **CORE INFO:** _____
HAMMER TYPE: N/A **HAMMER WEIGHT (lbs):** N/A **HAMMER DROP (inch):** N/A
WATER LEVEL DEPTHS (ft): _____
GENERAL NOTES: _____

ABBREVIATIONS:
ID = Inside Diameter; OD = Outside Diameter; Pen. = Penetration Length; Rec. = Recovery Length
bpf = Blows per Foot; mpf = Minute per Foot; S = Split Spoon; DP = Direct Push Sample
U = Undistrubed Tube Sample; C = Rock Core; V = Field Vane Shear; SC = Sonic Core
WOR = Weight of Rods; WOH = Weight of Hammer; RQD = Rock Quality Designation; OVM = Organic Vapor Meter
Q_v = Pocket Penetrometer Strength; S_v = Pocket Torvane Shear Strength; F_v = Field Vane Shear Strength; NA, NM = Not Applicable, Not Measured

Elev. (ft)	Depth (ft)	Casing Pen. (bpf) or Core Rate (mpf)	SAMPLE INFORMATION: Sample No.	Type	Depth (ft)	Pen./ Rec. (in)	Blows Count or RQD	N60	GRAPHIC LOG	Sample Description & Classification	H_2O Depth	Remarks
425										Vacuum Clear to 4.5' (0-3") Asphalt (3-18") FILL (18-19") Asphalt, large rock (19-54") FILL Sand, silt, gravel, cobbles, man-made debris, brown, dry.		
	5		S1		5 to 7	24/7	2-2-1-5			S1: (0-7") FILL Sand, silt, gravel, debris(glass), grey, wet.		4 ppm
420			S2		7 to 9	24/0	2-3-4-2			S2: No recovery - FILL, few glass shreds, sheen and NAPL blebs on spoon.		
			S3		9 to 11	24/24	4-4-6-6			S3: (0-15") SILT, soft, wet, black. NAPL streaks and sheen. (15-24") SILT, moist, brown, occatioal NAPL blebs, moderate odor.		167 ppm 83 ppm
	10		S4		11 to 13	24/24	4-4-4-4			S4: (0-20") FILL (glass, coal, silt, gravel), soft NAPL coated. (20-24") SILT, some clay, dense. Plastic (ML) moist, large NAPL bleb (1/2" diameter)		443 ppm 285 ppm
415			S5		13 to 15	24/18	3-3-3-5			S5: (0-18") SILT, some clay, dense, red, trace NAPL blebs and seams, trace peat and grass matter, trace gravel at 11". No odor at bottom of sample.		28 ppm
	15		S6		15 to 17	24/22	3-3-6-10			S6: (0-22") CLAY and SILT, dense, moist, medium plasticity (CL)		24.8 ppm
410			S7		17 to 19	24/24	16-16-23-29			S7: (0-8") Similar to S6. (8-10") SAND, fine, wet, tar-wated. (10-24") CLAY, hard, tan, non-plastic (ML)		21.3 ppm
			S8		19 to 21	24/18	10-12-16-21			S8: (0-18") CLAY, dense, red.		18.2 ppm
	20		S9		21 to 23	24/19	21-29-37-40			S9: (0-8") Similar to S8. (8-19") SILT, little clay, trace gravel, red, low plasticity (ML) TILL		27 ppm
405			S10		23 to 24.3	16/12	48-42-50/4			S10: (0-12") Similar top S9: (8-19").		45 ppm

End of Boring at 25 feet

Stratification lines represent approximate boundary between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

CLIENT: National Grid
PROJECT NAME: Canastota MGP
CITY/STATE: Canastota, NY
GEI PROJECT NUMBER: 034390

GEI Consultants, Inc.
455 Winding Brook Drive
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(860) 368-5300

GEOTECHNICAL BORING LOG 02 034390.GPJ GEI DATA TEMPLATE.GDT 6/16/23

Boring Location

NORTHING: _____ **EASTING:** _____ **STATION:** _____ **OFFSET:** _____

HORIZONTAL DATUM: NGVD-29 **STATION CENTERLINE:** _____

VERTICAL DATUM: NVGD 29 **ESTIMATED GROUND SURFACE ELEV. (FT):** 426.3

LOCATION: _____

BORING

SB-106

Drilling Information

DATE START / END: 9/21/2022 - 9/21/2022 **TOTAL DEPTH (FT):** 45.3

CONTRACTOR: Parratt Wolf **DRILLER:** Mark Eaves **LOGGED BY:** B.Pabst

EQUIPMENT: GeoProbe 7822 DT **BORING METHOD:** Geoprobe/Hollow Stem Auger

AUGER ID/OD: N/A / N/A **CASING ID/OD:** N/A / N/A **CORE INFO:** _____

HAMMER TYPE: N/A **HAMMER WEIGHT (lbs):** N/A **HAMMER DROP (inch):** N/A

WATER LEVEL DEPTHS (ft): _____

GENERAL NOTES: _____

ABBREVIATIONS:
ID = Inside Diameter; OD = Outside Diameter; Pen. = Penetration Length; Rec. = Recovery Length
bpf = Blows per Foot; mpf = Minute per Foot; S = Split Spoon; DP = Direct Push Sample
U = Undistrubed Tube Sample; C = Rock Core; V = Field Vane Shear; SC = Sonic Core
WOR = Weight of Rods; WOH = Weight of Hammer; RQD = Rock Quality Designation; OVM = Organic Vapor Meter
Q_v = Pocket Penetrometer Strength; S_v = Pocket Torvane Shear Strength; F_v = Field Vane Shear Strength; NA, NM = Not Applicable, Not Measured

Elev. (ft)	Depth (ft)	Casing Pen. (bpf) or Core Rate (mpf)	SAMPLE INFORMATION: Sample No.	Type	Depth (ft)	Pen./ Rec. (in)	Blows Count or RQD	N60	GRAPHIC LOG	Sample Description & Classification	H_20 Depth	Remarks
425										Vacuum excavation to 4'. (0-4.5")Asphalt (4.5-15") Sand and Gravel (FILL) Asphalt obstruction at 15"		
	5		S1		4 to 6	24/14	8-3-2-2			S1: (0-4") crushed asphalt (FILL) (4-9.5") SAND, medium, brown, wet. (9.5-14") Organic CLAY, black (OL)		
420			S2		6 to 8	24/11	3-4-5-5			S2: (0-4") Sand and asphalt pieces (FILL) (4-11") fine SAND and silt.		0 ppm
			S3		8 to 10	24/20	1-1-2-1			S3: SILT, brown, wet.		0 ppm
	10		S4		10 to 12	24/17	3-2-2-4			S4: Similar to S3.		0 ppm
415			S5		12 to 14	24/7	4-2-2-2			S5: (0-14") Similar to S3. (14-22") Similar to S3, increased firmness. (22-24") CLAY, trace gravel, red (CL)		0 ppm
	15		S6		14 to 16	24/16	3-4-6-11			S6: Similar to S3. Pen=2.5-3.75.		0 ppm
410			S7		16 to 18	24/21	6-12-14-17			S7: Similar to S3. Pen=2.75-3.5.		0 ppm
			S8		18 to 20	24/17	6-8-14-19			S8: (0-11) Similar to S3. (11-17") SILT and CLAY, (TILL) hard, brittle, plastic when wet.		0 ppm
	20		S9		20 to 22	24/14	10-14-29-36			S9: Similar to S8, 15% fine gravel.		0 ppm
405												

Stratification lines represent approximate boundary between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

CLIENT: National Grid
PROJECT NAME: Canastota MGP
CITY/STATE: Canastota, NY
GEI PROJECT NUMBER: 034390

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455 Winding Brook Drive
Glastonbury, CT 06033
(860) 368-5300

Boring Location

NORTHING: _____ **EASTING:** _____ **STATION:** _____ **OFFSET:** _____

HORIZONTAL DATUM: NGVD-29 **STATION CENTERLINE:** _____

VERTICAL DATUM: NVGD 29 **ESTIMATED GROUND SURFACE ELEV. (FT):** 426.3

LOCATION: _____

BORING

SB-106

Elev. (ft)	Depth (ft)	Casing Pen. (bpf) or Core Rate (mpf)	SAMPLE INFORMATION: Sample No.	Type	Depth (ft)	Pen./ Rec. (in)	Blows Count or RQD	N60	GRAPHIC LOG	Sample Description & Classification	H_20 Depth	Remarks
400			S10		25 to 26.2	14/12	21-25-50/2			S10: Similar to S8.		0 ppm
	30		S11		30 to 30.4	5/5	100/5			S11: Similar to S10. Some gravel and broken rock. Pen>4.5.		0.5 ppm
395												
	35		S12		35 to 35.7	8/8	42-100/2			S12: Similar to S11.		0.4 ppm
390												
	40		S13		40 to 40.8	10/10	62-100/4			S13: Similar to S11.		0.7 ppm
385												
	45		S14		45 to 45.3	4/4	100/4			S14: Similar to S11. Stone in tip of spoon. End of Boring at 45.3 feet		0.1 ppm
380												
	50											
375												
	55											
370												

Stratification lines represent approximate boundary between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

CLIENT: National Grid
PROJECT NAME: Canastota MGP
CITY/STATE: Canastota, NY
GEI PROJECT NUMBER: 034390

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(860) 368-5300

GEOTECHNICAL BORING LOG 02 034390.GPJ GEI DATA TEMPLATE.GDT 6/16/23

Boring Location

NORTHING: _____ **EASTING:** _____ **STATION:** _____ **OFFSET:** _____

HORIZONTAL DATUM: NGVD-29 **STATION CENTERLINE:** _____

VERTICAL DATUM: NVGD 29 **ESTIMATED GROUND SURFACE ELEV. (FT):** 428.0

LOCATION: _____

BORING

SB-107

PAGE 1 of 2

Drilling Information

DATE START / END: 9/26/2022 - 9/26/2022 **TOTAL DEPTH (FT):** 25.3

CONTRACTOR: Parratt Wolf **DRILLER:** Mark Eaves **LOGGED BY:** B.Pabst

EQUIPMENT: GeoProbe 7822 DT **BORING METHOD:** Geoprobe/Hollow Stem Auger

AUGER ID/OD: N/A / N/A **CASING ID/OD:** N/A / N/A **CORE INFO:** _____

HAMMER TYPE: N/A **HAMMER WEIGHT (lbs):** N/A **HAMMER DROP (inch):** N/A

WATER LEVEL DEPTHS (ft): _____

GENERAL NOTES: _____

ABBREVIATIONS:
ID = Inside Diameter; OD = Outside Diameter; Pen. = Penetration Length; Rec. = Recovery Length
bpf = Blows per Foot; mpf = Minute per Foot; S = Split Spoon; DP = Direct Push Sample
U = Undistrubed Tube Sample; C = Rock Core; V = Field Vane Shear; SC = Sonic Core
WOR = Weight of Rods; WOH = Weight of Hammer; RQD = Rock Quality Designation; OVM = Organic Vapor Meter
Q_v = Pocket Penetrometer Strength; S_v = Pocket Torvane Shear Strength; F_v = Field Vane Shear Strength; NA, NM = Not Applicable, Not Measured

Elev. (ft)	Depth (ft)	Casing Pen. (bpf) or Core Rate (mpf)	SAMPLE INFORMATION: Sample No.	Type	Depth (ft)	Pen./ Rec. (in)	Blows Count or RQD	N60	GRAPHIC LOG	Sample Description & Classification	H_20 Depth	Remarks
										Vacuum excavation to 4'. (0-4.5")Asphalt (4.5-16") Sand and Gravel (FILL) Concrete debris at 16"		
425			S1		4 to 6	24/5	5-1-1-1			S1: Sand and Gravel, little silt, grey, wet, (FILL)	4.1 ppm	
	5		S2		6 to 8	24/5	2-2-1-2			S2: (0-2") Gravel (FILL) (2-5") SILT, brown (MH) (FILL)	1.9 ppm	
420			S3		8 to 10	24/20	4-5-4-5			S3: (0-7") Sand, Gravel, Silt (FILL) (7-20") Interbedded Sand and Silt, hard, slight odor. Pen>4.5 at 17-20"	1.8 ppm 1.1 ppm	
	10		S4		10 to 12	24/18	5-6-8-9			S4: SAND, fine, wet, interbedded with Clayey SILT. Beds at 2" thick, brown, no odor or sheen.	1 ppm	
			S5		12 to 14	24/22	12-21-21-16			S5: (0-11") SAND, fine, brown, wet (11-15") SILT, grading to clayey Silt with depth. (15-22") SILT and CLAY, hard, red, Pen >4.5. (TILL)	1.0 ppm 0.4 ppm	
415			S6		14 to 16	24/4	9-10-9-11			S6: SILT and CLAY (TILL).	0.5 ppm	
	15		S7		16 to 18	24/14	14-14-27-33			S7: Silty CLAY, trace sand and fine gravel (TILL) (0-9") wet, plastic (9-14") dry, brittle.	0.3 ppm	
410			S8		18 to 18.9	11/10	20-50/4			S8: Sand and Gravel with silt, red, moist (TILL)	0.5 ppm	
	20		S9		20 to 20.3	4/4	100/4			S9: GRAVEL, some silt, trace rock, chips, dry, brittle (TILL)	0.4 ppm	
405												

GEOTECHNICAL BORING LOG 02 034390.GPJ GEI DATA TEMPLATE.GDT 6/16/23

Stratification lines represent approximate boundary between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

CLIENT: National Grid
PROJECT NAME: Canastota MGP
CITY/STATE: Canastota, NY
GEI PROJECT NUMBER: 034390

GEI Consultants, Inc.
455 Winding Brook Drive
Glastonbury, CT 06033
(860) 368-5300

Boring Location

NORTHING: _____ **EASTING:** _____ **STATION:** _____ **OFFSET:** _____

HORIZONTAL DATUM: NGVD-29 **STATION CENTERLINE:** _____

VERTICAL DATUM: NVGD 29 **ESTIMATED GROUND SURFACE ELEV. (FT):** 428.0

LOCATION: _____

BORING

SB-107

Elev. (ft)	Depth (ft)	Casing Pen. (bpf) or Core Rate (mpf)	SAMPLE INFORMATION: Sample No.	Type	Depth (ft)	Pen./ Rec. (in)	Blows Count or RQD	N60	GRAPHIC LOG	Sample Description & Classification	H_20 Depth	Remarks
			S10		25 to 25.3	4/4	100/4			S10: Similar to S9. End of Boring at 25.3 feet		0.5 ppm
400												
	30											
395												
	35											
390												
	40											
385												
	45											
380												
	50											
375												
	55											

Stratification lines represent approximate boundary between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

CLIENT: National Grid
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CITY/STATE: Canastota, NY
GEI PROJECT NUMBER: 034390

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GEOTECHNICAL BORING LOG 02 034390.GPJ GEI DATA TEMPLATE.GDT 6/16/23

Boring Location

NORTHING: _____ **EASTING:** _____ **STATION:** _____ **OFFSET:** _____

HORIZONTAL DATUM: NGVD-29 **STATION CENTERLINE:** _____

VERTICAL DATUM: NVGD 29 **ESTIMATED GROUND SURFACE ELEV. (FT):** 427.4

LOCATION: _____

BORING

SB-108

PAGE 1 of 1

Drilling Information

DATE START / END: 9/27/2022 - 9/27/2022 **TOTAL DEPTH (FT):** 16.0

CONTRACTOR: Parratt Wolf **DRILLER:** Mark Eaves **LOGGED BY:** B.Pabst

EQUIPMENT: GeoProbe 7822 DT **BORING METHOD:** Geoprobe/Hollow Stem Auger

AUGER ID/OD: N/A / N/A **CASING ID/OD:** N/A / N/A **CORE INFO:** _____

HAMMER TYPE: N/A **HAMMER WEIGHT (lbs):** N/A **HAMMER DROP (inch):** N/A

WATER LEVEL DEPTHS (ft): _____

GENERAL NOTES: Lab sample SB108 (12-14) PAHs

ABBREVIATIONS:

ID = Inside Diameter; OD = Outside Diameter; Pen. = Penetration Length; Rec. = Recovery Length

bpf = Blows per Foot; mpf = Minute per Foot; S = Split Spoon; DP = Direct Push Sample

U = Undistrubed Tube Sample; C = Rock Core; V = Field Vane Shear; SC = Sonic Core

WOR = Weight of Rods; WOH = Weight of Hammer; RQD = Rock Quality Designation; OVM = Organic Vapor Meter

Q_v = Pocket Penetrometer Strength; S_v = Pocket Torvane Shear Strength; F_v = Field Vane Shear Strength; NA, NM = Not Applicable, Not Measured

Elev. (ft)	Depth (ft)	Casing Pen. (bpf) or Core Rate (mpf)	SAMPLE INFORMATION: Sample No.	Type	Depth (ft)	Pen./ Rec. (in)	Blows Count or RQD	N60	GRAPHIC LOG	Sample Description & Classification	H_20 Depth	Remarks
										Boring located within Test Pit TP-108B (0-4.5") Asphalt (4.5-16") SILT and GRAVEL (FILL) (16-34") Concrete		
425			S1		4 to 6	24/14	1-1-1-1			S1: SILT and CLAY, grey, moist, soft, trace gravel, (FILL)	0 ppm	
	5		S2		6 to 8	24/13	2-1-2-2			S2: (0-5") Gravel and Silt (5-13") Clay and Silt with trace gravel, hard, damp, Pen>=3	0.4 ppm	
420			S3		8 to 10	24/9	5-5-8-10			S3: SILT, red, wet, large wood fragment.	0.3 ppm	
	10		S4		10 to 12	24/3	12-11-10-11			S4: Wood with silt, dark grey, moist.	1.7 ppm	
415			S5		12 to 14	24/13	14-12-15-12			S5: (0-10") SILT and CLAY, damp. (10-13") SILT and CLAY (TILL), little gravel, red, hard.	0.2 ppm	
			S6		14 to 14.3	4/4	100/4			S6: Wood with silt, (TILL) trace non-MGP odor.	2.4 ppm	
	15									End of Boring at 16 feet		
410												
	20											
405												

GEOTECHNICAL BORING LOG 02 034390.GPJ GEI DATA TEMPLATE.GDT 6/16/23

Stratification lines represent approximate boundary between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

CLIENT: National Grid

PROJECT NAME: Canastota MGP

CITY/STATE: Canastota, NY

GEI PROJECT NUMBER: 034390

GEI Consultants, Inc.
455 Winding Brook Drive
Glastonbury, CT 06033
(860) 368-5300

Boring Location

NORTHING: _____ **EASTING:** _____ **STATION:** _____ **OFFSET:** _____

HORIZONTAL DATUM: NGVD-29 **STATION CENTERLINE:** _____

VERTICAL DATUM: NVGD 29 **ESTIMATED GROUND SURFACE ELEV. (FT):** 427.0

LOCATION: _____

BORING

SB-109

PAGE 1 of 1

Drilling Information

DATE START / END: 9/16/2022 - 9/16/2022 **TOTAL DEPTH (FT):** 22.0

CONTRACTOR: Parratt Wolf **DRILLER:** Mark Eaves **LOGGED BY:** B.Pabst

EQUIPMENT: GeoProbe 7822 DT **BORING METHOD:** Geoprobe/Hollow Stem Auger

AUGER ID/OD: N/A / N/A **CASING ID/OD:** N/A / N/A **CORE INFO:** _____

HAMMER TYPE: N/A **HAMMER WEIGHT (lbs):** N/A **HAMMER DROP (inch):** N/A

WATER LEVEL DEPTHS (ft): _____

GENERAL NOTES: SB 109(0-4) waste characterization sample. 3" SS to 18', 2" SS 18-22'

ABBREVIATIONS:
ID = Inside Diameter; OD = Outside Diameter; Pen. = Penetration Length; Rec. = Recovery Length
bpf = Blows per Foot; mpf = Minute per Foot; S = Split Spoon; DP = Direct Push Sample
U = Undistrubed Tube Sample; C = Rock Core; V = Field Vane Shear; SC = Sonic Core
WOR = Weight of Rods; WOH = Weight of Hammer; RQD = Rock Quality Designation; OVM = Organic Vapor Meter
Q_v = Pocket Penetrometer Strength; S_v = Pocket Torvane Shear Strength; F_v = Field Vane Shear Strength; NA, NM = Not Applicable, Not Measured

Elev. (ft)	Depth (ft)	Casing Pen. (bpf) or Core Rate (mpf)	SAMPLE INFORMATION: Sample No.	Type	Depth (ft)	Pen./ Rec. (in)	Blows Count or RQD	N60	GRAPHIC LOG	Sample Description & Classification	H_20 Depth	Remarks
			S1		0 to 2	24/19				S1: (0-1") Cold Mix Asphalt. (1-19") FILL: Sand, gravel, cinders, dry, no odor		
425			S2		2 to 4	24/13				S2: Similar to S1		
	5		S3		4 to 6	24/16				S3: (0-6") Similar to S1. (6-13") CLAY, grey-brown. (13-16") SILT-CLAY, dense, red, displaced TILL		
420			S4		6 to 8	24/24				S4: (0-6") wash. (6-13") CLAY, damp, black, organic. (13-24) SILT, damp, tan, NAPL bands/streaks at 22-24"		
			S5		8 to 10	24/24				S5: (0-3") Wash (TILL). (3-24) SILT, little fine sand, wet, brown NAPL bands.		
	10		S6		10 to 12	24/24				S6: (0-24") SILT and CLAY, wet, brown, fining with depth, NAPL streaks.		
415			S7		12 to 14	24/24				S7: (0-21) Similar to S6. (21-24") SILT and CLAY, hard, dry-damp, red, NAPL blebs, TILL-like		
			S8		14 to 16	24/12				S8: (0-12") CLAY, dense, damp, plastic (CL), no odor.		P=2.5-3.5
	15		S9		16 to 18	24/14				S9: (0-14") CLAY, trace gravel, damp, red, plastic.		P=3.5
410			S10		18 to 20	24/11				S10: (0-5") CLAY, (5-11") Silt and Clay, little gravel, hard (TILL).		
	20		S11		20 to 22	24/6				S11: Similar to S10 (TILL).		
405										End of Boring at 22 feet		

Stratification lines represent approximate boundary between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

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CITY/STATE: Canastota, NY
GEI PROJECT NUMBER: 034390

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(860) 368-5300

GEOTECHNICAL BORING LOG 02 034390.GPJ GEI DATA TEMPLATE.GDT 6/16/23

Boring Location

NORTHING: _____ **EASTING:** _____ **STATION:** _____ **OFFSET:** _____

HORIZONTAL DATUM: NGVD-29 **STATION CENTERLINE:** _____

VERTICAL DATUM: NVGD 29 **ESTIMATED GROUND SURFACE ELEV. (FT):** 426.6

LOCATION: _____

BORING

SB-110

PAGE 1 of 1

Drilling Information

DATE START / END: 9/16/2022 - 9/16/2022 **TOTAL DEPTH (FT):** 20.0

CONTRACTOR: Parratt Wolf **DRILLER:** Mark Eaves **LOGGED BY:** B.Pabst

EQUIPMENT: GeoProbe 7822 DT **BORING METHOD:** Geoprobe/Hollow Stem Auger

AUGER ID/OD: N/A / N/A **CASING ID/OD:** N/A / N/A **CORE INFO:** _____

HAMMER TYPE: N/A **HAMMER WEIGHT (lbs):** N/A **HAMMER DROP (inch):** N/A

WATER LEVEL DEPTHS (ft): _____

GENERAL NOTES: 0-16' 3"SS, 16-20 2"SS.

ABBREVIATIONS:
ID = Inside Diameter; OD = Outside Diameter; Pen. = Penetration Length; Rec. = Recovery Length
bpf = Blows per Foot; mpf = Minute per Foot; S = Split Spoon; DP = Direct Push Sample
U = Undistrubed Tube Sample; C = Rock Core; V = Field Vane Shear; SC = Sonic Core
WOR = Weight of Rods; WOH = Weight of Hammer; RQD = Rock Quality Designation; OVM = Organic Vapor Meter
Q_v = Pocket Penetrometer Strength; S_v = Pocket Torvane Shear Strength; F_v = Field Vane Shear Strength; NA, NM = Not Applicable, Not Measured

Elev. (ft)	Depth (ft)	Casing Pen. (bpf) or Core Rate (mpf)	Sample No.	Type	Depth (ft)	Pen./ Rec. (in)	Blows Count or RQD	N60	GRAPHIC LOG	Sample Description & Classification	H_20 Depth	Remarks
425										Vacuum excavation to 4'3" on 9/9/22. (0-4") Asphalt. (4-18") Sand and gravel (FILL). (18-51") Bricks, glass, bottles, cinders. (FILL)		
	5		S1		4 to 6	24/4				S1: FILL: asphalt pieces, gravel, cemented soil, glass, hard, wet, orange, slight odor.		
420			S2		6 to 8	24/5				S2: similar to S1, moderate odor.		
			S3		8 to 10	24/19				S3: (0-6") Similar to S1, sheen, moderate odor. (6-19") SILT, moist, light brown, moderate sheen and odor.		
	10		S4		10 to 12	24/24				S4: (0-24") SILT, wet, brown, NAPL bands.		
415			S5		12 to 14	24/24				S5: (0-24") SILT, grey-brown, no odor or sheen.		
			S6		14 to 16	24/24				S6: (0-10") SILT, soft, slight sheen and odor, wet. (10-24") CLAY, hard, red, damp, no sheen.		
	15		S7		16 to 18	24/24				S7: (0-10") wash. (10-22") CLAY, red, firm. (22-24") TILL		
410			S8		18 to 20	24/14				S8: (0-24") TILL		
	20									End of Boring at 20 feet		
405												

GEOTECHNICAL BORING LOG 02 034390.GPJ GEI DATA TEMPLATE.GDT 6/16/23

Stratification lines represent approximate boundary between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

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GEI PROJECT NUMBER: 034390

GEI Consultants, Inc.
455 Winding Brook Drive
Glastonbury, CT 06033
(860) 368-5300

Boring Location

NORTHING: _____ **EASTING:** _____ **STATION:** _____ **OFFSET:** _____

HORIZONTAL DATUM: NGVD-29 **STATION CENTERLINE:** _____

VERTICAL DATUM: NVGD 29 **ESTIMATED GROUND SURFACE ELEV. (FT):** 426.5

LOCATION: _____

BORING

SB-111

PAGE 1 of 1

Drilling Information

DATE START / END: 9/30/2022 - 9/30/2022 **TOTAL DEPTH (FT):** 24.0

CONTRACTOR: Parratt Wolf **DRILLER:** Mark Eaves **LOGGED BY:** B.Pabst

EQUIPMENT: GeoProbe 7822 DT **BORING METHOD:** Geoprobe/Hollow Stem Auger

AUGER ID/OD: N/A / N/A **CASING ID/OD:** N/A / N/A **CORE INFO:** _____

HAMMER TYPE: N/A **HAMMER WEIGHT (lbs):** N/A **HAMMER DROP (inch):** N/A

WATER LEVEL DEPTHS (ft): _____

GENERAL NOTES: 3" SS to 10' / 2" SS 10-24'. SB111(0-4') Waste Characterization Sample

ABBREVIATIONS:
ID = Inside Diameter; OD = Outside Diameter; Pen. = Penetration Length; Rec. = Recovery Length
bpf = Blows per Foot; mpf = Minute per Foot; S = Split Spoon; DP = Direct Push Sample
U = Undistrubed Tube Sample; C = Rock Core; V = Field Vane Shear; SC = Sonic Core
WOR = Weight of Rods; WOH = Weight of Hammer; RQD = Rock Quality Designation; OVM = Organic Vapor Meter
Q_v = Pocket Penetrometer Strength; S_v = Pocket Torvane Shear Strength; F_v = Field Vane Shear Strength; NA, NM = Not Applicable, Not Measured

Elev. (ft)	Depth (ft)	Casing Pen. (bpf) or Core Rate (mpf)	Sample No.	Type	Depth (ft)	Pen./ Rec. (in)	Blows Count or RQD	N60	GRAPHIC LOG	Sample Description & Classification	H_20 Depth	Remarks
			S1		0 to 2	24/8				Vacuum excavation to 5'5" on 9/16/22. Backfilled and sampled during boring (0-3") Asphalt. (3-24") Sand and gravel, little silt (FILL).		
425			S2		2 to 4	24/20				S1-S3 Taken in backfilled soil used for waste characterization sampling.		
	5		S3		4 to 6	24/13						
420			S4		6 to 8	24/14				S4: (0-6") FILL - brick, glass, odor and sheen. (6-12") SILT, red, brown. (12-14") CLAY and SILT, hard, red, dry with occational blebs.		
			S5		8 to 10	24/9				S5: (0-9") CLAY and SILT, hard, red, dry with occational blebs, trace gravel, NAPL in small veins.		Pen=>4.5
	10		S6		10 to 12	24/10				S6: Similar to S5, trace NAPL on gravel.		
415			S7		12 to 14	24/5				S7: Similar to S5, occational NAPL on gravel (less than S6)		
			S8		14 to 16	24/19				S8: (0-19") CLAY-SILT, plastic and cohesive (CL), hard, red-brownm no NAPL		
	15		S9		16 to 18	24/14				S9: Similar to S8.		Pen=2.5
410			S10		18 to 20	24/12				S10: Similar to S8		
	20		S11		20 to 22	24				S11: Similar to S8		
405			S12		22 to 24	24/15				S12: (0-11") Similar to S8. (11-15") TILL - CLAY and SILT, trace sand and gravel, hard.		
										End of Boring at 24 feet		

Stratification lines represent approximate boundary between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

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(860) 368-5300

GEOTECHNICAL BORING LOG 02 034390.GPJ GEI DATA TEMPLATE.GDT 6/16/23

Boring Location

NORTHING: _____ **EASTING:** _____ **STATION:** _____ **OFFSET:** _____

HORIZONTAL DATUM: NGVD-29 **STATION CENTERLINE:** _____

VERTICAL DATUM: NVGD 29 **ESTIMATED GROUND SURFACE ELEV. (FT):** 427.1

LOCATION: _____

BORING

SB-112

PAGE 1 of 2

Drilling Information

DATE START / END: 12/6/2022 - 12/6/2022 **TOTAL DEPTH (FT):** 40.7

CONTRACTOR: Parratt Wolf **DRILLER:** Mark Eaves **LOGGED BY:** B.Pabst

EQUIPMENT: GeoProbe 7822 DT **BORING METHOD:** Geoprobe/Hollow Stem Auger

AUGER ID/OD: N/A / N/A **CASING ID/OD:** N/A / N/A **CORE INFO:** _____

HAMMER TYPE: N/A **HAMMER WEIGHT (lbs):** N/A **HAMMER DROP (inch):** N/A

WATER LEVEL DEPTHS (ft): _____

GENERAL NOTES: _____

ABBREVIATIONS:
ID = Inside Diameter; OD = Outside Diameter; Pen. = Penetration Length; Rec. = Recovery Length
bpf = Blows per Foot; mpf = Minute per Foot; S = Split Spoon; DP = Direct Push Sample
U = Undistrubed Tube Sample; C = Rock Core; V = Field Vane Shear; SC = Sonic Core
WOR = Weight of Rods; WOH = Weight of Hammer; RQD = Rock Quality Designation; OVM = Organic Vapor Meter
Q_v = Pocket Penetrometer Strength; S_v = Pocket Torvane Shear Strength; F_v = Field Vane Shear Strength; NA, NM = Not Applicable, Not Measured

Elev. (ft)	Depth (ft)	Casing Pen. (bpf) or Core Rate (mpf)	SAMPLE INFORMATION: Sample No.	Type	Depth (ft)	Pen./ Rec. (in)	Blows Count or RQD	N60	GRAPHIC LOG	Sample Description & Classification	H_20 Depth	Remarks
425										Vacuum excavation to 2' on 9/14/22. (0-6") Asphalt. (6-21") GRAVEL, coarse, well-graded, 1-2" diameter, dry, angular (FILL).		
			S1		4 to 6	24/3	2-2-1-1			S1: GRAVEL, coarse, well-graded, 1-2" diameter, wet, angular (FILL).		0.0 ppm
	5		S2		6 to 8	24/8	1-1-1-1			S2: (0-2") similar to S1. (2-8") SILT, soft, black, wet, tar-coated, strong odor, sheen.		33.5 ppm
420			S3		8 to 10	24/12	1-1-5-5			S3: SILT and CLAY, cohesive, brown, moist, trace black NAPL streaks and blebs. (ML)		46.5 ppm
	10		S4							S4: Shelby tube Sample.		
415			S5		12 to 14	24/24	2-2-2-2			S5: SILT, some sand, wet, red-brown, moderate odor, trace sheen. (ML)		4.3 ppm
			S6		14 to 16	24/24	2-1-1-2			S6: SILT and CLAY, laminated, wet, slight odor, no sheen. (ML)		0.1 ppm
	15		S7		16 to 18	24/24				S7: Similar to S6. Trace sand at 19"		0 ppm
410			S8							S8: Shelby Tube		
	20		S9		20 to 22	24/7	9-15-17-24			S9: SILT, some clay, trace sand and gravel, harad, dry, brittle, red (TILL).		0 ppm
405			S10		22 to 22.75	9/8	28-50/3			S11: Similar to S9		0.1 ppm

Stratification lines represent approximate boundary between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

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GEOTECHNICAL BORING LOG 02 034390.GPJ GEI DATA TEMPLATE.GDT 6/16/23

Boring Location

NORTHING: _____ **EASTING:** _____ **STATION:** _____ **OFFSET:** _____

HORIZONTAL DATUM: NGVD-29 **STATION CENTERLINE:** _____

VERTICAL DATUM: NVGD 29 **ESTIMATED GROUND SURFACE ELEV. (FT):** 427.1

LOCATION: _____

BORING

SB-112

Elev. (ft)	Depth (ft)	Casing Pen. (bpf) or Core Rate (mpf)	SAMPLE INFORMATION: Sample No.	Type	Depth (ft)	Pen./ Rec. (in)	Blows Count or RQD	N60	GRAPHIC LOG	Sample Description & Classification	H_20 Depth	Remarks
400			S11		25 to 25.75	9/9	30-50/3			S12: Similar to S9		0.5 ppm
	30		S12		30 to 30.67	8/8	38-50/2			S13: Similar to S9		0 ppm
395												
	35		S13		35 to 35.833	10/9	61-50/4			S14: Similar to S9		0.4 ppm
390												
	40		S14		40 to 40.75	9/7	67-50/2			S15: Similar to S9		3.2 ppm
										End of Boring at 40.7 feet		
385												
	45											
380												
	50											
375												
	55											
370												

Stratification lines represent approximate boundary between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

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GEOTECHNICAL BORING LOG 02 034390.GPJ GEI DATA TEMPLATE.GDT 6/16/23

Boring Location

NORTHING: _____ **EASTING:** _____ **STATION:** _____ **OFFSET:** _____

HORIZONTAL DATUM: NGVD-29 **STATION CENTERLINE:** _____

VERTICAL DATUM: NVGD 29 **ESTIMATED GROUND SURFACE ELEV. (FT):** 427.2

LOCATION: _____

BORING

SB-113

PAGE 1 of 2

Drilling Information

DATE START / END: 9/29/2022 - 9/29/2022 **TOTAL DEPTH (FT):** 45.3

CONTRACTOR: Parratt Wolf **DRILLER:** Mark Eaves **LOGGED BY:** B.Pabst

EQUIPMENT: GeoProbe 7822 DT **BORING METHOD:** Geoprobe/Hollow Stem Auger

AUGER ID/OD: N/A / N/A **CASING ID/OD:** N/A / N/A **CORE INFO:** _____

HAMMER TYPE: N/A **HAMMER WEIGHT (lbs):** N/A **HAMMER DROP (inch):** N/A

WATER LEVEL DEPTHS (ft): _____

GENERAL NOTES: Lab sample SB113(16-20'), PAH/MS/MSD

ABBREVIATIONS:
ID = Inside Diameter; OD = Outside Diameter; Pen. = Penetration Length; Rec. = Recovery Length
bpf = Blows per Foot; mpf = Minute per Foot; S = Split Spoon; DP = Direct Push Sample
U = Undistrubed Tube Sample; C = Rock Core; V = Field Vane Shear; SC = Sonic Core
WOR = Weight of Rods; WOH = Weight of Hammer; RQD = Rock Quality Designation; OVM = Organic Vapor Meter
Q_v = Pocket Penetrometer Strength; S_v = Pocket Torvane Shear Strength; F_v = Field Vane Shear Strength; NA, NM = Not Applicable, Not Measured

Elev. (ft)	Depth (ft)	Casing Pen. (bpf) or Core Rate (mpf)	SAMPLE INFORMATION: Sample No.	Type	Depth (ft)	Pen./ Rec. (in)	Blows Count or RQD	N60	GRAPHIC LOG	Sample Description & Classification	H_20 Depth	Remarks
										Vacuum excavation to 3'9". Gravel and SILT, dense, dry.		
425												
			S1		4 to 6	24/7	4-2-2-4			S1: Asphalt piece in tip of sampler		0 ppm
	5											
			S2		6 to 8	24/11	6-4-6-4			S2: Wood in tip of sampler. (0-2") asphalt, glass, gravel to silt (FILL). (2-11") WOOD, strong odor, sheen (FILL).		37 ppm
420												
			S3		8 to 10	24/8				S3: (0-3") wood, silt, gravel, sheen (FILL). (3-8") SILT(ML) moist, tan, strong odor, no sheen.		726 ppm
	10											
			S4		10 to 12	24/20	1-10-9-9			S4: SILT, brown, (ML). Trace NAPL in thin bands, sheen.		133 ppm
415												
			S5		12 to 14	24/24	6-4-6-6			S5: 0-15" SILT, very soft, wet, sheen. (15-24") Similar with NAPL layers.		643 ppm
			S6		14 to 16	24/7	4-2-1-2			S6: Similar to S5 with spotly sheen and odor.		173 ppm
	15											
			S7		16 to 18	24/24	1-2-1-2			S7: (0-15") Similar to S5. (15-24") SILT and CLAY, trace gravel, red (CL), no odor or sheen.		39 ppm
410												
			S8		18 to 20	24/9	2-1-2-1			S8: Similar to S7 (15-24")		12.3 ppm
	20											
			S9		20 to 22	24/13	5-5-7-10			S9: Similar to S7 (15-24"), hard. Pen=2.5-74.5		1.0 ppm
405												
			S10		22 to 24	24/17	8-12-18-27			S10: (0-13") Similar to S9. Becomes very hard at 11". Pen>4.5. (13-17") TILL		3.4 ppm

Stratification lines represent approximate boundary between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

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GEOTECHNICAL BORING LOG 02 034390.GPJ GEI DATA TEMPLATE.GDT 6/16/23

Boring Location

NORTHING: _____ **EASTING:** _____ **STATION:** _____ **OFFSET:** _____

HORIZONTAL DATUM: NGVD-29 **STATION CENTERLINE:** _____

VERTICAL DATUM: NVGD 29 **ESTIMATED GROUND SURFACE ELEV. (FT):** 427.2

LOCATION: _____

BORING

SB-113

Elev. (ft)	Depth (ft)	Casing Pen. (bpf) or Core Rate (mpf)	SAMPLE INFORMATION: Sample No.	Type	Depth (ft)	Pen./ Rec. (in)	Blows Count or RQD	N60	GRAPHIC LOG	Sample Description & Classification	H_20 Depth	Remarks
			S11		25 to 27	24/12	15-18-18-22			S11: SILT and CLAY, little gravel, hard, dry, red, (TILL). Pen>4.5		10.4 ppm
400												
	30		S12		30 to 32	24/15	15-19-18-44			S12: SILT and CLAY, trace gravel, hard, dry, red, (TILL)		1.6 ppm
395												
	35		S13		35 to 35.6	7/2	52-100/2			S13: SImilar to S12		30 ppm
390												
	40		S14		40 to 40.25	3/3	100/3			S14: Similar to S12		13.3 ppm
385												
	45		S15		45 to 45.33	4/4	100/4			S15: Similar to S12		27.4 ppm
380										End of Boring at 45.3 feet		
	50											
375												
	55											

Stratification lines represent approximate boundary between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

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GEOTECHNICAL BORING LOG 02 034390.GPJ GEI DATA TEMPLATE.GDT 6/16/23

Boring Location

NORTHING: _____ **EASTING:** _____ **STATION:** _____ **OFFSET:** _____

HORIZONTAL DATUM: NGVD-29 **STATION CENTERLINE:** _____

VERTICAL DATUM: NVGD 29 **ESTIMATED GROUND SURFACE ELEV. (FT):** 426.9

LOCATION: _____

BORING

SB-114

PAGE 1 of 1

Drilling Information

DATE START / END: 9/27/2022 - 9/27/2022 **TOTAL DEPTH (FT):** 21.0

CONTRACTOR: Parratt Wolf **DRILLER:** Mark Eaves **LOGGED BY:** B.Pabst

EQUIPMENT: GeoProbe 7822 DT **BORING METHOD:** Geoprobe/Hollow Stem Auger

AUGER ID/OD: N/A / N/A **CASING ID/OD:** N/A / N/A **CORE INFO:** _____

HAMMER TYPE: N/A **HAMMER WEIGHT (lbs):** N/A **HAMMER DROP (inch):** N/A

WATER LEVEL DEPTHS (ft): _____

GENERAL NOTES: Lab sample SB114(8-9)

ABBREVIATIONS:
ID = Inside Diameter; OD = Outside Diameter; Pen. = Penetration Length; Rec. = Recovery Length
bpf = Blows per Foot; mpf = Minute per Foot; S = Split Spoon; DP = Direct Push Sample
U = Undistrubed Tube Sample; C = Rock Core; V = Field Vane Shear; SC = Sonic Core
WOR = Weight of Rods; WOH = Weight of Hammer; RQD = Rock Quality Designation; OVM = Organic Vapor Meter
Q_v = Pocket Penetrometer Strength; S_v = Pocket Torvane Shear Strength; F_v = Field Vane Shear Strength; NA, NM = Not Applicable, Not Measured

Elev. (ft)	Depth (ft)	Casing Pen. (bpf) or Core Rate (mpf)	SAMPLE INFORMATION: Sample No.	Type	Depth (ft)	Pen./ Rec. (in)	Blows Count or RQD	N60	GRAPHIC LOG	Sample Description & Classification	H_20 Depth	Remarks
										Vacuum excavation clearing to 4.8' on 9/9/22 (0-4.5") Asphalt		
425	5		S1		5 to 7	24/10	1-1-1-2			S1: SILT, little clay, grey/ brown (ML) thin fine sand bed at 5"	0 ppm	
420			S2		7 to 9	24/24	4-7-7-8			S2: SILT (ML)	0 ppm	
	10		S3		9 to 11	24/18	3-5-7-7			S3:Interbedded silt, clay and sand.	0.6 ppm	
415			S4		11 to 13	24/24	7-7-8-10			S4: SILT and CLAY. Pen=3-3.5		
			S5		13 to 15	24/24	5-5-6-6			S5:SILT and CLAY, grey, damp, mod, plasticity, thin bedding (CL). Pen =1.5-2.5	0 ppm	
	15		S6		15 to 17	24/21	5-5-6-10			S6: Similar to S5, increasing density. Pen= 2.75-3.5. TOR=4-5	0 ppm	
410			S7		17 to 19	24/23	7-10-19-19			S7: (0-17") Similar to S5. (17-23") CLAY, some gravel, hard, damp. (TILL)	0 ppm	
	20		S8		19 to 21	24/24	18-24-26-31			S8: Similar to S7 (17-23"). Sand interbeds at 16-18". Pen>4.5	0 ppm	
405										End of Boring at 21 feet		

Stratification lines represent approximate boundary between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

CLIENT: National Grid
PROJECT NAME: Canastota MGP
CITY/STATE: Canastota, NY
GEI PROJECT NUMBER: 034390

GEI Consultants, Inc.
455 Winding Brook Drive
Glastonbury, CT 06033
(860) 368-5300

GEOTECHNICAL BORING LOG 02 034390.GPJ GEI DATA TEMPLATE.GDT 6/16/23

Boring Location

NORTHING: _____ **EASTING:** _____ **STATION:** _____ **OFFSET:** _____

HORIZONTAL DATUM: NGVD-29 **STATION CENTERLINE:** _____

VERTICAL DATUM: NVGD 29 **ESTIMATED GROUND SURFACE ELEV. (FT):** 426.0

LOCATION: _____

BORING

SB-115

PAGE 1 of 1

Drilling Information

DATE START / END: 9/15/2022 - 9/15/2022 **TOTAL DEPTH (FT):** 20.0

CONTRACTOR: Parratt Wolf **DRILLER:** Mark Eaves **LOGGED BY:** B.Pabst

EQUIPMENT: GeoProbe 7822 DT **BORING METHOD:** Geoprobe/Hollow Stem Auger

AUGER ID/OD: N/A / N/A **CASING ID/OD:** N/A / N/A **CORE INFO:** _____

HAMMER TYPE: N/A **HAMMER WEIGHT (lbs):** N/A **HAMMER DROP (inch):** N/A

WATER LEVEL DEPTHS (ft): _____

GENERAL NOTES: Lab sample S1(4-6) for PAH analysis

ABBREVIATIONS:
ID = Inside Diameter; OD = Outside Diameter; Pen. = Penetration Length; Rec. = Recovery Length
bpf = Blows per Foot; mpf = Minute per Foot; S = Split Spoon; DP = Direct Push Sample
U = Undistrubed Tube Sample; C = Rock Core; V = Field Vane Shear; SC = Sonic Core
WOR = Weight of Rods; WOH = Weight of Hammer; RQD = Rock Quality Designation; OVM = Organic Vapor Meter
Q_v = Pocket Penetrometer Strength; S_v = Pocket Torvane Shear Strength; F_v = Field Vane Shear Strength; NA, NM = Not Applicable, Not Measured

Elev. (ft)	Depth (ft)	Casing Pen. (bpf) or Core Rate (mpf)	SAMPLE INFORMATION: Sample No.	Type	Depth (ft)	Pen./ Rec. (in)	Blows Count or RQD	N60	GRAPHIC LOG	Sample Description & Classification	H_20 Depth	Remarks
425										Vacuum excavation to 4'. (0-4.5")Asphalt (4.5-16") Sand and Gravel (FILL) Concrete debris at 16"		
	5		S1		4 to 6	24/18	1-3-6-8			S1: Silt and trace gravel, dense, brown, damp, (CL). Becomes soft at 12-16"		0.2 ppm
420			S2		6 to 8	24/24	3-3-5-7			S2: Similar to S1, red (CL)		0 ppm
			S3		8 to 10	24/18	6-8-11-14			S3: SILT, very dense, fine sand layer at 10-12"		0 ppm
	10		S4		10 to 12	24/16	11-16-11-14			S4: (0-5") SILT, trace sand. (5-10") SILT, with clay bands (10-16") Clay and Silt, grey (CL)		0 ppm
415			S5		12 to 14	24/11	16-17-23-23			S5: (0-8") Similar to S4. (8-11") SAND, very fine, brown.		0 ppm
			S6		14 to 16	24/16	20-24-20-27			S6: SILT, hard, brown, damp (ML)		0 ppm
	15		S7		16 to 18	24/21	20-27-34-39			S7: Similar to S6, becomes red.		0 ppm
410			S8		18 to 20	24/12	27-29-33-39			CLAY, hard, brown, laminated, fissile, (CL)		0 ppm
	20									End of Boring at 20 feet		
405												

GEOTECHNICAL BORING LOG 02 034390.GPJ GEI DATA TEMPLATE.GDT 6/16/23

Stratification lines represent approximate boundary between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

CLIENT: National Grid
PROJECT NAME: Canastota MGP
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GEI PROJECT NUMBER: 034390

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455 Winding Brook Drive
Glastonbury, CT 06033
(860) 368-5300

Boring Location

NORTHING: _____ **EASTING:** _____ **STATION:** _____ **OFFSET:** _____

HORIZONTAL DATUM: NGVD-29 **STATION CENTERLINE:** _____

VERTICAL DATUM: NVGD 29 **ESTIMATED GROUND SURFACE ELEV. (FT):** 423.5

LOCATION: _____

BORING

SB-117

PAGE 1 of 1

Drilling Information

DATE START / END: 9/19/2022 - 9/19/2022 **TOTAL DEPTH (FT):** 20.0

CONTRACTOR: Parratt Wolf **DRILLER:** Mark Eaves **LOGGED BY:** B.Pabst

EQUIPMENT: GeoProbe 7822 DT **BORING METHOD:** Geoprobe/Hollow Stem Auger

AUGER ID/OD: N/A / N/A **CASING ID/OD:** N/A / N/A **CORE INFO:** _____

HAMMER TYPE: N/A **HAMMER WEIGHT (lbs):** N/A **HAMMER DROP (inch):** N/A

WATER LEVEL DEPTHS (ft): _____

GENERAL NOTES: Lab sample SB117(8-18), PAH analysis

ABBREVIATIONS:
ID = Inside Diameter; OD = Outside Diameter; Pen. = Penetration Length; Rec. = Recovery Length
bpf = Blows per Foot; mpf = Minute per Foot; S = Split Spoon; DP = Direct Push Sample
U = Undistrubed Tube Sample; C = Rock Core; V = Field Vane Shear; SC = Sonic Core
WOR = Weight of Rods; WOH = Weight of Hammer; RQD = Rock Quality Designation; OVM = Organic Vapor Meter
Q_v = Pocket Penetrometer Strength; S_v = Pocket Torvane Shear Strength; F_v = Field Vane Shear Strength; NA, NM = Not Applicable, Not Measured

Elev. (ft)	Depth (ft)	Casing Pen. (bpf) or Core Rate (mpf)	Sample No.	Type	Depth (ft)	Pen./ Rec. (in)	Blows Count or RQD	N60	GRAPHIC LOG	Sample Description & Classification	H_20 Depth	Remarks
										Vacuum excavation to 4' on 9/12/22. (0-8") phragmites roots (8-42") Silt and Gravel, debris		
420			S1		4 to 6	24/10	1-2-1-2			S1: (0-3") SILT with clay and organics. (3-5") Gravel and Silt (5-10") Clay and Silt, stiff, cohesive (CH). P=2-2.5		
	5		S2		6 to 8	24/11	2-3-2-2			S2: SILT, brown, moist (ML)		13 ppm
415			S3		8 to 10	24/16	2-2-2-2			S3: Fine SAND, trace Silt, wet.		46 ppm
	10		S4		10 to 12	24/24	1-2-1-2			S4: Similar to S3, 30% Silt		23 ppm
			S5		12 to 14	24/24	2-2-1-2			S5: (0-15") SILT (15-24") CLAY, some Silt, trace Sand and Gravel, red, wet.		22.4 ppm 1.3 ppm
410			S6		14 to 16	24/10	3-5-11-17			S6: CLAY, trace Gravel, red, plastic, Pen=0.5		2.2 ppm
	15		S7		16 to 18	24/12	11-21-24-21			S7: (0-6") Similar to S6. (6-12") CLAY (TILL). Pen>4.5, hard		15.8 ppm 1.0 ppm
405			S8		18 to 20	24/6	19-23-26-33			S8: Similar to S7(6-12"). (TILL)		1.1 ppm
	20									End of Boring at 20 feet		
400												

GEOTECHNICAL BORING LOG 02 034390.GPJ GEI DATA TEMPLATE.GDT 6/16/23

Stratification lines represent approximate boundary between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

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CITY/STATE: Canastota, NY
GEI PROJECT NUMBER: 034390

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455 Winding Brook Drive
Glastonbury, CT 06033
(860) 368-5300

Boring Location

NORTHING: _____ **EASTING:** _____ **STATION:** _____ **OFFSET:** _____

HORIZONTAL DATUM: NGVD-29 **STATION CENTERLINE:** _____

VERTICAL DATUM: NVGD 29 **ESTIMATED GROUND SURFACE ELEV. (FT):** 425.7

LOCATION: _____

BORING

SB-118

PAGE 1 of 1

Drilling Information

DATE START / END: 9/19/2022 - 9/19/2022 **TOTAL DEPTH (FT):** 20.0

CONTRACTOR: Parratt Wolf **DRILLER:** Mark Eaves **LOGGED BY:** B.Pabst

EQUIPMENT: GeoProbe 7822 DT **BORING METHOD:** Geoprobe/Hollow Stem Auger

AUGER ID/OD: N/A / N/A **CASING ID/OD:** N/A / N/A **CORE INFO:** _____

HAMMER TYPE: N/A **HAMMER WEIGHT (lbs):** N/A **HAMMER DROP (inch):** N/A

WATER LEVEL DEPTHS (ft): _____

GENERAL NOTES: _____

ABBREVIATIONS:
ID = Inside Diameter; OD = Outside Diameter; Pen. = Penetration Length; Rec. = Recovery Length
bpf = Blows per Foot; mpf = Minute per Foot; S = Split Spoon; DP = Direct Push Sample
U = Undistrubed Tube Sample; C = Rock Core; V = Field Vane Shear; SC = Sonic Core
WOR = Weight of Rods; WOH = Weight of Hammer; RQD = Rock Quality Designation; OVM = Organic Vapor Meter
Q_v = Pocket Penetrometer Strength; S_v = Pocket Torvane Shear Strength; F_v = Field Vane Shear Strength; NA, NM = Not Applicable, Not Measured

Elev. (ft)	Depth (ft)	Casing Pen. (bpf) or Core Rate (mpf)	SAMPLE INFORMATION: Sample No.	Type	Depth (ft)	Pen./ Rec. (in)	Blows Count or RQD	N60	GRAPHIC LOG	Sample Description & Classification	H_2O Depth	Remarks
425										Vacuum excavation to 3'3" on9/12/2022.		
	5		S1		4 to 6	24/0	3-3-1-1			S1: No recovery		0.5 ppm
420			S2		6 to 8	24/3	1-1-1-1			S2: SILT and CLAY, soft, brown, moist, moderate odor (CL).		2.3 ppm
			S3		8 to 10	24/19	2-2-1-2			S3: SAND, fine, brown, wet, trace NAPL blebs, odor.		0.6 ppm
	10		S4		10 to 12	24/14	1-3-1-1			S4: SILT, brown, wet, NAPL blebs and odor (ML).		1.0 ppm
415			S5		12 to 14	24/24	3-5-5-6			S5: (0-16") SAND, fine, loose, wet, no odor. (16-24") CLAY, dense, damp, red, no odor.		0.4 ppm
			S6		14 to 16	24/18	5-7-10-14			S6: (0-8") SILT and SAND, brown, wet. (10-18") SILT and CLAY (ML), trace sand and fine gravel, red. Pen=2.75.		1.1 ppm
	15		S7		16 to 18	24/24	14-15-19-21			S7: (0-17") SAND, moist, brown. (17-24") SILT and CLAY, dense, damp, red. Pen>4.5		0.4 ppm
410			S8		18 to 20	24/10	19-24-29-37			S8: (0-5") SILT, little sand, wet at 5" a coarse sand and gravel bed. (5-10") Clay and Silt, trace gravel, and sand (TILL)		1.3 ppm
	20									End of Boring at 20 feet		
405												

GEOTECHNICAL BORING LOG 02 034390.GPJ GEI DATA TEMPLATE.GDT 6/16/23

Stratification lines represent approximate boundary between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

CLIENT: National Grid
PROJECT NAME: Canastota MGP
CITY/STATE: Canastota, NY
GEI PROJECT NUMBER: 034390

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455 Winding Brook Drive
Glastonbury, CT 06033
(860) 368-5300

Boring Location

NORTHING: _____ **EASTING:** _____ **STATION:** _____ **OFFSET:** _____

HORIZONTAL DATUM: NGVD-29 **STATION CENTERLINE:** _____

VERTICAL DATUM: NVGD 29 **ESTIMATED GROUND SURFACE ELEV. (FT):** 423.1

LOCATION: _____

BORING

SB-121

PAGE 1 of 1

Drilling Information

DATE START / END: 12/9/2022 - 12/9/2022 **TOTAL DEPTH (FT):** 16.0

CONTRACTOR: Parratt Wolf **DRILLER:** Mark Eaves **LOGGED BY:** B.Pabst

EQUIPMENT: GeoProbe 7822 DT **BORING METHOD:** Geoprobe/Hollow Stem Auger

AUGER ID/OD: N/A / N/A **CASING ID/OD:** N/A / N/A **CORE INFO:** _____

HAMMER TYPE: N/A **HAMMER WEIGHT (lbs):** N/A **HAMMER DROP (inch):** N/A

WATER LEVEL DEPTHS (ft): _____

GENERAL NOTES: Sample SB121(11-11.3), PAHs

ABBREVIATIONS:
ID = Inside Diameter; OD = Outside Diameter; Pen. = Penetration Length; Rec. = Recovery Length
bpf = Blows per Foot; mpf = Minute per Foot; S = Split Spoon; DP = Direct Push Sample
U = Undistrubed Tube Sample; C = Rock Core; V = Field Vane Shear; SC = Sonic Core
WOR = Weight of Rods; WOH = Weight of Hammer; RQD = Rock Quality Designation; OVM = Organic Vapor Meter
Q_v = Pocket Penetrometer Strength; S_v = Pocket Torvane Shear Strength; F_v = Field Vane Shear Strength; NA, NM = Not Applicable, Not Measured

Elev. (ft)	Depth (ft)	Casing Pen. (bpf) or Core Rate (mpf)	SAMPLE INFORMATION: Sample No.	Type	Depth (ft)	Pen./ Rec. (in)	Blows Count or RQD	N60	GRAPHIC LOG	Sample Description & Classification	H_20 Depth	Remarks
										Vacuum excavation to 4' on 15/5/2022. (0-8") Topsoil. (8-24") SILT and GRAVEL (FILL). 24-48") Similar, becomes cohesive, trace odor.		
420			S1		4 to 8	48/46				S1: (0-8") SILT and GRAVEL, soft, wet, occational spots of sheen. (8-16") SILT and SAND, firm, moist, sheen spots. (16-46") fine SAND and SILT, wet, NAPL and Sheen in water.		0.2 ppm 16.6 ppm
	5											
415			S2		8 to 12	48/42				S2: (0-3") Similar to S1(16-46"). (3-29") SAND, wet, increasing sheen spots at 27-29". (29-36") CLAY, brown, moist (CL), no sheen. (36-40") SILT and Sand, soft, grey, no sheen. (40-42") gravel in tip		1 ppm
	10											
			S3		12 to 16	48/35				S3: (0-3") SILT and SAND, little gravel, soft, wet. (3-18") CLAY, firm (CL), damp, trace gravel, dark brown. (18-35") TILL		0.6 ppm
410												
	15											
										End of Boring at 16 feet		
405												
	20											
400												

Stratification lines represent approximate boundary between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

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CITY/STATE: Canastota, NY
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(860) 368-5300

GEOTECHNICAL BORING LOG 02 034390.GPJ GEI DATA TEMPLATE.GDT 6/16/23

Boring Location

NORTHING: _____ **EASTING:** _____ **STATION:** _____ **OFFSET:** _____

HORIZONTAL DATUM: NGVD-29 **STATION CENTERLINE:** _____

VERTICAL DATUM: NVGD 29 **ESTIMATED GROUND SURFACE ELEV. (FT):** 421.6

LOCATION: _____

BORING

SB-122

PAGE 1 of 1

Drilling Information

DATE START / END: 12/9/2022 - 12/9/2022 **TOTAL DEPTH (FT):** 20.0

CONTRACTOR: Parratt Wolf **DRILLER:** Mark Eaves **LOGGED BY:** B.Pabst

EQUIPMENT: GeoProbe 7822 DT **BORING METHOD:** Geoprobe/Hollow Stem Auger

AUGER ID/OD: N/A / N/A **CASING ID/OD:** N/A / N/A **CORE INFO:** _____

HAMMER TYPE: N/A **HAMMER WEIGHT (lbs):** N/A **HAMMER DROP (inch):** N/A

WATER LEVEL DEPTHS (ft): _____

GENERAL NOTES: Lab sample SB122(5.3-5.6), PAH analysis

ABBREVIATIONS:
ID = Inside Diameter; OD = Outside Diameter; Pen. = Penetration Length; Rec. = Recovery Length
bpf = Blows per Foot; mpf = Minute per Foot; S = Split Spoon; DP = Direct Push Sample
U = Undistrubed Tube Sample; C = Rock Core; V = Field Vane Shear; SC = Sonic Core
WOR = Weight of Rods; WOH = Weight of Hammer; RQD = Rock Quality Designation; OVM = Organic Vapor Meter
Q_v = Pocket Penetrometer Strength; S_v = Pocket Torvane Shear Strength; F_v = Field Vane Shear Strength; NA, NM = Not Applicable, Not Measured

Elev. (ft)	Depth (ft)	Casing Pen. (bpf) or Core Rate (mpf)	SAMPLE INFORMATION: Sample No.	Type	Depth (ft)	Pen./ Rec. (in)	Blows Count or RQD	N60	GRAPHIC LOG	Sample Description & Classification	H_20 Depth	Remarks
420										Hand Cleared to 4' on 12/5/22 (0-6") TOPSOIL (6-12") FILL (12-48") SILT, soft, brown, wet.		
	5		S1		4 to 8	48/32				S1: (0-24") Fine SAND (24-32") SILT, dark brown (ML), gravel in tip of spoon sampler.		0.1 ppm
415			S2		8 to 12	48/39				S2: (0-15") Similar to S1(12-48") (15-20") SILT, little sand (20-39") SILT and CLAY, dense		0 ppm
410	10		S3		12 to 16	48/42				S3: (0-13") Similar to S2(20-39") (13-42") CLAY, hard, trace fine gravel (CL)		
	15		S4		16 to 20	48/46				S4:((0-4") Similar to S3(13-42") (4-46") SILT and CLAY, trace gravel, hard, dry, red. (TILL)		
405												
	20									End of Boring at 20 feet		
400												

GEOTECHNICAL BORING LOG 02 034390.GPJ GEI DATA TEMPLATE.GDT 6/16/23

Stratification lines represent approximate boundary between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

CLIENT: National Grid
PROJECT NAME: Canastota MGP
CITY/STATE: Canastota, NY
GEI PROJECT NUMBER: 034390

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455 Winding Brook Drive
Glastonbury, CT 06033
(860) 368-5300

Boring Location

NORTHING: _____ **EASTING:** _____ **STATION:** _____ **OFFSET:** _____

HORIZONTAL DATUM: NGVD-29 **STATION CENTERLINE:** _____

VERTICAL DATUM: NVGD 29 **ESTIMATED GROUND SURFACE ELEV. (FT):** 423.2

LOCATION: _____

BORING

SB-123

PAGE 1 of 1

Drilling Information

DATE START / END: 12/9/2022 - 12/9/2022 **TOTAL DEPTH (FT):** 18.0

CONTRACTOR: Parratt Wolf **DRILLER:** Mark Eaves **LOGGED BY:** B.Pabst

EQUIPMENT: GeoProbe 7822 DT **BORING METHOD:** Geoprobe/Hollow Stem Auger

AUGER ID/OD: N/A / N/A **CASING ID/OD:** N/A / N/A **CORE INFO:** _____

HAMMER TYPE: N/A **HAMMER WEIGHT (lbs):** N/A **HAMMER DROP (inch):** N/A

WATER LEVEL DEPTHS (ft): _____

GENERAL NOTES: Lab sample SB123 (6.5-7.5') for PAH analysis

ABBREVIATIONS:
ID = Inside Diameter; OD = Outside Diameter; Pen. = Penetration Length; Rec. = Recovery Length
bpf = Blows per Foot; mpf = Minute per Foot; S = Split Spoon; DP = Direct Push Sample
U = Undistrubed Tube Sample; C = Rock Core; V = Field Vane Shear; SC = Sonic Core
WOR = Weight of Rods; WOH = Weight of Hammer; RQD = Rock Quality Designation; OVM = Organic Vapor Meter
Q_v = Pocket Penetrometer Strength; S_v = Pocket Torvane Shear Strength; F_v = Field Vane Shear Strength; NA, NM = Not Applicable, Not Measured

Elev. (ft)	Depth (ft)	Casing Pen. (bpf) or Core Rate (mpf)	SAMPLE INFORMATION: Sample No.	Type	Depth (ft)	Pen./ Rec. (in)	Blows Count or RQD	N60	GRAPHIC LOG	Sample Description & Classification	H_2O Depth	Remarks
										Hand cleared to 3.5" on 12/5/22 (0-8") TOPSOIL (8-42") SILT and Gravel, brown, moist-wet, hard debris at 36".		
420	5		S1		4 to 6	24/24	4-9-7-12			S1: SILT and CLAY, dense (CL), brown, moist (6-10") fine SAND interval		0 ppm
			S2		6 to 8	24/24	10-14-14-12			S2: CLAY and SILT, hard, dark, brown-red (CL)		0 ppm
415	10		S3		8 to 10	24/19	4-6-9-12			S3: (0-8") Similar to S2. (8-9") fine Sand (9-19)" Interbedded SAND and CLAY.		0 ppm
			S4		10 to 12	24/24	6-8-10-14			S4: Similar to S3.		0 ppm
410	15		S5		12 to 14	24/23	10-17-21-30			S5: (0-4") GRAVEL, some silt (4-14") SANDm some Silt, trace Gravel. (14-18") Clay and Silt (18-23") fine SAND, trace silt.		0 ppm
			S6		14 to 16	24/24	10-12-17-24			S6: CLAY, hard, cohesive, damp (CL)		0 ppm
405	20		S7		16 to 18	24/22	21-27-33-41			S7: (0-17") Similar to S6 (17-22") TILL		0 ppm
400										End of Boring at 18 feet		

GEOTECHNICAL BORING LOG 02 034390.GPJ GEI DATA TEMPLATE.GDT 6/16/23

Stratification lines represent approximate boundary between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

CLIENT: National Grid
PROJECT NAME: Canastota MGP
CITY/STATE: Canastota, NY
GEI PROJECT NUMBER: 034390

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455 Winding Brook Drive
Glastonbury, CT 06033
(860) 368-5300

Boring Location

NORTHING: _____ **EASTING:** _____ **STATION:** _____ **OFFSET:** _____

HORIZONTAL DATUM: NGVD-29 **STATION CENTERLINE:** _____

VERTICAL DATUM: NVGD 29 **ESTIMATED GROUND SURFACE ELEV. (FT):** 426.3

LOCATION: _____

BORING

SB-124

Drilling Information

DATE START / END: 12/7/2022 - 12/7/2022 **TOTAL DEPTH (FT):** 25.3

CONTRACTOR: Parratt Wolf **DRILLER:** Mark Eaves **LOGGED BY:** B.Pabst

EQUIPMENT: GeoProbe 7822 DT **BORING METHOD:** Geoprobe/Hollow Stem Auger

AUGER ID/OD: N/A / N/A **CASING ID/OD:** N/A / N/A **CORE INFO:** _____

HAMMER TYPE: N/A **HAMMER WEIGHT (lbs):** N/A **HAMMER DROP (inch):** N/A

WATER LEVEL DEPTHS (ft): _____

GENERAL NOTES: Lab sample SB124(6.5-7.0) PAH analysis

ABBREVIATIONS:
ID = Inside Diameter; OD = Outside Diameter; Pen. = Penetration Length; Rec. = Recovery Length
bpf = Blows per Foot; mpf = Minute per Foot; S = Split Spoon; DP = Direct Push Sample
U = Undistrubed Tube Sample; C = Rock Core; V = Field Vane Shear; SC = Sonic Core
WOR = Weight of Rods; WOH = Weight of Hammer; RQD = Rock Quality Designation; OVM = Organic Vapor Meter
Q_v = Pocket Penetrometer Strength; S_v = Pocket Torvane Shear Strength; F_v = Field Vane Shear Strength; NA, NM = Not Applicable, Not Measured

Elev. (ft)	Depth (ft)	Casing Pen. (bpf) or Core Rate (mpf)	SAMPLE INFORMATION: Sample No.	Type	Depth (ft)	Pen./ Rec. (in)	Blows Count or RQD	N60	GRAPHIC LOG	Sample Description & Classification	H_20 Depth	Remarks
425										Hand cleared to 4' on 12/5/22 (0-9") Asphalt (9-30") Gravel, ash, silt, black/brown (FILL) (30-51") Gravel and Silt, wire, debris (FILL)		
	5		S1		4 to 6	24/12	WOH-WOH-4-6			S1: SILT and GRAVEL, ash (FILL)		1 ppm
420			S2		6 to 8	24/21	1-2-1-2			S2: (0-5") Similar to S1 (5-11") SILT and CLAY, red/grey, (CL) (11-21") CLAY and SILT, red (CL)		0.1 ppm
			S3		8 to 10	24/24	3-3-3-3			S3: Similar to S2, dense		0.4 ppm
	10		S4		10 to 12	24/22	3-5-7-11			S4: SILT and CLAY, dense, red (ML)		0 ppm
415			S5		12 to 14	24/23	8-11-14-14			S5: Similar to S4.		0 ppm
			S6		14 to 16	24/20	2-2-4-5			S6: SILT and CLAY, soft, wet, cohesive (CL).		0 ppm
	15		S7		16 to 18	24/24	2-2-4-7			S7: (0-7") Similar to S6, trace gravel (7-24") SILT and Clay, trace sand, becomes firm.		
410			S8		18 to 20	24/20	2-3-11-11			S8: CLAY and SILT, hard, brittle, dark red.		0 ppm
	20		S9		20 to 22	24/6	10-14-16-18			S9: Similar to S8		0 ppm
405			S10		22 to 24	24/17	24-24-32-44			S10: Similar to S8		0 ppm
			S11		24 to	21/21	18-26-31-50/3			S11: (0-3") Similar to S8 (3-21") Clay and Silt, trace sand and fine gravel,		

Stratification lines represent approximate boundary between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

CLIENT: National Grid
PROJECT NAME: Canastota MGP
CITY/STATE: Canastota, NY
GEI PROJECT NUMBER: 034390

GEI Consultants, Inc.
455 Winding Brook Drive
Glastonbury, CT 06033
(860) 368-5300

GEOTECHNICAL BORING LOG 02 034390.GPJ GEI DATA TEMPLATE.GDT 6/16/23

Boring Location

NORTHING: _____ **EASTING:** _____ **STATION:** _____ **OFFSET:** _____

HORIZONTAL DATUM: NGVD-29 **STATION CENTERLINE:** _____

VERTICAL DATUM: NVGD 29 **ESTIMATED GROUND SURFACE ELEV. (FT):** 426.3

LOCATION: _____

BORING

SB-124

Elev. (ft)	Depth (ft)	Casing Pen. (bpf) or Core Rate (mpf)	SAMPLE INFORMATION: Sample No.	Type	Depth (ft)	Pen./ Rec. (in)	Blows Count or RQD	N60	GRAPHIC LOG	Sample Description & Classification	H_20 Depth	Remarks
					25.75					brittle, very dense (TILL)		
400										End of Boring at 25.25 feet		
	30											
395												
	35											
390												
	40											
385												
	45											
380												
	50											
375												
	55											
370												

Stratification lines represent approximate boundary between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

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GEOTECHNICAL BORING LOG 02 034390.GPJ GEI DATA TEMPLATE.GDT 6/16/23

Boring Location

NORTHING: _____ **EASTING:** _____ **STATION:** _____ **OFFSET:** _____

HORIZONTAL DATUM: NGVD-29 **STATION CENTERLINE:** _____

VERTICAL DATUM: NVGD 29 **ESTIMATED GROUND SURFACE ELEV. (FT):** 422.8

LOCATION: _____

BORING

SB-126

PAGE 1 of 1

Drilling Information

DATE START / END: 12/9/2022 - 12/9/2022 **TOTAL DEPTH (FT):** 16.0

CONTRACTOR: Parratt Wolf **DRILLER:** Mark Eaves **LOGGED BY:** B.Pabst

EQUIPMENT: GeoProbe 7822 DT **BORING METHOD:** Geoprobe/Hollow Stem Auger

AUGER ID/OD: N/A / N/A **CASING ID/OD:** N/A / N/A **CORE INFO:** _____

HAMMER TYPE: N/A **HAMMER WEIGHT (lbs):** N/A **HAMMER DROP (inch):** N/A

WATER LEVEL DEPTHS (ft): _____

GENERAL NOTES: Lab Sample SB126(4-5') PAH analysis

ABBREVIATIONS:
ID = Inside Diameter; OD = Outside Diameter; Pen. = Penetration Length; Rec. = Recovery Length
bpf = Blows per Foot; mpf = Minute per Foot; S = Split Spoon; DP = Direct Push Sample
U = Undistrubed Tube Sample; C = Rock Core; V = Field Vane Shear; SC = Sonic Core
WOR = Weight of Rods; WOH = Weight of Hammer; RQD = Rock Quality Designation; OVM = Organic Vapor Meter
Q_v = Pocket Penetrometer Strength; S_v = Pocket Torvane Shear Strength; F_v = Field Vane Shear Strength; NA, NM = Not Applicable, Not Measured

Elev. (ft)	Depth (ft)	Casing Pen. (bpf) or Core Rate (mpf)	SAMPLE INFORMATION: Sample No.	Type	Depth (ft)	Pen./ Rec. (in)	Blows Count or RQD	N60	GRAPHIC LOG	Sample Description & Classification	H_2O Depth	Remarks
										Vacuum excavation to 4'		
420			S1		4 to 8	48/36				S1: (0-26") SILT, brown, dense, decreasing, density with depth (26-36") fine SAND, brown.		0 ppm
	5											
415			S2		8 to 12	48/38				S2: (0-33") SILT, some fine Sand in upper 10". (33-38") CLAY and Silt, brown/red, soft, low plasticity		0 ppm
	10											
410			S3		12 to 16	48/39				S3: (0-3") SAND and GRAVEL, some silt. (3-48") CLAY and SILT, trace gravel (TILL).		0 ppm
	15											
405										End of Boring at 16 feet		
	20											
400												

Stratification lines represent approximate boundary between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

CLIENT: National Grid
PROJECT NAME: Canastota MGP
CITY/STATE: Canastota, NY
GEI PROJECT NUMBER: 034390

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(860) 368-5300

GEOTECHNICAL BORING LOG 02 034390.GPJ GEI DATA TEMPLATE.GDT 6/16/23

Boring Location

NORTHING: _____ **EASTING:** _____ **STATION:** _____ **OFFSET:** _____

HORIZONTAL DATUM: NGVD-29 **STATION CENTERLINE:** _____

VERTICAL DATUM: NVGD 29 **ESTIMATED GROUND SURFACE ELEV. (FT):** 422.3

LOCATION: _____

BORING

SB-127

PAGE 1 of 1

Drilling Information

DATE START / END: 12/9/2022 - 12/9/2022 **TOTAL DEPTH (FT):** 16.0

CONTRACTOR: Parratt Wolf **DRILLER:** Mark Eaves **LOGGED BY:** B.Pabst

EQUIPMENT: GeoProbe 7822 DT **BORING METHOD:** Geoprobe/Hollow Stem Auger

AUGER ID/OD: N/A / N/A **CASING ID/OD:** N/A / N/A **CORE INFO:** _____

HAMMER TYPE: N/A **HAMMER WEIGHT (lbs):** N/A **HAMMER DROP (inch):** N/A

WATER LEVEL DEPTHS (ft): _____

GENERAL NOTES: Lab sample SB127(9-9.5), PAHs

ABBREVIATIONS:
ID = Inside Diameter; OD = Outside Diameter; Pen. = Penetration Length; Rec. = Recovery Length
bpf = Blows per Foot; mpf = Minute per Foot; S = Split Spoon; DP = Direct Push Sample
U = Undistrubed Tube Sample; C = Rock Core; V = Field Vane Shear; SC = Sonic Core
WOR = Weight of Rods; WOH = Weight of Hammer; RQD = Rock Quality Designation; OVM = Organic Vapor Meter
Q_v = Pocket Penetrometer Strength; S_v = Pocket Torvane Shear Strength; F_v = Field Vane Shear Strength; NA, NM = Not Applicable, Not Measured

Elev. (ft)	Depth (ft)	Casing Pen. (bpf) or Core Rate (mpf)	SAMPLE INFORMATION: Sample No.	Type	Depth (ft)	Pen./ Rec. (in)	Blows Count or RQD	N60	GRAPHIC LOG	Sample Description & Classification	H_20 Depth	Remarks
										Hand Cleared to 4'.		
420												
			S1		4 to 8	48/43				S1: (0-4") SILT, sand and gravel, loose,wet. (4-24") very fine sand and silt, firm, moist, brown. (18-32") sheen. (18-32") sheen (20-32") NAPL coated. (24-43") CLAY, wet, trce odor, no sheen.		0.6 ppm 4.9 ppm
	5											
415												
			S2		8 to 12	48/48				S2: (0-19") SILT and CLAY. (4-12") NAPL streaks. (19-48") CLAY and SILT, tace fine gravel. (TILL)		7.9 ppm 1 ppm
	10											
410			S3		12 to 16	48/37				S3: (0-29") Similar to S2(19-48"), moist, firm, plastic, (CL) (29-37") Similar becomes harder, dry.		0.2 ppm
	15											
405										End of Boring at 16 feet		
	20											
400												

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CLIENT: National Grid
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(860) 368-5300

GEOTECHNICAL BORING LOG 02 034390.GPJ GEI DATA TEMPLATE.GDT 6/16/23

Boring Location

NORTHING: _____ **EASTING:** _____ **STATION:** _____ **OFFSET:** _____

HORIZONTAL DATUM: NGVD-29 **STATION CENTERLINE:** _____

VERTICAL DATUM: NVGD 29 **ESTIMATED GROUND SURFACE ELEV. (FT):** 422.7

LOCATION: _____

BORING

SB-128

PAGE 1 of 1

Drilling Information

DATE START / END: 12/9/2022 - 12/9/2022 **TOTAL DEPTH (FT):** 16.0

CONTRACTOR: Parratt Wolf **DRILLER:** Mark Eaves **LOGGED BY:** B.Pabst

EQUIPMENT: GeoProbe 7822 DT **BORING METHOD:** Geoprobe/Hollow Stem Auger

AUGER ID/OD: N/A / N/A **CASING ID/OD:** N/A / N/A **CORE INFO:** _____

HAMMER TYPE: N/A **HAMMER WEIGHT (lbs):** N/A **HAMMER DROP (inch):** N/A

WATER LEVEL DEPTHS (ft): _____

GENERAL NOTES: Lab Sample SB128(5.5-6) for PAH analysis. SB128(7-7.5) for PAH anaylysis

ABBREVIATIONS:

ID = Inside Diameter	bpf = Blows per Foot	U = Undistrubed Tube Sample	WOR = Weight of Rods	Q_v = Pocket Penetrometer Strength	
OD = Outside Diameter	mpf = Minute per Foot	C = Rock Core	WOH = Weight of Hammer	S_v = Pocket Torvane Shear Strength	
Pen. = Penetration Length	S = Split Spoon	V = Field Vane Shear	RQD = Rock Quality Designation	F_v = Field Vane Shear Strength	
Rec. = Recovery Length	DP = Direct Push Sample	SC = Sonic Core	OVM = Organic Vapor Meter	NA, NM = Not Applicable, Not Measured	

Elev. (ft)	Depth (ft)	Casing Pen. (bpf) or Core Rate (mpf)	SAMPLE INFORMATION: Sample No.	Type	Depth (ft)	Pen./ Rec. (in)	Blows Count or RQD	N60	GRAPHIC LOG	Sample Description & Classification	H_20 Depth	Remarks
										Hand cleared to 4' Not logged (0-4") SOD		
420			S1		4 to 8	48/44				S1: (0-24") SILT, hard, trace roots, mottled grey/brown (22-44") fine SAND, some Silt, slight odor, occational sheen		0 ppm 1.6 ppm
415	5		S2		8 to 12	48/18				S2: (0-24") lost-presumed to be sand. (24-45") very fine SAND, some Silt, brown, no odor or sheen (45-48") CLAY, soft, moderate plasticity, brown (CL)		0 ppm
410	10		S3		12 to 16	48/36				S3: (0-5") SAND and GRAVEL, grey. (5-11") CLAY, soft, plastic, red/brown (CL) (11-36") TILL		0 ppm
405	15									End of Boring at 16 feet		
400	20											

Stratification lines represent approximate boundary between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

CLIENT: National Grid
PROJECT NAME: Canastota MGP
CITY/STATE: Canastota, NY
GEI PROJECT NUMBER: 034390

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(860) 368-5300

GEOTECHNICAL BORING LOG 02 034390.GPJ GEI DATA TEMPLATE.GDT 6/16/23

Boring Location

NORTHING: _____ **EASTING:** _____ **STATION:** _____ **OFFSET:** _____

HORIZONTAL DATUM: NGVD-29 **STATION CENTERLINE:** _____

VERTICAL DATUM: NVGD 29 **ESTIMATED GROUND SURFACE ELEV. (FT):** 421.8

LOCATION: _____

BORING

SB-129

PAGE 1 of 1

Drilling Information

DATE START / END: 12/9/2022 - 12/9/2022 **TOTAL DEPTH (FT):** 16.0

CONTRACTOR: Parratt Wolf **DRILLER:** Mark Eaves **LOGGED BY:** B.Pabst

EQUIPMENT: GeoProbe 7822 DT **BORING METHOD:** Geoprobe/Hollow Stem Auger

AUGER ID/OD: N/A / N/A **CASING ID/OD:** N/A / N/A **CORE INFO:** _____

HAMMER TYPE: N/A **HAMMER WEIGHT (lbs):** N/A **HAMMER DROP (inch):** N/A

WATER LEVEL DEPTHS (ft): _____

GENERAL NOTES: Lab Sample SB129(5-6') PAH analysis

ABBREVIATIONS:
ID = Inside Diameter; OD = Outside Diameter; Pen. = Penetration Length; Rec. = Recovery Length
bpf = Blows per Foot; mpf = Minute per Foot; S = Split Spoon; DP = Direct Push Sample
U = Undistrubed Tube Sample; C = Rock Core; V = Field Vane Shear; SC = Sonic Core
WOR = Weight of Rods; WOH = Weight of Hammer; RQD = Rock Quality Designation; OVM = Organic Vapor Meter
Q_v = Pocket Penetrometer Strength; S_v = Pocket Torvane Shear Strength; F_v = Field Vane Shear Strength; NA, NM = Not Applicable, Not Measured

Elev. (ft)	Depth (ft)	Casing Pen. (bpf) or Core Rate (mpf)	SAMPLE INFORMATION: Sample No.	Type	Depth (ft)	Pen./ Rec. (in)	Blows Count or RQD	N60	GRAPHIC LOG	Sample Description & Classification	H_2O Depth	Remarks
420										Hand cleared to 4' Not logged (0-4") SOD		
	5		S1		4 to 8	48/48				S1: (0-5") SILT, trace gravel, brown, soft (5-20") SILT and fine Sand, firm (20-48") SILT, firm	0.8 ppm 5.7 ppm	
415			S2		8 to 12	48/37				S2: (0-18") CLAY and SILT, soft. (18-26") SAND and GRAVEL, some silt (26-37") CLAY, red, dense.	0.8 ppm	
410	10		S3		12 to 16	48/41				S3: (0-17") Similar to S2(26-37") (17-41") TILL	0.1 ppm	
	15											
405										End of Boring at 16 feet		
	20											
400												

Stratification lines represent approximate boundary between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

CLIENT: National Grid
PROJECT NAME: Canastota MGP
CITY/STATE: Canastota, NY
GEI PROJECT NUMBER: 034390

GEI Consultants, Inc.
455 Winding Brook Drive
Glastonbury, CT 06033
(860) 368-5300

GEOTECHNICAL BORING LOG 02 034390.GPJ GEI DATA TEMPLATE.GDT 6/16/23

Attachment B.1

ISS Treatability Study Laboratory Reports

TEST PIT LOG

TP-101

PROJECT	Canastota Former MGP Site PDI	**PG.** 1 **OF** 1	
LOCATION	Canastota, New York	**LOCATION**	East side of DPW garage, mid-wall
CLIENT	National Grid		
CONTRACTOR	Parratt-Wolff	**GROUND EL.**	428.0
OPERATOR	Jolaan Price	**DATUM**	NAVD88
EQUIPMENT	mini-excavator	**PROJECT NO.**	034390
WEATHER	cloudy, 60s-70s	**TIME STARTED**	8:30
GEI REP	B. Coulombe **DATE** 9/7/2022	**TIME COMPLETED**	9:30

DEPTH OF LAYER CHANGE	SAMPLE NO. and TYPE	SAMPLE DEPTH (FT)	SOIL DESCRIPTION
			0-8": Asphalt, hard. Exacavator not able to break asphalt that was not cut.
1.0			1' to 2.6": SAND, widely graded, with silt. Grades at 2' to darker fill material with 1-2 inch gravel layers.
2.0			2' 6" to 2' 8": Tar layer, semi-plastic, black
3.0			2' 8" - 4' 8": FILL, cinders, gravel to silt-size
	TP101(3)		
4.0		PID @ 4'	
		PID @ 5'	4' 8" Water table encountered
5.0			Bottom of test pit @ 5'
6.0			



NOTES:
Lab sample at 3-4 ft @ 09:30 for SVOCs

Test pit orientatin E-W

Photo Orientation

→ N

PIT DIMENSIONS (FT):

LENGTH	
WIDTH	
DEPTH	5

GEI Consultants

TEST PIT LOG

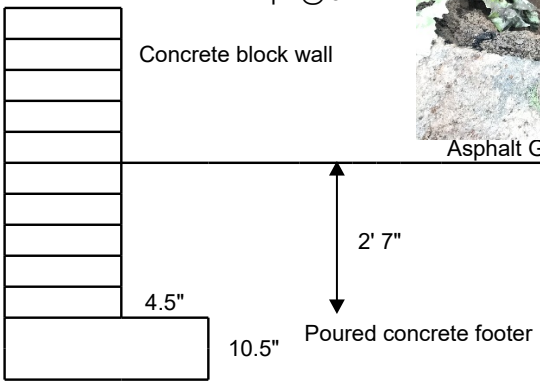
TP-102

PROJECT	Canastota Former MGP Site PDI	**PG.**	1 **OF** 1
LOCATION	Canastota, New York	**LOCATION**	North side of DPW garage
CLIENT	National Grid		
CONTRACTOR	Parratt-Wolff	**GROUND EL.**	427.1
OPERATOR	Jolaan Price	**DATUM**	NAVD88
EQUIPMENT	mini-excavator	**PROJECT NO.**	034390
WEATHER	cloudy, 60s-70s	**TIME STARTED**	9:50
GEI REP	B. Coulombe **DATE** 9/7/2022	**TIME COMPLETED**	10:30

DEPTH OF LAYER CHANGE	SAMPLE NO. and TYPE	SAMPLE DEPTH (FT)	SOIL DESCRIPTION
			0-8": Asphalt
1.0			8" - 2' 7": FILL, SAND, coarse, widely-graded down to find sand and silt (~10% silt), damp, no odor. Backfill for construction of garage foundation
2.0			
3.0			2' 7"-5': Fill, mix of natural and anthropogenic materials, including sand and gravel, cinders, bottles, trash. No odors or sheen
4.0			
5.0	TP102(5)		5' Water table encountered
			Bottom of test pit @ 5'
6.0			Concrete block wall



Asphalt Ground Surface



NOTES:

Lab sample at 5' @ 09:30 for SVOCs

Test pit orientatin N-S

Photo Orientation

N

PIT DIMENSIONS (FT):

LENGTH	10
WIDTH	2.5
DEPTH	5

GEI Consultants

TEST PIT LOG

TP-103

PROJECT	Canastota Former MGP Site PDI	**PG.** 1 **OF** 1	
LOCATION	Canastota, New York	**LOCATION**	West side of salt storage building
CLIENT	National Grid		
CONTRACTOR	Parratt-Wolff	**GROUND EL.**	426.3
OPERATOR	Jolaan Price	**DATUM**	NAVD88
EQUIPMENT	mini-excavator	**PROJECT NO.**	034390
WEATHER	rainy, mid-60s	**TIME STARTED**	11:15
GEI REP	B. Coulombe **DATE** 9/6/2022	**TIME COMPLETED**	12:00

DEPTH OF LAYER CHANGE	SAMPLE NO. and TYPE	SAMPLE DEPTH (FT)	SOIL DESCRIPTION
			Salt Storage foundation: Asphalt under large movable concrete blocks for fabric structure frame. Asphalt layers total approximately 1 foot thick, underlain by bricks and hard fill.
			Soils outside of asphalt described below
1.0			0-7': FILL: Sand and silt with man-made debris (concrete fragments, glass, rubber belts, brick bottles, wood fragments). Large stones and debris ~10% . Soil density ranges from hard to soft.
2.0			
3.0			3': Slight odor in red-brown fill soil
4.0			
5.0			
6.0			
7.0	TP103(7)		7': NAPL entering test pit floating on water, strong odor
			End of test pit at 7'



NOTES:
Sample TP103(7) 11:30 collected for SVOC analysis

Test pit orientation E-W

Photo Orientation

N

PIT DIMENSIONS (FT):

LENGTH	10'
WIDTH	3'
DEPTH	7'

GEI Consultants

TEST PIT LOG

TP-104

PROJECT	Canastota Former MGP Site PDI	**PG.** 1 **OF** 1	
LOCATION	Canastota, New York	**LOCATION**	South side of salt storage bldg, at east end
CLIENT	National Grid	**GROUND EL.**	427.0
CONTRACTOR	Parratt-Wolff	**DATUM**	NAVD88
OPERATOR	Jolaan Price	**PROJECT NO.**	034390
EQUIPMENT	mini-excavator	**TIME STARTED**	12:20
WEATHER	rainy, 60s	**TIME COMPLETED**	13:00
GEI REP	B. Coulombe **DATE** 9/6/2022		

DEPTH OF LAYER CHANGE	SAMPLE NO. and TYPE	SAMPLE DEPTH (FT)	SOIL DESCRIPTION
			Salt storage bldg. foundation: Asphalt under large movable concrete blocks for fabric structure frame. Asphalt layers total approximately 1' 2" thick, over 1'6" of concrete
1.0			0-2' 8": FILL, widely-graded SAND, some gravel, little silt. Gravel fraction includes crushed asphalt. Water entering test pit at 1.5'
2.0			
3.0			2' 8" - 4': FILL, SAA with increasing silt content, trace wood pieces, wet
4.0			4'-6': FILL, SAA with increasing man-made material (cinders, bottles, trash, brick, wire)
5.0	TP(104)5.5		
6.0			End of test pit @ 6'



NOTES:
Test pit was re-excavated to collect ISS bulk sample on 9/7/22
Lab sample TP104(5.5) collected on 9/7/22 for SVOCs

Test pit orientation N-S

Photo orientation

N

PIT DIMENSIONS (FT):

LENGTH	9'
WIDTH	2.5'
DEPTH	6'

GEI Consultants

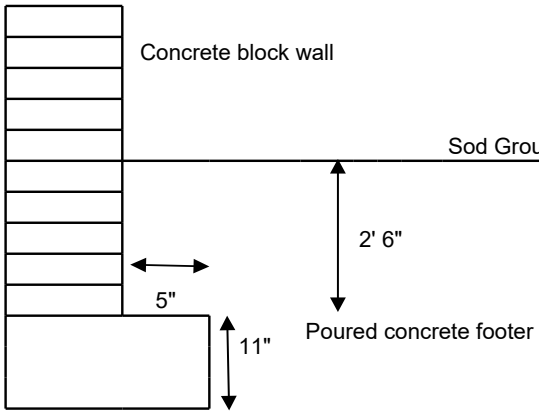
TEST PIT LOG

TP-105

PROJECT	Canastota Former MGP Site PDI	**PG.**	1 **OF** 1
LOCATION	Canastota, New York	**LOCATION**	West side of DPW garage, mid-wall
CLIENT	National Grid	**GROUND EL.**	427.6
CONTRACTOR	Parratt-Wolff	**DATUM**	NAVD88
OPERATOR	Jolaan Price	**PROJECT NO.**	034390
EQUIPMENT	mini-excavator	**TIME STARTED**	15:15
WEATHER	rainy, 60s	**TIME COMPLETED**	16:00
GEI REP	B. Coulombe **DATE** 9/6/2022		

DEPTH OF LAYER CHANGE	SAMPLE NO. and TYPE	SAMPLE DEPTH (FT)	SOIL DESCRIPTION
			0-6": SOD
1.0			6"-2': FILL - SAND, some gravel and silt, light brown, damp
2.0			2-2' 6": FILL- SAND, with gravel-size weathered cinders, trace coal, orange, damp
3.0			2' 6" - 4': FILL - SAND, some gravel and silt, dark grey
4.0			4': CLAY, trace sand and organics, tan, wet, dense, conhesive. Groundwater entering test pit at 4' 4' - 4' 6": course SAND, little gravel and silt,
5.0	TP105(4.5)		End of Test Pit @ 4' 6"
6.0			





NOTES:
Lab sample at 4.5 ft for SVOCs

Test pit orientation E-W

Photo orientation

N

PIT DIMENSIONS (FT):

LENGTH	9
WIDTH	2.5
DEPTH	4.5

GEI Consultants

TEST PIT LOG

TP-106

PROJECT	Canastota Former MGP Site PDI	**PG.** 1 **OF** 1	
LOCATION	Canastota, New York	**LOCATION**	north side of sanitary sewer main
CLIENT	National Grid		
CONTRACTOR	Parratt-Wolff	**GROUND EL.**	427.5
OPERATOR	Jolaan Price	**DATUM**	NAVD88
EQUIPMENT	vacuum excavation	**PROJECT NO.**	034390
WEATHER	Partly cloudy, upper 60s	**TIME STARTED**	8:30
GEI REP	B.Pabst, PJ Snyder **DATE** 9/8/2022	**TIME COMPLETED**	9:30

DEPTH OF LAYER CHANGE	SAMPLE NO. and TYPE	SAMPLE DEPTH (FT)	SOIL DESCRIPTION
1.0 2.0 3.0 4.0			0-5": ASPHALT 5"- 3' 9": FILL - Sand and Gravel 11": Vertical concrete wall, oriented east-west 1' 9": south side of concrete wall is faced with 4 layers of bricks
5.0 6.0			End of test pit @3' 9" Sewer not not observed One 60 # bag of concrete placed over bricks Balance of test pit backfilled with crusher run



NOTES:

Test pit orientation NW-SE

Photo orienentation

→ N

PIT DIMENSIONS (FT):

LENGTH	4' 9"
WIDTH	2' 2"
DEPTH	3' 9"

GEI Consultants

TEST PIT LOG

TP-106A

PROJECT	Canastota Former MGP Site PDI	**PG.**	1 **OF** 1
LOCATION	Canastota, New York	**LOCATION**	south side of sewer main
CLIENT	National Grid		
CONTRACTOR	Parratt-Wolff	**GROUND EL.**	427.8
OPERATOR	Jolaan Price	**DATUM**	NAVD88
EQUIPMENT	vacuum excavation	**PROJECT NO.**	034390
WEATHER	Partly cloudy, upper 60s	**TIME STARTED**	11:15
GEI REP	B.Pabst, PJ Snyder **DATE** 9/8/2022	**TIME COMPLETED**	14:30

DEPTH OF LAYER CHANGE	SAMPLE NO. and TYPE	SAMPLE DEPTH (FT)	SOIL DESCRIPTION
			0-4": ASPHALT
			4"-1' 6": FILL - SAND and GRAVEL
1.0			1' 4" wood (timber) encountered
			1' 6"-4': FILL- brick, gravel, sand
2.0			1' 7": concrete pices encountered, 2' thick
3.0			
			3' 6": top of sewer pipe
4.0			
			Bottom of Test Pit @ 4' 7"
5.0			on north side of test pit
6.0			



NOTES:

Test pit orientation NW-SE

Photo orientation

N

PIT DIMENSIONS (FT):

LENGTH	4' 9"
WIDTH	2' 2"
DEPTH	4' 7"

GEI Consultants

TEST PIT LOG

TP-107

PROJECT	Canastota Former MGP Site PDI	**PG.**	1 **OF** 1
LOCATION	Canastota, New York	**LOCATION**	northeast side of remediation area
CLIENT	National Grid		
CONTRACTOR	Parratt-Wolff	**GROUND EL.**	427.0
OPERATOR	Jolaan Price	**DATUM**	NAVD88
EQUIPMENT	mini-excavator	**PROJECT NO.**	034390
WEATHER	Partly sunny, 70s	**TIME STARTED**	14:30
GEI REP	B. Coulombe **DATE** 9/6/2022	**TIME COMPLETED**	15:00

DEPTH OF LAYER CHANGE	SAMPLE NO. and TYPE	SAMPLE DEPTH (FT)	SOIL DESCRIPTION
			0-2': ASPHALT in multiple layers, hard
1.0			
2.0			2'-3': FILL - sand and silt, dry, dark grey
3.0			3'-4': FILL - sand, gravel, cinders, bottles and other trash, grey, trace water entering
4.0			4'-5': FILL - sand and silt, bottle and trash, wet , slight MGP odor. sidewalls undermining
5.0	TP107(5)		Water entering at 4' 8" No sheen on water
			End of test pit @ 5'
6.0			



NOTES:

Lab sample TP107(5) for SVOCs

Test pit orientation NE-SW

NE

Photo orientation

PIT DIMENSIONS (FT):

LENGTH	9
WIDTH	2' 6:
DEPTH	5

GEI Consultants

TEST PIT LOG

TP-108A

PROJECT	Canastota Former MGP Site PDI	**PG.**	1 **OF** 1
LOCATION	Canastota, New York	**LOCATION**	Inside NE side of tar well/separator
CLIENT	National Grid		
CONTRACTOR	Parratt-Wolff	**GROUND EL.**	427.1
OPERATOR	Jolaan Price	**DATUM**	NAVD88
EQUIPMENT	mini-excavator	**PROJECT NO.**	034390
WEATHER	Cloudy, 70s	**TIME STARTED**	11:25
GEI REP	B. Coulombe **DATE** 9/7/2022	**TIME COMPLETED**	

DEPTH OF LAYER CHANGE	SAMPLE NO. and TYPE	SAMPLE DEPTH (FT)	SOIL DESCRIPTION
1.0			0-3": ASPHALT 8": Top of vertical concrete all at north side of test pit 3"-9": FILL- fine sand and fine gravel, dry 9"-12": FILL - black and orange layers of hardened fill soil
2.0			1'-3' 6: FILL - bricks in matrix of sand, with trace gravel and silt. Water at base of test pit. Strong MGP odor.
3.0			Bottom of test pit at 3.5'
4.0			
5.0			
6.0			



NOTES:

Test pit orientation N-S

Photo orientation



PIT DIMENSIONS (FT):

LENGTH	7
WIDTH	3
DEPTH	3' 6"

GEI Consultants

TEST PIT LOG

TP-108B

PROJECT	Canastota Former MGP Site PDI	**PG.** 1 **OF** 1	
LOCATION	Canastota, New York	**LOCATION**	Outside (north side) of tar well/separator
CLIENT	National Grid	**GROUND EL.**	427.1
CONTRACTOR	Parratt-Wolff	**DATUM**	NAVD88
OPERATOR	Jolaan Price	**PROJECT NO.**	034390
EQUIPMENT	mini-excavator	**TIME STARTED**	11:25
WEATHER	Cloudy, 70s	**TIME COMPLETED**	
GEI REP	B. Coulombe **DATE** 9/7/2022		

DEPTH OF LAYER CHANGE	SAMPLE NO. and TYPE	SAMPLE DEPTH (FT)	SOIL DESCRIPTION
1.0			0-3": ASPHALT 3"-9": FILL- widely graded sand and gravel Top of concrete tar well wall at 8" bgs. North side coated with hardened tar 9"-2': FILL - sand and gravel with cinders, black and orange, dry
2.0			2': Top of vertical concrete wall encountered.
3.0			Bottom of test pit @ 2 feet
4.0			
5.0			
6.0			

Concrete walls



NOTES:

Test pit orientation N-S

Photo orientation

N

PIT DIMENSIONS (FT):

LENGTH	6
WIDTH	3
DEPTH	2

GEI Consultants

Boring Location

NORTHING: _____ **EASTING:** _____ **STATION:** _____ **OFFSET:** _____

HORIZONTAL DATUM: NAD83 NY East Zone **STATION CENTERLINE:** _____

VERTICAL DATUM: NAVD 88 **ESTIMATED GROUND SURFACE ELEV. (FT):** 421.4

LOCATION: Lenox Property - North Side

BORING

MW-101

PAGE 1 of 1

Drilling Information

DATE START / END: 12/5/2022 - 12/13/2022 **TOTAL DEPTH (FT):** 16.0

CONTRACTOR: Parratt Wolf **DRILLER:** Mark Eaves **LOGGED BY:** B.Pabst

EQUIPMENT: GeoProbe 7822 DT **BORING METHOD:** Geoprobe/Hollow Stem Auger

AUGER ID/OD: 4.25 in / 8 in **CASING ID/OD:** N/A / N/A **CORE INFO:** _____

HAMMER TYPE: N/A **HAMMER WEIGHT (lbs):** N/A **HAMMER DROP (inch):** N/A

WATER LEVEL DEPTHS (ft): ▽ 0.50 7/23/2015

GENERAL NOTES: _____

ABBREVIATIONS:

ID = Inside Diameter; OD = Outside Diameter; Pen. = Penetration Length; Rec. = Recovery Length

bpf = Blows per Foot; mpf = Minute per Foot; S = Split Spoon; DP = Direct Push Sample

U = Undistrubed Tube Sample; C = Rock Core; V = Field Vane Shear; SC = Sonic Core

WOR = Weight of Rods; WOH = Weight of Hammer; RQD = Rock Quality Designation; OVM = Organic Vapor Meter

Q_v = Pocket Penetrometer Strength; S_v = Pocket Torvane Shear Strength; F_v = Field Vane Shear Strength; NA, NM = Not Applicable, Not Measured

Elev. (ft)	Depth (ft)	Casing Pen. (bpf) or Core Rate (mpf)	SAMPLE INFORMATION: Sample No.	Type	Depth (ft)	Pen./ Rec. (in)	Blows Count or RQD	N60	GRAPHIC LOG	Sample Description & Classification	H_2O Depth	Remarks
420										Topsoil with phragmites roots. Fine SAND - course SILT brown, wet. Gravel round-angular. No odor or sheen.	▽	Hand cleared to 4'3"
	5		S1		4.3 to 8.3	48/29				S1: (0-3") GRAVEL with Silt (GM), brown, wet. (3-29") SAND (SP) brown-black, wet, no odor or sheen.		0.6ppm
415												
			S2		8 to 12	48/37				S2: (0-14") SAND and SILT 10%, gravel (SP-SM), lt. brown. (14-25") SILT and CLAY (CL), 5% GRAVEL, brown. (25-37") TILL		
	10											0.1ppm
410												
			S3		12 to 16	48/34				S3: (0-34") lean CLAY and SILT, with gravel (CL), dense, hard, red, dry, no odor or sheen. TILL		
	15											0.1ppm
405										End of Boring at 16 feet		
	20											
400												

Stratification lines represent approximate boundary between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

CLIENT: National Grid

PROJECT NAME: Canastota MGP

CITY/STATE: Canastota, NY

GEI PROJECT NUMBER: 034390

GEI Consultants, Inc.
455 Winding Brook Drive
Glastonbury, CT 06033
(860) 368-5300

GEOTECHNICAL BORING LOG 02 034390.GPJ GEI DATA TEMPLATE.GDT 5/15/23

Boring Location

NORTHING: _____ **EASTING:** _____ **STATION:** _____ **OFFSET:** _____

HORIZONTAL DATUM: NAD83 NY East Zone **STATION CENTERLINE:** _____

VERTICAL DATUM: NAVD 88 **ESTIMATED GROUND SURFACE ELEV. (FT):** 421.4

LOCATION: Lenox Property - North Side

BORING

MW-102

PAGE 1 of 1

Drilling Information

DATE START / END: 12/5/2022 - 12/12/2022 **TOTAL DEPTH (FT):** 16.0

CONTRACTOR: Parratt Wolf **DRILLER:** Mark Eaves **LOGGED BY:** B.Pabst

EQUIPMENT: GeoProbe 7822 DT **BORING METHOD:** Geoprobe/Hollow Stem Auger

AUGER ID/OD: 4.25 in / 8 in **CASING ID/OD:** N/A / N/A **CORE INFO:** _____

HAMMER TYPE: N/A **HAMMER WEIGHT (lbs):** N/A **HAMMER DROP (inch):** N/A

WATER LEVEL DEPTHS (ft): ▽ 4.25 12/12/2022

GENERAL NOTES: _____

ABBREVIATIONS:

ID = Inside Diameter; OD = Outside Diameter; Pen. = Penetration Length; Rec. = Recovery Length

bpf = Blows per Foot; mpf = Minute per Foot; S = Split Spoon; DP = Direct Push Sample

U = Undistrubed Tube Sample; C = Rock Core; V = Field Vane Shear; SC = Sonic Core

WOR = Weight of Rods; WOH = Weight of Hammer; RQD = Rock Quality Designation; OVM = Organic Vapor Meter

Q_v = Pocket Penetrometer Strength; S_v = Pocket Torvane Shear Strength; F_v = Field Vane Shear Strength; NA, NM = Not Applicable, Not Measured

Elev. (ft)	Depth (ft)	Casing Pen. (bpf) or Core Rate (mpf)	SAMPLE INFORMATION: Sample No.	Type	Depth (ft)	Pen./ Rec. (in)	Blows Count or RQD	N60	GRAPHIC LOG	Sample Description & Classification	H_20 Depth	Remarks
420										0-2' Topsoil 2-4' SILT (ML) Dense	▽	Hand cleared to 4'3"
	5		S1		4.5 to 8.5	48/34				S1: SILT/CLAY (ML) with interbelled Sand, dense, brown, no odor or sheen.		0.6ppm
415			S2		8 to 12	48/38				S2: Similar to S1		0.1ppm
	10											
410			S3		12 to 16	48/40				S3: Similar to S1		0.1ppm
	15											
405										End of Boring at 16 feet		
	20											
400												

Stratification lines represent approximate boundary between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

CLIENT: National Grid
PROJECT NAME: Canastota MGP
CITY/STATE: Canastota, NY
GEI PROJECT NUMBER: 034390

GEI Consultants, Inc.
455 Winding Brook Drive
Glastonbury, CT 06033
(860) 368-5300

GEOTECHNICAL BORING LOG 02 034390.GPJ GEI DATA TEMPLATE.GDT 5/15/23

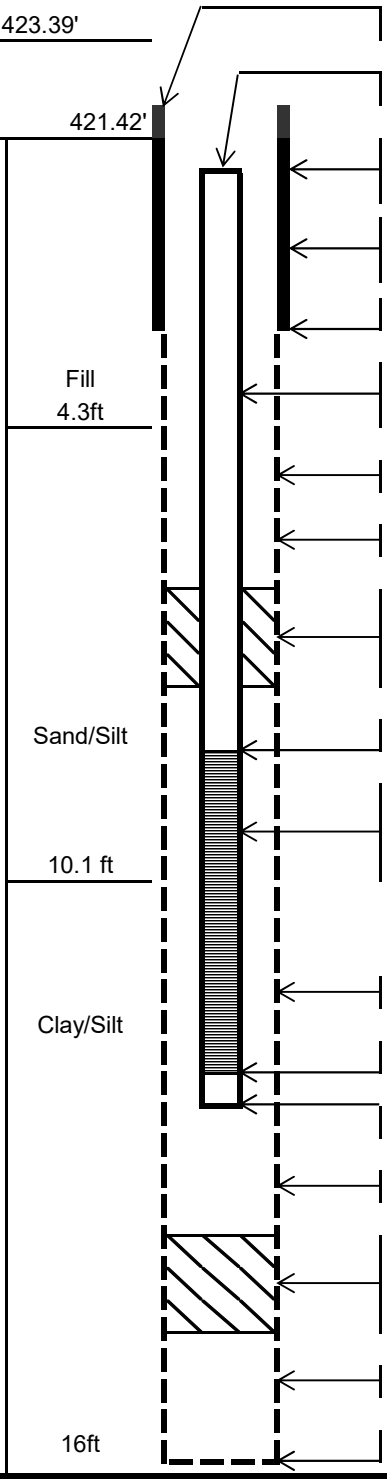
Groundwater Well Installation Log

MW - 101

Project	Canastota MGP	**GEI Proj. No.**	34390
City / Town	Lenox	**Location**	See Plan
Client	National Grid		
Contractor	Wolff		
Driller	Parratt	**GEI Rep.** B. Pabst	**Install Date** 12/3/2022

Survey Datum: 423.39'

Ground Elevation: 421.42'



General Soil Conditions (Not to Scale)

Date	Time	Distance to ▼ below top of riser pipe
12/13/2022	N/a	0.5

Length of Surface Casing above Ground	2.0 ft
Dist. Top of Surf. Casing to Top of Riser Pipe	N/A
Type and Thickness of Seal around Surface Casing	Cement grout
ID of Surface Casing	6 in
Type of Surface Casing	Steel well box
Depth Bottom of Surface Casing	2ft
ID and OD of Riser Pipe	2 in (ID) / 2.5 in (OD)
Type of Riser Pipe	Sch. 40 PVC
Type of Backfill around Riser Pipe	NA
Diameter of Borehole	8 in
Depth Top of Seal	0.5 ft
Type of Seal	Bentonite Chips
Depth Bottom of Seal	2 ft
Depth Top of Screened Section	2ft
Type of Screen	Sch. 40 PVC
Description of Screen Openings	Slotted PVC
ID and OD of Screened Section	2 in (ID) / 2.5 in (OD)
Type of Filter Material	Morie #0
Depth Bottom of Screened Section	12ft
Depth Bottom of Silt Trap	12 ft
Depth Bottom of Filter Material	N.A.
Depth Top of Seal	N.A.
Type of Seal	N.A.
Depth Bottom of Seal	N.A.
Type of Backfill below Filter Material	N.A.
Bottom of Borehole	16 ft

Notes:

GEI Consultants

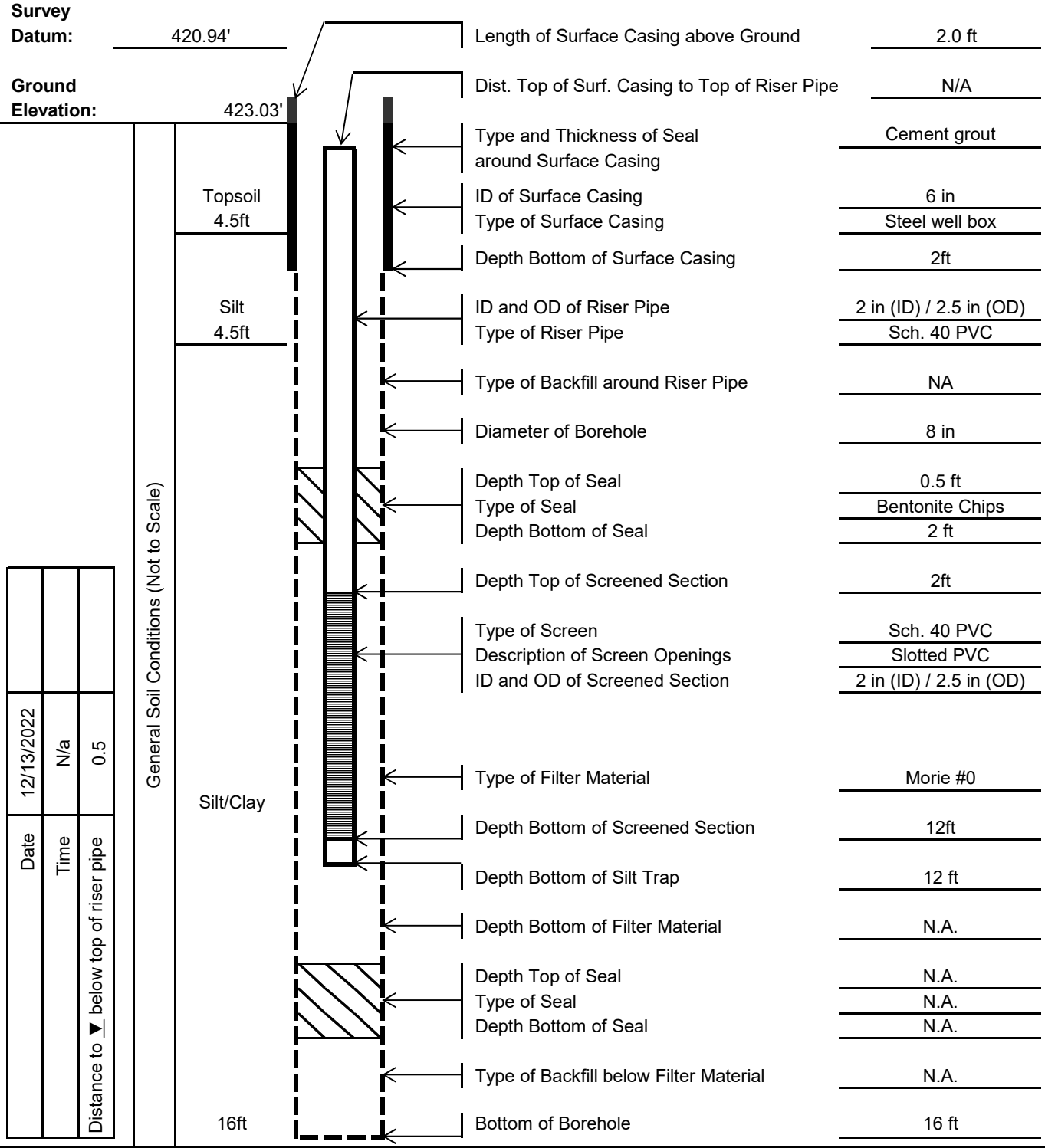
Groundwater Well Installation Log

MW - 102

Project	Canastota MGP	**GEI Proj. No.**	34390
City / Town	Canastota, NY	**Location**	See Plan
Client	National Grid		
Contractor	Parratt-Wolff		
Driller	Mark Eaves	**GEI Rep.** B. Pabst	**Install Date** 12/3/2022

Survey Datum: 420.94'

Ground Elevation: 423.03'



Date	Time	Distance to ▼ below top of riser pipe
12/13/2022	N/a	0.5

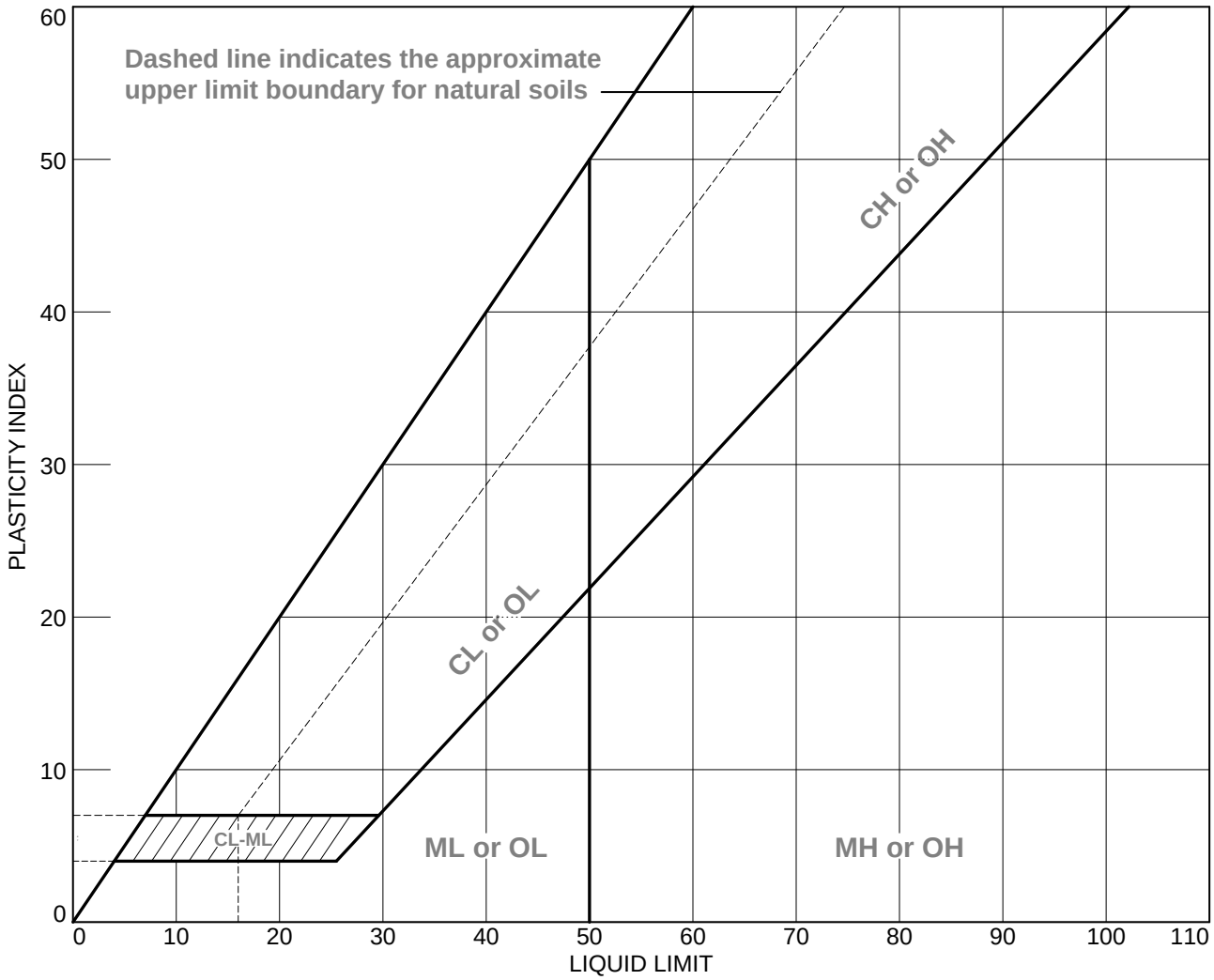
Notes:

GEI Consultants

Attachment B.2

Geotechnical Data

LIQUID AND PLASTIC LIMITS TEST REPORT



SOIL DATA

SYMBOL	SOURCE	SAMPLE NO.	DEPTH	NATURAL WATER CONTENT (%)	PLASTIC LIMIT (%)	LIQUID LIMIT (%)	PLASTICITY INDEX (%)	USCS
●	SB-102	S5, S6	12-16 ft	23.0	NP	NV	NP	ML

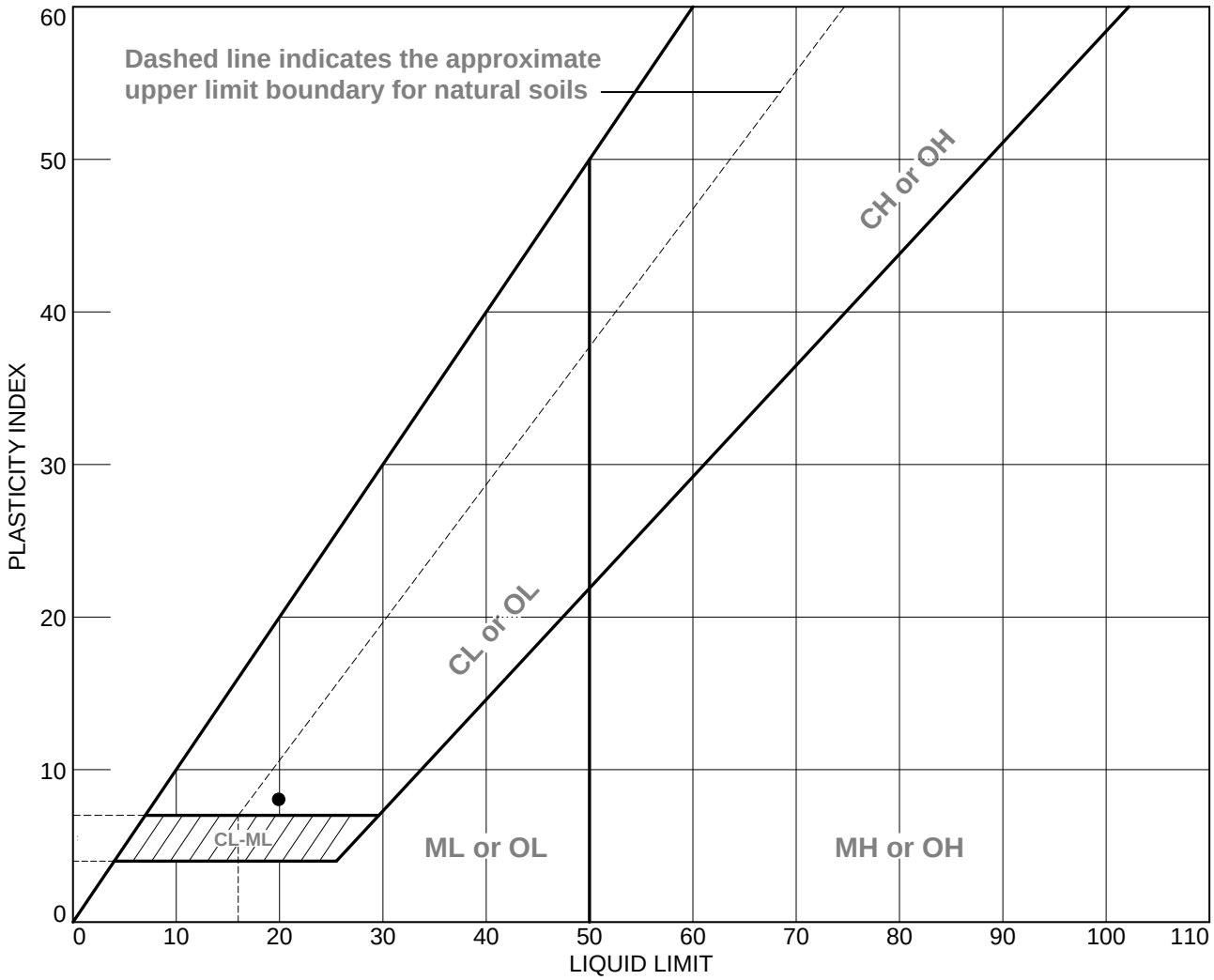
GEI Consultants, Inc.
400 Unicorn Park Drive
Woburn, MA 01801

Client: National Grid
Project: Canastota MGP

Project No.: 034390 **Figure**

Tested By: M. Alstede 4/14/23 **Checked By:** W. Lukas 4/14/23

LIQUID AND PLASTIC LIMITS TEST REPORT



SOIL DATA

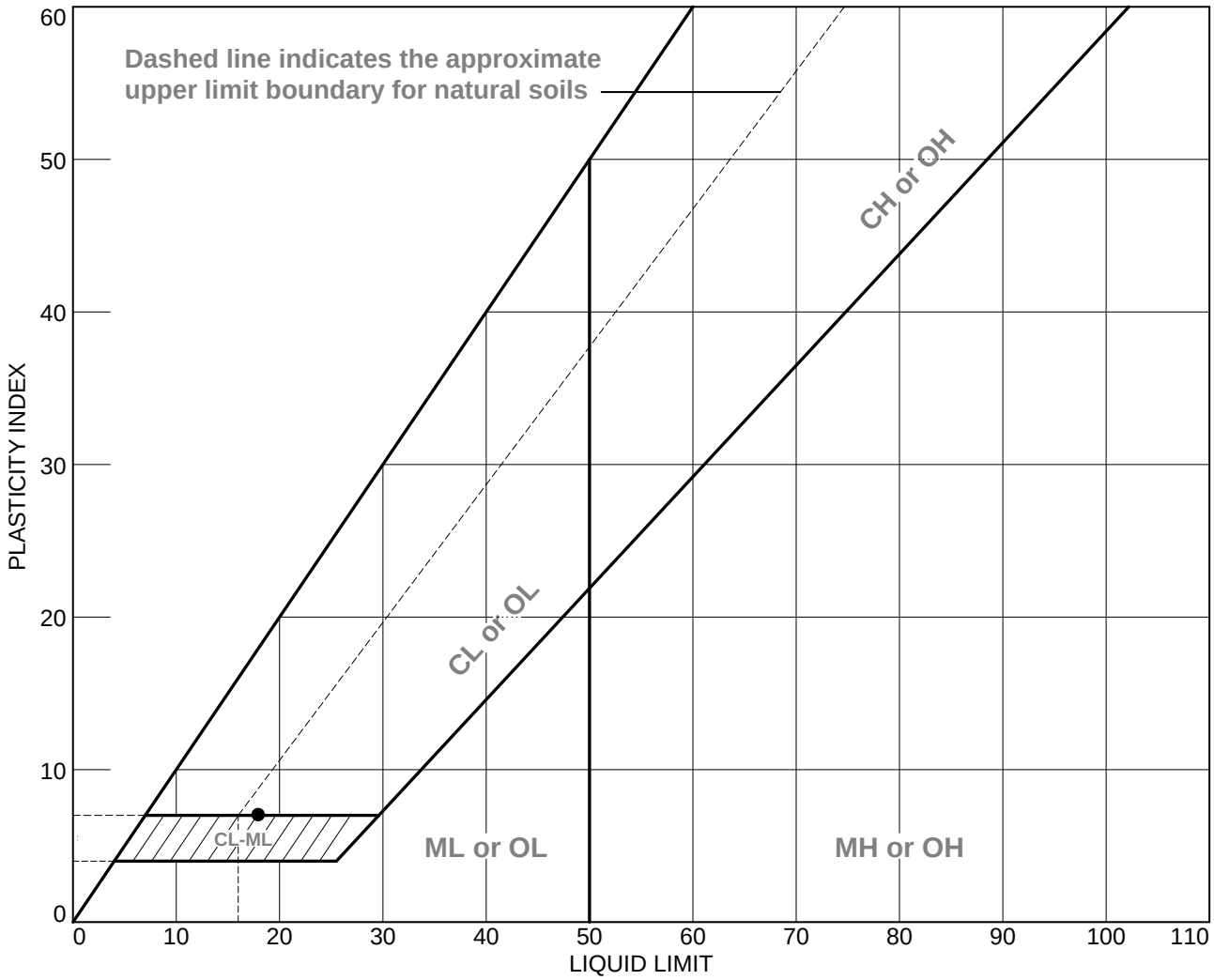
SYMBOL	SOURCE	SAMPLE NO.	DEPTH	NATURAL WATER CONTENT (%)	PLASTIC LIMIT (%)	LIQUID LIMIT (%)	PLASTICITY INDEX (%)	USCS
●	SB-104	S11, S12	24-28 ft	9.1	12	20	8	CL

GEI Consultants, Inc.
400 Unicorn Park Drive
Woburn, MA 01801

Client: National Grid
Project: Canastota MGP
Project No.: 034390 **Figure**

Tested By: M. Alstede 4/14/23 **Checked By:** E. Fazlic 4/18/23

LIQUID AND PLASTIC LIMITS TEST REPORT



SOIL DATA

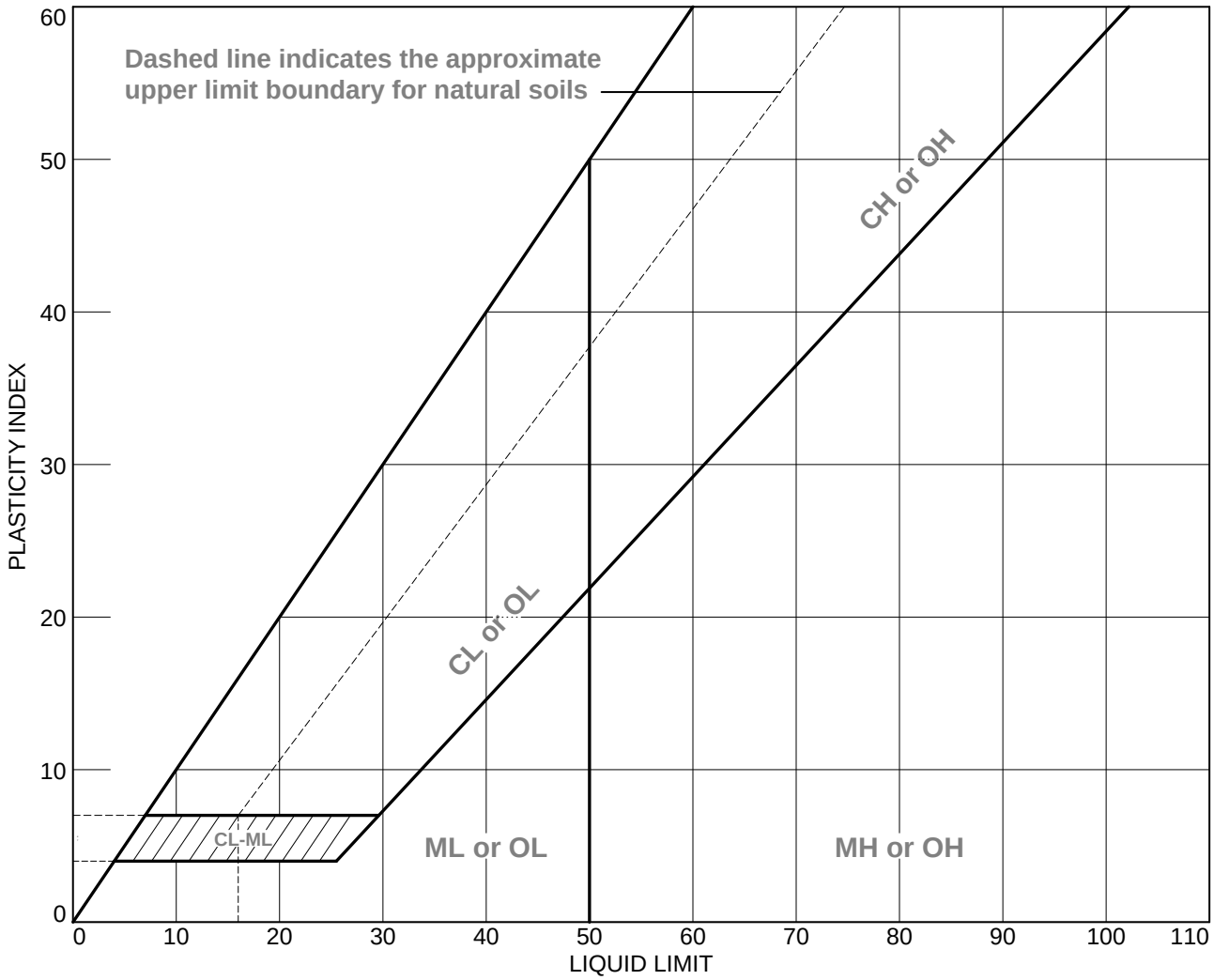
SYMBOL	SOURCE	SAMPLE NO.	DEPTH	NATURAL WATER CONTENT (%)	PLASTIC LIMIT (%)	LIQUID LIMIT (%)	PLASTICITY INDEX (%)	USCS
●	SB-105	S5, S6	13-17 ft	11.3	11	18	7	CL-ML

GEI Consultants, Inc.
400 Unicorn Park Drive
Woburn, MA 01801

Client: National Grid
Project: Canastota MGP
Project No.: 034390 **Figure**

Tested By: M. Alstede 4/17/23 **Checked By:** E. Fazlic 4/18/23

LIQUID AND PLASTIC LIMITS TEST REPORT



SOIL DATA

SYMBOL	SOURCE	SAMPLE NO.	DEPTH	NATURAL WATER CONTENT (%)	PLASTIC LIMIT (%)	LIQUID LIMIT (%)	PLASTICITY INDEX (%)	USCS
●	SB-110	S4, S5, S6	10-16 ft	21.5	NP	NV	NP	ML

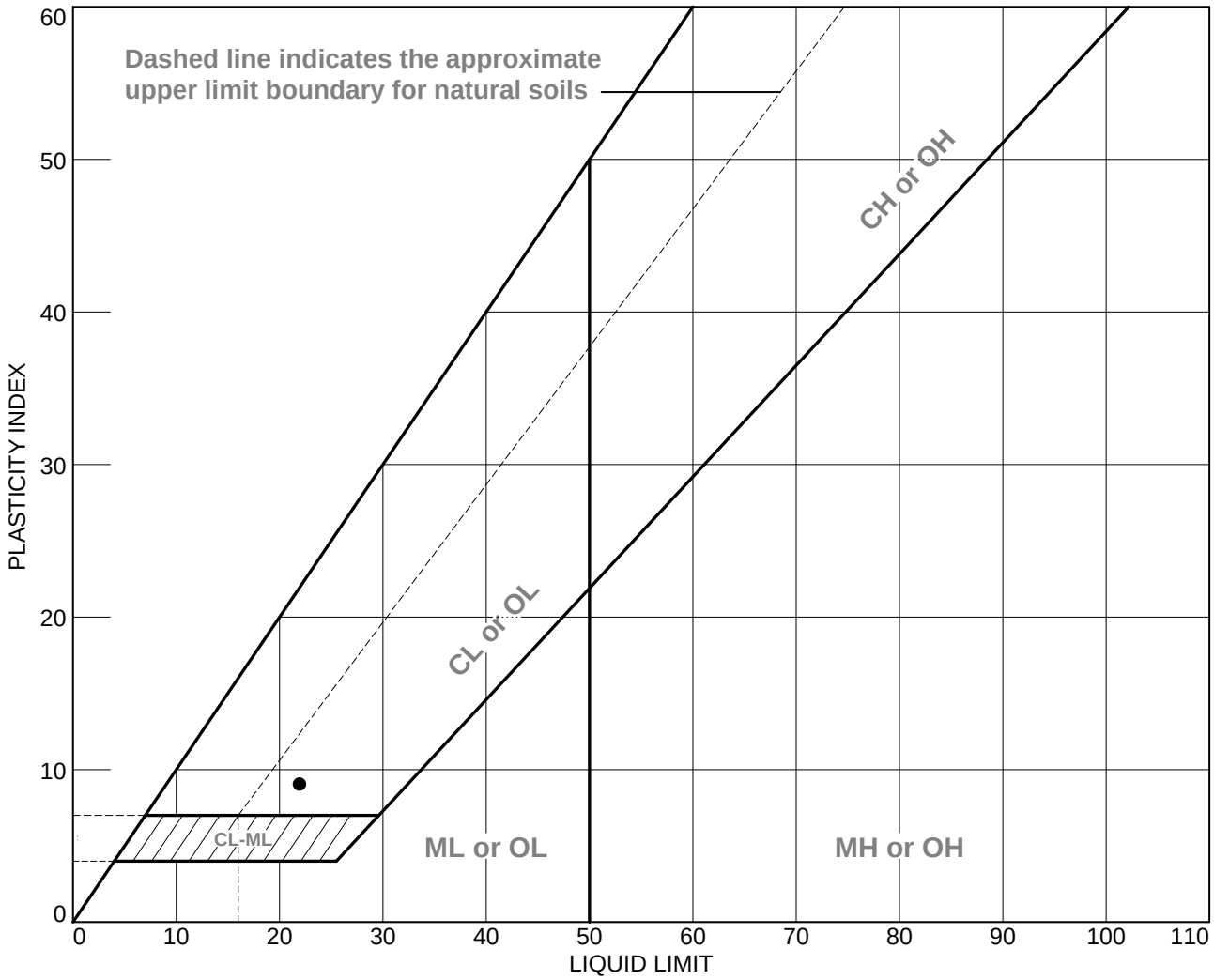
GEI Consultants, Inc.
400 Unicorn Park Drive
Woburn, MA 01801

Client: National Grid
Project: Canastota MGP

Project No.: 034390 **Figure**

Tested By: M. Alstede 4/14/23 **Checked By:** W. Lukas 4/14/23

LIQUID AND PLASTIC LIMITS TEST REPORT



SOIL DATA

SYMBOL	SOURCE	SAMPLE NO.	DEPTH	NATURAL WATER CONTENT (%)	PLASTIC LIMIT (%)	LIQUID LIMIT (%)	PLASTICITY INDEX (%)	USCS
●	SB-111	S5, S6, S7	8-14 ft	10.8	13	22	9	CL

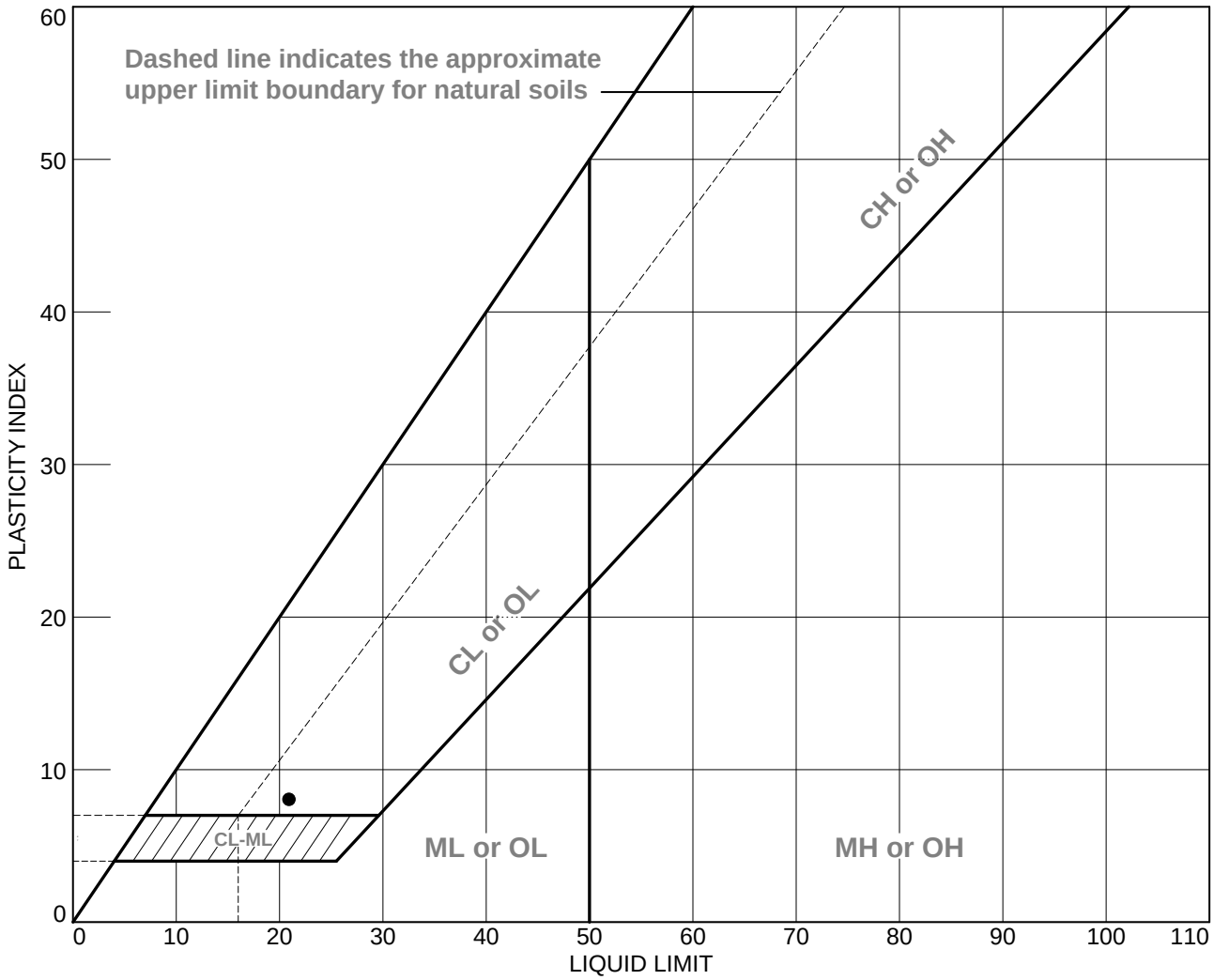
GEI Consultants, Inc.
400 Unicorn Park Drive
Woburn, MA 01801

Client: National Grid
Project: Canastota MGP

Project No.: 034390 **Figure**

Tested By: M. Alstede 4/14/23 **Checked By:** E. Fazlic 4/18/23

LIQUID AND PLASTIC LIMITS TEST REPORT



SOIL DATA

SYMBOL	SOURCE	SAMPLE NO.	DEPTH	NATURAL WATER CONTENT (%)	PLASTIC LIMIT (%)	LIQUID LIMIT (%)	PLASTICITY INDEX (%)	USCS
●	SB-112	S10, S11, S12	22-30.6 ft	9.4	13	21	8	CL

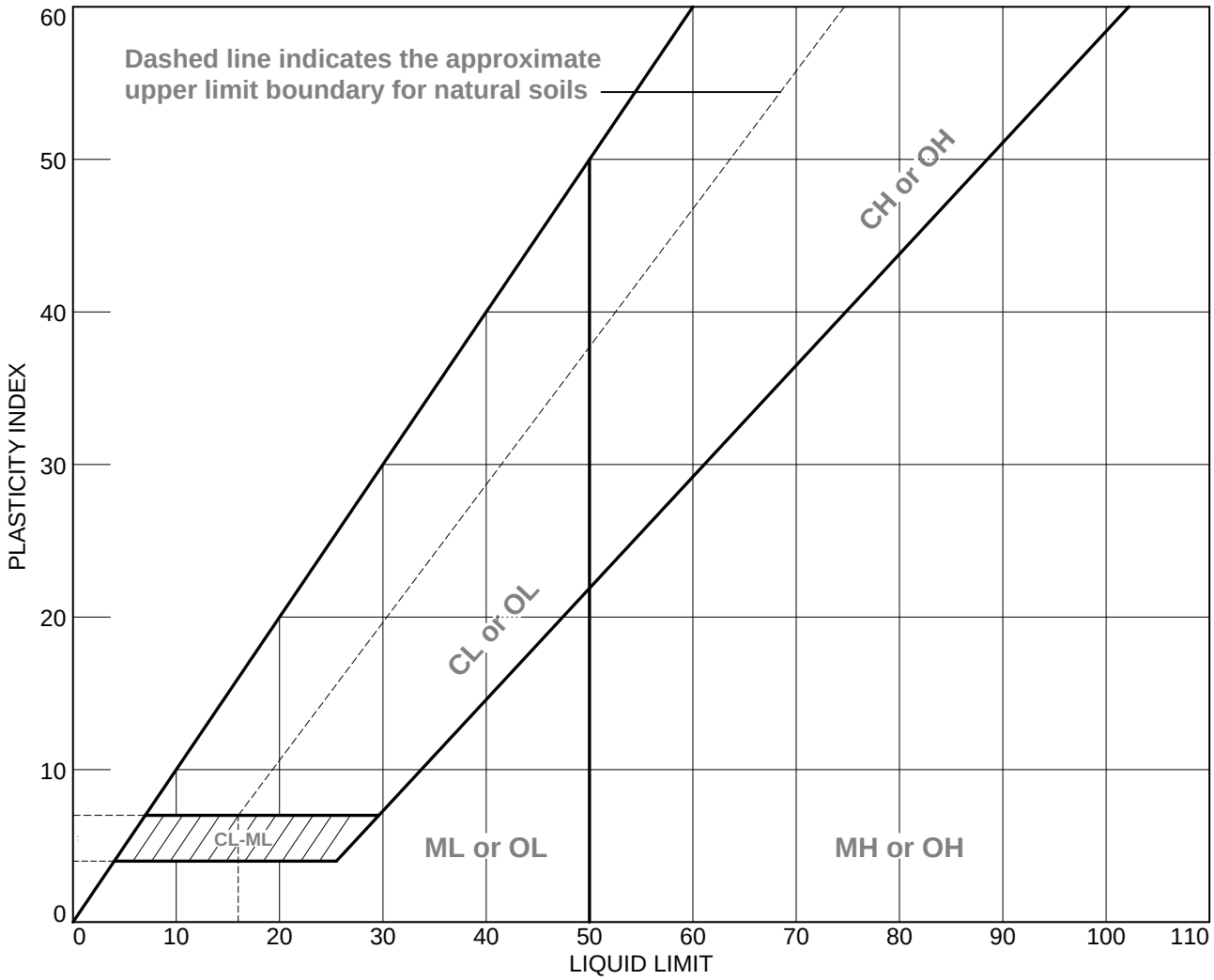
GEI Consultants, Inc.
400 Unicorn Park Drive
Woburn, MA 01801

Client: National Grid
Project: Canastota MGP

Project No.: 034390 **Figure**

Tested By: M. Alstede 4/13/23 **Checked By:** E. Fazlic 4/18/23

LIQUID AND PLASTIC LIMITS TEST REPORT



SOIL DATA

SYMBOL	SOURCE	SAMPLE NO.	DEPTH	NATURAL WATER CONTENT (%)	PLASTIC LIMIT (%)	LIQUID LIMIT (%)	PLASTICITY INDEX (%)	USCS
●	SB-113	S4, S5, S6	10-16 ft	21.7	NP	NV	NP	ML

GEI Consultants, Inc.
400 Unicorn Park Drive
Woburn, MA 01801

Client: National Grid
Project: Canastota MGP

Project No.: 034390 **Figure**

Tested By: M. Alstede 4/17/23 **Checked By:** E. Fazlic 4/18/23

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0.0	0.0	6.9	2.8	3.8	53.3	33.2	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_C	C_u
○			0.2919	0.1391	0.1101					

Material Description	USCS	AASHTO
○ Silty SAND	SM	

Project No. 034390 **Client:** National Grid

Project: Canastota MGP

○ **Sample Source:** SB-102 **Depth:** 6-12 ft **Sample No.:** S2, S3, S4

Remarks:

○As Received WC=22.5%

Fines classified visually

GEI Consultants, Inc.
400 Unicorn Park Drive
Woburn, MA 01801

GEI Consultants

Figure

Tested By: M. Alstede 4/12/23 **Checked By:** W. Lukas 4/13/23

GRAIN SIZE DISTRIBUTION TEST DATA

4/18/2023

Client: National Grid
Project: Canastota MGP
Project Number: 034390
Location: SB-102
Depth: 6-12 ft
Sample Number: S2, S3, S4
Material Description: Silty SAND
USCS Classification: SM
Testing Remarks: As Received WC=22.5%
Fines classified visually
Tested by: M. Alstede 4/12/23
Checked by: W. Lukas 4/13/23

Sieve Test Data

Dry Sample and Tare (grams)	Tare (grams)	Cumulative Pan Tare Weight (grams)	Sieve Opening Size	Cumulative Weight Retained (grams)	Percent Finer
302.47	0.00	198.52	3/4	198.52	100.0
			3/8	212.96	95.2
			#4	219.39	93.1
			#10	227.83	90.3
			#16	231.76	89.0
			#30	236.56	87.4
			#50	242.48	85.5
			#100	309.96	63.2
			#200	400.62	33.2

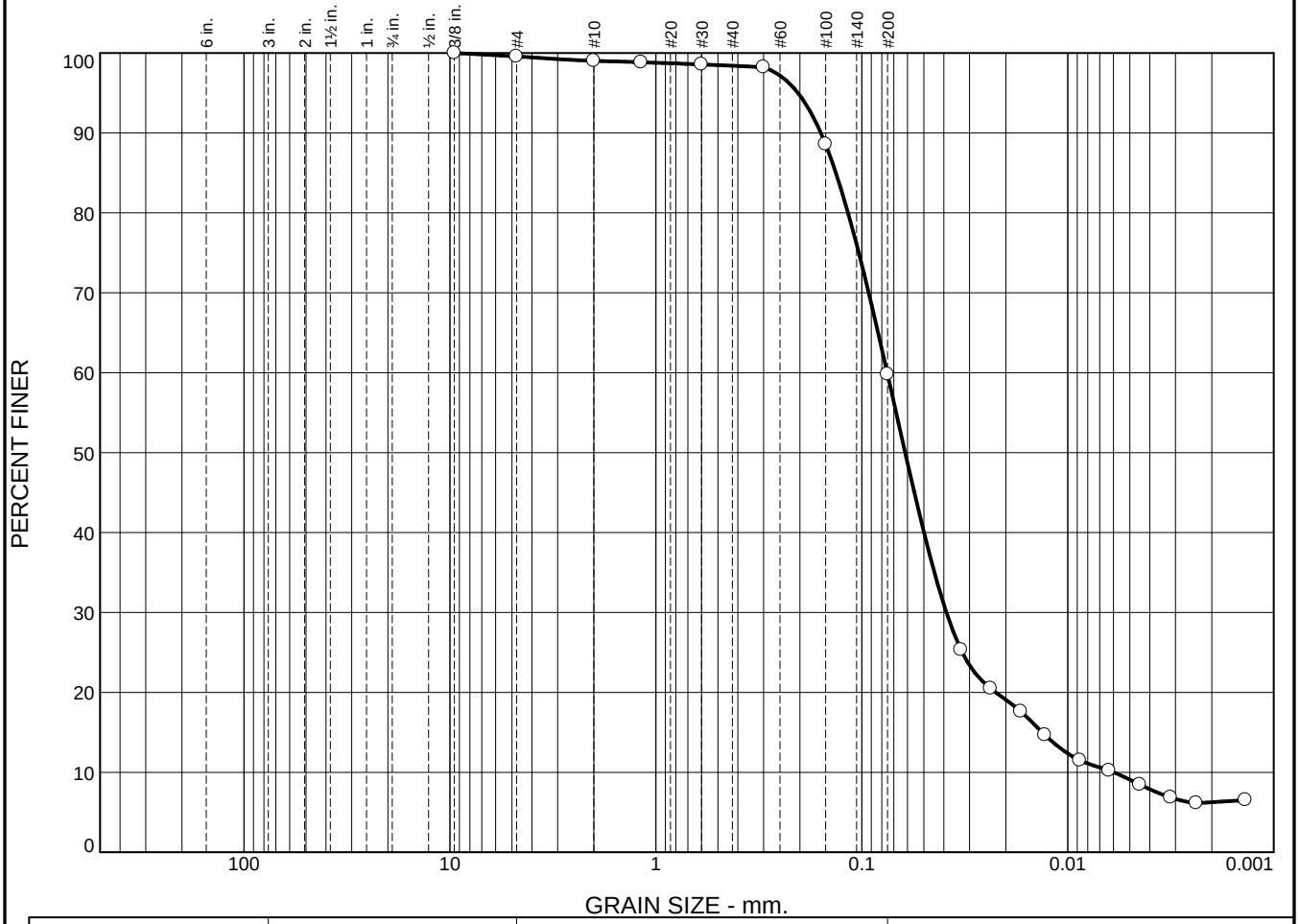
Fractional Components

Cobbles	Gravel			Sand				Fines		
	Coarse	Fine	Total	Coarse	Medium	Fine	Total	Silt	Clay	Total
0.0	0.0	6.9	6.9	2.8	3.8	53.3	59.9			33.2

D_{10}	D_{15}	D_{20}	D_{30}	D_{50}	D_{60}	D_{80}	D_{85}	D_{90}	D_{95}
				0.1101	0.1391	0.2368	0.2919	1.7634	9.0645

Fineness Modulus
0.96

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0.0	0.0	0.4	0.6	0.6	38.6	50.7	9.1

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○	NV	NP	0.1336	0.0753	0.0616	0.0389	0.0133	0.0060	3.35	12.57

Material Description	USCS	AASHTO
○ Sandy SILT	ML	A-4(0)

Project No. 034390 **Client:** National Grid

Project: Canastota MGP

○ **Source of Sample:** SB-102 **Depth:** 12-16 ft **Sample Number:** S5, S6

Remarks:

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Figure

Tested By: M. Alstede 4/14/23 **Checked By:** W. Lukas 4/14/23

GRAIN SIZE DISTRIBUTION TEST DATA

4/18/2023

Client: National Grid
Project: Canastota MGP
Project Number: 034390
Location: SB-102
Depth: 12-16 ft
Sample Number: S5, S6
Material Description: Sandy SILT
Liquid Limit: NV
Plastic Limit: NP
USCS Classification: ML
AASHTO Classification: A-4(0)
Tested by: M. Alstede 4/14/23
Checked by: W. Lukas 4/14/23

Sieve Test Data

Dry Sample and Tare (grams)	Tare (grams)	Cumulative Pan Tare Weight (grams)	Sieve Opening Size	Cumulative Weight Retained (grams)	Percent Finer
48.95	0.00	362.92	3/8	362.92	100.0
			#4	363.13	99.6
			#10	363.40	99.0
			#16	363.49	98.8
			#30	363.62	98.6
			#50	363.79	98.2
			#100	368.50	88.6
			#200	382.60	59.8

Hydrometer Test Data

Hydrometer test uses material passing #10
Percent passing #10 based upon complete sample = 99.0
Weight of hydrometer sample =48.95
Automatic temperature correction
Composite correction (fluid density and meniscus height) at 20 deg. C = -3.896
Meniscus correction only = 0.7
Specific gravity of solids = 2.7
Hydrometer type = 151H
Hydrometer effective depth equation: L = 16.294964 **-** 0.2645 **x Rm**

Elapsed Time (min.)	Temp. (deg. C.)	Actual Reading	Corrected Reading	K	Rm	Eff. Depth	Diameter (mm.)	Percent Finer
2.00	23.4	1.0113	1.0079	0.0129	12.0	13.1	0.0330	25.3
4.00	23.4	1.0098	1.0064	0.0129	10.5	13.5	0.0237	20.5
8.00	23.4	1.0089	1.0055	0.0129	9.6	13.8	0.0169	17.6
14.00	23.3	1.0080	1.0046	0.0129	8.7	14.0	0.0129	14.7
31.00	23.4	1.0070	1.0036	0.0129	7.7	14.3	0.0087	11.5
60.00	23.4	1.0066	1.0032	0.0129	7.3	14.4	0.0063	10.2
120.00	23.7	1.0060	1.0026	0.0129	6.7	14.5	0.0045	8.5
240.00	24.2	1.0054	1.0021	0.0128	6.1	14.7	0.0032	6.8
427.00	24.1	1.0052	1.0019	0.0128	5.9	14.7	0.0024	6.1
1383.00	20.4	1.0059	1.0020	0.0134	6.6	14.5	0.0014	6.5

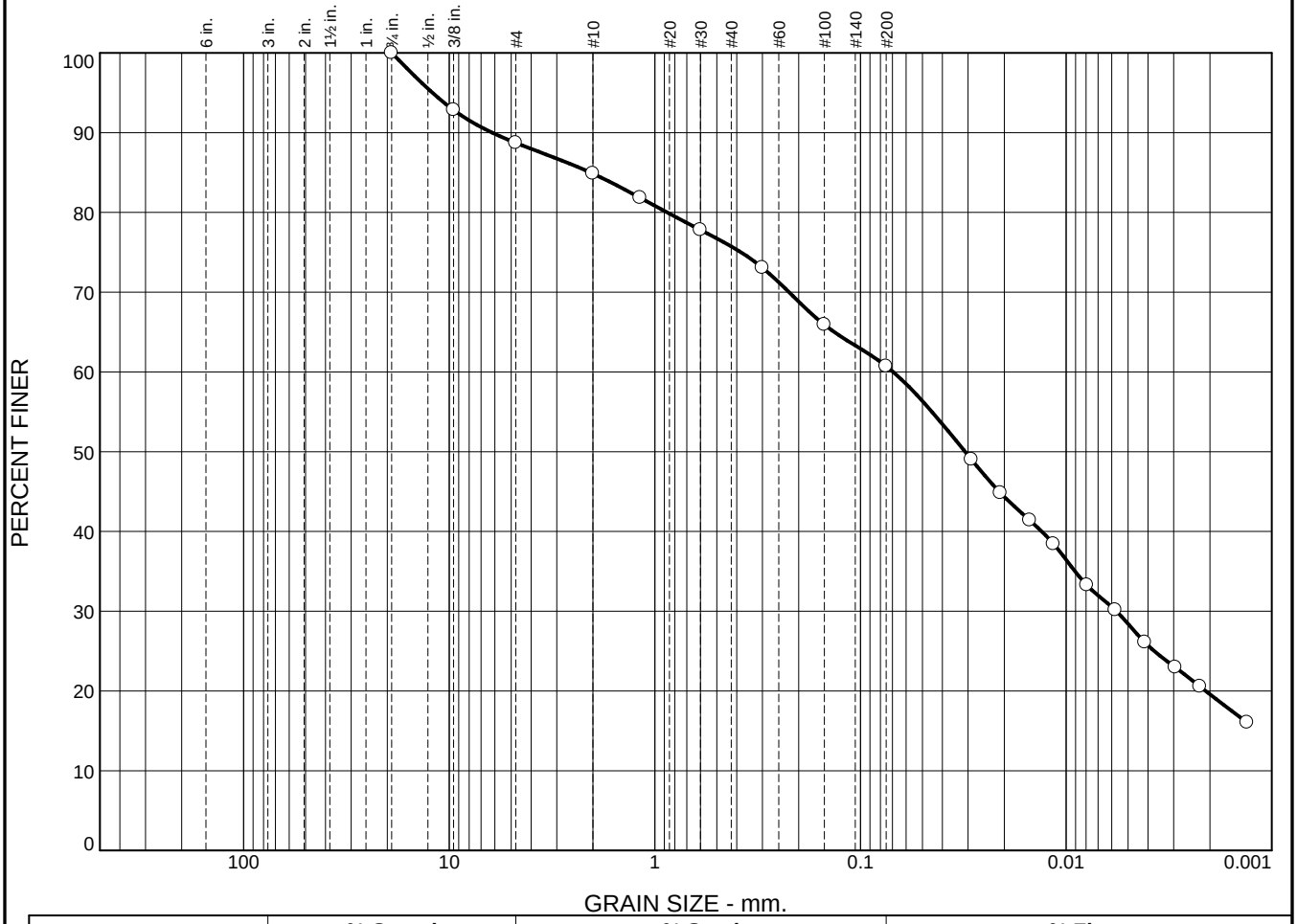
Fractional Components

Cobbles	Gravel			Sand				Fines		
	Coarse	Fine	Total	Coarse	Medium	Fine	Total	Silt	Clay	Total
0.0	0.0	0.4	0.4	0.6	0.6	38.6	39.8	50.7	9.1	59.8

D_{10}	D_{15}	D_{20}	D_{30}	D_{50}	D_{60}	D_{80}	D_{85}	D_{90}	D_{95}
0.0060	0.0133	0.0224	0.0389	0.0616	0.0753	0.1167	0.1336	0.1580	0.2041

Fineness Modulus	C_u	C_c
0.17	12.57	3.35

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0.0	0.0	11.3	3.8	9.2	15.0	32.3	28.4

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_C	C_u
○	20	12	2.0548	0.0694	0.0310	0.0057				

Material Description	USCS	AASHTO
○ Lean CLAY	CL	A-4(2)

Project No. 034390 **Client:** National Grid

Project: Canastota MGP

○ **Sample Source:** SB-104 **Depth:** 24-28 ft **Sample No.:** S11, S12

Remarks:

○As Received WC=9.1%

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Figure

Tested By: M. Alstede 4/14/23 **Checked By:** W. Lukas 4/14/23

GRAIN SIZE DISTRIBUTION TEST DATA

4/18/2023

Client: National Grid
Project: Canastota MGP
Project Number: 034390
Location: SB-104
Depth: 24-28 ft
Sample Number: S11, S12
Material Description: Lean CLAY
Liquid Limit: 20
Plastic Limit: 12
USCS Classification: CL
AASHTO Classification: A-4(2)
Testing Remarks: As Received WC=9.1%
Tested by: M. Alstede 4/14/23
Checked by: W. Lukas 4/14/23

Sieve Test Data

Dry Sample and Tare (grams)	Tare (grams)	Cumulative Pan Tare Weight (grams)	Sieve Opening Size	Cumulative Weight Retained (grams)	Percent Finer
219.84	0.00	31.33	3/4	31.33	100.0
			3/8	47.08	92.8
			#4	56.11	88.7
			#10	64.61	84.9
54.76	0.00	371.99	#16	373.94	81.8
			#30	376.55	77.8
			#50	379.60	73.1
			#100	384.21	65.9
			#200	387.57	60.7

Hydrometer Test Data

Hydrometer test uses material passing #10
Percent passing #10 based upon complete sample = 84.9
Weight of hydrometer sample =54.76
Automatic temperature correction
Composite correction (fluid density and meniscus height) at 20 deg. C = -3.896
Meniscus correction only = 0.7
Specific gravity of solids = 2.7
Hydrometer type = 151H
Hydrometer effective depth equation: L = 16.294964 **-** 0.2645 **x Rm**

Elapsed Time (min.)	Temp. (deg. C.)	Actual Reading	Corrected Reading	K	Rm	Eff. Depth	Diameter (mm.)	Percent Finer
2.00	23.0	1.0234	1.0199	0.0130	24.1	9.9	0.0289	49.0
4.00	23.0	1.0217	1.0182	0.0130	22.4	10.4	0.0209	44.8
8.00	23.0	1.0203	1.0168	0.0130	21.0	10.7	0.0150	41.4
14.00	23.0	1.0191	1.0156	0.0130	19.8	11.1	0.0115	38.4
31.00	23.0	1.0170	1.0135	0.0130	17.7	11.6	0.0079	33.3
60.00	23.2	1.0157	1.0122	0.0129	16.4	12.0	0.0058	30.1
120.00	23.5	1.0140	1.0106	0.0129	14.7	12.4	0.0041	26.1
240.00	24.2	1.0126	1.0093	0.0128	13.3	12.8	0.0029	23.0
425.00	24.3	1.0116	1.0083	0.0128	12.3	13.0	0.0022	20.6
1381.00	20.3	1.0104	1.0065	0.0134	11.1	13.4	0.0013	16.0

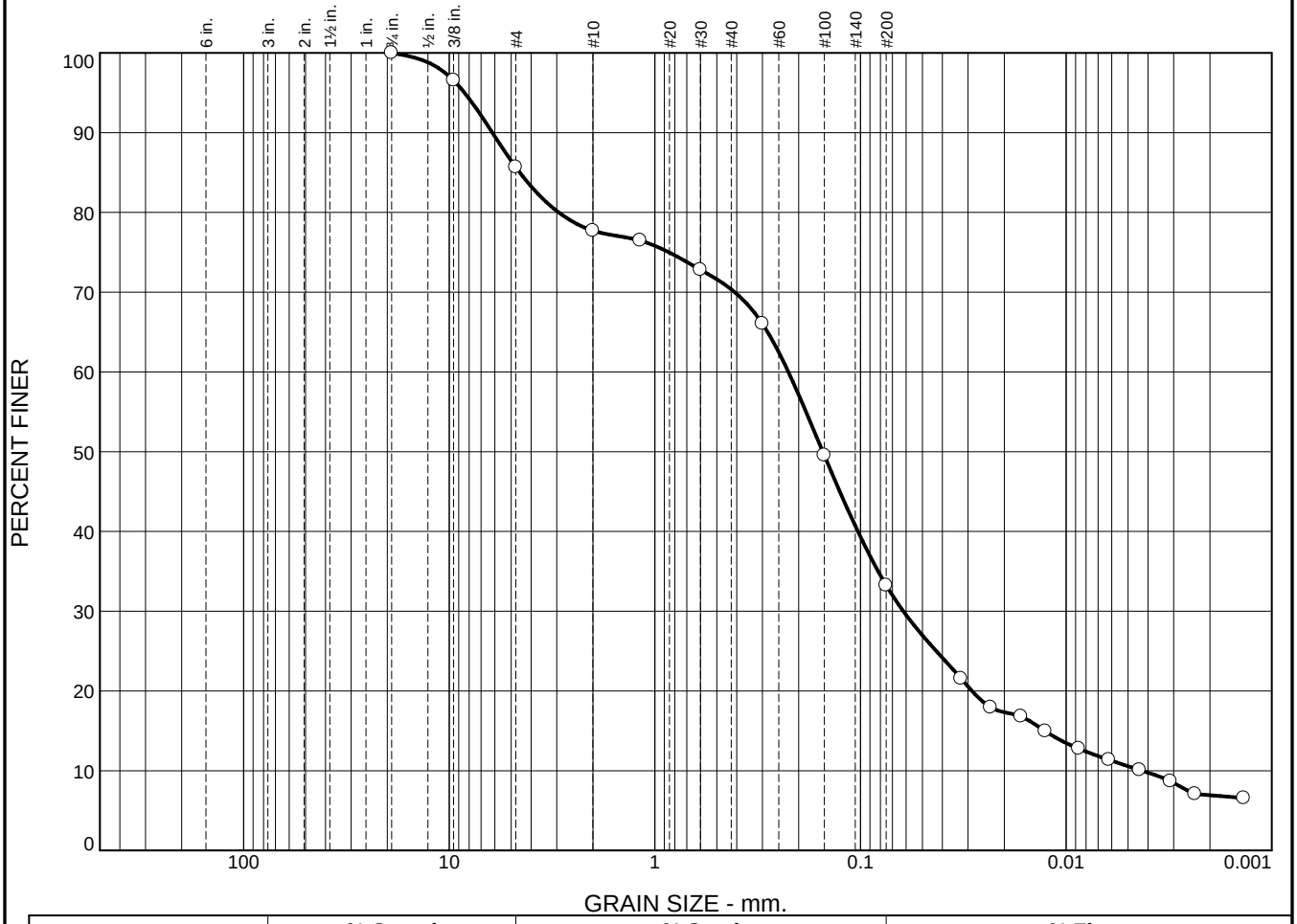
Fractional Components

Cobbles	Gravel			Sand				Fines		
	Coarse	Fine	Total	Coarse	Medium	Fine	Total	Silt	Clay	Total
0.0	0.0	11.3	11.3	3.8	9.2	15.0	28.0	32.3	28.4	60.7

D_{10}	D_{15}	D_{20}	D_{30}	D_{50}	D_{60}	D_{80}	D_{85}	D_{90}	D_{95}
		0.0021	0.0057	0.0310	0.0694	0.8703	2.0548	6.1882	12.0589

Fineness Modulus
1.34

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0.0	0.0	14.3	8.0	7.3	37.2	22.6	10.6

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			4.5406	0.2243	0.1526	0.0619	0.0127	0.0043	3.99	52.42

Material Description	USCS	AASHTO
○ Silty SAND	SM	

Project No. 034390 **Client:** National Grid

Project: Canastota MGP

○ **Source of Sample:** SB-105 **Depth:** 5-11 ft **Sample Number:** S1, S3

Remarks:

○As Received WC=22.6%

Fines classified visually

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Figure

Tested By: M. Alstede 4/14/23 **Checked By:** W. Lukas 4/14/23

GRAIN SIZE DISTRIBUTION TEST DATA

4/18/2023

Client: National Grid
Project: Canastota MGP
Project Number: 034390
Location: SB-105
Depth: 5-11 ft **Sample Number:** S1, S3
Material Description: Silty SAND
USCS Classification: SM
Testing Remarks: As Received WC=22.6%
Fines classified visually
Tested by: M. Alstede 4/14/23 **Checked by:** W. Lukas 4/14/23

Sieve Test Data

Dry Sample and Tare (grams)	Tare (grams)	Cumulative Pan Tare Weight (grams)	Sieve Opening Size	Cumulative Weight Retained (grams)	Percent Finer
206.89	0.00	31.99	3/4	31.99	100.0
			3/8	39.11	96.6
			#4	61.63	85.7
			#10	78.10	77.7
54.49	0.00	364.76	#16	365.63	76.5
			#30	368.20	72.8
			#50	372.94	66.0
			#100	384.51	49.5
			#200	395.94	33.2

Hydrometer Test Data

Hydrometer test uses material passing #10
Percent passing #10 based upon complete sample = 77.7
Weight of hydrometer sample =54.49
Automatic temperature correction
Composite correction (fluid density and meniscus height) at 20 deg. C = -3.896
Meniscus correction only = 0.7
Specific gravity of solids = 2.7
Hydrometer type = 151H
Hydrometer effective depth equation: L = 16.294964 **-** 0.2645 **x Rm**

Elapsed Time (min.)	Temp. (deg. C.)	Actual Reading	Corrected Reading	K	Rm	Eff. Depth	Diameter (mm.)	Percent Finer
2.00	23.6	1.0129	1.0095	0.0129	13.6	12.7	0.0324	21.6
4.00	23.6	1.0113	1.0079	0.0129	12.0	13.1	0.0233	17.9
8.00	23.6	1.0108	1.0074	0.0129	11.5	13.3	0.0166	16.8
14.00	23.5	1.0100	1.0066	0.0129	10.7	13.5	0.0126	15.0
30.00	23.7	1.0090	1.0056	0.0129	9.7	13.7	0.0087	12.8
60.00	23.6	1.0084	1.0050	0.0129	9.1	13.9	0.0062	11.4
120.00	23.8	1.0078	1.0045	0.0128	8.5	14.0	0.0044	10.1
240.00	24.2	1.0071	1.0038	0.0128	7.8	14.2	0.0031	8.7
421.00	24.2	1.0064	1.0031	0.0128	7.1	14.4	0.0024	7.1
1377.00	20.2	1.0068	1.0029	0.0134	7.5	14.3	0.0014	6.6

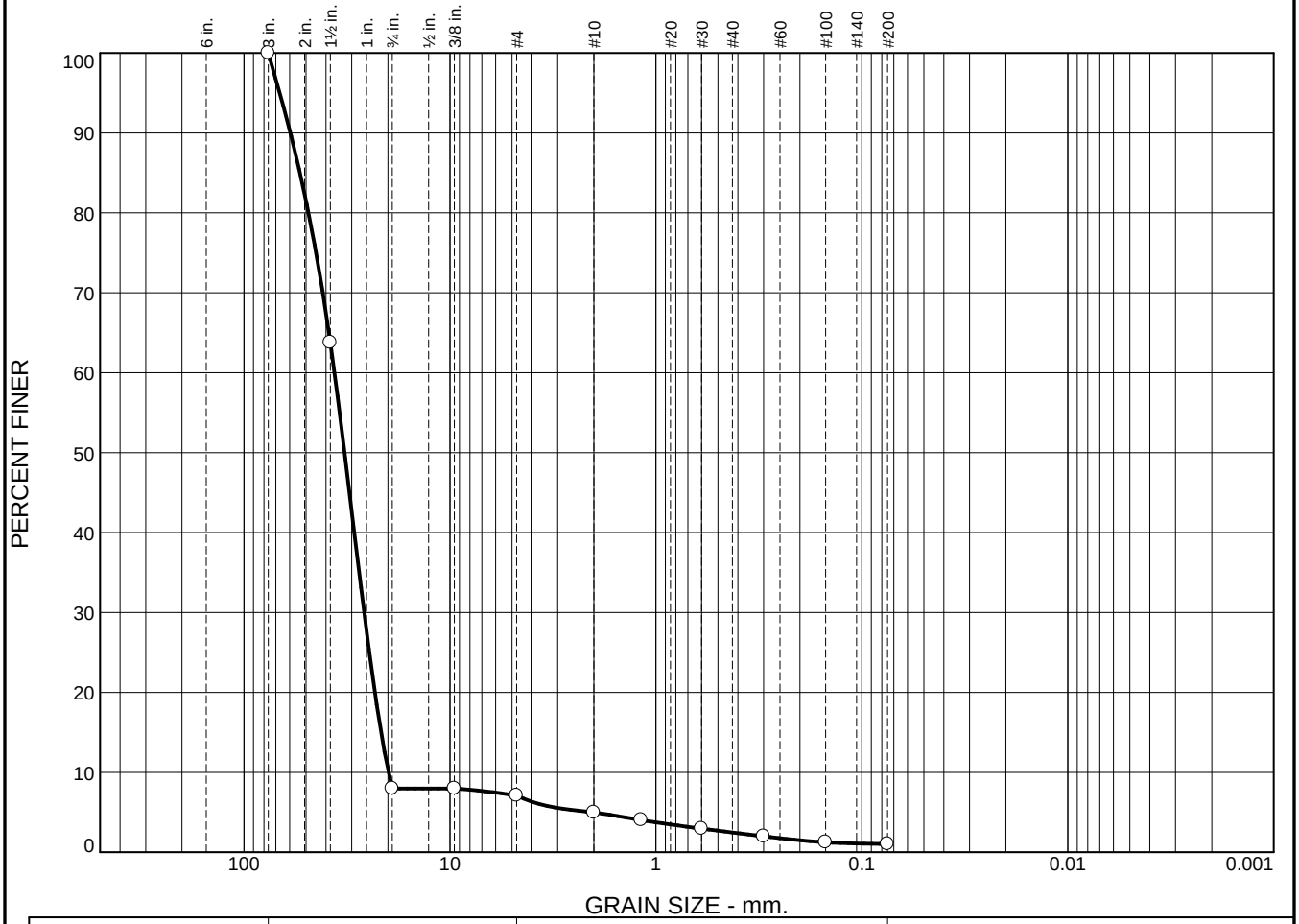
Fractional Components

Cobbles	Gravel			Sand				Fines		
	Coarse	Fine	Total	Coarse	Medium	Fine	Total	Silt	Clay	Total
0.0	0.0	14.3	14.3	8.0	7.3	37.2	52.5	22.6	10.6	33.2

D_{10}	D_{15}	D_{20}	D_{30}	D_{50}	D_{60}	D_{80}	D_{85}	D_{90}	D_{95}
0.0043	0.0127	0.0287	0.0619	0.1526	0.2243	2.9364	4.5406	6.1690	8.4219

Fineness Modulus	C_u	C_c
1.74	52.42	3.99

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0.0	92.0	0.9	2.1	2.5	1.5	1.0	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			53.4821	36.3722	32.4693	26.1084	21.6003	19.8717	0.94	1.83

Material Description	USCS	AASHTO
○ Narrowly Graded GRAVEL	GP	

Project No. 034390 **Client:** National Grid

Project: Canastota MGP

○ **Source of Sample:** SB-110 **Depth:** 4-8 ft **Sample Number:** S1, S2

Remarks:

○As Received WC=11.1%

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Figure

Tested By: M. Alstede 4/12/23 **Checked By:** W. Lukas 4/13/23

GRAIN SIZE DISTRIBUTION TEST DATA

4/18/2023

Client: National Grid
Project: Canastota MGP
Project Number: 034390
Location: SB-110
Depth: 4-8 ft
Sample Number: S1, S2
Material Description: Narrowly Graded GRAVEL
USCS Classification: GP
Testing Remarks: As Received WC=11.1%
Tested by: M. Alstede 4/12/23
Checked by: W. Lukas 4/13/23

Sieve Test Data

Dry Sample and Tare (grams)	Tare (grams)	Cumulative Pan Tare Weight (grams)	Sieve Opening Size	Cumulative Weight Retained (grams)	Percent Finer
159.48	0.00	204.82	3.0	204.82	100.0
			1.5	262.58	63.8
			3/4	351.58	8.0
			3/8	351.58	8.0
			#4	352.98	7.1
			#10	356.36	5.0
			#16	357.87	4.0
			#30	359.58	3.0
			#50	361.11	2.0
			#100	362.31	1.2
			#200	362.64	1.0

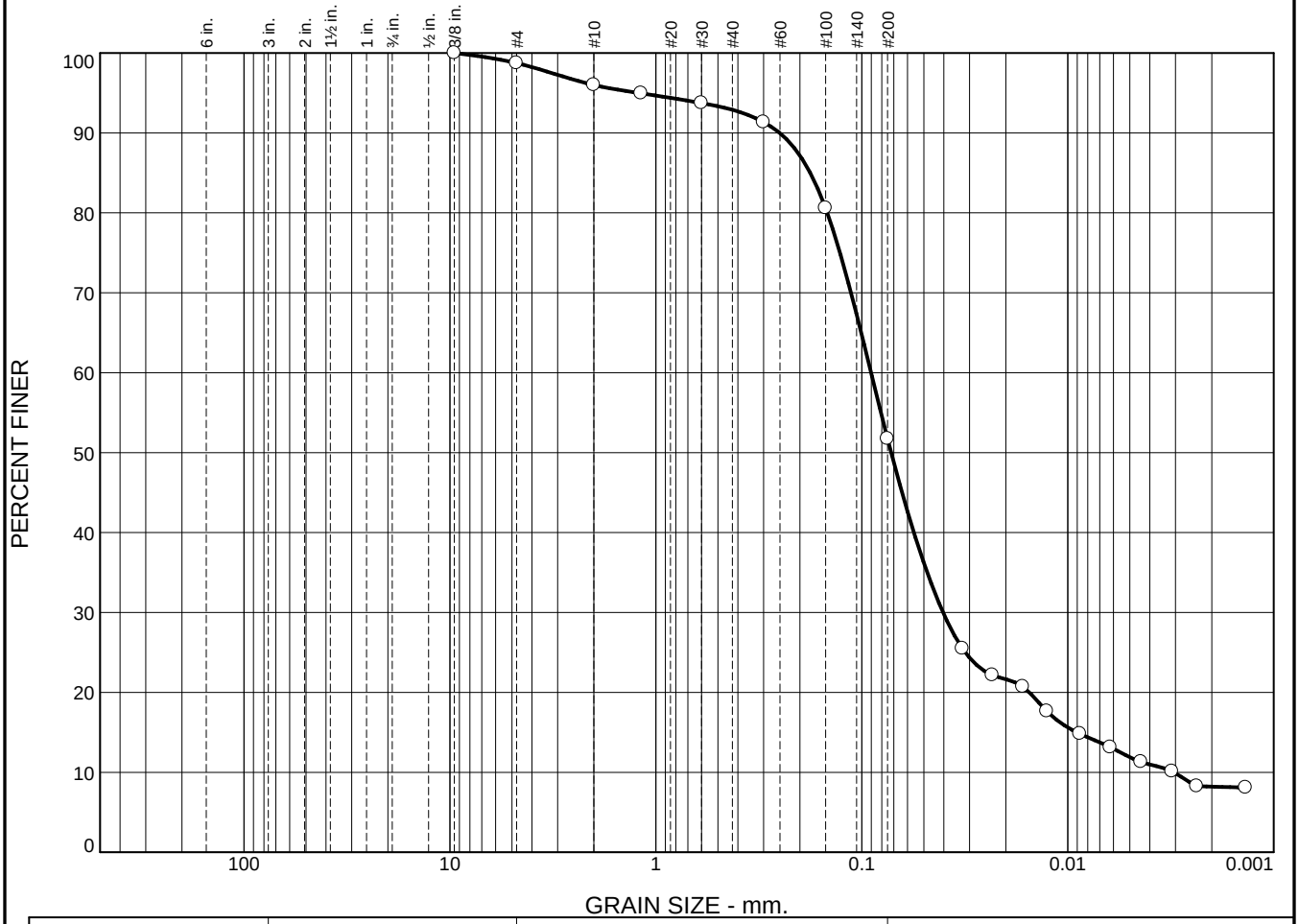
Fractional Components

Cobbles	Gravel			Sand				Fines		
	Coarse	Fine	Total	Coarse	Medium	Fine	Total	Silt	Clay	Total
0.0	92.0	0.9	92.9	2.1	2.5	1.5	6.1			1.0

D_{10}	D_{15}	D_{20}	D_{30}	D_{50}	D_{60}	D_{80}	D_{85}	D_{90}	D_{95}
19.8717	21.6003	23.1502	26.1084	32.4693	36.3722	48.6162	53.4821	59.5550	67.1041

Fineness Modulus	C_u	C_c
7.98	1.83	0.94

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0.0	0.0	1.3	2.7	3.1	41.2	39.8	11.9

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○	NV	NP	0.1780	0.0902	0.0720	0.0403	0.0090	0.0031	5.90	29.51

Material Description	USCS	AASHTO
○ Sandy SILT	ML	A-4(0)

Project No. 034390 **Client:** National Grid

Project: Canastota MGP

○ **Sample Source:** SB-110 **Depth:** 10-16 ft **Sample No.:** S4, S5, S6

Remarks:

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Figure

Tested By: M. Alstede 4/14/23 **Checked By:** W. Lukas 4/14/23

GRAIN SIZE DISTRIBUTION TEST DATA

4/18/2023

Client: National Grid
Project: Canastota MGP
Project Number: 034390
Location: SB-110
Depth: 10-16 ft
Sample Number: S4, S5, S6
Material Description: Sandy SILT
Liquid Limit: NV
Plastic Limit: NP
USCS Classification: ML
AASHTO Classification: A-4(0)
Tested by: M. Alstede 4/14/23
Checked by: W. Lukas 4/14/23

Sieve Test Data

Dry Sample and Tare (grams)	Tare (grams)	Cumulative Pan Tare Weight (grams)	Sieve Opening Size	Cumulative Weight Retained (grams)	Percent Finer
54.74	0.00	200.81	3/8	200.81	100.0
			#4	201.50	98.7
			#10	203.00	96.0
			#16	203.57	95.0
			#30	204.24	93.7
			#50	205.55	91.3
			#100	211.43	80.6
			#200	227.23	51.7

Hydrometer Test Data

Hydrometer test uses material passing #10
Percent passing #10 based upon complete sample = 96.0
Weight of hydrometer sample =54.74
Automatic temperature correction
Composite correction (fluid density and meniscus height) at 20 deg. C = -3.896
Meniscus correction only = 0.7
Specific gravity of solids = 2.7
Hydrometer type = 151H
Hydrometer effective depth equation: L = 16.294964 **-** 0.2645 **x Rm**

Elapsed Time (min.)	Temp. (deg. C.)	Actual Reading	Corrected Reading	K	Rm	Eff. Depth	Diameter (mm.)	Percent Finer
2.00	23.8	1.0125	1.0092	0.0128	13.2	12.8	0.0325	25.5
4.00	23.8	1.0113	1.0080	0.0128	12.0	13.1	0.0232	22.2
8.00	23.7	1.0108	1.0074	0.0129	11.5	13.3	0.0165	20.7
14.00	23.7	1.0097	1.0063	0.0129	10.4	13.5	0.0126	17.6
30.00	23.6	1.0087	1.0053	0.0129	9.4	13.8	0.0087	14.8
60.00	23.6	1.0081	1.0047	0.0129	8.8	14.0	0.0062	13.1
120.00	23.8	1.0074	1.0041	0.0128	8.1	14.2	0.0044	11.3
240.00	24.2	1.0069	1.0036	0.0128	7.6	14.3	0.0031	10.1
420.00	24.4	1.0062	1.0030	0.0127	6.9	14.5	0.0024	8.3
1376.00	20.2	1.0068	1.0029	0.0134	7.5	14.3	0.0014	8.1

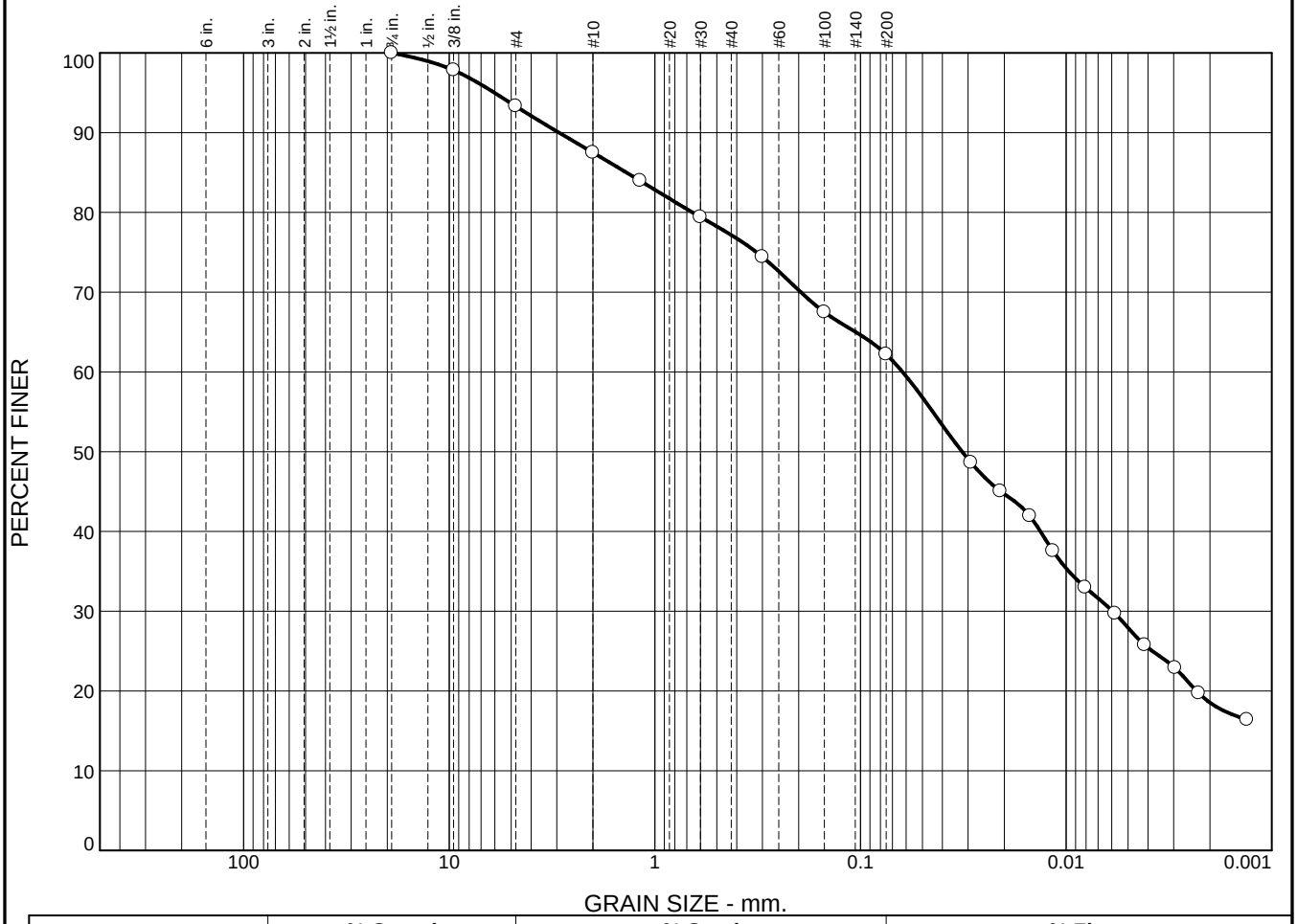
Fractional Components

Cobbles	Gravel			Sand				Fines		
	Coarse	Fine	Total	Coarse	Medium	Fine	Total	Silt	Clay	Total
0.0	0.0	1.3	1.3	2.7	3.1	41.2	47.0	39.8	11.9	51.7

D_{10}	D_{15}	D_{20}	D_{30}	D_{50}	D_{60}	D_{80}	D_{85}	D_{90}	D_{95}
0.0031	0.0090	0.0154	0.0403	0.0720	0.0902	0.1471	0.1780	0.2507	1.2099

Fineness Modulus	C_u	C_c
0.44	29.51	5.90

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0.0	0.0	6.7	5.8	10.3	15.0	34.3	27.9

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_C	C_u
○	22	13	1.3742	0.0624	0.0321	0.0059				

Material Description	USCS	AASHTO
○ Lean CLAY	CL	A-4(2)

Project No. 034390 **Client:** National Grid

Project: Canastota MGP

○ **Sample Source:** SB-111 **Depth:** 8-14 ft **Sample No.:** S5, S6, S7

Remarks:

○As Received WC=10.8%

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Figure

Tested By: M. Alstede 4/14/23 **Checked By:** W. Lukas 4/14/23

GRAIN SIZE DISTRIBUTION TEST DATA

4/18/2023

Client: National Grid
Project: Canastota MGP
Project Number: 034390
Location: SB-111
Depth: 8-14 ft
Sample Number: S5, S6, S7
Material Description: Lean CLAY
Liquid Limit: 22
Plastic Limit: 13
USCS Classification: CL
AASHTO Classification: A-4(2)
Testing Remarks: As Received WC=10.8%
Tested by: M. Alstede 4/14/23
Checked by: W. Lukas 4/14/23

Sieve Test Data

Dry Sample and Tare (grams)	Tare (grams)	Cumulative Pan Tare Weight (grams)	Sieve Opening Size	Cumulative Weight Retained (grams)	Percent Finer
270.18	0.00	31.51	3/4	31.51	100.0
			3/8	37.37	97.8
			#4	49.58	93.3
			#10	65.29	87.5
54.34	0.00	188.87	#16	191.06	84.0
			#30	193.89	79.4
			#50	196.99	74.4
			#100	201.29	67.5
			#200	204.58	62.2

Hydrometer Test Data

Hydrometer test uses material passing #10
Percent passing #10 based upon complete sample = 87.5
Weight of hydrometer sample =54.34
Automatic temperature correction
Composite correction (fluid density and meniscus height) at 20 deg. C = -3.896
Meniscus correction only = 0.7
Specific gravity of solids = 2.7
Hydrometer type = 151H
Hydrometer effective depth equation: L = 16.294964 **-** 0.2645 **x Rm**

Elapsed Time (min.)	Temp. (deg. C.)	Actual Reading	Corrected Reading	K	Rm	Eff. Depth	Diameter (mm.)	Percent Finer
2.00	23.6	1.0224	1.0190	0.0129	23.1	10.2	0.0290	48.6
4.00	23.6	1.0210	1.0176	0.0129	21.7	10.6	0.0209	45.1
8.00	23.5	1.0198	1.0164	0.0129	20.5	10.9	0.0150	41.9
14.00	23.4	1.0181	1.0147	0.0129	18.8	11.3	0.0116	37.5
30.00	23.5	1.0163	1.0129	0.0129	17.0	11.8	0.0081	33.0
60.00	23.6	1.0150	1.0116	0.0129	15.7	12.1	0.0058	29.7
120.00	23.9	1.0134	1.0101	0.0128	14.1	12.6	0.0041	25.8
240.00	24.3	1.0122	1.0089	0.0128	12.9	12.9	0.0030	22.9
416.00	24.6	1.0109	1.0077	0.0127	11.6	13.2	0.0023	19.7
1377.00	20.3	1.0103	1.0064	0.0134	11.0	13.4	0.0013	16.4

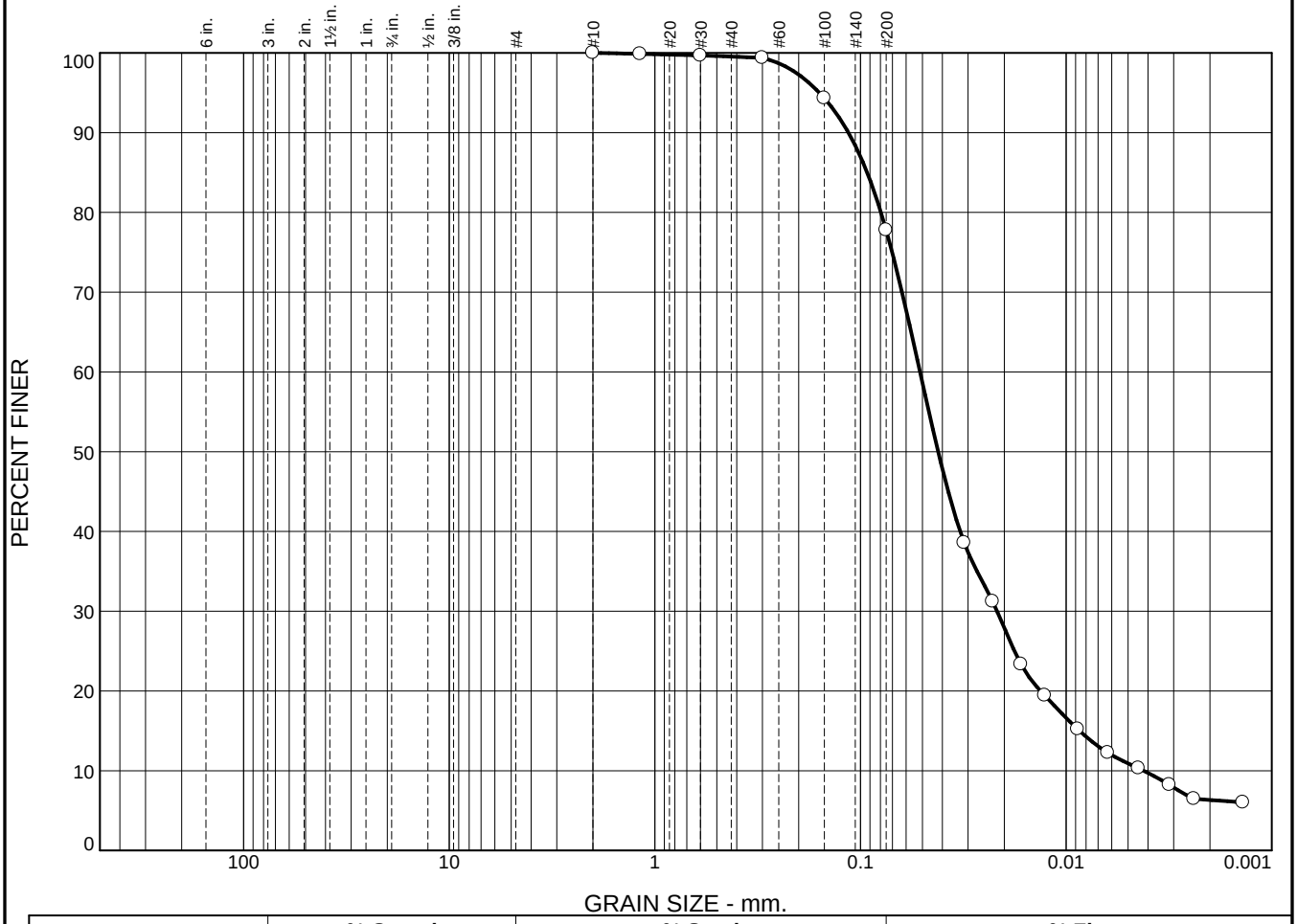
Fractional Components

Cobbles	Gravel			Sand				Fines		
	Coarse	Fine	Total	Coarse	Medium	Fine	Total	Silt	Clay	Total
0.0	0.0	6.7	6.7	5.8	10.3	15.0	31.1	34.3	27.9	62.2

D_{10}	D_{15}	D_{20}	D_{30}	D_{50}	D_{60}	D_{80}	D_{85}	D_{90}	D_{95}
		0.0023	0.0059	0.0321	0.0624	0.6564	1.3742	2.9227	6.0236

Fineness Modulus
1.15

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0.0	0.0	0.0	0.0	0.5	21.7	66.9	10.9

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○	NV	NP	0.0928	0.0514	0.0419	0.0217	0.0086	0.0042	2.17	12.23

Material Description	USCS	AASHTO
○ SILT with Sand	ML	A-4(0)

Project No. 034390 **Client:** National Grid

Project: Canastota MGP

○ **Sample Source:** SB-113 **Depth:** 10-16 ft **Sample No.:** S4, S5, S6

Remarks:

GEI Consultants, Inc.
400 Unicorn Park Drive
Woburn, MA 01801

GEI Consultants

Figure

Tested By: M. Alstede 4/13/23 **Checked By:** W. Lukas 4/14/23

GRAIN SIZE DISTRIBUTION TEST DATA

4/18/2023

Client: National Grid
Project: Canastota MGP
Project Number: 034390
Location: SB-113
Depth: 10-16 ft
Sample Number: S4, S5, S6
Material Description: SILT with Sand
Liquid Limit: NV
Plastic Limit: NP
USCS Classification: ML
AASHTO Classification: A-4(0)
Tested by: M. Alstede 4/13/23
Checked by: W. Lukas 4/14/23

Sieve Test Data

Dry Sample and Tare (grams)	Tare (grams)	Cumulative Pan Tare Weight (grams)	Sieve Opening Size	Cumulative Weight Retained (grams)	Percent Finer
52.71	0.00	217.25	#10	217.25	100.0
			#16	217.32	99.9
			#30	217.42	99.7
			#50	217.58	99.4
			#100	220.24	94.3
			#200	228.96	77.8

Hydrometer Test Data

Hydrometer test uses material passing #10
Percent passing #10 based upon complete sample = 100.0
Weight of hydrometer sample =52.71
Automatic temperature correction
Composite correction (fluid density and meniscus height) at 20 deg. C = -3.896
Meniscus correction only = 0.7
Specific gravity of solids = 2.7
Hydrometer type = 151H
Hydrometer effective depth equation: L = 16.294964 **-** 0.2645 **x Rm**

Elapsed Time (min.)	Temp. (deg. C.)	Actual Reading	Corrected Reading	K	Rm	Eff. Depth	Diameter (mm.)	Percent Finer
2.00	23.5	1.0162	1.0128	0.0129	16.9	11.8	0.0313	38.6
4.00	23.3	1.0138	1.0104	0.0129	14.5	12.5	0.0228	31.2
8.00	23.2	1.0112	1.0077	0.0129	11.9	13.1	0.0166	23.3
14.00	23.2	1.0099	1.0064	0.0129	10.6	13.5	0.0127	19.4
30.00	23.2	1.0085	1.0050	0.0129	9.2	13.9	0.0088	15.2
60.00	23.3	1.0075	1.0041	0.0129	8.2	14.1	0.0063	12.3
120.00	23.6	1.0068	1.0034	0.0129	7.5	14.3	0.0044	10.3
240.00	24.2	1.0060	1.0027	0.0128	6.7	14.5	0.0031	8.2
414.00	24.8	1.0053	1.0022	0.0127	6.0	14.7	0.0024	6.5
1375.00	20.2	1.0059	1.0020	0.0134	6.6	14.5	0.0014	6.0

Fractional Components

Cobbles	Gravel			Sand				Fines		
	Coarse	Fine	Total	Coarse	Medium	Fine	Total	Silt	Clay	Total
0.0	0.0	0.0	0.0	0.0	0.5	21.7	22.2	66.9	10.9	77.8

D_{10}	D_{15}	D_{20}	D_{30}	D_{50}	D_{60}	D_{80}	D_{85}	D_{90}	D_{95}
0.0042	0.0086	0.0133	0.0217	0.0419	0.0514	0.0795	0.0928	0.1144	0.1584

Fineness Modulus	C_u	C_c
0.07	12.23	2.17

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0.0	0.0	0.0	0.2	0.6	68.0	31.2	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			0.1554	0.1054	0.0932					

Material Description	USCS	AASHTO
○ Silty SAND	SM	

Project No. 034390 **Client:** National Grid

Project: Canastota MGP

○ **Source of Sample:** SB-121 **Depth:** 4-8 ft **Sample Number:** S1

Remarks:

○As Received WC=26.8%

Fines classified visually

GEI Consultants, Inc.
400 Unicorn Park Drive
Woburn, MA 01801

GEI Consultants

Figure

Tested By: M. Alstede 4/12/23 **Checked By:** W. Lukas 4/13/23

GRAIN SIZE DISTRIBUTION TEST DATA

4/18/2023

Client: National Grid
Project: Canastota MGP
Project Number: 034390
Location: SB-121
Depth: 4-8 ft
Sample Number: S1
Material Description: Silty SAND
USCS Classification: SM
Testing Remarks: As Received WC=26.8%
Fines classified visually
Tested by: M. Alstede 4/12/23
Checked by: W. Lukas 4/13/23

Sieve Test Data

Dry Sample and Tare (grams)	Tare (grams)	Cumulative Pan Tare Weight (grams)	Sieve Opening Size	Cumulative Weight Retained (grams)	Percent Finer
260.08	0.00	203.89	#4	203.89	100.0
			#10	204.44	99.8
			#16	204.96	99.6
			#30	205.50	99.4
			#50	206.25	99.1
			#100	247.34	83.3
			#200	382.70	31.2

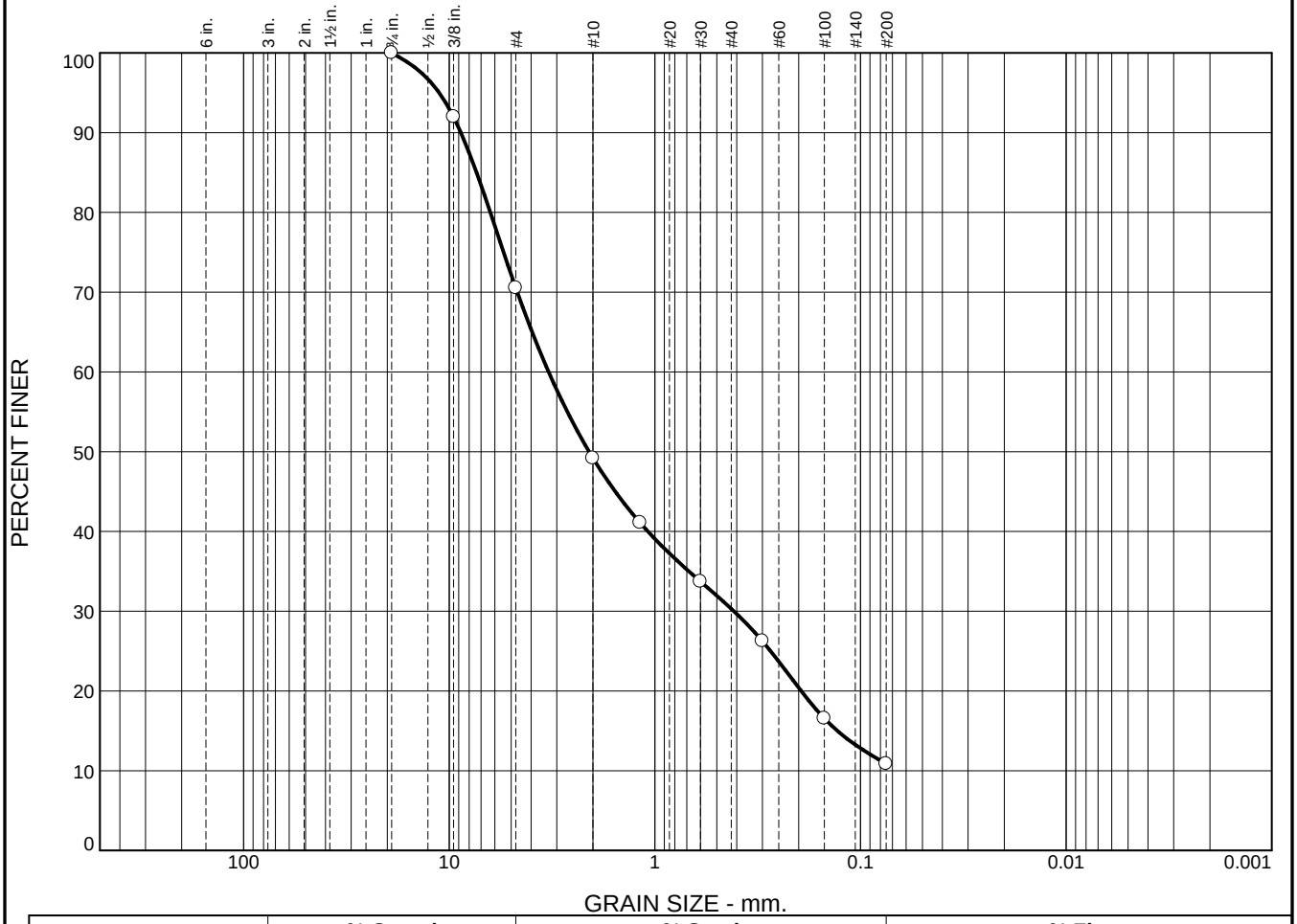
Fractional Components

Cobbles	Gravel			Sand				Fines		
	Coarse	Fine	Total	Coarse	Medium	Fine	Total	Silt	Clay	Total
0.0	0.0	0.0	0.0	0.2	0.6	68.0	68.8			31.2

D_{10}	D_{15}	D_{20}	D_{30}	D_{50}	D_{60}	D_{80}	D_{85}	D_{90}	D_{95}
				0.0932	0.1054	0.1410	0.1554	0.1758	0.2110

Fineness Modulus
0.19

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0.0	0.0	29.5	21.3	18.9	19.4	10.9	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			7.3674	3.2859	2.0891	0.4130	0.1296			

Material Description	USCS	AASHTO
○ Narrowly Graded SAND with Silt and Gravel	SP-SM	

Project No. 034390 **Client:** National Grid

Project: Canastota MGP

○ **Source of Sample:** TP-102 **Depth:** 5 ft **Sample Number:** S2

Remarks:

○As Received WC=32.8%

Fines classified visually

GEI Consultants, Inc.
400 Unicorn Park Drive
Woburn, MA 01801

GEI Consultants

Figure

Tested By: M. Alstede 4/12/23 **Checked By:** W. Lukas 4/13/23

GRAIN SIZE DISTRIBUTION TEST DATA

4/18/2023

Client: National Grid
Project: Canastota MGP
Project Number: 034390
Location: TP-102
Depth: 5 ft **Sample Number:** S2
Material Description: Narrowly Graded SAND with Silt and Gravel
USCS Classification: SP-SM
Testing Remarks: As Received WC=32.8%
Fines classified visually
Tested by: M. Alstede 4/12/23 **Checked by:** W. Lukas 4/13/23

Sieve Test Data

Dry Sample and Tare (grams)	Tare (grams)	Cumulative Pan Tare Weight (grams)	Sieve Opening Size	Cumulative Weight Retained (grams)	Percent Finer
135.15	0.00	212.88	3/4	212.88	100.0
			3/8	223.73	92.0
			#4	252.69	70.5
			#10	281.55	49.2
			#16	292.49	41.1
			#30	302.46	33.7
			#50	312.55	26.3
			#100	325.64	16.6
			#200	333.35	10.9

Fractional Components

Cobbles	Gravel			Sand				Fines		
	Coarse	Fine	Total	Coarse	Medium	Fine	Total	Silt	Clay	Total
0.0	0.0	29.5	29.5	21.3	18.9	19.4	59.6			10.9

D_{10}	D_{15}	D_{20}	D_{30}	D_{50}	D_{60}	D_{80}	D_{85}	D_{90}	D_{95}
	0.1296	0.1943	0.4130	2.0891	3.2859	6.3131	7.3674	8.7745	11.1882

Fineness Modulus
3.67

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0.0	0.0	21.3	12.1	16.2	33.0	17.4	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_C	C_u
○			6.7355	1.0794	0.4129	0.1716				

Material Description	USCS	AASHTO
○ Silty SAND with Gravel	SM	

Project No. 034390 **Client:** National Grid

Project: Canastota MGP

○ **Source of Sample:** TP-104 **Depth:** 6 ft **Sample Number:** S2

Remarks:

○As Received WC=38.2%

Fines classified visually

GEI Consultants, Inc.
400 Unicorn Park Drive
Woburn, MA 01801

GEI Consultants

Figure

Tested By: M. Alstede 4/12/23 **Checked By:** W. Lukas 4/13/23

GRAIN SIZE DISTRIBUTION TEST DATA

4/18/2023

Client: National Grid
Project: Canastota MGP
Project Number: 034390
Location: TP-104
Depth: 6 ft
Sample Number: S2
Material Description: Silty SAND with Gravel
USCS Classification: SM
Testing Remarks: As Received WC=38.2%
Fines classified visually
Tested by: M. Alstede 4/12/23
Checked by: W. Lukas 4/13/23

Sieve Test Data

Dry Sample and Tare (grams)	Tare (grams)	Cumulative Pan Tare Weight (grams)	Sieve Opening Size	Cumulative Weight Retained (grams)	Percent Finer
146.30	0.00	220.60	3/4	220.60	100.0
			3/8	233.73	91.0
			#4	251.75	78.7
			#10	269.48	66.6
			#16	277.84	60.9
			#30	287.37	54.4
			#50	302.02	44.3
			#100	327.57	26.9
			#200	341.49	17.4

Fractional Components

Cobbles	Gravel			Sand				Fines		
	Coarse	Fine	Total	Coarse	Medium	Fine	Total	Silt	Clay	Total
0.0	0.0	21.3	21.3	12.1	16.2	33.0	61.3			17.4

D_{10}	D_{15}	D_{20}	D_{30}	D_{50}	D_{60}	D_{80}	D_{85}	D_{90}	D_{95}
		0.0964	0.1716	0.4129	1.0794	5.1164	6.7355	8.9413	12.5686

Fineness Modulus
2.75

JLT Laboratories, Inc.
Geotechnical, Geosynthetic and Materials Testing and Research

938 South Central Avenue
Canonsburg, Pennsylvania, 15317
Tel: 724-746-4441 Fax 724 -745-4261
e-mail: jboschuk@jltlabs.com
www.jltlabs.com

April 14, 2023
23LS4037

GEI Consultants
4000 CentreGreen Way
Suite 180
Cary, NC 27513

Attn: A. Currie Mixon, PE

RE: SIEVE ANALYSIS TEST RESULTS
CANASTOTA

Submitted herein are the results of four (4) sieve analysis tests performed on four (4) buckets from the above referenced project. Where applicable, testing was performed per ASTM Standards while subject to JLT's internal QA / QC and data validation procedures.

We appreciate the opportunity of being of service to you and look forward to working with you again. Should you have any questions, comments or require additional information, please do not hesitate to call. Thank you.

Sincerely,
JLT LABORATORIES, INC.



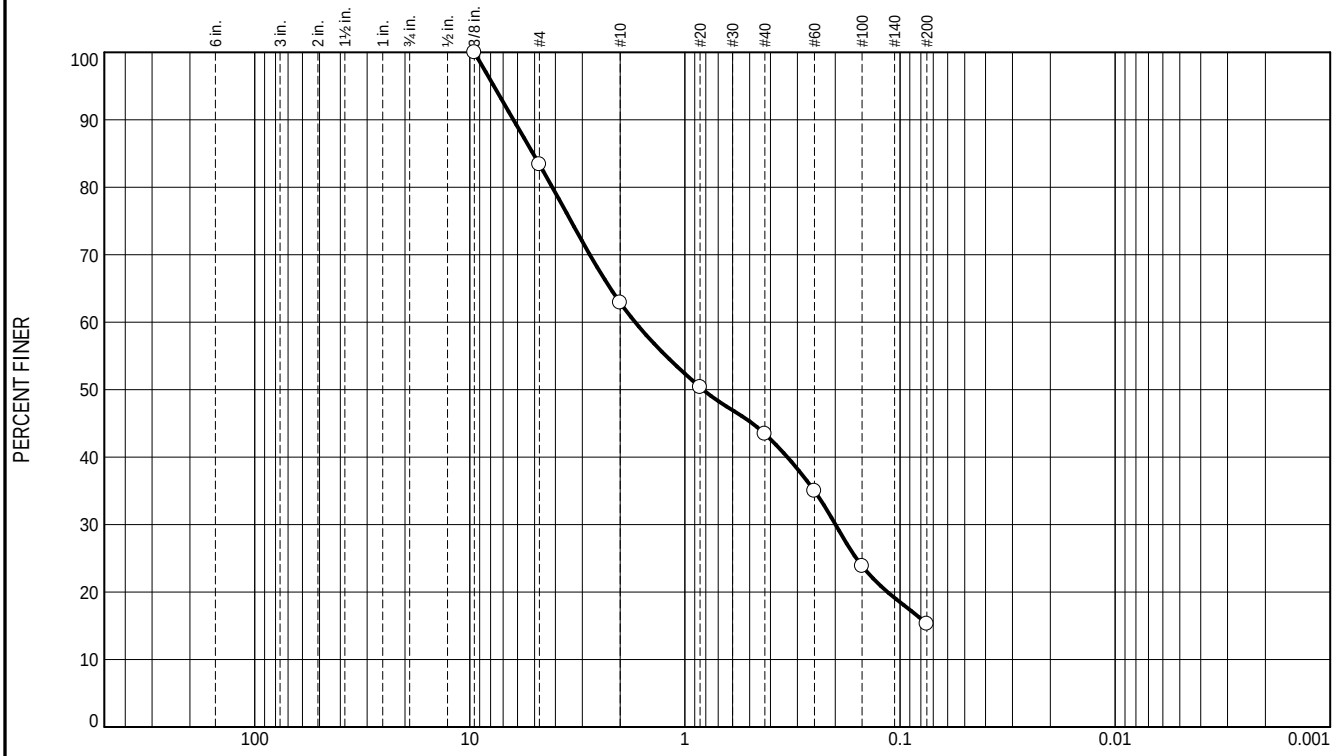
Martha Lea Boschuk
Office Manager

cc: AP – Separate PDF

Enclosures
mlb
MSWord\letter\2336
Inv# 8297

Particle Size Distribution Report

ASTM D6913



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	16.6	20.5	19.4	28.2	15.3	

Test Results (ASTM D6913)

Sieve Size or Diam. (mm.)	Finer (%)	Spec.* (%)	Out of Spec. (%)	Pct. of Fines
0.375	100.0			
#4	83.4			
#10	62.9			
#20	50.4			
#40	43.5			
#60	35.0			
#100	23.8			
#200	15.3			

* (no specification provided)

Material Description

TP-104
Fill

Atterberg Limits

PL= LL= PI=

Coefficients

D_{90}= 6.2663 D_{85}= 5.0809 D_{60}= 1.7025
D_{50}= 0.8249 D_{30}= 0.1994 D_{15}=
D_{10}= C_u= C_c=

Classification

USCS= AASHTO=

Test Remarks

Location: Canastota
Sample Number: Bucket #1 Depth: 5-6 Sample Date:

JLT Laboratories, Inc.

Canonsburg, PA

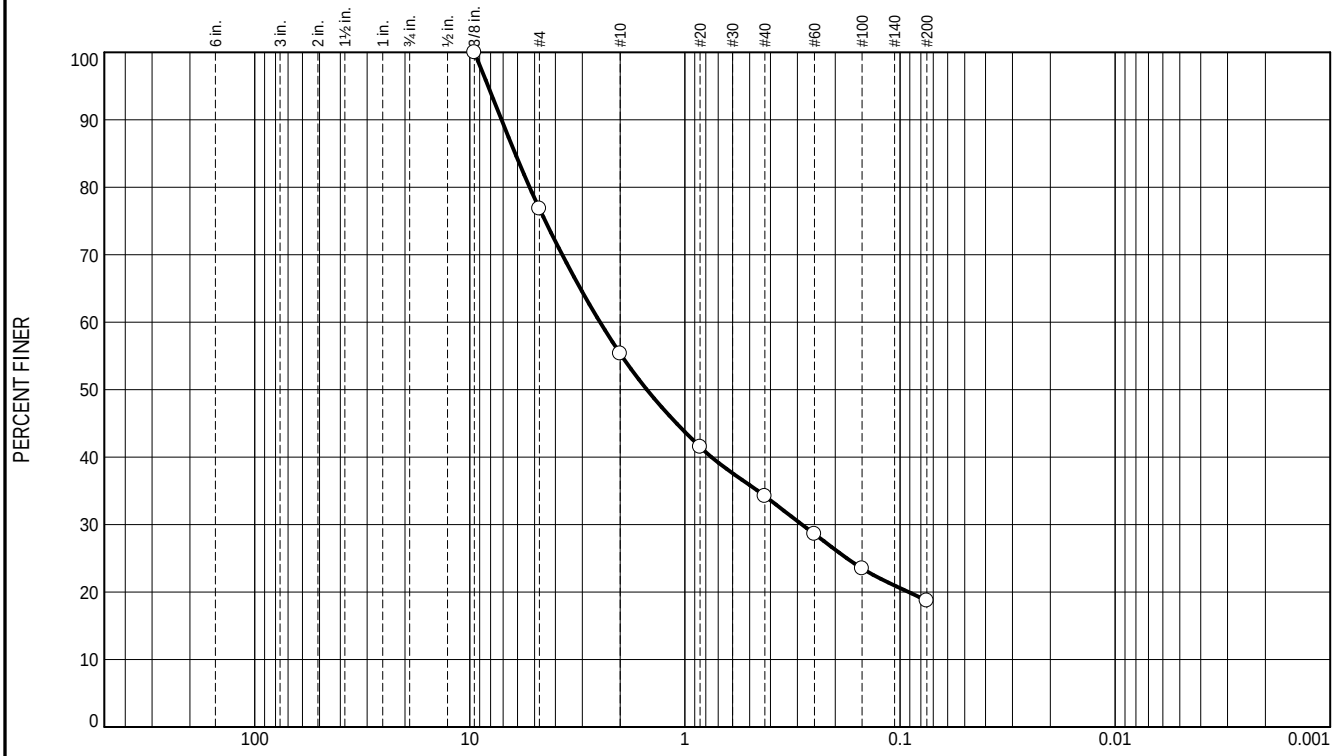
Client: GEI
Project: Canastota

Project No: 23LS4037 Figure

Tested By: AE Checked By: MLB

Particle Size Distribution Report

ASTM D6913



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	23.2	21.4	21.2	15.5	18.7	

Test Results (ASTM D6913)

Sieve Size or Diam. (mm.)	Finer (%)	Spec.* (%)	Out of Spec. (%)	Pct. of Fines
0.375	100.0			
#4	76.8			
#10	55.4			
#20	41.5			
#40	34.2			
#60	28.6			
#100	23.5			
#200	18.7			

* (no specification provided)

Material Description

SB 105 (9-14) & SB 110 (0-4)
Fill

Atterberg Limits

PL= LL= PI=

Coefficients

D_{90}= 7.1171 D_{85}= 6.1487 D_{60}= 2.4799
D_{50}= 1.5025 D_{30}= 0.2856 D_{15}=
D_{10}= C_u= C_c=

Classification

USCS= AASHTO=

Test Remarks

Location: Canastota
Sample Number: Bucket #2 Depth: 9-14 & 0-4 Sample Date:

JLT Laboratories, Inc.

Canonsburg, PA

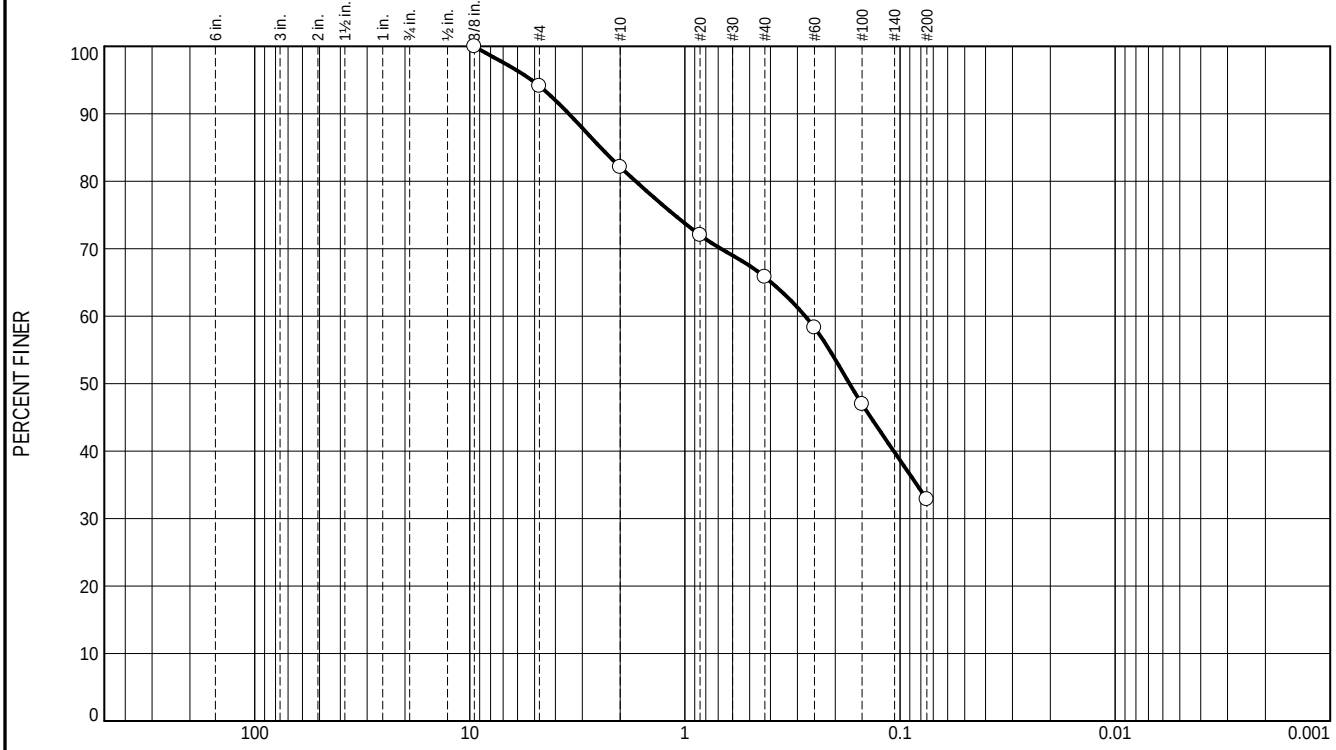
Client: GEI
Project: Canastota

Project No: 23LS4037 Figure

Tested By: AE Checked By: MLB

Particle Size Distribution Report

ASTM D6913



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	5.9	12.0	16.3	32.9	32.9	

Test Results (ASTM D6913)

Sieve Size or Diam. (mm.)	Finer (%)	Spec.* (%)	Out of Spec. (%)	Pct. of Fines
0.375	100.0			
#4	94.1			
#10	82.1			
#20	72.0			
#40	65.8			
#60	58.3			
#100	47.0			
#200	32.9			

* (no specification provided)

Material Description

SB 113
Alluvial Soil

Atterberg Limits

PL= LL= PI=

Coefficients

D_{90}= 3.4601 D_{85}= 2.4657 D_{60}= 0.2757
D_{50}= 0.1717 D_{30}= D_{15}=
D_{10}= C_u= C_c=

Classification

USCS= AASHTO=

Test Remarks

Location: Canastota
Sample Number: Bucket #3 Depth: 12-16 Sample Date:

JLT Laboratories, Inc.

Canonsburg, PA

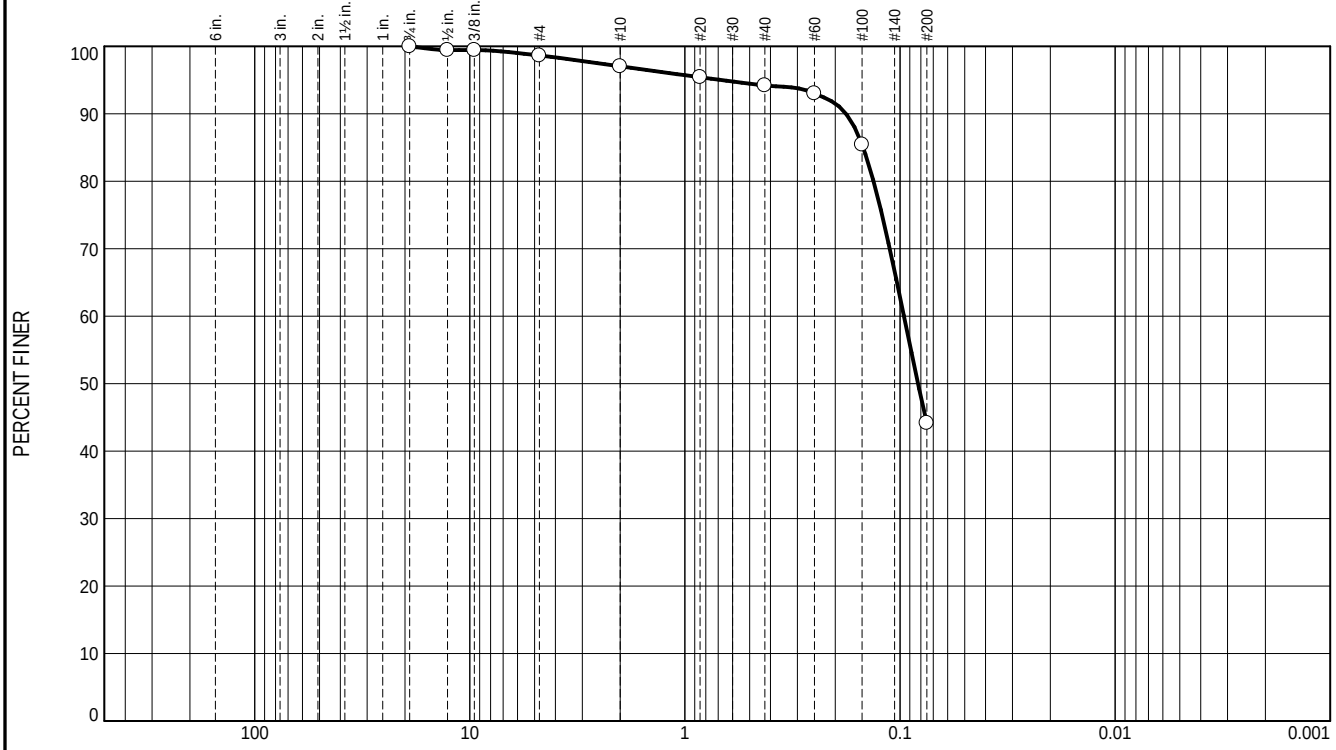
Client: GEI
Project: Canastota

Project No: 23LS4037 Figure

Tested By: AE Checked By: MLB

Particle Size Distribution Report

ASTM D6913



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	1.4	1.6	2.8	50.0	44.2	

Test Results (ASTM D6913)

Sieve Size or Diam. (mm.)	Finer (%)	Spec.* (%)	Out of Spec. (%)	Pct. of Fines
0.75	100.0			
0.50	99.5			
0.375	99.5			
#4	98.6			
#10	97.0			
#20	95.4			
#40	94.2			
#60	93.0			
#100	85.4			
#200	44.2			

* (no specification provided)

Material Description

SB 110 (4-15 & 10-12) & SB 109 (7-14)
Alluvial Soil

Atterberg Limits

PL= LL= PI=

Coefficients

D_{90}= 0.1781 D_{85}= 0.1483 D_{60}= 0.0958
D_{50}= 0.0824 D_{30}= D_{15}=
D_{10}= C_u= C_c=

Classification

USCS= AASHTO=

Test Remarks

Location: Canastota
Sample Number: Bucket #4 Depth: 4-15, 10-12, 7-14 Sample Date:

JLT Laboratories, Inc.

Canonsburg, PA

Client: GEI
Project: Canastota

Project No: 23LS4037 Figure

Tested By: AE Checked By: MLB

Table B-1. Laboratory Geotechnical Testing Summary
Pre-Design Investigation Report
Canastota Former MGP
Canastota, New York

Boring ID	Sample No.	Sample Depth; Top (ft)	Sample Depth; Bottom (ft)	Stratum	USCS	Water Content (%)	Atterberg Limits			Grain Size Analyses					
							Liquid Limit (LL, %)	Plastic Limit (PL, %)	Plasticity Index (PI, %)	Maximum Size (in)	% Gravel	% Coarse Sand	% Medium Sand	% Fine Sand	% Fines
SB-102	S2, S3, S4	6	12	Alluvium	ML	22.5	NM	NM	NM	NM	6.9	2.8	3.8	53.3	33.2
SB-102	S5, S6	12	16	Alluvium	ML	23.0	NM	NM	NM	NM	0.4	0.6	0.6	38.6	59.8
SB-104	S11, S12	24	28	Till	CL	9.1	20	12	8	NM	11.3	3.8	9.2	15	60.7
SB-105	S1, S3	5	11	MGP pond fill	SM	22.6	NM	NM	NM	NM	14.3	8	7.3	37.2	33.2
SB-105	S5, S6	13	17	Clay alluvial soil	CL-ML	11.3	18	11	7	NM	NM	NM	NM	NM	NM
SB-110	S1,S2	4	8	MGP yard fill	GP	11.1	NM	NM	NM	NM	92	2.1	2.5	1.5	1
SB-110	S4, S5, S6	10	16	Silty alluvial soil	ML	21.5	NM	NM	NM	NM	1.3	2.7	3.1	41.2	51.7
SB-111	S5, S6, S7	8	14	Clay alluvial soil	CL	10.8	22	13	9	NM	6.7	5.8	10.3	15	62.2
SB-112	S10, S11, S12	22	30.6	TIll	CL	9.4	21	13	8	NM	NM	NM	NM	NM	NM
SB-113	S4, S5, S6	10	16	Silty alluvial soil	ML	21.7	NM	NM	NM	NM	0	0	0,5	21.7	77.8
SB-121	S1	4	8	Sandy alluvial soil	SM	26.8	NM	NM	NM	NM	0	0.2	0.6	68	31.2
TP-102	S2	0	5	MGP pond fill	SP-SM	32.8	NM	NM	NM	NM	29.5	21.3	18.9	19.4	10.9
TP-104	S2	0	6	MGP pond fill	SM	38.2	NM	NM	NM	NM	21.3	12.1	16.2	33	17.4
ISS 1	Bucket 1	5	6	MGP pond fill	--	NM	NM	NM	NM	NM	16.6	20.5	19.4	28.2	15.3
ISS 2	Bucket 2	0	14	MGP yard fill	--	NM	NM	NM	NM	NM	23.2	21.4	21.2	15.5	18.7
ISS 3	Bucket 3	12	16	Alluvium	--	NM	NM	NM	NM	NM	5.9	12	16.3	32.9	32.9
ISS 4	Bucket 4	7	14	Alluvium	--	NM	NM	NM	NM	NM	1.4	1.6	2.8	50	44.2

General Notes/Abbreviations:
NM = Not Measured

Attachment C

Well Integrity Assessment Forms

WELL INTEGRITY ASSESSMENT FORM

Site Name: Canastota MGP
Well I.D.: MW-01
Date: 1/18/23

(For each item, circle the appropriate response or fill in the blank)

Well I.D. Clearly Marked: YES (NO)
Well Completion: (FLUSH MOUNT) ABOVE-GRADE STANDPIPE
Lockable Cover: (YES) NO DAMAGED *(Describe below)*
Lock Present: (YES) NO ADDED Key Brand/Number: Master
Measuring Point Marked: (YES) NO ADDED
Well Riser Diameter (inches): 2"
Well Riser Type: (PVC) Stainless Steel Other *(Describe)* _____

Surface Condition

Cement Intact: (YES) NO *(Describe below)*
Curb Box/Well Cover Present: (YES) NO DAMAGED *(Describe below)*
All Bolts Present: (YES) NO *(Describe below)* NOT APPLICABLE
Ground Surface Slopes
Away from Well YES (NO) *(Describe below)* flat

Well Condition

Well Cap: PVC Slip Cap (Pressure-fit Cap) None
Well Vent: Slot Cut in Riser Vent Hole in Cap None (Not Applicable *(Flush Mount Well)*)
Reported Well Riser Stickup (feet): _____ *(use negative number if below grade)*
Measured Well Riser Stickup (feet): -0.33 *(use negative number if below grade)*

Depth to Water (feet from Top of Well Riser): 4.35 -or- DRY

Reported Total Depth of Well (feet below grade): _____
Measured Total Depth of Well (feet below grade): 9.26
Well Obstructed: YES (NO) If yes, list depth in feet from Top of Well Riser: _____
Well Bottom: SOFT *(contains sediment)* (FIRM *(no sediment)*)

Recommendations

Repair Concrete/Surface Completion: YES (NO) If yes, list date performed: _____
Re-Survey Well: YES (NO) If yes, list date performed: _____
Remove Sediment, Redevelop & Re-Measure Depth: YES (NO) If yes, list date performed: _____
Replace Well Cap: YES (NO) If yes, list date performed: _____
Replace Bolts: YES (NO) If yes, list date performed: _____
Replace Lock: YES (NO) If yes, list date performed: _____
Other/Miscellaneous Observations:

Inspector(s): J. DesRosiers

WELL INTEGRITY ASSESSMENT FORM

Site Name: Canastota MGP
Well I.D.: MW-07
Date: 3/24/23

(For each item, circle the appropriate response or fill in the blank)

Well I.D. Clearly Marked: YES (NO)
Well Completion: (FLUSH MOUNT) ABOVE-GRADE STANDPIPE
Lockable Cover: (YES) NO DAMAGED *(Describe below)*
Lock Present: YES (NO) ADDED Key Brand/Number: _____
Measuring Point Marked: YES (NO) ADDED
Well Riser Diameter (inches): 2"
Well Riser Type: (PVC) Stainless Steel Other *(Describe)* _____

Surface Condition

Cement Intact: YES NO *(Describe below)* N/A- Grass
Curb Box/Well Cover Present: (YES) NO DAMAGED *(Describe below)*
All Bolts Present: (YES) NO *(Describe below)* NOT APPLICABLE
Ground Surface Slopes
Away from Well YES (NO) *(Describe below)*

Well Condition

Well Cap: PVC Slip Cap (Pressure-fit Cap) None
Well Vent: Slot Cut in Riser Vent Hole in Cap None (Not Applicable *(Flush Mount Well)*
Reported Well Riser Stickup (feet): — *(use negative number if below grade)*
Measured Well Riser Stickup (feet): NM *(use negative number if below grade)*

Depth to Water (feet from Top of Well Riser): NM -or- DRY

Reported Total Depth of Well (feet below grade): —
Measured Total Depth of Well (feet below grade): NM
Well Obstructed: N/A YES NO If yes, list depth in feet from Top of Well Riser: _____
Well Bottom: N/A SOFT *(contains sediment)* FIRM *(no sediment)*

Recommendations

Repair Concrete/Surface Completion: YES (NO) If yes, list date performed: _____
Re-Survey Well: YES (NO) If yes, list date performed: _____
Remove Sediment, Redevelop & Re-Measure Depth: YES (NO) If yes, list date performed: _____
Replace Well Cap: YES (NO) If yes, list date performed: _____
Replace Bolts: (YES) NO If yes, list date performed: 4/6/23
Replace Lock: YES (NO) If yes, list date performed: _____

Other/Miscellaneous Observations:

2 bolts not threaded, water pooled around well, located in low area. Located during survey on 3/24. Unable to find earlier. Not gauged at the time.

Inspector(s): B. Rabbit

* Replaced bolts on 4/6/23. (1 bolt ~~2 bolts~~ replaced) BR

WELL INTEGRITY ASSESSMENT FORM

Site Name: Canastota MGP
Well I.D.: MW-03
Date: 1/18/23

(For each item, circle the appropriate response or fill in the blank)

Well I.D. Clearly Marked: YES (NO)
Well Completion: FLUSH MOUNT (ABOVE-GRADE STANDPIPE)
Lockable Cover: YES NO (DAMAGED *(Describe below)* missing cover
Lock Present: (YES) NO ADDED Key Brand/Number: Rusted unknown key
Measuring Point Marked: (YES) NO ADDED
Well Riser Diameter (inches): 2"
Well Riser Type: (PVC) Stainless Steel Other *(Describe)* _____

Surface Condition

Cement Intact: YES NO *(Describe below)* N/A
Curb Box/Well Cover Present: YES (NO) DAMAGED *(Describe below)*
All Bolts Present: YES NO *(Describe below)* (NOT APPLICABLE)
Ground Surface Slopes
Away from Well (YES) NO *(Describe below)* low spot

Well Condition

Well Cap: PVC Slip Cap (Pressure-fit Cap) None
Well Vent: Slot Cut in Riser Vent Hole in Cap (None) Not Applicable *(Flush Mount Well)*
Reported Well Riser Stickup (feet): — *(use negative number if below grade)*
Measured Well Riser Stickup (feet): 29" PVC 33" casing *(use negative number if below grade)*
Depth to Water (feet from Top of Well Riser): 4.79 -or- DRY

Reported Total Depth of Well (feet below grade): —
Measured Total Depth of Well (feet below grade): 16.25
Well Obstructed: YES (NO) If yes, list depth in feet from Top of Well Riser: _____
Well Bottom: (SOFT *(contains sediment)* FIRM *(no sediment)*

Recommendations

Repair Concrete/Surface Completion: YES (NO) If yes, list date performed: _____
Re-Survey Well: YES (NO) If yes, list date performed: _____
Remove Sediment, Redevelop & Re-Measure Depth: YES (NO) If yes, list date performed: _____
Replace Well Cap: (YES) NO If yes, list date performed: 4/6/23
Replace Bolts: YES (NO) If yes, list date performed: _____
Replace Lock: (YES) NO If yes, list date performed: 4/6/23
Other/Miscellaneous Observations:

Missing cover, Tubing in well found on top of stickup on 1/19/23

Inspector(s): B. Pabst.

* Replaced cover & lock on 4/6/23

WELL INTEGRITY ASSESSMENT FORM

Site Name: Camelback MGP
Well I.D.: MW-04
Date: 1/28/22

(For each item, circle the appropriate response or fill in the blank)

Well I.D. Clearly Marked: YES (NO)
Well Completion: (FLUSH MOUNT) ABOVE-GRADE STANDPIPE
Lockable Cover: (YES) NO DAMAGED *(Describe below)*
Lock Present: (YES) NO ADDED Key Brand/Number: _____
Measuring Point Marked: YES (NO) ADDED
Well Riser Diameter (inches): 2"
Well Riser Type: (PVC) Stainless Steel Other *(Describe)* _____

Surface Condition

Cement Intact: (YES) NO *(Describe below)*
Curb Box/Well Cover Present: (YES) NO DAMAGED *(Describe below)*
All Bolts Present: YES (NO) *(Describe below)* NOT APPLICABLE
Ground Surface Slopes Away from Well: YES (NO) *(Describe below)*

missing 2 bolt, corresponding road box thread is jammed
flat

Well Condition

Well Cap: PVC Slip Cap (Pressure-fit Cap) None
Well Vent: Slot Cut in Riser Vent Hole in Cap None (Not Applicable *(Flush Mount Well)*)
Reported Well Riser Stickup (feet): — *(use negative number if below grade)*
Measured Well Riser Stickup (feet): -0.263 *(use negative number if below grade)*

Depth to Water (feet from Top of Well Riser): 2.58 -or- DRY

Reported Total Depth of Well (feet below grade): —
Measured Total Depth of Well (feet below grade): ~~2.58~~ 7.70
Well Obstructed: YES (NO) If yes, list depth in feet from Top of Well Riser: _____
Well Bottom: SOFT *(contains sediment)* (FIRM *(no sediment)*)

Recommendations

Repair Concrete/Surface Completion: YES (NO) If yes, list date performed: _____
Re-Survey Well: YES (NO) If yes, list date performed: _____
Remove Sediment, Redevelop & Re-Measure Depth: YES (NO) If yes, list date performed: _____
Replace Well Cap: YES (NO) If yes, list date performed: _____
Replace Bolts: (YES) NO If yes, list date performed: 4/6/23
Replace Lock: YES (NO) If yes, list date performed: _____
Other/Miscellaneous Observations: remaining 2 bolts are too shot to thread properly w/ road box

Inspector(s): JPD, RJ, CS

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* Added bolts on 4/6/23 - retrieved ~~into~~ collar & cleaned up bolt holes. Replaced 3 bolts.

WELL INTEGRITY ASSESSMENT FORM

Site Name: Cannastota MGP
Well I.D.: MW-04A
Date: 3/24/23

(For each item, circle the appropriate response or fill in the blank)

Well I.D. Clearly Marked: YES (NO)
Well Completion: (FLUSH MOUNT) ABOVE-GRADE STANDPIPE
Lockable Cover: (YES) NO DAMAGED *(Describe below)*
Lock Present: YES (NO) ADDED Key Brand/Number: _____
Measuring Point Marked: YES (NO) ADDED
Well Riser Diameter (inches): 2"
Well Riser Type: (PVC) Stainless Steel Other *(Describe)* _____

Surface Condition

Cement Intact: YES (NO) *(Describe below)*
Curb Box/Well Cover Present: (YES) NO (DAMAGED) *(Describe below)*
All Bolts Present: (YES) NO *(Describe below)* NOT APPLICABLE
Ground Surface Slopes
Away from Well YES (NO) *(Describe below)*

Well Condition

Well Cap: PVC Slip Cap (Pressure-fit Cap) None
Well Vent: Slot Cut in Riser Vent Hole in Cap None (Not Applicable) *(Flush Mount Well)*
Reported Well Riser Stickup (feet): — *(use negative number if below grade)*
Measured Well Riser Stickup (feet): NM *(use negative number if below grade)*

Depth to Water (feet from Top of Well Riser): NM -or- DRY

Reported Total Depth of Well (feet below grade): ~~NM~~
Measured Total Depth of Well (feet below grade): NM
Well Obstructed: N/A YES NO If yes, list depth in feet from Top of Well Riser: _____
Well Bottom: N/A SOFT *(contains sediment)* FIRM *(no sediment)*

Recommendations

Repair Concrete/Surface Completion: (YES) NO If yes, list date performed: 4/6/23
Re-Survey Well: YES (NO) If yes, list date performed: _____
Remove Sediment, Redevelop & Re-Measure Depth: YES (NO) If yes, list date performed: _____
Replace Well Cap: YES (NO) If yes, list date performed: _____
Replace Bolts: (YES) NO If yes, list date performed: 4/6/23
Replace Lock: YES (NO) If yes, list date performed: _____
Other/Miscellaneous Observations:

Well located during surveying. Not gauged. Roadbox detached & full of sediment

Inspector(s): S. PABST

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*Roadbox & cement pad replaced on 4/6/23

WELL INTEGRITY ASSESSMENT FORM

Site Name: Canastota MGP
Well I.D.: MW-05
Date: 1/18/23

(For each item, circle the appropriate response or fill in the blank)

Well I.D. Clearly Marked: YES (NO)
Well Completion: (FLUSH MOUNT) ABOVE-GRADE STANDPIPE
Lockable Cover: (YES) NO DAMAGED *(Describe below)*
Lock Present: YES (NO) ADDED Key Brand/Number: _____
Measuring Point Marked: YES (NO) ADDED
Well Riser Diameter (inches): 2"
Well Riser Type: (PVC) Stainless Steel Other *(Describe)* _____

Surface Condition

Cement Intact: (YES) NO *(Describe below)*
Curb Box/Well Cover Present: (YES) NO DAMAGED *(Describe below)*
All Bolts Present: (YES) NO *(Describe below)* NOT APPLICABLE
Ground Surface Slopes Away from Well: YES (NO) *(Describe below)*

Well Condition

Well Cap: PVC Slip Cap (Pressure-fit Cap) None
Well Vent: Slot Cut in Riser Vent Hole in Cap None (Not Applicable *(Flush Mount Well)*)
Reported Well Riser Stickup (feet): — *(use negative number if below grade)*
Measured Well Riser Stickup (feet): -3" *(use negative number if below grade)*

Depth to Water (feet from Top of Well Riser): 2.81' -or- DRY

Reported Total Depth of Well (feet below grade): —
Measured Total Depth of Well (feet below grade): 8.09'
Well Obstructed: YES (NO) If yes, list depth in feet from Top of Well Riser: _____
Well Bottom: SOFT *(contains sediment)* (FIRM *(no sediment)*)

Recommendations

Repair Concrete/Surface Completion:	YES	NO	If yes, list date performed: _____
Re-Survey Well:	YES	NO	If yes, list date performed: _____
Remove Sediment, Redevelop & Re-Measure Depth:	YES	NO	If yes, list date performed: _____
Replace Well Cap:	YES	NO	If yes, list date performed: _____
Replace Bolts:	(YES)	NO	If yes, list date performed: 4/06/23
Replace Lock:	YES	(NO)	If yes, list date performed: _____

Other/Miscellaneous Observations:
One thread broken, 2/3 bolts present
water pooling over well, one bolt not threaded.

Inspector(s): B. Pabst

* Replaced 2 bolts on 4/6/23

WELL INTEGRITY ASSESSMENT FORM

Site Name: Canastota MGP
Well I.D.: MW-06
Date: 1/18/23

(For each item, circle the appropriate response or fill in the blank)

Well I.D. Clearly Marked: YES (NO)
Well Completion: (FLUSH MOUNT) ABOVE-GRADE STANDPIPE
Lockable Cover: (YES) NO DAMAGED *(Describe below)*
Lock Present: (YES) NO ADDED Key Brand/Number: Master
Measuring Point Marked: (YES) NO ADDED
Well Riser Diameter (inches): 2"
Well Riser Type: (PVC) Stainless Steel Other *(Describe)* _____

Surface Condition

Cement Intact: (YES) NO *(Describe below)*
Curb Box/Well Cover Present: (YES) NO DAMAGED *(Describe below)*
All Bolts Present: (YES) NO *(Describe below)* NOT APPLICABLE
Ground Surface Slopes
Away from Well YES (NO) *(Describe below)* flat

Well Condition

Well Cap: PVC Slip Cap (Pressure-fit Cap) None
Well Vent: Slot Cut in Riser Vent Hole in Cap None (Not Applicable *(Flush Mount Well)*)
Reported Well Riser Stickup (feet): _____ *(use negative number if below grade)*
Measured Well Riser Stickup (feet): -4.5 inches *(use negative number if below grade)*

Depth to Water (feet from Top of Well Riser): 1.94 -or- DRY

Reported Total Depth of Well (feet below grade): _____
Measured Total Depth of Well (feet below grade): 13.04
Well Obstructed: YES (NO) If yes, list depth in feet from Top of Well Riser: _____
Well Bottom: (SOFT *(contains sediment)*) FIRM *(no sediment)*

Recommendations

Repair Concrete/Surface Completion: YES (NO) If yes, list date performed: _____
Re-Survey Well: YES (NO) If yes, list date performed: _____
Remove Sediment, Redevelop & Re-Measure Depth: YES (NO) If yes, list date performed: _____
Replace Well Cap: YES (NO) If yes, list date performed: _____
Replace Bolts: YES (NO) If yes, list date performed: _____
Replace Lock: YES (NO) If yes, list date performed: _____
Other/Miscellaneous Observations:

Inspector(s): Briana Pabst, Jordan DesRosso

WELL INTEGRITY ASSESSMENT FORM

Site Name: Canisota
Well I.D.: MW-07
Date: 1-18-23

(For each item, circle the appropriate response or fill in the blank)

Well I.D. Clearly Marked: YES (NO)
Well Completion: FLUSH MOUNT (ABOVE-GRADE STANDPIPE)
Lockable Cover: (YES) NO DAMAGED *(Describe below)*
Lock Present: YES (NO) ADDED Key Brand/Number: ~~MASTER LOCK~~ 6# 2537
Measuring Point Marked: YES (NO) ADDED
Well Riser Diameter (inches): 2"
Well Riser Type: (PVC) Stainless Steel Other *(Describe)* _____

Surface Condition

Cement Intact: YES NO *(Describe below)* N/A
Curb Box/Well Cover Present: (YES) NO DAMAGED *(Describe below)*
All Bolts Present: YES NO *(Describe below)* (NOT APPLICABLE)
Ground Surface Slopes
Away from Well YES NO *(Describe below)* Flat

Well Condition

Well Cap: PVC Slip Cap (Pressure-fit Cap) None
Well Vent: Slot Cut in Riser Vent Hole in Cap (None) Not Applicable *(Flush Mount Well)*
Reported Well Riser Stickup (feet): _____ *(use negative number if below grade)*
Measured Well Riser Stickup (feet): 21" casing 18" to PVC *(use negative number if below grade)*
Depth to Water (feet from Top of Well Riser): 1.37' -or- DRY

Reported Total Depth of Well (feet below grade): _____
Measured Total Depth of Well (feet below grade): 14.07
Well Obstructed: YES (NO) If yes, list depth in feet from Top of Well Riser: _____
Well Bottom: (SOFT) *(contains sediment)* FIRM *(no sediment)*

Recommendations

Repair Concrete/Surface Completion: YES (NO) If yes, list date performed: _____
Re-Survey Well: YES (NO) If yes, list date performed: _____
Remove Sediment, Redevelop & Re-Measure Depth: YES (NO) If yes, list date performed: _____
Replace Well Cap: YES (NO) If yes, list date performed: _____
Replace Bolts: YES (NO) If yes, list date performed: _____
Replace Lock: (YES) NO If yes, list date performed: 4/6/23
Other/Miscellaneous Observations:
*Replaced lock on 4/6/23

Inspector(s): B. Pabst.

WELL INTEGRITY ASSESSMENT FORM

Site Name: Canastota
Well I.D.: MW-08
Date: 3/24/23

(For each item, circle the appropriate response or fill in the blank)

Well I.D. Clearly Marked: YES (NO)
Well Completion: (FLUSH MOUNT) ABOVE-GRADE STANDPIPE
Lockable Cover: (YES) NO DAMAGED *(Describe below)*
Lock Present: YES NO ADDED Key Brand/Number: _____
Measuring Point Marked: YES (NO) ADDED
Well Riser Diameter (inches): 2"
Well Riser Type: (PVC) Stainless Steel Other *(Describe)* _____

Surface Condition

Cement Intact: (YES) NO *(Describe below)*
Curb Box/Well Cover Present: (YES) NO DAMAGED *(Describe below)*
All Bolts Present: (YES) NO *(Describe below)* NOT APPLICABLE
Ground Surface Slopes
Away from Well YES (NO) *(Describe below)*

Well Condition

Well Cap: PVC Slip Cap (Pressure-fit Cap) None
Well Vent: Slot Cut in Riser Vent Hole in Cap None (Not Applicable *(Flush Mount Well)*
Reported Well Riser Stickup (feet): — *(use negative number if below grade)*
Measured Well Riser Stickup (feet): NM *(use negative number if below grade)*

Depth to Water (feet from Top of Well Riser): NM -or- DRY

Reported Total Depth of Well (feet below grade): —
Measured Total Depth of Well (feet below grade): NM
Well Obstructed: N/A YES NO If yes, list depth in feet from Top of Well Riser: _____
Well Bottom: N/A SOFT *(contains sediment)* FIRM *(no sediment)*

Recommendations

Repair Concrete/Surface Completion: YES (NO) If yes, list date performed: _____
Re-Survey Well: YES (NO) If yes, list date performed: _____
Remove Sediment, Redevelop & Re-Measure Depth: YES (NO) If yes, list date performed: _____
Replace Well Cap: YES (NO) If yes, list date performed: _____
Replace Bolts: YES (NO) If yes, list date performed: _____
Replace Lock: YES (NO) If yes, list date performed: _____

Other/Miscellaneous Observations:
well located during survey. NOT gauged at the time
Cover with single bolt (15/16")

Inspector(s): B. Pabst.

WELL INTEGRITY ASSESSMENT FORM

Site Name: Carnahan MRP
Well I.D.: MW-09
Date: 1/18/23

(For each item, circle the appropriate response or fill in the blank)

Well I.D. Clearly Marked: YES NO

Well Completion: FLUSH MOUNT ABOVE-GRADE STANDPIPE

Lockable Cover: YES NO DAMAGED *(Describe below)*

Lock Present: ~~YES~~ NO ADDED Key Brand/Number: _____

Measuring Point Marked: YES NO ADDED

Well Riser Diameter (inches): 2"

Well Riser Type: PVC Stainless Steel Other *(Describe)* _____

Surface Condition

Cement Intact: YES NO *(Describe below)*

Curb Box/Well Cover Present: YES NO DAMAGED *(Describe below)*

All Bolts Present: YES NO *(Describe below)* NOT APPLICABLE

Ground Surface Slopes Away from Well: YES NO *(Describe below)* flat

Well Condition

Well Cap: PVC Slip Cap Pressure-fit Cap None

Well Vent: Slot Cut in Riser Vent Hole in Cap None Not Applicable *(Flush Mount Well)*

Reported Well Riser Stickup (feet): ~~4.30~~ — *(use negative number if below grade)*

Measured Well Riser Stickup (feet): -0.27ft *(use negative number if below grade)*

Depth to Water (feet from Top of Well Riser): 2.17 ft. -or- DRY

Reported Total Depth of Well (feet below grade): ~~9.45~~ — 9.40 1/19

Measured Total Depth of Well (feet below grade): ~~9.45~~ 9.40

Well Obstructed: YES NO If yes, list depth ~~in feet~~ from Top of Well Riser: _____

Well Bottom: SOFT *(contains sediment)* FIRM *(no sediment)*

Recommendations

Repair Concrete/Surface Completion: YES NO If yes, list date performed: _____

Re-Survey Well: YES NO If yes, list date performed: _____

Remove Sediment, Redevelop & Re-Measure Depth: YES NO If yes, list date performed: _____

Replace Well Cap: YES NO If yes, list date performed: _____

Replace Bolts: YES NO If yes, list date performed: _____

Replace Lock: YES NO If yes, list date performed: _____

Other/Miscellaneous Observations:

_____

_____

Inspector(s): J. DES ROSIERS

WELL INTEGRITY ASSESSMENT FORM

Site Name: Crosby MGP
Well I.D.: MW-10
Date: 1/18/23

(For each item, circle the appropriate response or fill in the blank)

Well I.D. Clearly Marked: YES NO
Well Completion: FLUSH MOUNT ABOVE-GRADE STANDPIPE
Lockable Cover: YES NO DAMAGED *(Describe below)*
Lock Present: YES NO ADDED Key Brand/Number: _____
Measuring Point Marked: YES NO ADDED
Well Riser Diameter (inches): 2"
Well Riser Type: PVC Stainless Steel Other *(Describe)* _____

Surface Condition

Cement Intact: YES NO *(Describe below)* - cement still appears holding roadbox in place but is chipped in multiple places
Curb Box/Well Cover Present: YES NO DAMAGED *(Describe below)*
All Bolts Present: YES NO *(Describe below)* NOT APPLICABLE
Ground Surface Slopes
Away from Well YES NO *(Describe below)* flat

Well Condition

Well Cap: PVC Slip Cap Pressure-fit Cap None
Well Vent: Slot Cut in Riser Vent Hole in Cap None Not Applicable *(Flush Mount Well)*
Reported Well Riser Stickup (feet): — *(use negative number if below grade)*
Measured Well Riser Stickup (feet): -0.21 *(use negative number if below grade)*

Depth to Water (feet from Top of Well Riser): 3.63 -or- DRY

Reported Total Depth of Well (feet below grade): —
Measured Total Depth of Well (feet below grade): 14.61
Well Obstructed: YES NO If yes, list depth in feet from Top of Well Riser: _____
Well Bottom: SOFT *(contains sediment)* FIRM *(no sediment)*

Recommendations

BS

Repair Concrete/Surface Completion: YES NO If yes, list date performed: _____
Re-Survey Well: YES NO If yes, list date performed: _____
Remove Sediment, Redevelop & Re-Measure Depth: YES NO If yes, list date performed: _____
Replace Well Cap: YES NO If yes, list date performed: _____
Replace Bolts: YES NO If yes, list date performed: _____
Replace Lock: YES NO If yes, list date performed: _____
Other/Miscellaneous Observations:
SNAIL on bottom of well (~1.5')

Inspector(s): [signature]

WELL INTEGRITY ASSESSMENT FORM

Site Name: Cargotec
Well I.D.: MW-710
Date: 1-18-23

(For each item, circle the appropriate response or fill in the blank)

Well I.D. Clearly Marked: YES (NO)
Well Completion: FLUSH MOUNT (ABOVE-GRADE STANDPIPE)
Lockable Cover: (YES) NO DAMAGED *(Describe below)*
Lock Present: (YES) NO ADDED Key Brand/Number: Master lock 2537
Measuring Point Marked: (YES) NO ADDED
Well Riser Diameter (inches): 2"
Well Riser Type: (PVC) Stainless Steel Other *(Describe)* _____

Surface Condition

Cement Intact: YES NO *(Describe below)* N/A
Curb Box/Well Cover Present: (YES) NO DAMAGED *(Describe below)*
All Bolts Present: YES NO *(Describe below)* (NOT APPLICABLE)
Ground Surface Slopes Away from Well: (YES) NO *(Describe below)*

Well Condition

Well Cap: PVC Slip Cap (Pressure-fit Cap) None
Well Vent: Slot Cut in Riser Vent Hole in Cap (None) Not Applicable *(Flush Mount Well)*
Reported Well Riser Stickup (feet): — *(use negative number if below grade)*
Measured Well Riser Stickup (feet): 32" to casing, 29½" to PVC *(use negative number if below grade)*
Depth to Water (feet from Top of Well Riser): 2.82' -or- DRY
Reported Total Depth of Well (feet below grade): —
Measured Total Depth of Well (feet below grade): ~~9.90~~ 22.49 on 1/19/23
Well Obstructed: YES (NO) If yes, list depth in feet from Top of Well Riser: _____
Well Bottom: (SOFT *(contains sediment)* FIRM *(no sediment)*

Recommendations

Repair Concrete/Surface Completion: YES (NO) If yes, list date performed: _____
Re-Survey Well: YES (NO) If yes, list date performed: _____
Remove Sediment, Redevelop & Re-Measure Depth: YES (NO) If yes, list date performed: _____
Replace Well Cap: YES (NO) If yes, list date performed: _____
Replace Bolts: YES (NO) If yes, list date performed: _____
Replace Lock: YES (NO) If yes, list date performed: _____
Other/Miscellaneous Observations:
Tubing in well.

Inspector(s): B. Pabst

WELL INTEGRITY ASSESSMENT FORM

Site Name: Carnstock MGP
Well I.D.: MW-12D
Date: 1-18-23

(For each item, circle the appropriate response or fill in the blank)

Well I.D. Clearly Marked: YES (NO)
Well Completion: FLUSH MOUNT (ABOVE-GRADE STANDPIPE)
Lockable Cover: (YES) NO DAMAGED *(Describe below)*
Lock Present: YES (NO) ADDED Key Brand/Number: cut because didn't have key
Measuring Point Marked: YES (NO) ADDED
Well Riser Diameter (inches): 2"
Well Riser Type: (PVC) Stainless Steel Other *(Describe)* _____

Surface Condition

Cement Intact: YES NO *(Describe below)* N/A
Curb Box/Well Cover Present: (YES) NO DAMAGED *(Describe below)*
All Bolts Present: YES NO *(Describe below)* (NOT APPLICABLE)
Ground Surface Slopes Away from Well: YES (NO) *(Describe below)* water pooling

Well Condition

Well Cap: PVC Slip Cap (Pressure-fit Cap) None
Well Vent: Slot Cut in Riser Vent Hole in Cap (None) Not Applicable *(Flush Mount Well)*
Reported Well Riser Stickup (feet): — *(use negative number if below grade)*
Measured Well Riser Stickup (feet): 3½" casing 3½" PVC *(use negative number if below grade)*
Depth to Water (feet from Top of Well Riser): 2.66' -or- DRY
Reported Total Depth of Well (feet below grade): —
Measured Total Depth of Well (feet below grade): 31.95'
Well Obstructed: YES (NO) If yes, list depth in feet from Top of Well Riser: _____
Well Bottom: (SOFT *(contains sediment)* FIRM *(no sediment)*

Recommendations

Repair Concrete/Surface Completion: YES (NO) If yes, list date performed: _____
Re-Survey Well: YES (NO) If yes, list date performed: _____
Remove Sediment, Redevelop & Re-Measure Depth: YES (NO) If yes, list date performed: _____
Replace Well Cap: YES (NO) If yes, list date performed: _____
Replace Bolts: YES (NO) If yes, list date performed: _____
Replace Lock: (YES) NO If yes, list date performed: 3/24/23
Other/Miscellaneous Observations:

* Replaced ~~bolt~~ on 3/24/23

should say "lock"
-BP

Inspector(s): B. Pabst

WELL INTEGRITY ASSESSMENT FORM

Site Name: Cinnastotg
Well I.D.: MW-13
Date: 1-18-23

(For each item, circle the appropriate response or fill in the blank)

Well I.D. Clearly Marked: YES (NO)
Well Completion: (FLUSH MOUNT) ABOVE-GRADE STANDPIPE
Lockable Cover: (YES) NO (DAMAGED) *(Describe below)*
Lock Present: YES (NO) ADDED Key Brand/Number: _____
Measuring Point Marked: YES (NO) ADDED
Well Riser Diameter (inches): 2"
Well Riser Type: (PVC) Stainless Steel Other *(Describe)* _____

Surface Condition

Cement Intact: YES (NO) *(Describe below)* Broken
Curb Box/Well Cover Present: (YES) NO (DAMAGED) *(Describe below)* detached.
All Bolts Present: (YES) NO *(Describe below)* NOT APPLICABLE
Ground Surface Slopes
Away from Well YES (NO) *(Describe below)* Full of water

Well Condition

Well Cap: PVC Slip Cap (Pressure-fit Cap) None
Well Vent: Slot Cut in Riser Vent Hole in Cap (None) Not Applicable *(Flush Mount Well)*
Reported Well Riser Stickup (feet): _____ *(use negative number if below grade)*
Measured Well Riser Stickup (feet): ~~unknown~~ ~3½" *(use negative number if below grade)*
Depth to Water (feet from Top of Well Riser): 5.65' -or- DRY
Reported Total Depth of Well (feet below grade): —
Measured Total Depth of Well (feet below grade): 9.89'
Well Obstructed: YES (NO) If yes, list depth in feet from Top of Well Riser: _____
Well Bottom: SOFT *(contains sediment)* FIRM *(no sediment)*

Recommendations

Repair Concrete/Surface Completion: (YES) NO If yes, list date performed: 4/6/23
Re-Survey Well: YES (NO) If yes, list date performed: _____
Remove Sediment, Redevelop & Re-Measure Depth: YES (NO) If yes, list date performed: _____
Replace Well Cap: YES (NO) If yes, list date performed: _____
Replace Bolts: (YES) NO If yes, list date performed: 4/6/23
Replace Lock: YES (NO) If yes, list date performed: _____

Other/Miscellaneous Observations: Roadbox ring Roadbox damaged, casing broke off when taking off cover well completely full of mud/~~backfill~~ sand. Had to dig to find ring. Concrete broken. Used Peri pump to remove water puddled on top of well. Completely submerged. Inspector(s): B. Pabst

* Replaced roadbox on 4/6/23 & Repaired concrete pad
New Roadbox - heavy duty, single bolt.

WELL INTEGRITY ASSESSMENT FORM

Site Name: Carnation MGP
Well I.D.: MW-101
Date: 1-18-23

(For each item, circle the appropriate response or fill in the blank)

Well I.D. Clearly Marked: YES (NO)
Well Completion: FLUSH MOUNT (ABOVE-GRADE STANDPIPE)
Lockable Cover: (YES) NO DAMAGED *(Describe below)*
Lock Present: (YES) NO ADDED Key Brand/Number: Master lock 2537
Measuring Point Marked: YES (NO) ADDED
Well Riser Diameter (inches): 2"
Well Riser Type: (PVC) Stainless Steel Other *(Describe)* _____

Surface Condition

Cement Intact: (YES) NO *(Describe below)*
Curb Box/Well Cover Present: (YES) NO DAMAGED *(Describe below)*
All Bolts Present: YES NO *(Describe below)* (NOT APPLICABLE)
Ground Surface Slopes
Away from Well YES (NO) *(Describe below)* some water pooling

Well Condition

Well Cap: PVC Slip Cap (Pressure-fit Cap) None
Well Vent: Slot Cut in Riser Vent Hole in Cap (None) Not Applicable *(Flush Mount Well)*
Reported Well Riser Stickup (feet): — *(use negative number if below grade)*
Measured Well Riser Stickup (feet): 24" TOC 26½" to outer casing *(use negative number if below grade)*
Depth to Water (feet from Top of Well Riser): 2.45' -or- DRY

Reported Total Depth of Well (feet below grade): —
Measured Total Depth of Well (feet below grade): 13.56'
Well Obstructed: YES (NO) If yes, list depth in feet from Top of Well Riser: _____
Well Bottom: (SOFT *(contains sediment)* FIRM *(no sediment)*

Recommendations

Repair Concrete/Surface Completion: YES (NO) If yes, list date performed: _____
Re-Survey Well: YES (NO) If yes, list date performed: _____
Remove Sediment, Redevelop & Re-Measure Depth: (YES) (NO) If yes, list date performed: _____
Replace Well Cap: YES (NO) If yes, list date performed: _____
Replace Bolts: YES (NO) If yes, list date performed: _____
Replace Lock: YES (NO) If yes, list date performed: _____
Other/Miscellaneous Observations:
Silt on bottom (~0.8')

Inspector(s): B. Pabst

WELL INTEGRITY ASSESSMENT FORM

Site Name: MW-102
Well I.D.: Carnstone MGP 2
Date: 1-19-23

(For each item, circle the appropriate response or fill in the blank)

Well I.D. Clearly Marked: YES (NO)
Well Completion: FLUSH MOUNT (ABOVE-GRADE STANDPIPE)
Lockable Cover: (YES) NO DAMAGED *(Describe below)*
Lock Present: (YES) NO ADDED Key Brand/Number: Masterlock 2537
Measuring Point Marked: YES (NO) ADDED
Well Riser Diameter (inches): 2"
Well Riser Type: (PVC) Stainless Steel Other *(Describe)* _____

Surface Condition

Cement Intact: (YES) NO *(Describe below)*
Curb Box/Well Cover Present: (YES) NO DAMAGED *(Describe below)*
All Bolts Present: YES NO *(Describe below)* (NOT APPLICABLE)
Ground Surface Slopes Away from Well: Flat YES NO *(Describe below)*

Well Condition

Well Cap: PVC Slip Cap (Pressure-fit Cap) None
Well Vent: Slot Cut in Riser Vent Hole in Cap (None) Not Applicable *(Flush Mount Well)*
Reported Well Riser Stickup (feet): — *(use negative number if below grade)*
Measured Well Riser Stickup (feet): 25" PVC / 28½" casing *(use negative number if below grade)*
Depth to Water (feet from Top of Well Riser): 2.39 -or- DRY
Reported Total Depth of Well (feet below grade): 13
Measured Total Depth of Well (feet below grade): 13.89'
Well Obstructed: YES (NO) If yes, list depth in feet from Top of Well Riser: _____
Well Bottom: (SOFT) *(contains sediment)* FIRM *(no sediment)*

Recommendations

Repair Concrete/Surface Completion: YES (NO) If yes, list date performed: _____
Re-Survey Well: YES (NO) If yes, list date performed: _____
Remove Sediment, Redevelop & Re-Measure Depth: (YES) NO If yes, list date performed: _____
Replace Well Cap: YES (NO) If yes, list date performed: _____
Replace Bolts: YES (NO) If yes, list date performed: _____
Replace Lock: YES (NO) If yes, list date performed: _____
Other/Miscellaneous Observations:
Sediment on bottom (~0.7')

Inspector(s): B. Rabjt

Attachment D

Data Usability Summary Reports

Site: Canastota, NY
Laboratory: Test America, Pittsburgh, PA
Report No.: 180-19788
Reviewer: Lisa McDonagh/GEI Consultants
Date: May 6, 2013

Samples Reviewed and Evaluation Summary

FIELD ID	LAB ID	FRACTIONS VALIDATED
MW-6	180-19788-01	BTEX, PAH
MW-7	180-19788-02	BTEX, PAH
MW-10	180-19788-03	BTEX, PAH
DUP	180-19788-04	BTEX, PAH
Trip Blank	180-19788-05	BTEX

Associated QC Samples(s): Field/Trip Blanks: Trip Blank
Field Duplicate pair: MW-10/DUP

The above-listed aqueous samples were collected on March 21, 2013 and were analyzed for volatile organic compounds (BTEXs) by SW-846 method 8260B and semivolatile organic compounds (PAHs) by SW-846 method 8270. The data validation was performed in accordance with the *USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review, EPA 540/R-99/008* (October 1999) and the *USEPA Region II Functional Guidelines for Evaluating Organic Analyses* (September 2006), modified as necessary to accommodate the non-CLP methodology used.

The organic data were evaluated based on the following parameters:

- Data Completeness
- Holding Times and Sample Preservation
- Gas Chromatography/Mass Spectrometry (GC/MS) Tunes
- Initial and Continuing Calibrations
- Blanks
- Surrogate Recoveries
- Matrix Spike/Matrix Spike Duplicate (MS/MSD) Results
- Laboratory Control Sample (LCS) Results
- Internal Standards
- Field Duplicate Results
- Quantitation Limits and Data Assessment
- Sample Quantitation and Compound Identification

All results are usable as reported or usable with minor qualification due to sample matrix or laboratory quality control outliers.

The validation findings were based on the following information.

Data Completeness

The data package was complete as defined under the requirements for the NYSDEC ASP category B laboratory deliverables.

Holding Times and Sample Preservation

All criteria were met in the BTEX and PAH analyses.

GC/MS Tunes

All criteria were met in the BTEX and PAH analyses.

Initial and Continuing Calibrations

All criteria were met in the BTEX and PAH analyses.

Blanks

Contamination was not detected in the method blank samples and associated trip blank sample.

Surrogate Recoveries

All criteria were met in the BTEX and PAH analyses.

MS/MSD Results

MS/MSD analyses were performed on designated sample MW-6. The percent recovery for BTEX compound benzene (134%) was above the recommended control limits in the MS/MSD. Estimate the positive result for benzene as (J), potential high bias. The percent recovery for PAH compound naphthalene (-136%) was outside the control limits due to the concentration of the sample exceeding the concentration of the spike by a factor greater than 4. Qualifications were not required.

Internal Standards

All criteria were met in the BTEX and PAH analyses.

LCS Results

All criteria were met in the BTEX and PAH analyses.

Field Duplicate Results

Samples MW-10 and DUP were submitted as a field duplicate pair with this sample group. The following table summarizes the BTEX and PAH RPDs of the detected compounds, all of which were acceptable, with the exception of anthracene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, chrysene, fluoranthene, phenanthrene and pyrene which were qualified as estimated (J).

Compound	MW-10 (ug/L)	DUP (ug/L)	RPD (%)
Benzene	680	700	3
Ethylbenzene	120	130	8
Toluene	130	150	14
Xylene(total)	200	230	1
Acenaphthene	55	55	0
Acenaphthylene	64	52	21
Anthracene	15	6.5	**79**
Benzo(a)anthracene	7.4	1.5	**132**
Benzo(a)pyrene	6.8	1.1	**144**
Benzo(b)fluoranthene	5.2	2.4U	**74**
Benzo(ghi)perylene	3.1	2.4U	25
Benzo(k)fluoranthene	1.9	2.4U	23
Chrysene	6.4	1.1	**141**
Fluoranthene	21	6.8	**102**
Fluorene	33	29	13
Indeno(123cd)pyrene	2.8	2.4U	15
2-methylnaphthalene	110	93	17
Naphthalene	1600	1700	6
Phenanthrene	71	35	**68**
Pyrene	27	7.2	**91**

NC – Not calculable
For aqueous results > 5xQL and RPDs>30%; estimate (J) results in the field duplicate pair.

For aqueous results < 5xQL; the sample and duplicate results must be within 1XQL.

Quantitation Limits and Data Assessment

Results were reported which were below the reporting limit (RL) in the BTEX and PAH analyses. These results were qualified as estimated (J) by the laboratory.

The following table lists the sample dilutions, which were performed, and the results reported.

Sample	BTEX Analysis Reported	PAH Analysis Reported
MW-6	1:200 dilution.	Report the result for naphthalene from the 1:10 dilution. Report all other results from the undiluted analysis.
MW-7	1:125 dilution.	Report the result for naphthalene from the 1:5 dilution. Report all other results from the undiluted analysis.
MW-10	1:50 dilution.	Report the result for naphthalene from the 1:10 dilution. Report all other results from the undiluted analysis.
DUP	1:50 dilution.	Report the result for naphthalene from the 1:10 dilution. Report all other results from the undiluted analysis.

NR- A dilution was not required

All other BTEX and PAH samples were analyzed at a 1:1 dilution.

Sample Quantitation and Compound Identification

Calculations were spot-checked; no discrepancies were noted in the BTEX and PAH analyses.

Site: Canastota Former MGP, Canastota, NY
Laboratory: Test America, Pittsburgh, PA
Report Nos.: 180-37050
Reviewer: Lorie MacKinnon/GEI Consultants
Date: November 17, 2014

Samples Reviewed and Evaluation Summary

FIELD ID	LAB ID	FRACTIONS VALIDATED
IDW Soil	180-37050-01	TCLP VOC and Metals, PCBs, CN, Ignitability
IDW Water	180-37050-02	VOC, PCBs, Metals
MW-6	180-37050-03	BTEX, PAH
MW-7	180-37050-04	BTEX, PAH
MW-10	180-37050-05	BTEX, PAH
MW-14	180-37050-06	BTEX, PAH
DUP09252014	180-37050-07	BTEX, PAH
Trip Blank	180-37050-08	BTEX

Associated QC Samples(s): Trip Blank: Trip Blank
Field Duplicate pair: MW-10/DUP09252014

The above-listed soil sample, aqueous samples, and trip blank sample were collected on September 25, 2014 and were analyzed for volatile organic compounds (VOCs) and TCLP VOCs by SW-846 method 8260C, polynuclear aromatic hydrocarbon (PAH) semivolatile organic compounds (SVOCs) by SW-846 method 8270D, polychlorinated biphenyls (PCBs) by SW-846 method 8082A, RCRA metals and TCLP metals by SW-846 methods 6010B/7470A/7471B, cyanide (CN) by SW-846 method 9014, and Ignitability by method 7.1.2.

The data validation was performed in accordance with the following USEPA Region 2 Documents: Standard Operating Procedure (SOP) HW-35 (Revision 2) *Semivolatile Data Validation* (March 2013), SOP HW-33 (Revision 3) *Low/Medium Volatile Data Validation* (March 2013), SOP HW-37 (Revision 3) *Polychlorinated Biphenyl Aroclor Data Validation*, (May 2013), and SOPs HW-2a and 2c (Revision 15), *SOP for the Evaluation of Metals and Cyanide for the Contract Laboratory Program* (December, 2012), modified for the SW-846 methodologies utilized.

The data were evaluated based on the following parameters:

- Data Completeness
- Holding Times and Sample Preservation
- Gas Chromatography/Mass Spectrometry (GC/MS) Tunes
- Initial and Continuing Calibrations

- Blanks
- Surrogate Recoveries
- Matrix Spike/Matrix Spike Duplicate (MS/MSD) Results
- Laboratory Control Sample (LCS) Results
- Internal Standards
- ICP Serial Dilution Results
- Field Duplicate Results
- Moisture Content
- Quantitation Limits and Data Assessment
- Sample Quantitation and Compound Identification

In general, the data appear usable as reported or usable with minor qualification due to sample matrix or laboratory quality control outliers. However, the following issue was noted which may have a significant impact on the data usability:

- The nondetect result for 1,4-dioxane in sample IDW Water was rejected (R) due to calibration non-conformances. This result should not be used for decision-making purposes.

The validation findings were based on the following information.

Data Completeness

The data package was found to be complete as received by the laboratory.

Holding Times and Sample Preservation

All criteria were met.

GC/MS Tunes

All criteria were met.

Initial and Continuing Calibrations

SVOCs, PCBs, and Inorganics

The recovery criteria were met in the initial and continuing calibrations.

Analytes were not detected above the reporting limits in the interference check sample, ICSA. Analytes were recovered within the control limits of 80-120 in the interference check sample, ICSAB.

VOC

Compounds that did not meet criteria in the VOC calibrations are summarized in the following table.

Compound	Standard ID/Associated Samples	QC Outlier	Calibration	Validation Qualifier
1,4-Dioxane	09/05/14 ICAL 10/08/14 11:56 CCAL: IDW Water	RF	Initial and Continuing	Reject (R) the nondetect result for 1,4-dioxane in sample IDW Water.
Acetone	10/08/14 11:56/IDW Water	XX	Continuing	Estimate (J/UJ) the positive and nondetect results for the affected compounds in sample IDW Water.
2-Butanone				
2-Hexanone				
Chlorodibromomethane				
Bromoform				

X = Initial calibration (IC) relative standard deviation (%RSD) > 20 for; estimate (J) positive and blank-qualified (UJ) results only.
XX = Continuing calibration (CC) percent difference (%D) > 20; estimate (J/UJ) positive and nondetect results.
XXX = Continuing calibration (CC) percent difference (%D) > 90; estimate (J) positive results and reject (R) nondetect results.
RF = Response factor (RRF) < 0.05; Estimate (J) positive results and reject (R) nondetect results.

The result for 1,4-dioxane in sample IDW Water is not usable for project objectives which may have a major impact on the data usability.

The direction of the bias cannot be determined for the remaining calibration nonconformances. The results can be used for project objectives as estimated (J/UJ) values and nondetects with estimated quantitation limits which may have a minor impact on the data usability.

Blanks

VOC, SVOCs, PCBs, and Cyanide

Contamination was not detected in the associated method blank samples.

Metals

Analytes were detected below the reporting limits (RLs) in the associated laboratory method and instrument blank samples. Analytes which were detected in the project samples at levels less than five times those in the blanks were qualified as nondetect (U).

Analyte	Blank ID/Associated Samples	Maximum Concentration	Action Level	Validation Actions
Barium	Leachate Blank: IDW Soil	0.0091 mg/L	0.0455 mg/L	No action required.
Cadmium		0.0033 mg/L	0.0165 mg/L	(U) at RL IDW Soil
Barium	Laboratory Blank: IDW Water	0.22 ug/L	1.1 ug/L	No actions required.
Selenium		3.54 ug/L	17.7 ug/L	(U) at RL IDW Water

Blank Actions

If the sample result is < RL and < action level; report the result as nondetect (U) at the RL.
If the sample result is ≥ RL and < action level; report the sample result as nondetect (U) at the reported value.
If the sample result is > RL and > action level; validation action is not required.

Surrogate Recoveries

All criteria were met.

MS/MSD Results

MS/MSD analyses were performed on sample MW-14 for VOCs and PAHs and sample IDW Soil for metals. All criteria were met.

Duplicate Results

In lieu of a duplicate analysis, MSDs were performed. All precision criteria were met.

LCS Results

All criteria were met.

Internal Standards

All criteria were met.

ICP Serial Dilution Results

A serial dilution analysis was performed on sample IDW Soil. All criteria were met.

Field Duplicate Results

Samples MW10 and DUP09252014 were submitted as the field duplicate pair with this sample set. The following table summarizes the RPDs of the detected analytes in the field duplicate pair which were within the acceptance criteria, with the exception of ethylbenzene, xylenes,

acenaphthene, acenaphthylene, anthracene, benzo(a)anthracene, benzo(a)pyrene, benzo(ghi)perylene, chrysene, fluoranthene, fluorene, indeno(123-cd)pyrene, 2-methylnaphthalene, phenanthrene, and pyrene. The positive results for ethylbenzene, xylenes, acenaphthene, acenaphthylene, anthracene, benzo(a)anthracene, benzo(a)pyrene, benzo(ghi)perylene, chrysene, fluoranthene, fluorene, indeno(123-cd)pyrene, 2-methylnaphthalene, phenanthrene, and pyrene in samples MW10 and DUP09252014 were estimated (J). The direction of the bias cannot be determined from this nonconformance.

Analyte	MW10 (ug/L)	DUP09252014 (ug/L)	RPD (%)
Benzene	810	1000	21.0
Ethylbenzene	92	140	**41.4**
Toluene	160	200	22.2
Xylenes, Total	150	230	**42.1**
Acenaphthene	65	93	**35.4**
Acenaphthylene	38	65	**52.4**
Anthracene	30	52	**53.7**
Benzo(a)anthracene	17 J	34	**66.7**
Benzo(a)pyrene	13 J	27	**70.0**
Benzo(b)fluoranthene	19 U	25	NC, Within the QL
Benzo(ghi)perylene	7.7 J	16	**70.0**
Benzo(k)fluoranthene	19 U	7.3	NC, Within the QL
Chrysene	20	30	**40.0**
Dibenz(ah)anthracene	19 U	3.2	NC, Within the QL
Fluoranthene	52	91	**54.6**
Fluorene	43	69	**46.4**
Indeno(123-cd)pyrene	6.2 J	11	**55.8**
2-Methylnaphthalane	74	110	**39.1**
Naphthalene	1200	1400	15.4
Phenanthrene	140	240	**52.6**
Pyrene	59	94	**45.8**

NC – Not calculable
Criteria: When both results are ≥5x the QL, RPDs must be <30%.
When results are < 5x the QL, the absolute difference between the original and field duplicate results must be < QL

Moisture Content

All criteria were met.

Quantitation Limits and Data Assessment

Results were reported which were below the reporting limit (RL) and above the method detection limit (MDL). These results were qualified as estimated (J) by the laboratory.

The following table lists the sample dilutions which were performed and the results to be reported.

Sample	VOC Analysis Reported	SVOC Analysis Reported
MW-7	Report the result for benzene from the 400-fold dilution. Report remaining compounds from the 125-fold dilution analysis.	A 5-fold dilution was performed for this sample.
MW-10	A 50-fold dilution was performed for this sample.	A 10-fold dilution was performed for this sample.
DUP09252014	A 50-fold dilution was performed for this sample.	Report the result for naphthalene from the 5-fold dilution. Report remaining compounds from the undiluted analysis.

Sample Quantitation and Compound Identification

Calculations were spot-checked; no discrepancies were noted.

DATA VALIDATION QUALIFIERS

U - The analyte was analyzed for, but due to blank contamination was flagged as nondetect (U). The result is usable as a nondetect.

J - Data are flagged (J) when a QC analysis fails outside the primary acceptance limits. The qualified "J" data are not excluded from further review or consideration. However, only one flag (J) is applied to a sample result, even though several associated QC analyses may fail. The 'J' data may be biased high or low or the direction of the bias may be indeterminable.

UJ - The analyte was not detected above the reported sample quantitation limit. Data are flagged (UJ) when a QC analysis fails outside the primary acceptance limits. The qualified "UJ" data are not excluded from further review or consideration. However, only one flag is applied to a sample result, even though several associated QC analyses may fail. The 'UJ' data may be biased low.

JN - The analysis indicates the presence of a compound that has been "tentatively identified" (N) and the associated numerical value represents its approximate (J) concentration.

R - Data rejected (R) on the basis of an unacceptable QC analysis should be excluded from further review or consideration. Data are rejected when associated QC analysis results exceed the expanded control limits of the QC criteria. The rejected data are known to contain significant errors based on documented information. The data user must not use the rejected data to make environmental decisions. The presence or absence of the analyte cannot be verified.

Site: Canastota MGP
Laboratory: Eurofins, Buffalo, NY
Report Number: 480-201373-1
Reviewer: Elissa McDonagh/GEI Consultants
Date: September 30, 2022

Samples Reviewed and Evaluation Summary

FIELD ID	LAB ID	FRACTIONS VALIDATED
TP103 (7)	480-201373-1	SVOC
TP107 (5)	480-201373-2	SVOC
TP105 (4.5)	480-201373-3	SVOC
TP101 (3)	480-201373-4	SVOC
TP102 (5)	480-201373-5	SVOC
TP104 (5.5)	480-201373-6	SVOC

The above-listed soil samples were collected on September 6 and 7, 2022 and were analyzed for semivolatile organic compounds (SVOCs) by SW-846 method 8270D. The data validation was performed in accordance with the USEPA Region 2 Standard Operating Procedure (SOP) HW-35A (Revision 1) *Semivolatile Data Validation* (September 2016), as well as by the method referenced by the data package and professional and technical judgment.

The data were evaluated based on the following parameters:

- Data Completeness
- Holding Times and Sample Preservation
- Gas Chromatography/Mass Spectrometry (GC/MS) Tunes
- Initial and Continuing Calibrations
- Blanks
- Surrogate Recoveries
- Matrix Spike/Matrix Spike Duplicate (MS/MSD) Results
- Internal Standard Results
- Laboratory Control Sample (LCS)/LCS Duplicate (LCSD) Results
- Field Duplicate Results
- Quantitation Limits
- Sample Quantitation and Compound Identification

All results appear usable as reported or usable with minor qualification due to initial calibration nonconformances and uncertainty for levels below the reporting limit. These results were considered valid; even though some were qualified as discussed below.

The validation findings were based on the following information.

Data Completeness

The data package was complete as received by the laboratory.

Holding Times and Sample Preservation

All criteria were met.

GC/MS Tunes

All criteria were met.

Initial and Continuing Calibrations

The correlation coefficient criteria of greater than 0.990 was not met for 2,4-dinitrophenol (0.968) in the initial calibration associated with samples TP103 (7), TP107 (5), TP105 (4.5), TP101 (3), TP102 (5), and TP104 (5.5). The nondetect results for 2,4-dinitrophenol in these samples were qualified as estimated (UJ).

All continuing calibration criteria were met.

Blanks

Contamination was not detected in the associated method blank samples.

Surrogate Recoveries

All surrogate recovery criteria were met.

MS/MSD Results

Project MS/MSDs were not associated with the SVOC analyses. Validation action was not taken on this basis.

Internal Standard Results

All criteria were met.

LCS/LCSD Results

All LCS recovery criteria were met

Field Duplicate Results

Field duplicate samples were not associated with this sample set.

Quantitation Limits

Results were reported which were below the reporting limit (RL)/quantitation limit (QL) and above the method detection limit (MDL). These results were qualified as estimated (J) by the laboratory.

The following table lists the sample dilutions which were performed.

Sample	Analysis	Dilution Reported
TP103 (7)	SVOC	The sample was analyzed at a 5-fold dilution due to color and sample appearance. Reporting limits (RLs) were elevated in this sample.
TP107 (5)	SVOC	The sample was analyzed at a 5-fold dilution due to color and sample appearance. Reporting limits (RLs) were elevated in this sample.
TP105 (4.5)	SVOC	The sample was analyzed at a 5-fold dilution due to color and sample appearance. Reporting limits (RLs) were elevated in this sample.
TP101 (3)	SVOC	The sample was analyzed at a 10-fold dilution due to color and sample appearance and high target compound levels. Reporting limits (RLs) were elevated in this sample.
TP102 (5)	SVOC	The sample was analyzed at a 10-fold dilution due to color and sample appearance and high target compound levels. Reporting limits (RLs) were elevated in this sample.
TP104 (5.5)	SVOC	The sample was analyzed at a 20-fold dilution due to the viscosity of the sample and high target compound levels. Reporting limits (RLs) were elevated in this sample.

Sample Quantitation and Compound Identification

Compound identification criteria were met. Calculations were spot-checked; no discrepancies were noted.

DATA VALIDATION QUALIFIERS

U - The analyte was analyzed for, but due to blank contamination was flagged as nondetect (U). The result is usable as a nondetect.

J - Data are flagged (J) when a QC analysis fails outside the primary acceptance limits. The qualified "J" data are not excluded from further review or consideration. However, only one flag (J) is applied to a sample result, even though several associated QC analyses may fail. The 'J' data may be biased high or low or the direction of the bias may be indeterminable.

UJ - The analyte was not detected above the reported sample quantitation limit. Data are flagged (UJ) when a QC analysis fails outside the primary acceptance limits. The qualified "UJ" data are not excluded from further review or consideration. However, only one flag is applied to a sample result, even though several associated QC analyses may fail. The 'UJ' data may be biased low.

JN - The analysis indicates the presence of a compound that has been "tentatively identified" (N) and the associated numerical value represents its approximate (J) concentration.

R - Data rejected (R) on the basis of an unacceptable QC analysis should be excluded from further review or consideration. Data are rejected when associated QC analysis results exceed the expanded control limits of the QC criteria. The rejected data are known to contain significant errors based on documented information. The data user must not use the rejected data to make environmental decisions. The presence or absence of the analyte cannot be verified.

Site: Canastota MGP
Laboratory: Eurofins, Buffalo, NY
Report Numbers: 480-201733-1, 480-201957-1, 480-202127-1
Reviewer: Elissa McDonagh/GEI Consultants
Date: November 2, 2022

Samples Reviewed and Evaluation Summary

FIELD ID	LAB ID	FRACTIONS VALIDATED
SB115 (4-6)	480-201733-1	SVOC
SB105 (11-12'8)	480-201733-2	SVOC
SB105 (13-14'6)	480-201733-3	SVOC
SB101 (5-5'6)	480-201733-4	SVOC
SB103 (12-13)	480-201733-5	SVOC
SB103 (14-15'3)	480-201733-6	SVOC
SB117 (8-10)	480-201957-1	SVOC
SB118 (6-8)	480-201957-2	SVOC
SB104 (6-8)	480-201957-3	SVOC
SB107 (6-8)	480-202127-1	SVOC
SB114 (8-9)	480-202127-2	SVOC
SB108 (12-13)	480-202127-3	SVOC
SB106 (6-6'11)	480-202127-4	SVOC

The above-listed aqueous samples were collected on September 15, 16, 19, 20, 21, 26 and 27, 2022 and were analyzed for semivolatile organic compounds (SVOCs) by SW-846 method 8270D. The data validation was performed in accordance with the following USEPA Region 2 Documents: Standard Operating Procedure (SOP) HW-35A (Revision 1) *Semivolatile Data Validation* (September 2016), as well as by the method referenced by the data package and professional and technical judgment.

The data were evaluated based on the following parameters:

- Data Completeness
- Holding Times and Sample Preservation
- Gas Chromatography/Mass Spectrometry (GC/MS) Tunes
- Initial and Continuing Calibrations
- Blanks
- Surrogate Recoveries
- Matrix Spike/Matrix Spike Duplicate (MS/MSD) Results
- Internal Standard Results
- Laboratory Control Sample (LCS)/LCS Duplicate (LCSD) Results
- Field Duplicate Results
- Quantitation Limits
- Sample Quantitation and Compound Identification

The following issue was noted which may have a significant impact on the data usability:

- The nondetect result for atrazine in sample SB105 (13-14'6) was rejected (R) due to matrix spike recovery less than 10. The result should not be used for decision-making purposes.

In general, all other results appear usable as reported or usable with minor qualification due to calibration nonconformances, blank contamination, and uncertainty for levels below the reporting limit. These results were considered valid; even though some were qualified as discussed below.

The validation findings were based on the following information.

Data Completeness

The data package was complete as received by the laboratory.

Holding Times and Sample Preservation

All criteria were met.

GC/MS Tunes

All criteria were met.

Initial and Continuing Calibrations

The lowest calibration point reported for 2,4-dinitrophenol in the initial calibration curves was 40 ppm and therefore the reporting limit for 2,4-dinitrophenol in all samples was elevated. Qualify the nondetect results for 2,4-dinitrophenol in all samples as estimated (UJ).

Compounds that did not meet criteria in the initial and continuing calibrations are summarized in the following table.

Instrument/ Calibration Standard	Compound	Calibration Exceedance	Validation Qualifier
HP5973X CCAL 480-642148/3 09/21 09:57	Hexachlorobutadiene	28.6 %D	Estimate (J/UJ) the positive and nondetect results for the affected compounds in the associated samples.
	2,4-dinitrophenol	20.8 %D	
	4-chlorophenylphenyl ether	26.4 %D	
Associated samples: SB115 (4-6), SB105 (11-12'8), SB105 (13-14'6) , SB101 (5-5'6), SB103 (12-13), SB103 (14-15'3)			
HP5977Z CCAL 480-642351/4 09/22 13:35	2-nitrophenol	20.8 %D	No action required. Results reported from the undiluted analysis.

Associated sample: SB105 (11-12'8)DL, SB103 (12-13)DL, SB103 (14-15'3)DL			
HP5977Z CCAL 480-642901/4 09/27/2022 11:33	Hexachlorocyclopentadiene	56.5 %D	Estimate (UJ) the nondetect results for the affected compound in the associated samples.
Associated samples: SB117 (8-10), SB118 (6-8), SB104 (6-8)			

Initial calibration (ICAL) relative standard deviation (%RSD) > 20% for VOC and SVOC; estimate (J) positive and blank-qualified (UJ) results only.

Blanks

Contamination was not detected in the laboratory and field/trip blank samples except where noted below. The following table summarizes the contamination and validation actions taken.

Analyte	Blank ID/ Associated Samples	Maximum Concentration	2x Action Level	10x Action Level	Validation Actions
Diethyl phthalate	MB 480-642086/1-A: SB115 (4-6) SB105 (11-12'8) SB105 (13-14'6) SB101 (5-5'6) SB103 (12-13) SB103 (14-15'3)	92 ug/Kg	184 ug/Kg	920 ug/Kg	Qualify the result for diethylphthalate as nondetect (U) at the reporting limit in samples SB115 (4-6), SB105 (13-14'6), SB103 (12-13), and SB103 (14-15'3).
Diethyl phthalate	MB 480-642833/1-A: SB117 (8-10) SB118 (6-8) SB104 (6-8)	123 ug/Kg	246 ug/Kg	1230 ug/Kg	Qualify the result for diethylphthalate as nondetect (U) at the reporting limit in samples SB117 (8-10) and SB118 (6-8).
Diethyl phthalate	MB 480-643391/1-A: SB107 (6-8) SB114 (8-9) SB108 (12-13) SB106 (6-6'11)	79 ug/Kg	158 ug/Kg	790 ug/Kg	Qualify the result for diethylphthalate as nondetect (U) at the reporting limit in samples SB114 (8-9) and SB106 (6-6'11). Qualify the result for diethylphthalate as estimated (J) in sample SB107 (6-8); High bias.

Blank Actions:
If the sample result is < RL (<2xRL for common contaminants); report the result as nondetect (U) at the reporting limit (RL) or reported value.
If the sample result is ≥ RL and <2x blank contamination detected; report the result as nondetect (U) at the reported value.
If the sample result is ≥ RL and < 10x Action Level; professional judgment was taken to report the sample result as estimated (J); biased high.
If the sample result is nondetect or > 10x Action Level; validation action is not required.

Surrogate Recoveries

The following table lists the surrogate recoveries outside of the control limits, for samples analyzed at dilutions of 10 or lower, and the resulting validation actions.

Sample	Surrogate	Recovery (%)	Control Limits (%)	Validation Actions
SB103(12-13)	2,4,6-tribromophenol	128	54-120	Validation actions were not required as one

Sample	Surrogate	Recovery (%)	Control Limits (%)	Validation Actions
SB104(6-8)	2,4,6-tribromophenol	126	54-120	surrogate was outside of control limits in each fraction as is allowable per method.

MS/MSD Results

MS/MSD analyses were performed on samples SB105 (13-14'6) and SB117 (8-10) for SVOC. The results were not used to qualify the samples as the spike added was below the reporting limit due to a 5-fold dilution required for the sample analysis.

Internal Standard Results

All criteria were met.

LCS/LCSD Results

All LCS recovery criteria were met

Field Duplicate Results

Field duplicate samples were not associated with this sample set.

Quantitation Limits

Results were reported which were below the reporting limit (RL)/quantitation limit (QL) and above the method detection limit (MDL). These results were qualified as estimated (J) by the laboratory.

The following table lists the sample dilutions which were performed.

Sample	Analysis	Dilution Reported
SB105 (11-12'8)	SVOC	The sample was analyzed at a 20-fold and 200-fold dilution due to color, appearance and viscosity and to bring the target analytes within calibration range. All analyses were combined to report all results within the calibration range and the lowest reporting limits. Reporting limits (RLs) were elevated in this sample.
SB105 (13-14'6)	SVOC	The sample was analyzed at a 5-fold dilution due to color, appearance and viscosity and to bring the target analytes within the calibration range. Reporting limits (RLs) were elevated in this sample.
SB101 (5-5'6)	SVOC	The sample was analyzed at a 10-fold dilution due to color, appearance and viscosity. Reporting limits (RLs) were elevated in this sample.
SB103 (12-13)	SVOC	The sample was analyzed at a 5-fold and 20-fold dilution due to color, appearance and viscosity and to bring the target analytes within calibration range. All analyses were combined to report all results within the calibration range and the lowest reporting limits. Reporting limits (RLs) were elevated in this sample.

Sample	Analysis	Dilution Reported
SB103 (14-15'3)	SVOC	The sample was analyzed at a 1-fold and 5-fold dilution due to color, appearance and viscosity and to bring the target analytes within calibration range. All analyses were combined to report all results within the calibration range and the lowest reporting limits.
SB117(8-10)	SVOC	The sample was analyzed at a 5-fold dilution due to color, appearance and viscosity and to bring the target analytes within the calibration range. Reporting limits (RLs) were elevated in this sample.
SB104(6-8)	SVOC	The sample was analyzed at a 10-fold dilution due to color, appearance and viscosity. Reporting limits (RLs) were elevated in this sample.
SB108 (12-13)	SVOC	The sample was analyzed at a 10-fold dilution due to color, appearance and viscosity and to bring the target analytes within the calibration range. Reporting limits (RLs) were elevated in this sample.

Sample Quantitation and Compound Identification

Compound identification criteria were met. Calculations were spot-checked; no discrepancies were noted.

DATA VALIDATION QUALIFIERS

U - The analyte was analyzed for, but due to blank contamination was flagged as nondetect (U). The result is usable as a nondetect.

J - Data are flagged (J) when a QC analysis fails outside the primary acceptance limits. The qualified "J" data are not excluded from further review or consideration. However, only one flag (J) is applied to a sample result, even though several associated QC analyses may fail. The 'J' data may be biased high or low or the direction of the bias may be indeterminable.

UJ - The analyte was not detected above the reported sample quantitation limit. Data are flagged (UJ) when a QC analysis fails outside the primary acceptance limits. The qualified "UJ" data are not excluded from further review or consideration. However, only one flag is applied to a sample result, even though several associated QC analyses may fail. The 'UJ' data may be biased low.

JN - The analysis indicates the presence of a compound that has been "tentatively identified" (N) and the associated numerical value represents its approximate (J) concentration.

R - Data rejected (R) on the basis of an unacceptable QC analysis should be excluded from further review or consideration. Data are rejected when associated QC analysis results exceed the expanded control limits of the QC criteria. The rejected data are known to contain significant errors based on documented information. The data user must not use the rejected data to make environmental decisions. The presence or absence of the analyte cannot be verified.

Site: Canastota MGP
Laboratory: Eurofins, Buffalo, NY
Report Number: 480-204668-1
Reviewer: Elissa McDonagh/GEI Consultants
Date: January 10, 2023

Samples Reviewed and Evaluation Summary

FIELD ID	LAB ID	FRACTIONS VALIDATED
SB112 (12-14)	480-204668-1	SVOC
SB124 (6.5-7.0)	480-204668-2	SVOC
SB123 (6.5-7.5)	480-204668-3	SVOC
SB122 (5.3-5.6)	480-204668-4	SVOC
SB121 (11-11.3)	480-204668-5	SVOC
SB126 (4-5)	480-204668-6	SVOC
SB128 (5.5-6)	480-204668-7	SVOC
SB128 (7-7.5)	480-204668-8	SVOC
SB127 (6-6.5)	480-204668-9	SVOC
SB127 (9-9.5)	480-204668-10	SVOC
SB129 (5-6)	480-204668-11	SVOC

The above-listed aqueous samples were collected on December 6, 7, 8, and 9, 2022 and were analyzed for semivolatile organic compounds (SVOCs) by SW-846 method 8270D. The data validation was performed in accordance with the USEPA Region 2 Standard Operating Procedure (SOP) HW-35A (Revision 1) *Semivolatile Data Validation* (September 2016), as well as by the method referenced by the data package and professional and technical judgment.

The data were evaluated based on the following parameters:

- Data Completeness
- Holding Times and Sample Preservation
- Gas Chromatography/Mass Spectrometry (GC/MS) Tunes
- Initial and Continuing Calibrations
- Blanks
- Surrogate Recoveries
- Matrix Spike/Matrix Spike Duplicate (MS/MSD) Results
- Internal Standard Results
- Laboratory Control Sample (LCS)/LCS Duplicate (LCSD) Results
- Field Duplicate Results
- Quantitation Limits
- Sample Quantitation and Compound Identification

In general, all the results appear usable as reported or usable with minor qualification due to blank contamination, surrogate recovery outliers, and uncertainty for levels below the reporting limit. These results were considered valid; even though some were qualified as discussed below.

The validation findings were based on the following information.

Data Completeness

The data package was complete as received by the laboratory.

Holding Times and Sample Preservation

All criteria were met.

GC/MS Tunes

All criteria were met.

Initial and Continuing Calibrations

The lowest calibration point reported for 2,4-dinitrophenol in the initial calibration curves was 40 ppm and therefore the reporting limit for 2,4-dinitrophenol in all samples was elevated. Qualify the nondetect results for 2,4-dinitrophenol in all samples as estimated (UJ).

Blanks

Contamination was not detected in the laboratory blank samples except where noted below. The following table summarizes the contamination and validation actions taken.

Analyte	Blank ID/ Associated Samples	Maximum Concentration	2x Action Level	10x Action Level	Validation Actions
Butylbenzylphthalate	MB 480-652996/1-A	35 ug/Kg	70 ug/Kg	350 ug/Kg	Qualify the result for butylbenzylphthalate as nondetect (U) at the reporting limit in samples SB124 (6.5-7.0), SB123 (6.5-7.5), SB122 (5.3-5.6), SB121 (11-11.3), SB126 (4-5), SB128 (5.5-6), and SB128 (7-7.5).
Associated samples: SB112 (12-14), SB124 (6.5-7.0), SB123 (6.5-7.5), SB122 (5.3-5.6), SB121 (11-11.3), SB126 (4-5), SB128 (5.5-6), SB128 (7-7.5), SB127 (6-6.5), SB127 (9-9.5), SB129 (5-6)					

Blank Actions:
If the sample result is < RL; report the result as nondetect (U) at the RL.
If the sample result is $\geq$ RL and <2x blank contamination detected; professional judgment was taken to report the result as nondetect (U) at the reported value.

Surrogate Recoveries

The following table lists the surrogate recoveries outside of the control limits and the resulting validation actions.

Sample	Surrogate	Recovery (%)	Control Limits (%)	Validation Actions
SB129 (5-6)	2-Fluorobiphenyl	122	60-120	Estimate (J) the base/neutral positive results in the sample SB129 (5-6): 2-methylnaphthalene, acenaphthene, acenaphthylene, anthracene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(ghi)perylene, benzo(k)fluoranthene, biphenyl, chrysene, dibenz(ah)anthracene, dibenzofuran, fluoranthene, fluorene, indeno(123-cd)pyrene, naphthalene, phenanthrene, and pyrene; High bias.
	Terphenyl-d14	132	79-130	
	2,4,6-Tribromophenol	121	54-120	Qualifications were not required.

MS/MSD Results

MS/MSD analyses were performed on sample SB123 (6.5-7.5) for SVOC. All recovery and precision criteria were met.

Internal Standard Results

All criteria were met.

LCS/LCSD Results

All LCS recovery criteria were met

Field Duplicate Results

Field duplicate samples were not associated with this sample set.

Quantitation Limits

Results were reported which were below the reporting limit (RL)/quantitation limit (QL) and above the method detection limit (MDL). These results were qualified as estimated (J) by the laboratory.

The following table lists the sample dilutions which were performed.

Sample	Analysis	Dilution Reported
SB127 (6-6.5)	SVOC	The sample was analyzed at a 5-fold and 20-fold dilution due to color, appearance and viscosity and to bring the target analytes within calibration range. All analyses were combined to report all results within the calibration range and the lowest reporting limits. Reporting limits (RLs) were elevated in this sample.
SB127 (9-9.5)	SVOC	The sample was analyzed at a 5-fold dilution due to color, appearance and viscosity and to bring the target analytes within the calibration range. Reporting limits (RLs) were elevated in this sample.
SB129 (5-6)	SVOC	The sample was analyzed at a 5-fold dilution due to color, appearance and viscosity and to bring the target analytes within the calibration range. Reporting limits (RLs) were elevated in this sample.

Sample Quantitation and Compound Identification

Compound identification criteria were met. Calculations were spot-checked; no discrepancies were noted.

DATA VALIDATION QUALIFIERS

U - The analyte was analyzed for, but due to blank contamination was flagged as nondetect (U). The result is usable as a nondetect.

J - Data are flagged (J) when a QC analysis fails outside the primary acceptance limits. The qualified "J" data are not excluded from further review or consideration. However, only one flag (J) is applied to a sample result, even though several associated QC analyses may fail. The 'J' data may be biased high or low or the direction of the bias may be indeterminable.

UJ - The analyte was not detected above the reported sample quantitation limit. Data are flagged (UJ) when a QC analysis fails outside the primary acceptance limits. The qualified "UJ" data are not excluded from further review or consideration. However, only one flag is applied to a sample result, even though several associated QC analyses may fail. The 'UJ' data may be biased low.

JN - The analysis indicates the presence of a compound that has been "tentatively identified" (N) and the associated numerical value represents its approximate (J) concentration.

R - Data rejected (R) on the basis of an unacceptable QC analysis should be excluded from further review or consideration. Data are rejected when associated QC analysis results exceed the expanded control limits of the QC criteria. The rejected data are known to contain significant errors based on documented information. The data user must not use the rejected data to make environmental decisions. The presence or absence of the analyte cannot be verified.

Site: Canastota MGP
Laboratory: Eurofins, Buffalo, NY
Report Number: 480-205654-1
Reviewer: Elissa McDonagh/GEI Consultants
Date: February 6, 2023

Samples Reviewed and Evaluation Summary

FIELD ID	LAB ID	FRACTIONS VALIDATED
MW-01	480-205654-1	VOC, SVOC
MW-03	480-205654-2	VOC, SVOC
MW-04	480-205654-3	VOC, SVOC
MW-05	480-205654-4	VOC, SVOC
MW-06	480-205654-5	VOC, SVOC
MW-07	480-205654-6	VOC, SVOC
MW-09	480-205654-7	VOC, SVOC
MW-10	480-205654-8	VOC, SVOC
MW-11D	480-205654-9	VOC, SVOC
MW-12D	480-205654-10	VOC, SVOC
MW-13	480-205654-11	VOC, SVOC
MW-101	480-205654-12	VOC, SVOC
MW-102	480-205654-13	VOC, SVOC
DUP	480-205654-14	VOC, SVOC

Associated QC Samples:
Trip Blank: None associated
Field Duplicate: MW-04/DUP

The above-listed aqueous samples were collected on January 18, 19 and 20, 2023 and were analyzed for BTEX volatile organic compounds (VOCs) by SW-846 method 8260C and polynuclear aromatic hydrocarbon (PAH) semivolatile organic compounds (SVOCs) by SW-846 method 8270D. The data validation was performed in accordance with the following USEPA Region 2 Documents: Standard Operating Procedure (SOP) HW-35A (Revision 1) *Semivolatile Data Validation* (September 2016) and SOP HW-33A (Revision 1) *Low/Medium Volatile Data Validation* (September 2016), as well as by the methods referenced by the data package and professional and technical judgment.

The data were evaluated based on the following parameters:

- Data Completeness
- Holding Times and Sample Preservation
- Gas Chromatography/Mass Spectrometry (GC/MS) Tunes
- Initial and Continuing Calibrations
- Blanks
- Surrogate Recoveries
- Matrix Spike/Matrix Spike Duplicate (MS/MSD) Results
- Internal Standard Results

- Laboratory Control Sample (LCS)/LCS Duplicate (LCSD) Results
- Field Duplicate Results
- Quantitation Limits
- Sample Quantitation and Compound Identification

In general, all the results appear usable as reported or usable with minor qualification due to sample preservation nonconformances and uncertainty for levels below the reporting limit. These results were considered valid; even though some were qualified as discussed below.

The validation findings were based on the following information.

Data Completeness

The data package was complete as received by the laboratory.

Holding Times and Sample Preservation

The samples MW-01, MW-07, MW-09, MW-11D, MW-13 and MW-101 were received at the laboratory with a cooler temperature of 18°C, outside of the required temperature requirement of less than 6°C. Qualify the VOC and SVOC positive and nondetect results as estimated (J/UJ).

GC/MS Tunes

All criteria were met.

Initial and Continuing Calibrations

All initial and continuing calibration criteria were met.

Blanks

Contamination was not detected in the laboratory blank samples.

Surrogate Recoveries

The following table lists the surrogate recoveries outside of the control limits and the resulting validation actions.

Sample	Surrogate	Recovery (%)	Control Limits (%)	Validation Actions
MW-11D	Terphenyl-d14	57	60-148	Validation actions were not required as one surrogate was outside of control limits in each fraction as is allowable per method.
MW-13	Terphenyl-d14	37	60-148	
MW-101	Terphenyl-d14	50	60-148	

MS/MSD Results

MS/MSD analysis was performed on sample MW-01 for VOCs and SVOCs. All criteria were met except where noted below.

MW-01					
Analyte	**MS (%)**	**MSD (%)**	**RPD (%)**	**Control Limits**	**Validation Action/Bias**
Acenaphthylene	-	-	20	<18	Validation action was not required as the affected results were nondetect and therefore was not affected by the potential high bias.
Benzo(a)anthracene	-	-	19	<15	
Benzo(b)fluoranthene	-	-	29	<15	
Benzo(g,h,i)perylene	-	-	18	<15	
Benzo(k)fluoranthene	-	-	23	<22	
Fluorene	-	-	19	<15	
- Criteria met					

Internal Standard Results

All criteria were met.

LCS/LCSD Results

All LCS/LCSD recovery and precision criteria were met

Field Duplicate Results

Samples MW-04 and DUP were submitted as the field duplicate pair with this sample group. The following table summarizes the RPDs of the detected analytes, which were within the acceptance criteria.

Analyte	**MW-04 (ug/L)**	**DUP (ug/L)**	**RPD (%)**
Acenaphthene	3.9J	4.2J	7
Fluorene	1.8J	1.7J	6
Naphthalene	20	19	5
NC – Not calculable Criteria: When both results are ≥5x the RL, RPDs must be <30%. When results are < 5x the QL, the absolute difference between the original and field duplicate results must be < 2xRL			

Quantitation Limits

Results were reported which were below the reporting limit (RL)/quantitation limit (QL) and above the method detection limit (MDL). These results were qualified as estimated (J) by the laboratory.

The following table lists the sample dilutions which were performed.

Sample	Analysis	Dilution Reported
MW-04	VOC	The sample was analyzed at a 10-fold dilution due to foaming at the time of purging during the original sample analysis. Reporting limits (RLs) were elevated in this sample.
MW-05	VOC	The sample was analyzed at a 2-fold dilution due to foaming at the time of purging during the original sample analysis. Reporting limits (RLs) were elevated in this sample.
MW-07	VOC	The sample was analyzed at a 100-fold dilution to bring the target analytes within the calibration range. Reporting limits (RLs) were elevated in this sample.
	SVOC	The sample was analyzed at a 100-fold dilution due to the nature of the sample matrix. Reporting limits (RLs) were elevated in this sample.
MW-09	SVOC	The sample was analyzed at a 20-fold dilution due to the nature of the sample matrix. Reporting limits (RLs) were elevated in this sample.
MW-10	VOC	The sample was analyzed at a 40-fold dilution to bring the target analytes within the calibration range. Reporting limits (RLs) were elevated in this sample.
	SVOC	The sample was analyzed at a 10-fold dilution and a 100-fold dilution due to the nature of the sample matrix and to bring the target analytes within the calibration range. Report naphthalene from the 100-fold dilution. Report all other results from the 10-fold dilution. Reporting limits (RLs) were elevated in this sample.
MW-12D	VOC	The sample was analyzed at a 2-fold dilution due to foaming at the time of purging during the original sample analysis. Reporting limits (RLs) were elevated in this sample.
MW-13	VOC	The sample was analyzed at a 5-fold dilution due to foaming at the time of purging during the original sample analysis. Reporting limits (RLs) were elevated in this sample.
MW-101	VOC	The sample was analyzed at a 5-fold dilution due to foaming at the time of purging during the original sample analysis. Reporting limits (RLs) were elevated in this sample.
DUP	VOC	The sample was analyzed at a 10-fold dilution due to foaming at the time of purging during the original sample analysis. Reporting limits (RLs) were elevated in this sample.

Sample Quantitation and Compound Identification

Compound identification criteria were met. Calculations were spot-checked; no discrepancies were noted.

DATA VALIDATION QUALIFIERS

U - The analyte was analyzed for, but due to blank contamination was flagged as nondetect (U). The result is usable as a nondetect.

J - Data are flagged (J) when a QC analysis fails outside the primary acceptance limits. The qualified "J" data are not excluded from further review or consideration. However, only one flag (J) is applied to a sample result, even though several associated QC analyses may fail. The 'J' data may be biased high or low or the direction of the bias may be indeterminable.

UJ - The analyte was not detected above the reported sample quantitation limit. Data are flagged (UJ) when a QC analysis fails outside the primary acceptance limits. The qualified "UJ" data are not excluded from further review or consideration. However, only one flag is applied to a sample result, even though several associated QC analyses may fail. The 'UJ' data may be biased low.

JN - The analysis indicates the presence of a compound that has been "tentatively identified" (N) and the associated numerical value represents its approximate (J) concentration.

R - Data rejected (R) on the basis of an unacceptable QC analysis should be excluded from further review or consideration. Data are rejected when associated QC analysis results exceed the expanded control limits of the QC criteria. The rejected data are known to contain significant errors based on documented information. The data user must not use the rejected data to make environmental decisions. The presence or absence of the analyte cannot be verified.

Site: Canastota MGP
Laboratory: Eurofins, Buffalo, NY
Report Number: 480-208414-1
Reviewer: Elissa McDonagh/GEI Consultants
Date: May 16, 2023

Samples Reviewed and Evaluation Summary

FIELD ID	LAB ID	FRACTIONS VALIDATED
MW-02	480-208414-1	VOC, SVOC
MW-08	480-208414-2	VOC, SVOC
MW-04A	480-208414-3	VOC, SVOC

Associated QC Samples:
Trip Blank: None associated
Field Duplicate: None associated

The above-listed aqueous samples were collected on April 27, 2023 and were analyzed for BTEX volatile organic compounds (VOCs) by SW-846 method 8260C and polynuclear aromatic hydrocarbon (PAH) semivolatile organic compounds (SVOCs) by SW-846 method 8270D. The data validation was performed in accordance with the following USEPA Region 2 Documents: Standard Operating Procedure (SOP) HW-35A (Revision 1) *Semivolatile Data Validation* (September 2016) and SOP HW-33A (Revision 1) *Low/Medium Volatile Data Validation* (September 2016), as well as by the methods referenced by the data package and professional and technical judgment.

The data were evaluated based on the following parameters:

- Data Completeness
- Holding Times and Sample Preservation
- Gas Chromatography/Mass Spectrometry (GC/MS) Tunes
- Initial and Continuing Calibrations
- Blanks
- Surrogate Recoveries
- Matrix Spike/Matrix Spike Duplicate (MS/MSD) Results
- Internal Standard Results
- Laboratory Control Sample (LCS)/LCS Duplicate (LCSD) Results
- Field Duplicate Results
- Quantitation Limits
- Sample Quantitation and Compound Identification

In general, all the results appear usable as reported or usable with minor qualification due to sample preservation nonconformances and uncertainty for levels below the reporting limit. These results were considered valid; even though some were qualified as discussed below.

The validation findings were based on the following information.

Data Completeness

The data package was complete as received by the laboratory.

Holding Times and Sample Preservation

The samples MW-02, MW-08 and MW-04A were received at the laboratory with a cooler temperature of 11.8°C, outside of the required temperature requirement of less than 6°C. Qualify the VOC and SVOC positive and nondetect results as estimated (J/UJ).

GC/MS Tunes

All criteria were met.

Initial and Continuing Calibrations

All initial and continuing calibration criteria were met.

Blanks

Contamination was not detected in the laboratory blank samples.

Surrogate Recoveries

All surrogate recovery criteria were met.

MS/MSD Results

Project MS/MSDs were not associated with the VOC and SVOC analyses. Validation action was not taken on this basis.

Internal Standard Results

All criteria were met.

LCS/LCSD Results

All LCS/LCSD recovery and precision criteria were met.

Field Duplicate Results

Field duplicate samples were not associated with this sample set.

Quantitation Limits

Results were reported which were below the reporting limit (RL)/quantitation limit (QL) and above the method detection limit (MDL). These results were qualified as estimated (J) by the laboratory.

The following table lists the sample dilutions which were performed.

Sample	Analysis	Dilution Reported
MW-02	VOC	The sample was analyzed at a 5-fold dilution due to foaming at the time of purging during the original sample analysis. Reporting limits (RLs) were elevated in this sample.
MW-04A	VOC	The sample was analyzed at a 10-fold dilution due to foaming at the time of purging during the original sample analysis. Reporting limits (RLs) were elevated in this sample.

Sample Quantitation and Compound Identification

Compound identification criteria were met. Calculations were spot-checked; no discrepancies were noted.

DATA VALIDATION QUALIFIERS

U - The analyte was analyzed for, but due to blank contamination was flagged as nondetect (U). The result is usable as a nondetect.

J - Data are flagged (J) when a QC analysis fails outside the primary acceptance limits. The qualified "J" data are not excluded from further review or consideration. However, only one flag (J) is applied to a sample result, even though several associated QC analyses may fail. The 'J' data may be biased high or low or the direction of the bias may be indeterminable.

UJ - The analyte was not detected above the reported sample quantitation limit. Data are flagged (UJ) when a QC analysis fails outside the primary acceptance limits. The qualified "UJ" data are not excluded from further review or consideration. However, only one flag is applied to a sample result, even though several associated QC analyses may fail. The 'UJ' data may be biased low.

JN - The analysis indicates the presence of a compound that has been "tentatively identified" (N) and the associated numerical value represents its approximate (J) concentration.

R - Data rejected (R) on the basis of an unacceptable QC analysis should be excluded from further review or consideration. Data are rejected when associated QC analysis results exceed the expanded control limits of the QC criteria. The rejected data are known to contain significant errors based on documented information. The data user must not use the rejected data to make environmental decisions. The presence or absence of the analyte cannot be verified.

Site: Canastota Former MGP
Laboratory: Eurofins, Amherst, NY
Report Numbers: 480-202206 and 480-202287
Reviewer: Lorie MacKinnon/GEI Consultants
Date: November 15, 2022

Samples Reviewed and Evaluation Summary

FIELD ID	LAB ID	FRACTIONS VALIDATED
SB-113 (16-20)	480-202206-01	SVOC
EB1	480-202206-02	SVOC
SB-111 (14-16)	480-202206-04	SVOC
DUP1	480-202206-05	SVOC
SB 110 (12-14)	480-202287-01	SVOC
SB 110 (15-16)	480-202287-02	SVOC
SB 109 (14-15)	480-202287-05	SVOC
DUP2	480-202287-06	SVOC
EB2	480-202287-08	PAH

Associated QC Samples:
Field/Trip Blanks: EB1, EB2
Field Duplicate Pairs: SB 111 (14-16)/DUP 1, SB 109 (14-15)/DUP2

The above-listed solid samples and field blank samples were collected on September 29 and 30 and October 3, 2022 and were analyzed for semivolatile organic compounds (SVOCs) by SW-846 method 8270D. The data validation was performed based on the U*SEPA Region 2 Standard Operating Procedure (SOP) HW-35A (Revision 1) Semivolatile Data Validation* (September 2016), as well as by the method referenced by the data package and professional and technical judgment.

The data were evaluated based on the following parameters:

- Data Completeness
- Holding Times and Sample Preservation
- Initial and Continuing Calibrations
- Blanks
- Surrogate Recoveries
- Matrix Spike/Matrix Spike Duplicate (MS/MSD) Results
- Internal Standard Results
- Laboratory Control Sample (LCS)/LCS Duplicate (LCSD) Results
- Field Duplicate Results
- Quantitation Limits
- Sample Quantitation and Compound Identification

In general, the data appear usable as reported or usable with minor qualification due to sample matrix or laboratory quality control outliers. Select sample results were qualified as estimated due to calibration exceedances, blank contamination, and uncertainty for levels below the reporting limit. All results were considered valid; even though some were qualified as discussed below. The validation findings were based on the following information.

Data Completeness

The data reports were complete as received by the laboratory.

Holding Times and Sample Preservation

All criteria were met.

Initial and Continuing Calibrations

Compounds that did not meet criteria in the calibrations are summarized in the following table.

Instrument/ Calibration Standard	Compound	Calibration Exceedance	Validation Qualifier
SVOCs			
HP5973V ICAL 480-638067 08/18/22	2,4-Dinitrophenol	Correlation coefficient 0.968	Estimate (UJ) the nondetect results for 2,4-dinitrophenol in all associated samples.
Associated samples: SB-113 (16-20), SB-111 (14-16), DUP1, SB 110 (12-14), SB 110 (15-16), SB 109 (14-15), DUP2			
HP5973V CCAL 480-644038 10/05/22	Hexachlorocyclopentadiene	23.2 %D	Estimate (UJ) the nondetect results for hexachlorocyclopentadiene in all associated samples.
Associated samples: SB-113 (16-20), SB-111 (14-16), DUP1, SB 110 (12-14), SB 110 (15-16), SB 109 (14-15), DUP2			

Initial calibration (ICAL) relative standard deviation (%RSD) > 20; estimate (J) positive and blank-qualified (UJ) results only.
ICAL correlation coefficient < 0.990; estimate (J) positive and nondetect (UJ) results.
Continuing calibration (CCAL) percent difference (%D) > 20; estimate (J/UJ) positive and nondetect results.
RF (Response factor) < 0.05; Estimate (J) positive results and reject (R) nondetect results.

Blanks

Analytes were not detected in the associated laboratory method blanks and equipment blank samples except where noted below.

Analyte	Blank ID	Concentration	2x Action Level	10x Action Level	Validation Actions
Diethyl phthalate	Method MB480-644025	4.95 ug/L	9.9 ug/L	49.5 ug/L	Qualify the result for diethyl phthalate as nondetect at the RL in sample EB1.
Associated sample: EB1					
Diethyl phthalate	Method MB480-643965	70.3 ug/kg	140 ug/kg	703 ug/kg	Qualify the results for diethyl phthalate as nondetect at the RL in all associated samples.
Associated samples: SB-113 (16-20), SB-111 (14-16), DUP1, SB 110 (12-14), SB 110 (15-16), SB 109 (14-15), DUP2					

Blank Actions:
If the sample result is < RL (<2xRL for common contaminants); report the result as nondetect (U) at the reporting limit (RL) or reported value.
If the sample result is ≥ RL and <2x blank contamination detected; report the result as nondetect (U) at the reported value.

If the sample result is ≥ RL and < 10x Action Level; professional judgment was taken to report the sample result as estimated (J); biased high.
If the sample result is nondetect or > 10x Action Level; validation action is not required.

Surrogate Recoveries

All surrogate recovery criteria were met.

MS/MSD Results

MS/MSD analyses were performed on sample SB-113 (16-20) and SB-109 (0-4) for SVOCs. All recovery and precision criteria were met, except where noted below.

SB-113 (16-20)					
Analyte	**MS (%)**	**MSD (%)**	**RPD (%)**	**Control Limits**	**Validation Action/Bias**
SVOCs					
2,4-Dichlorophenol	-	-	24	19	Validation actions were not required as these compounds were not detected in sample SB-113 (16-20) and therefore were not affected by the high precision results.
2-Chlorophenol	-	-	28	25	
2-Nitrophenol	-	-	27	18	
Acetophenone	-	-	25	20	
Benzaldehyde	-	-	29	20	
Benzo(b)fluoranthene	-	-	17	15	
Bis(2-chloroisopropyl)ether	-	-	29	24	
Bis(2-chloroethoxy)methane	-	-	25	17	
Bis(2-Chloroethyl)ether	-	-	26	21	
Isophorone	-	-	24	17	
Nitrobenzene	-	-	27	24	
- Criteria met					

Internal Standard Results

All criteria were met.

LCS/LCSD Results

All compounds recovered within control limits in the LCS and/or LCSD samples except where noted below.

Compound	LCS ID	Recovery (%)	RPD (%)	Control Limits (%)	Validation Action/Bias
3-Nitroaniline	LCS/LCSD 480-644025	-	22	19	Validation actions were not required as all associated results were nondetect and therefore not affected by the potential high bias or precision results.
Dibenzofuran		-	16	15	
Diethylphthalate		LCSD 131	-	59-127	
Associated sample: EB1					
-Criteria met					

Field Duplicate Results

Samples SB 111 (14-16) and DUP 1 were submitted as the field duplicate pair with this sample set. The following table summarizes the RPDs of the detected analytes in the field duplicate pair, which were within the acceptance criteria.

Analyte	SB 111 (14-16) (ug/kg)	DUP 1 (ug/kg)	RPD (%)
Acenaphthene	200 U	36 J	NC, Within 4xRL
Benzo(a)anthracene	29 J	30 J	3.4
Fluoranthene	58 J	69 J	17.3
Fluorene	200 U	29 J	NC, Within 4xRL
Naphthalene	47 J	83 J	55.4, Within 4xRL
Phenanthrene	91 J	130 J	35.3
Pyrene	62 J	76 J	20.3
NC – Not calculable Criteria: When both results are ≥5x the RL, RPDs must be <50%. When results are < 5x the RL, the absolute difference between the original and field duplicate must be < 4xRL			

Samples SB 109 (14-15) and DUP2 were submitted as the field duplicate pair with this sample set. The following table summarizes the RPDs of the detected analytes in the field duplicate pair, which were within the acceptance criteria.

Analyte	SB 109 (14-15) (ug/kg)	DUP2 (ug/kg)	RPD (%)
Phenanthrene	200 U	35 J	NC, Within 4xRL
NC – Not calculable Criteria: When both results are ≥5x the RL, RPDs must be <50%. When results are < 5x the RL, the absolute difference between the original and field duplicate must be < 4xRL			

Quantitation Limits

Results were reported which were below the reporting limit (RL) and above the method detection limit (MDL). These results were qualified as estimated (J) by the laboratory.

Dilutions were not performed.

Sample Quantitation and Compound Identification

Compound identification criteria were met. Calculations were spot-checked; no discrepancies were noted.

DATA VALIDATION QUALIFIERS

U - The analyte was analyzed for, but due to blank contamination was flagged as nondetect (U). The result is usable as a nondetect.

J - Data are flagged (J) when a QC analysis fails outside the primary acceptance limits. The qualified "J" data are not excluded from further review or consideration. However, only one flag (J) is applied to a sample result, even though several associated QC analyses may fail. The 'J' data may be biased high or low or the direction of the bias may be indeterminable.

UJ - The analyte was not detected above the reported sample quantitation limit. Data are flagged (UJ) when a QC analysis fails outside the primary acceptance limits. The qualified "UJ" data are not excluded from further review or consideration. However, only one flag is applied to a sample result, even though several associated QC analyses may fail. The 'UJ' data may be biased low.

NJ - The analysis indicates the presence of a compound that has been "tentatively identified" (N) and the associated numerical value represents its approximate (J) concentration.

R - Data rejected (R) on the basis of an unacceptable QC analysis should be excluded from further review or consideration. Data are rejected when associated QC analysis results exceed the expanded control limits of the QC criteria. The rejected data are known to contain significant errors based on documented information. The data user must not use the rejected data to make environmental decisions. The presence or absence of the analyte cannot be verified.

Site: Canastota MGP, Canastota, NY
Laboratory: Alpha Analytical, Mansfield, MA
Report No.: L1912526
Reviewer: Lorie MacKinnon/GEI Consultants
Date: May 13, 2019

Samples Reviewed and Evaluation Summary

FIELD ID	LAB ID	FRACTIONS VALIDATED
MW02	L1912526-01	PFAAs, 1,4-Dioxane
MW03	L1912526-02	PFAAs, 1,4-Dioxane
MW06	L1912526-03	PFAAs, 1,4-Dioxane
Equipment Blank	L1912526-04	PFAAs, 1,4-Dioxane
Blind Duplicate	L1912526-05	PFAAs, 1,4-Dioxane

Associated QC Samples:
Field Blanks: Equipment Blank
Field Duplicate pair: MW02/Blind Duplicate

The above-listed aqueous samples and equipment blank sample were collected on March 27, 2019 and were analyzed for perfluorinated alkyl acids (PFAAs) by modified Method 537 and 1,4-dioxane by SW-846 method 8270D selective ion monitoring (SIM) Isotope dilution. The data validation was performed based on the USEPA Region 2 SOP HW-35 (Revision 2) *Semivolatile Data Validation* (March 2013), modified for the methods referenced and professional and technical judgment.

The data were evaluated based on the following parameters:

- Data Completeness
- Holding Times and Sample Preservation
- Initial and Continuing Calibrations
- Blanks
- Surrogates and Isotope Dilution Analyte (IDA) Recoveries
- Matrix Spike/Matrix Spike Duplicate (MS/MSD) Results
- Laboratory Control Sample (LCS) Results
- Internal Standards
- Field Duplicate Results
- Quantitation Limits
- Sample Quantitation and Compound Identification

In general, the 1,4-dioxane data appear usable as reported or usable with qualification due to sample matrix or laboratory quality control outliers.

Due to high relative percent differences seen for multiple perfluorinated alkyl acid compounds in the field duplicate pair and similarity of results between samples MW02 and MW03, the laboratory was asked to confirm sample results. Due to lack of additional sample, the laboratory confirmed the reported results for samples with a reanalysis of the original sample extract. Additionally, based on chain of custody sampling times and field notes, the sample collected for the MS/MSD was MW03. However, using the sample aliquots collected, the laboratory designated the MS/MSD native sample as MW02. As the sample was depleted, a re-extraction could not be performed. As the sample bottles were disposed of, original field sampling labels could not be verified to confirm that a laboratory log-in error in the assigning of field IDs and MS/MSD native sample designation had occurred. Due to the uncertainty of reported results for all perfluorinated alkyl acid compounds in the groundwater samples, professional judgment was taken to reject these results and recommend resampling of this event for PFAAs.

The validation findings were based on the following information.

Data Completeness

The data package was found to be complete as received by the laboratory.

Holding Times and Sample Preservation

All criteria were met.

Initial and Continuing Calibrations

All initial and continuing calibration criteria were met.

Blanks

1,4-Dioxane

1,4-Dioxane was not detected in the associated method blank sample. 1,4-Dioxane was detected in the equipment blank sample. Validation actions were not required on this basis as 1,4-dioxane was not detected in the project samples.

Analyte	Blank ID/ Associated Samples	Concentration Detected	10x Action Level	Validation Actions
1,4-Dioxane	Equipment Blank: All samples	212 ng/L	2120 ng/L	Validation actions were not required.

Blank Actions:
If the sample result is nondetect or > 10x Action Level; validation action is not required.

PFAAs

Analytes were not detected in the associated laboratory method blank sample and equipment blank sample.

Surrogates and Isotope Dilution Analyte (IDA) Recoveries

1,4-Dioxane

The following table lists the surrogate recoveries outside of the control limits and the resulting validation actions.

Sample	Surrogate	Recovery (%)	Control Limits (%)	Validation Actions
MW02	1,4-Dioxane-d8	11	15-110	Validation actions were not required. The sample was re-extracted within hold time with acceptable surrogate recovery. The reanalysis was reported.

PFAAs

The following tables lists the isotope dilution analytes recovered outside of the laboratory control limits and validation actions taken.

Sample	IDA	Recovery (%)	Control Limits (%)	Validation Actions
MW02	M2-6:2FTS	288	1-244	Validation action was not required as the results for 6:2 FTS and 8:2 FTS were not detected in these samples and therefore not affected by the high recovery.
	M2-8:2FTS	257	7-170	
MW03	M2-6:2FTS	298	1-244	
	M2-8:2FTS	283	7-170	
MW06	M2-6:2FTS	254	1-244	
	M2-8:2FTS	196	7-170	
Blind duplicate	M2-8:2FTS	257	7-170	

MS/MSD Results

The laboratory stated that the MS/MSD analyses were assigned to sample MW02 for 1,4-dioxane and PFAAs. However, based on the field sample collection times and field notes, aliquots were collected from sampling location MW03 for the MS/MSD. Bottles were disposed of, so the field labels and MS/MSD assignment could not be verified.

As all 1,4-dioxane sample location results were nondetect and MS/MSD recoveries were acceptable, the native sample uncertainty has a minimal effect for this analysis. However, due to

the uncertainty of the native sample results in the PFAA analysis, these MS/MSD recoveries could not be evaluated.

LCS Results

All criteria were met.

Internal Standards

All criteria were met.

Field Duplicate Results

Samples MW02 and Blind Duplicate were submitted as the field duplicate pair with this sample group. The relative percent differences (RPDs) were outside of control limits for perfluorobutanoic acid (PFBA), perfluoropentanoic acid (PFPeA), perfluorohexanoic acid (PFHxA), perfluoroheptanoic acid (PFHpA), Perfluorohexanesulfonic acid (PFHxS), perfluorooctanoic acid (PFOA), Perfluorononanoic acid (PFNA), perfluorooctanesulfonic acid (PFOS), perfluoroundecanoic acid (PFUnA), and total PFOA/PFOS in the evaluation of the field duplicate pair.

It should be noted that due to differences seen in the field duplicate pair and similarity of results between samples MW02 and MW03, the laboratory was asked to confirm results of the samples. The laboratory confirmed results with a reanalysis of sample extracts. As the sample was depleted, a re-extraction was not performed. Additionally, as the sample bottles were disposed of, original field sampling labels could not be verified to determine if a laboratory login error occurred. Professional judgment was taken to reject the results for all PFAA groundwater samples as the sample locations could not be verified.

Analyte	MW02 (ng/L)	Blind Duplicate (ng/L)	RPD (%)
Perfluorobutanoic acid (PFBA)	12.8	8.66	**38.6**
Perfluoropentanoic (PFPeA)	46.4	5.70	**156**
Perfluorobutanesulfonic acid (PFBS)	2.45	2.57	4.8
Perfluorohexanoic acid (PFHxA)	80.3	7.59	**165**
Perfluoroheptanoic acid (PFHpA)	61.1	4.96	**170**
Perfluorohexanesulfonic Acid (PFHxS)	105	9.56	**167**
Perfluorooctanoic acid (PFOA)	47.7	12.4	**117**
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	1.75 U	0.192 J	NC, Within the RL
Perfluorononanoic Acid (PFNA)	93.6	1.92 U	**NC, Not within the RL**
Perfluorooctanesulfonic Acid (PFOS)	16.2	2.33	**150**
Perfluorodecanoic Acid (PFDA)	2.23	1.92 U	NC, Within the RL
N-Methyl Perfluorooctanesulfonamidoacetic Acid	0.528 J	1.92 U	NC, Within the RL

Analyte	MW02 (ng/L)	Blind Duplicate (ng/L)	RPD (%)
Perfluoroundecanoic Acid (PFUnA)	6.51	1.92 U	**NC, Not within the RL**
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	0.608 J	1.92 U	NC, Within the RL
Total PFOA/PFOS	63.9	14.7	**125**

NC – Not calculable
Criteria: When both results are ≥5x the RL, RPDs must be <30%.
Results < 5xRL, professional judgment was taken to qualify results if the absolute difference between the original and field duplicate > RL.

Quantitation Limits

Dilutions were not required.

Sample Quantitation and Compound Identification

Calculations were spot-checked; no discrepancies were noted.

DATA VALIDATION QUALIFIERS

U - The analyte was analyzed for, but due to blank contamination was flagged as nondetect (U). The result is usable as a nondetect.

J - Data are flagged (J) when a QC analysis fails outside the primary acceptance limits. The qualified "J" data are not excluded from further review or consideration. However, only one flag (J) is applied to a sample result, even though several associated QC analyses may fail. The 'J' data may be biased high or low or the direction of the bias may be indeterminable.

UJ - The analyte was not detected above the reported sample quantitation limit. Data are flagged (UJ) when a QC analysis fails outside the primary acceptance limits. The qualified "UJ" data are not excluded from further review or consideration. However, only one flag is applied to a sample result, even though several associated QC analyses may fail. The 'UJ' data may be biased low.

JN - The analysis indicates the presence of a compound that has been "tentatively identified" (N) and the associated numerical value represents its approximate (J) concentration.

R - Data rejected (R) on the basis of an unacceptable QC analysis should be excluded from further review or consideration. Data are rejected when associated QC analysis results exceed the expanded control limits of the QC criteria. The rejected data are known to contain significant errors based on documented information. The data user must not use the rejected data to make environmental decisions. The presence or absence of the analyte cannot be verified.

Site: Canastota, Former MGP, Canastota, NY
Laboratory: Alpha Analytical, Mansfield, MA
Report No.: L1923349
Reviewer: Lorie MacKinnon/GEI Consultants
Date: July 2, 2019

Samples Reviewed and Evaluation Summary

FIELD ID	LAB ID	FRACTIONS VALIDATED
MW-02	L1923349-01	PFAS
MW-03	L1923349-02	PFAS
MW-06	L1923349-03	PFAS
Blind Duplicate	L1923349-04	PFAS
Equipment Blank	L1923349-05	PFAS
Field Blank	L1923349-06	PFAS

Associated QC Samples:
Field Blanks: Equipment Blank, Field Blank
Field Duplicate pair: MW-06/Blind Duplicate

The above-listed aqueous samples, field blank, and equipment blank sample were collected on June 3, 2019 and were analyzed for perfluorinated alkyl acids (PFAS) by modified Method 537 Isotope dilution. The data validation was performed based on the USEPA Region 2 SOP HW-35 (Revision 2) *Semivolatile Data Validation* (March 2013), modified for the method referenced and professional and technical judgment.

The data were evaluated based on the following parameters:

- Data Completeness
- Holding Times and Sample Preservation
- Initial and Continuing Calibrations
- Blanks
- Surrogate and Isotope Dilution Analyte (IDA) Recoveries
- Matrix Spike/Matrix Spike Duplicate (MS/MSD) Results
- Laboratory Control Sample (LCS) Results
- Internal Standards
- Field Duplicate Results
- Quantitation Limits
- Sample Quantitation and Compound Identification

In general, the data appear usable as reported or usable with minor qualification due to sample matrix or laboratory quality control outliers.

The validation findings were based on the following information.

Data Completeness

The data package was found to be complete as received by the laboratory.

Holding Times and Sample Preservation

All criteria were met.

Initial and Continuing Calibrations

Compounds that did not meet criteria in the calibrations are summarized in the following table.

Instrument/ Calibration Standard	Compound	Calibration Exceedance	Validation Qualifier
LCMS01 Low Level CCVL 06/13 23:36	8:2 FTS	42.1 %R	Validation actions were not required as the project field samples were bracketed by acceptable CCVs.
LCMS01 CCV 06/13 19:45	6:2 FTS	64.5 %R	
Associated samples: QC samples only			

Low level Continuing Calibration Verification (CCVL) percent recovery (%R) outside of control limits of 50-150; professional judgment was taken to estimate results less than the affected range of five times the reporting limit (RL) dependent on the recovery.
CCV percent recovery (%R) outside of control limits of 70-130; Estimate results dependent of recovery.

Blanks

Contaminants were not detected in the associated method blank sample. The following table summarizes the contamination detected in the equipment and field blank samples.

Analyte	Blank ID/ Associated Samples	Maximum Concentration Detected	10x Action Level	Validation Actions
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2 FTS)	Equipment Blank: All samples	2.52 ug/L	25.2 ug/L	Validation actions were not required as these compounds were not detected in the project samples.
Perfluorotetradecanoic acid (PFTA)		0.731 ug/L	7.31 ug/L	

Blank Actions:
If the sample result is < RL; report the result as nondetect (U) at the reporting limit (RL).
If the sample result is ≥ RL and <blank contamination detected; report the result as nondetect (U) at the reported value.
If the sample result is ≥ RL and < 10x Action Level; professional judgment was taken to report the sample result as estimated (J); biased high.
If the sample result is nondetect or > 10x Action Level; validation action is not required.

Surrogate and Isotope Dilution Analyte (IDA) Recoveries

The following table lists the isotope dilution analytes recovered outside of the laboratory control limits and validation actions taken.

Sample	IDA	Recovery (%)	Control Limits (%)	Validation Actions
MW-02	M2PFTEDA	23	33-143	Estimate (UJ) the nondetect results for perfluorotetradecanoic acid (PFTA) in samples MW-02 and MW-03.
MW-03	M2PFTEDA	19	33-143	
MW-06	M7-PFUDA	39	40-144	Estimate (J/UJ) the positive and nondetect results for perfluoroundecanoic acid (PFUnA), N-Ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA), perfluorododecanoic acid (PFDoA), Perfluorotridecanoic acid (PFTrDA), and perfluorotetradecanoic acid (PFTA) in sample MW-06.
	d5-NEtFOSAA	14	23-146	
	MPFDOA	19	24-161	
	M2PFTEDA	8	33-143	
Blind Duplicate	M7-PFUDA	39	40-144	Estimate (J/UJ) the positive and nondetect results for perfluoroundecanoic acid (PFUnA), N-Ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA), perfluorododecanoic acid (PFDoA), Perfluorotridecanoic acid (PFTrDA), and perfluorotetradecanoic acid (PFTA) in sample Blind Duplicate.
	d5-NEtFOSAA	13	23-146	
	MPFDOA	19	24-161	
	M2PFTEDA	11	33-143	
Equipment Blank	d5-NEtFOSAA	22	23-146	Estimate (J/UJ) the positive and nondetect results for N-Ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA), perfluorododecanoic acid (PFDoA), Perfluorotridecanoic acid (PFTrDA), and perfluorotetradecanoic acid (PFTA) in sample Equipment Blank.
	MPFDOA	20	24-161	
	M2PFTEDA	15	33-143	
Field Blank	d5-NEtFOSAA	18	23-146	Estimate (J/UJ) the positive and nondetect results for N-Ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA) and perfluorotetradecanoic acid (PFTA) in sample Field Blank.
	M2PFTEDA	19	33-143	

It should be noted that IDA recoveries outside of control limits generally have a minimal effect on the data quality as the results are quantitated by isotope dilution and are corrected accordingly. However, professional judgment was taken to qualify affected compound results for associated isotope dilution analytes recovered outside of the laboratory control limits.

MS/MSD Results

MS/MSD analyses were performed on sample MW-03. Recovery and precision criteria were met.

LCS Results

All recovery and precision criteria were met. It should be noted that the report narrative stated that perfluorodecanesulfonic acid was recovered outside of control limits in the associated LCS duplicate (LCSD) sample. However, review of the LCS summary form and LCS raw data showed all recoveries to be within control limits.

Internal Standards

All criteria were met.

Field Duplicate Results

Samples MW-06 and Blind Duplicate were submitted as the field duplicate pair with this sample group. The following table summarizes the RPDs of the detected analytes, which were within the acceptance criteria.

Analyte	MW-06 (ng/L)	Blind Duplicate (ng/L)	RPD (%)
Perfluorobutanoic acid (PFBA)	4.54	3.90	15.2
Perfluoropentanoic Acid (PFPeA)	2.63	2.83	7.3
Perfluorohexanoic Acid (PFHxA)	3.71	3.71	0
Perfluoroheptanoic Acid (PFHpA)	2.76	2.92	5.6
Perfluorohexanesulfonic acid (PFHxS)	9.69	12.8	27.7
Perfluorooctanoic acid (PFOA)	6.06	6.51	7.2
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	0.737 J	1.80 U	NC, Within the RL
Perfluorononanoic Acid (PFNA)	1.47 J	1.34 J	9.3
Perfluorooctanesulfonic Acid (PFOS)	18.1	21.7	18.1
Total PFOA/PFOS	24.2	28.2	15.3
NC – Not calculable Criteria: When both results are ≥5x the RL, RPDs must be <30%. Results < 5xRL, professional judgment was taken to qualify results if the absolute difference between the original and field duplicate > RL.			

Quantitation Limits

Results were reported which were below the reporting limit (RL)/quantitation limit (QL) and above the method detection limit (MDL). These results were qualified as estimated (J) by the laboratory.

Dilutions were not required.

Sample Quantitation and Compound Identification

Calculations were spot-checked; no discrepancies were noted.

DATA VALIDATION QUALIFIERS

U - The analyte was analyzed for, but due to blank contamination was flagged as nondetect (U). The result is usable as a nondetect.

J - Data are flagged (J) when a QC analysis fails outside the primary acceptance limits. The qualified "J" data are not excluded from further review or consideration. However, only one flag (J) is applied to a sample result, even though several associated QC analyses may fail. The 'J' data may be biased high or low or the direction of the bias may be indeterminable.

UJ - The analyte was not detected above the reported sample quantitation limit. Data are flagged (UJ) when a QC analysis fails outside the primary acceptance limits. The qualified "UJ" data are not excluded from further review or consideration. However, only one flag is applied to a sample result, even though several associated QC analyses may fail. The 'UJ' data may be biased low.

JN - The analysis indicates the presence of a compound that has been "tentatively identified" (N) and the associated numerical value represents its approximate (J) concentration.

R - Data rejected (R) on the basis of an unacceptable QC analysis should be excluded from further review or consideration. Data are rejected when associated QC analysis results exceed the expanded control limits of the QC criteria. The rejected data are known to contain significant errors based on documented information. The data user must not use the rejected data to make environmental decisions. The presence or absence of the analyte cannot be verified.

Attachment E

Investigation Derived Waste Lab Reports

PARADIGM

PARADIGM
ENVIRONMENTAL SERVICES, INC

Analytical Report For

Sun Environmental Corp.

For Lab Project ID

231219

Referencing

National Grid SIR Canal St. Canastota, NY

Prepared

Thursday, April 6, 2023

Any noncompliant QC parameters or other notes impacting data interpretation are flagged or documented on the final report or are noted below.

K R Hansen

Certifies that this report has been approved by the Technical Director or Designee

179 Lake Avenue • Rochester, NY 14608 • (585) 647-2530 • Fax (585) 647-3311 • ELAP ID# 10958

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

Lab Project ID: 231219

Client: **Sun Environmental Corp.**

Project Reference: National Grid SIR Canal St. Canastota, NY

Sample Identifier:	Drill Sludge		
Lab Sample ID:	231219-01	**Date Sampled:**	3/29/2023 11:34
Matrix:	Sludge	**Date Received**	3/30/2023

Ignitability

Analyte	Result	Units	Qualifier	Date Analyzed
Ignitability	No Burn	mm / sec		3/31/2023

Method Reference(s): EPA 1030

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 1.00	mg/Kg		4/3/2023 16:54
PCB-1221	< 1.00	mg/Kg		4/3/2023 16:54
PCB-1232	< 1.00	mg/Kg		4/3/2023 16:54
PCB-1242	< 1.00	mg/Kg		4/3/2023 16:54
PCB-1248	< 1.00	mg/Kg		4/3/2023 16:54
PCB-1254	< 1.00	mg/Kg		4/3/2023 16:54
PCB-1260	< 1.00	mg/Kg		4/3/2023 16:54
PCB-1262	< 1.00	mg/Kg		4/3/2023 16:54
PCB-1268	< 1.00	mg/Kg		4/3/2023 16:54

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Tetrachloro-m-xylene	**75.6**	12.7 - 101		4/3/2023 16:54

Method Reference(s): EPA 8082A
EPA 3546

Preparation Date: 4/3/2023

pH

Analyte	Result	Units	Qualifier	Date Analyzed
pH	7.88 @ 20.9 C	S.U.		3/31/2023 13:33

Method Reference(s): EPA 9045D

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 231219

Client: **Sun Environmental Corp.**

Project Reference: National Grid SIR Canal St. Canastota, NY

Sample Identifier:	Drill Sludge		
Lab Sample ID:	231219-01A	**Date Sampled:** 3/29/2023	11:34
Matrix:	TCLP Extract	**Date Received** 3/30/2023	

TCLP Semi-Volatile Organics

Analyte	Result	Units	Regulatory Limit	Qualifier	Date Analyzed
1,4-Dichlorobenzene	< 40.0	ug/L	7500		4/4/2023 08:18
2,4,5-Trichlorophenol	< 40.0	ug/L	400000		4/4/2023 08:18
2,4,6-Trichlorophenol	< 40.0	ug/L	2000		4/4/2023 08:18
2,4-Dinitrotoluene	< 40.0	ug/L	130		4/4/2023 08:18
Cresols (as m,p,o-Cresol)	< 80.0	ug/L	200000		4/4/2023 08:18
Hexachlorobenzene	< 40.0	ug/L	130		4/4/2023 08:18
Hexachlorobutadiene	< 40.0	ug/L	500		4/4/2023 08:18
Hexachloroethane	< 40.0	ug/L	3000		4/4/2023 08:18
Nitrobenzene	< 40.0	ug/L	2000		4/4/2023 08:18
Pentachlorophenol	< 80.0	ug/L	100000		4/4/2023 08:18
Pyridine	< 40.0	ug/L	5000		4/4/2023 08:18

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2,4,6-Tribromophenol	**91.1**	29.6 - 139		4/4/2023 08:18
2-Fluorobiphenyl	**81.7**	10 - 124		4/4/2023 08:18
2-Fluorophenol	**76.1**	10 - 122		4/4/2023 08:18
Nitrobenzene-d5	**81.9**	28.7 - 119		4/4/2023 08:18
Phenol-d5	**73.9**	10 - 115		4/4/2023 08:18
Terphenyl-d14	**88.2**	32.2 - 142		4/4/2023 08:18

Method Reference(s): EPA 8270D
EPA 1311 / 3510C
Preparation Date: 4/3/2023
Data File: B662981.D

TCLP Mercury

Analyte	Result	Units	Regulatory Limit	Qualifier	Date Analyzed
Mercury	<0.002	mg/L	0.2		4/5/2023

Method Reference(s): EPA 7470A
EPA 1311
Preparation Date: 4/5/2023
Subcontractor ELAP ID: 10709

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PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 231219

Client: **Sun Environmental Corp.**

Project Reference: National Grid SIR Canal St. Canastota, NY

Sample Identifier:	Drill Sludge		
Lab Sample ID:	231219-01A	**Date Sampled:** 3/29/2023	11:34
Matrix:	TCLP Extract	**Date Received** 3/30/2023	

TCLP RCRA Metals (ICP)

Analyte	Result	Units	Regulatory Limit	Qualifier	Date Analyzed
Arsenic	< 0.500	mg/L	5		4/4/2023 07:23
Barium	**1.04**	mg/L	100		4/4/2023 07:23
Cadmium	< 0.0250	mg/L	1		4/4/2023 07:23
Chromium	< 0.500	mg/L	5		4/4/2023 07:23
Lead	< 0.500	mg/L	5		4/4/2023 07:23
Selenium	< 0.200	mg/L	1		4/4/2023 07:23
Silver	< 0.500	mg/L	5		4/4/2023 07:23

Method Reference(s): EPA 6010C
EPA 1311 / 3005A
Preparation Date: 4/3/2023
Data File: 230404A

TCLP Volatile Organics

Analyte	Result	Units	Regulatory Limit	Qualifier	Date Analyzed
1,1-Dichloroethene	< 20.0	ug/L	700		3/31/2023 13:59
1,2-Dichloroethane	< 20.0	ug/L	500		3/31/2023 13:59
2-Butanone	< 100	ug/L	200000		3/31/2023 13:59
Benzene	**37.1**	ug/L	500		3/31/2023 13:59
Carbon Tetrachloride	< 20.0	ug/L	500		3/31/2023 13:59
Chlorobenzene	< 20.0	ug/L	100000		3/31/2023 13:59
Chloroform	< 20.0	ug/L	6000		3/31/2023 13:59
Tetrachloroethene	< 20.0	ug/L	700		3/31/2023 13:59
Trichloroethene	< 20.0	ug/L	500		3/31/2023 13:59
Vinyl chloride	< 20.0	ug/L	200		3/31/2023 13:59

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 231219

Client: **Sun Environmental Corp.**

Project Reference: National Grid SIR Canal St. Canastota, NY

Sample Identifier:	Drill Sludge		
Lab Sample ID:	231219-01A	**Date Sampled:** 3/29/2023	11:34
Matrix:	TCLP Extract	**Date Received** 3/30/2023	

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**103**	81.1 - 136		3/31/2023	13:59
4-Bromofluorobenzene	**97.1**	75.8 - 132		3/31/2023	13:59
Pentafluorobenzene	**98.5**	82 - 132		3/31/2023	13:59
Toluene-D8	**99.5**	64.6 - 137		3/31/2023	13:59

Method Reference(s): EPA 8260C
EPA 1311 / 5030C

Data File: z15915.D

Analytical Report Appendix

The reported results relate only to the samples as they have been received by the laboratory.

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All soil/sludge samples have been reported on a dry weight basis, unless qualified "reported as received". Other solids are reported as received.

Low level Volatiles blank reports for soil/solid matrix are based on a nominal 5 gram weight. Sample results and reporting limits are based on actual weight, which may be more or less than 5 grams.

The Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt. Sample condition requirements are defined under the 2003 NELAC Standard, sections 5.5.8.3.1 and 5.5.8.3.2.

NYSDOH ELAP does not certify for all parameters. Paradigm Environmental Services or the indicated subcontracted laboratory does hold certification for all analytes where certification is offered by ELAP unless otherwise specified. Aliquots separated for certain tests, such as TCLP, are indicated on the Chain of Custody and final reports with an "A" suffix.

Data qualifiers are used, when necessary, to provide additional information about the data. This information may be communicated as a flag or as text at the bottom of the report. Please refer to the following list of analyte-specific, frequently used data flags and their meaning:

"<" = Analyzed for but not detected at or above the quantitation limit.
"E" = Result has been estimated, calibration limit exceeded.
"H" = Denotes a parameter analyzed outside of holding time.
"Z" = See case narrative.
"D" = Sample, Laboratory Control Sample, or Matrix Spike Duplicate results above Relative Percent Difference limit.
"M" = Matrix spike recoveries outside QC limits. Matrix bias indicated.
"B" = Method blank contained trace levels of analyte. Refer to included method blank report.
"J" = Result estimated between the quantitation limit and half the quantitation limit.
"L" = Laboratory Control Sample recovery outside accepted QC limits.
"P" = Concentration differs by more than 40% between the primary and secondary analytical columns.
"NC" = Not calculable. Applicable to RPD if sample or duplicate result is non-detect or estimated (see primary report for data flags). Applicable to MS if sample is greater or equal to ten times the spike added. Applicable to sample surrogates or MS if sample dilution is 10x or higher.
"" = Indicates any recoveries outside associated acceptance windows. Surrogate outliers in samples are presumed matrix effects. LCS demonstrates method compliance unless otherwise noted.*
"(1)" = Indicates data from primary column used for QC calculation.
"A" = denotes a parameter for which ELAP does not offer approval as part of their laboratory certification program.
"F" = denotes a parameter for which Paradigm does not carry certification, the results for which should therefore only be used where ELAP certification is not required, such as personal exposure assessment.

GENERAL TERMS AND CONDITIONS
LABORATORY SERVICES

These Terms and Conditions embody the whole agreement of the parties in the absence of a signed and executed contract between the Laboratory (LAB) and Client. They shall supersede all previous communications, representations, or agreements, either verbal or written, between the parties. The LAB specifically rejects all additional, inconsistent, or conflicting terms, whether printed or otherwise set forth in any purchase order or other communication from the Client to the LAB. The invalidity or unenforceability in whole or in part of any provision, term or condition hereof shall not affect in any way the validity or enforceability of the remainder of the Terms and Conditions. No waiver by LAB of any provision, term, or condition hereof or of any breach by or obligation of the Client hereunder shall constitute a waiver of such provision, term, or condition on any other occasion or a waiver of any other breach by or obligation of the Client. This agreement shall be administered and interpreted under the laws of the state which services are procured.

Warranty. Recognizing that the nature of many samples is unknown and that some may contain potentially hazardous components, LAB warrants only that it will perform testing services, obtain findings, and prepare reports in accordance with generally accepted analytical laboratory principles and practices at the time of performance of services. LAB makes no other warranty, express or implied.

Scope and Compensation. LAB agrees to perform the services described in the chain of custody to which these terms and conditions are attached. Unless the parties agree in writing to the contrary, the duties of LAB shall not be construed to exceed the services specifically described. LAB wi use LAB default method for all tests unless specified otherwise on the Work Order.
Payment terms are net 30 days from the date of invoice. All overdue payments are subject to an interest charge of one and one-half percent (1-1/2%) per month or a portion thereof. Client shall also be responsible for costs of collection, including payment of reasonable attorney fees if such expense is incurred. The prices, unless stated, do not include any sale, use or other taxes. Such taxes will be added to invoice prices when required.

Prices. Compensation for services performed will be based on the current Lab Analytical Fee Schedule or on quotations agreed to in writing by the parties. Turnaround time based charges are determined from the time of resolution of all work order questions. Testimony, court appearances or data compilation for legal action will be charged separately. Evaluation and reporting of initial screening runs may incur additional fees.

Limitations of Liability. In the event of any error, omission, or other professional negligence, the sole and exclusive responsibility of LAB shall be to re-perform the deficient work at its own expense and LAB shall have no other liability whatsoever. All claims shall be deemed waived unless made in writing and received by LAB within ninety (90) days following completion of services.
LAB shall have no liability, obligation, or responsibility of any kind for losses, costs, expenses, or other damages (including but not limited to any special, direct, incidental or consequential damages) with respect to LAB's services or results.
All results provided by LAB are strictly for the use of its clients and LAB is in no way responsible for the use of such results by clients or third parties. All reports should be considered in their entirety, and LAB is not responsible for the separation, detachment, or other use of any portion of these reports. Client may not assign the lab report without the written consent of the LAB.
Client covenants and agrees, at its/his/her sole expense, to indemnify, protect, defend, and save harmless the LAB from and against any and all damages, losses, liabilities, obligations, penalties, claims, litigation, demands, defenses, judgments, suits, actions, proceedings, costs, disbursements and/or expenses (including, without limitation attorneys' and experts' fees and disbursements) of any kind whatsoever which may at any time be imposed upon, incurred by or asserted or awarded against client relating to, resulting from or arising out of (a) the breach of this agreement by this client, (b) the negligence of the client in handling, delivering or disclosing any hazardous substance, (c) the violation of the Client of any applicable law, (d) non-compliance by the Client with any environmental permit or (e) a material misrepresentation in disclosing the materials to be tested.

Hazard Disclosure. Client represents and warrants that any sample delivered to LAB will be preceded or accompanied by complete written disclosure of the presence of any hazardous substances known or suspected by Client. Client further warrants that any sample containing any hazardous substance that is to be delivered to LAB will be packaged, labeled, transported, and delivered properly and in accordance with applicable laws.

Sample Handling. Prior to LAB's acceptance of any sample (or after any revocation of acceptance), the entire risk of loss or of damage to such sample remains with Client. Samples are accepted when receipt is acknowledged on chain of custody documentation. In no event will LAB have any responsibility for the action or inaction of any carrier shipping or delivering any sample to or from LAB premises.
Client authorizes LAB to proceed with the analysis of samples as received by the laboratory, recognizing that any samples not in compliance with all current DOH-ELAP-NELAP requirements for containers, preservation or holding time will be noted as such on th final report.
Disposal of hazardous waste samples is the responsibility of the Client. If the Client does not wish such samples returned, LAB may add storage and disposal fees to the final invoice. Maximum storage time for samples is 30 days after completion of analysis unless modified by applicable state or federal laws. Client will be required to give the LAB written instructions concerning disposal of these samples.
LAB reserves the absolute right, exercisable at any time, to refuse to receive delivery of, refuse to accept, or revoke acceptance of any sample, which, in the sole judgment of LAB (a) is of unsuitable volume, (b) may be or become unsuitable for or may pose a risk in handling, transport, or processing for any health, safety, environmental or other reason whether or not due to the presence in the sample of any hazardous substance, and whether or not such presence has been disclosed to LAB by Client or (c) if the condition or sample date make the sample unsuitable for analysis.

Legal Responsibility. LAB is solely responsible for performance of this contract, and no affiliated company, director, officer, employee, or agent shall have any legal responsibility hereunder, whether in contract or tort including negligence.

Assignment. LAB may assign its performance obligations under this contract to other parties, as it deems necessary. LAB shall disclose to Client any assignee (subcontractor) by ELAP ID # on the submitted final report.

Force Majeure. LAB shall have no responsibility or liability to the Client for any failure or delay in performance by LAB, which results in whole or in part from any cause or circumstance beyond the reasonable control of LAB. Such causes and circumstances shall include, but not limited to, acts of God, acts or orders of any government authority, strikes or other labor disputes, natural disasters, accidents, wars, civil disturbances, difficulties or delays in transportation, mail or delivery services, inability to obtain sufficient services or supplies from LAB's usual suppliers, or any other cause beyond LAB's reasonable control.

Law. This contract shall be continued under the laws of the State of New York without regard to its conflicts of laws provision.

Sun Environmental Corp.

CHAIN OF CUSTODY RECORD

231219 1 of 2

Client Information				Purchase Number
Company Capitol Environmental		Contact Sue Swanson		Invoice Capitol Env. Directly
Address 200 Biddle Ave Suite 205		City, State, Zip Newark, DE 19702		
Phone 302-380-3737	Fax 302-861-3787	Email Sswanson@capitolenv.com		Site Address
Contact Information				
Company Sun Environmental Corp.		Contact Rob Notaro		National Grid SIR
Address 4655 Crossroads Park Drive		City, State, Zip Liverpool, NY 13088		Canal St.
Phone 315-218-6995	Fax 315-214-8598	Email robn@sunenc.com		Canastota, NY

Turn Around Time: 5 Day TAT

Matrix Codes: DW — Drinking Water; GW — Ground Water; OL — Oil; PC — Paint Chips; PR — Product; SD — Soil/Sludge/Solid; SW — Surface Water; WW — Waste Water

Remarks/Special Instructions: *** Use RCRA list analytes

Lab Use Only	Date	Time	Cmp	Grb	Mtx	Sampling Location/Sample ID	Number of Containers	Container Type/Preservative: Plastic / No Preservatives	Plastic / HNO_3	Plastic / H_2SO_4	Plastic / NaOH + Asc. Acid	Plastic/Glass / $Na_2S_2O_3$	Glass / No Preservatives	Glass / H_2SO_4	VOA / HCl	Other:	Analysis Requested: TCLP VOC's	TCLP SVOC's	TCLP Metals	PCB's DL 1.0 ppm per Mistel GP 3/30/23	Ignitability	PH
01A	03/29/23	11:34	X		SD	Drill Sludge	2						X				X	X	X	X	X	X
					Sludge per visual																	
A for TCLP extract.					GP 3/30/23																	
GP 3/30/23																						

Relinquished By:		Date 3/30/23	Time 8:32	Received By:	Date 3/30/23	Time 0832
Relinquished By:		Date	Time	Received By:	Date	Time
Relinquished By:		Date	Time	Received By:	Date 3/30/23	Time 12:08
Sampler Signature:		Date 3/29/23	Time 1530	Lab: **Paradigm**	Sample Receipt Temperature 4 °C	iced

3/30/23 1200

PARADIGM

Chain of Custody Supplement

Client: Sun **Completed by:** YH

Lab Project ID: 231219 **Date:** 3/30/23

Sample Condition Requirements

Per NELAC/ELAP 210/241/242/243/244

Condition	NELAC compliance with the sample condition requirements upon receipt Yes	No	N/A
Container Type	☑	☐	☐
Comments			
Transferred to method-compliant container	☐	☐	☒
Headspace (<1 mL)	☑ VOA TUP	☐	☒
Comments			
Preservation	☐	☐	☒
Comments			
Chlorine Absent (<0.10 ppm per test strip)	☐	☐	☒
Comments			
Holding Time	☒	☐	☐
Comments			
Temperature	☒	☐	☒ Met
Comments	4°C iced		
Compliant Sample Quantity/Type	☒	☐	☐
Comments			

179 Lake Avenue, Rochester, NY 14608 Office (585) 647-2530 Fax (585) 647-3311

230404024

NEC 1/1

CHAIN OF CUSTODY

ELAP ID: 1(

230404024 10

REPORT TO:		INVOICE TO:			
COMPANY:	Paradigm Environmental	COMPANY:	Same	LAB PROJECT #:	CLIENT PROJECT #
ADDRESS:		ADDRESS:			
CITY: STATE: ZIP:		CITY: STATE: ZIP:		TURNAROUND TIME: (WORKING DAYS)	
PHONE: FAX:		PHONE: FAX:			STD
PROJECT NAME/SITE NAME:		ATTN:	Reporting	ATTN: Accounts Payable	☐ 1 ☒ 2 ☐ 3 ☐ 5
		COMMENTS:	Please email results to reporting@paradigmenv.com	Date Due:	4/6/23

REQUESTED ANALYSIS

	DATE	TIME	COMPOSITE	GRAB	SAMPLE LOCATION/FIELD ID	MATRIX	NUMBER OF CONTAINERS	7470 Hg									REMARKS	PARADIGM LAB SAMPLE NUMBER
1	3/29/23	1134	X		231219-01A	TCLP Ext	1	X										
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		

LAB USE ONLY BELOW THIS LINE

Sample Condition: Per NELAC/ELAP 210/241/242/243/244

Receipt Parameter	NELAC Compliance	
Container Type:	Y ☐	N ☐
Comments:		
Preservation:	Y ☐	N ☐
Comments:		
Holding Time:	Y ☐	N ☐
Comments:		
Temperature:	Y ☐	N ☐
Comments:		

Client

Sampled By	Date/Time	
[signature]	@ 0830	4/4/23
Relinquished By	Date/Time	
[signature]	4/4/23	11:20am
Received By	Date/Time	
[signature]	4/4	4:30
Received @ Lab By	Date/Time	

Total Cost: ☐

P.I.F. ☐

PARADIGM

PARADIGM
ENVIRONMENTAL SERVICES, INC

Analytical Report For

Sun Environmental Corp.

For Lab Project ID

231220

Referencing

National Grid SIR Canal St. Canastota, NY

Prepared

Thursday, April 6, 2023

Any noncompliant QC parameters or other notes impacting data interpretation are flagged or documented on the final report or are noted below.

Certifies that this report has been approved by the Technical Director or Designee

179 Lake Avenue • Rochester, NY 14608 • (585) 647-2530 • Fax (585) 647-3311 • ELAP ID# 10958

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PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 231220

Client: **Sun Environmental Corp.**

Project Reference: National Grid SIR Canal St. Canastota, NY

Sample Identifier:	Purge Water		
Lab Sample ID:	231220-01	**Date Sampled:** 3/29/2023	11:09
Matrix:	Water	**Date Received** 3/30/2023	

Flash Point

Analyte	Result	Units	Qualifier	Date Analyzed
Flash Point, Celsius	>70.0	C		4/4/2023

Method Reference(s): EPA 1010A

ELAP does not offer this test for approval as part of their laboratory certification program.

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	<0.0002	mg/L		4/5/2023

Method Reference(s): EPA 7470A
Preparation Date: 4/5/2023
Subcontractor ELAP ID: 10709

RCRA Metals (ICP)

Analyte	Result	Units	Qualifier	Date Analyzed
Arsenic	< 0.0100	mg/L		4/4/2023 08:30
Barium	**0.317**	mg/L		4/4/2023 08:30
Cadmium	< 0.00500	mg/L		4/4/2023 08:30
Chromium	< 0.0100	mg/L		4/4/2023 08:30
Lead	< 0.0100	mg/L		4/4/2023 08:30
Selenium	< 0.0200	mg/L		4/4/2023 08:30
Silver	< 0.0100	mg/L		4/4/2023 08:30

Method Reference(s): EPA 6010C
EPA 3005A
Preparation Date: 4/3/2023
Data File: 230404A

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 1.00	ug/L		4/4/2023 13:00
PCB-1221	< 1.00	ug/L		4/4/2023 13:00
PCB-1232	< 1.00	ug/L		4/4/2023 13:00

Sample Identifier: Purge Water
Lab Sample ID: 231220-01 **Date Sampled:** 3/29/2023 11:09
Matrix: Water **Date Received** 3/30/2023

PCB-1242	< 1.00	ug/L		4/4/2023 13:00
PCB-1248	< 1.00	ug/L		4/4/2023 13:00
PCB-1254	< 1.00	ug/L		4/4/2023 13:00
PCB-1260	< 1.00	ug/L		4/4/2023 13:00
PCB-1262	< 1.00	ug/L		4/4/2023 13:00
PCB-1268	< 1.00	ug/L		4/4/2023 13:00

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Tetrachloro-m-xylene	**48.4**	10 - 133		4/4/2023 13:00

Method Reference(s): EPA 8082A
EPA 3510C
Preparation Date: 4/3/2023

pH

Analyte	Result	Units	Qualifier	Date Analyzed
pH	8.74 @ 17.8 C	S.U.		3/30/2023 13:22

Method Reference(s): SM22 4500 H+ B

ELAP does not offer this test for approval as part of their laboratory certification program.

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,4-Dichlorobenzene	< 50.0	ug/L		4/4/2023 16:13
2,4,5-Trichlorophenol	< 50.0	ug/L		4/4/2023 16:13
2,4,6-Trichlorophenol	< 50.0	ug/L		4/4/2023 16:13
2,4-Dinitrotoluene	< 50.0	ug/L		4/4/2023 16:13
2-Methylphenol	< 50.0	ug/L		4/4/2023 16:13
3&4-Methylphenol	< 50.0	ug/L		4/4/2023 16:13
Hexachlorobenzene	< 50.0	ug/L		4/4/2023 16:13
Hexachlorobutadiene	< 50.0	ug/L		4/4/2023 16:13
Hexachloroethane	< 50.0	ug/L		4/4/2023 16:13
Nitrobenzene	< 50.0	ug/L		4/4/2023 16:13
Pentachlorophenol	< 100	ug/L		4/4/2023 16:13
Pyridine	< 50.0	ug/L		4/4/2023 16:13

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 231220

Client: **Sun Environmental Corp.**

Project Reference: National Grid SIR Canal St. Canastota, NY

Sample Identifier: Purge Water
Lab Sample ID: 231220-01 **Date Sampled:** 3/29/2023 11:09
Matrix: Water **Date Received** 3/30/2023

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2,4,6-Tribromophenol	**57.0**	29.6 - 139		4/4/2023 16:13
2-Fluorobiphenyl	**29.6**	10 - 124		4/4/2023 16:13
2-Fluorophenol	**27.1**	10 - 122		4/4/2023 16:13
Nitrobenzene-d5	**41.4**	28.7 - 119		4/4/2023 16:13
Phenol-d5	**18.9**	10 - 115		4/4/2023 16:13
Terphenyl-d14	**59.1**	32.2 - 142		4/4/2023 16:13

Method Reference(s): EPA 8270D
EPA 3510C
Preparation Date: 4/4/2023
Data File: B662991.D

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Dichloroethene	< 2.00	ug/L		3/31/2023 14:37
1,2-Dichloroethane	< 2.00	ug/L		3/31/2023 14:37
2-Butanone	< 10.0	ug/L		3/31/2023 14:37
Benzene	**11.4**	ug/L		3/31/2023 14:37
Carbon Tetrachloride	< 2.00	ug/L		3/31/2023 14:37
Chlorobenzene	< 2.00	ug/L	M	3/31/2023 14:37
Chloroform	< 2.00	ug/L		3/31/2023 14:37
Tetrachloroethene	< 2.00	ug/L		3/31/2023 14:37
Trichloroethene	< 2.00	ug/L		3/31/2023 14:37
Vinyl chloride	< 2.00	ug/L		3/31/2023 14:37

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	**106**	81.1 - 136		3/31/2023 14:37
4-Bromofluorobenzene	**95.7**	75.8 - 132		3/31/2023 14:37
Pentafluorobenzene	**96.2**	82 - 132		3/31/2023 14:37
Toluene-D8	**99.2**	64.6 - 137		3/31/2023 14:37

Method Reference(s): EPA 8260C
EPA 5030C
Data File: z15917.D

PARADIGM ENVIRONMENTAL SERVICES, INC.

Method Blank Report

Client: **Sun Environmental Corp.**

Project Reference: National Grid SIR Canal St. Canastota, NY

Lab Project ID: 231220

Matrix: Water

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Dichloroethene	<2.00	ug/L		3/31/2023 11:37
1,2-Dichloroethane	<2.00	ug/L		3/31/2023 11:37
2-Butanone	<10.0	ug/L		3/31/2023 11:37
Benzene	<1.00	ug/L		3/31/2023 11:37
Carbon Tetrachloride	<2.00	ug/L		3/31/2023 11:37
Chlorobenzene	<2.00	ug/L		3/31/2023 11:37
Chloroform	<2.00	ug/L		3/31/2023 11:37
Tetrachloroethene	<2.00	ug/L		3/31/2023 11:37
Trichloroethene	<2.00	ug/L		3/31/2023 11:37
Vinyl chloride	<2.00	ug/L		3/31/2023 11:37

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	**105**	81.1 - 136		3/31/2023 11:37
4-Bromofluorobenzene	**92.5**	75.8 - 132		3/31/2023 11:37
Pentafluorobenzene	**101**	82 - 132		3/31/2023 11:37
Toluene-D8	**99.3**	64.6 - 137		3/31/2023 11:37

Method Reference(s): EPA 8260C
EPA 5030C

Data File: z15908.D

QC Batch ID: voaw230331

QC Number: Blk 1

PARADIGM ENVIRONMENTAL SERVICES, INC.

QC Report for Laboratory Control Sample

Client: **Sun Environmental Corp.**

Project Reference: National Grid SIR Canal St. Canastota, NY

Lab Project ID: 231220

Matrix: Water

Volatile Organics

Analyte	Spike Added	Spike Units	LCS Result	LCS % Recovery	% Rec Limits	LCS Outliers	Date Analyzed
1,1-Dichloroethene	20.0	ug/L	19.3	96.4	65.5 - 116		3/31/2023
1,2-Dichloroethane	20.0	ug/L	19.7	98.6	78.3 - 122		3/31/2023
Benzene	20.0	ug/L	18.7	93.6	81.6 - 114		3/31/2023
Carbon Tetrachloride	20.0	ug/L	19.4	97.0	76.4 - 129		3/31/2023
Chlorobenzene	20.0	ug/L	19.6	97.9	77.2 - 106		3/31/2023
Chloroform	20.0	ug/L	19.0	95.1	84.5 - 122		3/31/2023
Tetrachloroethene	20.0	ug/L	19.5	97.3	64.4 - 130		3/31/2023
Trichloroethene	20.0	ug/L	20.4	102	73.4 - 122		3/31/2023
Vinyl chloride	20.0	ug/L	21.5	107	50.9 - 164		3/31/2023

Method Reference(s): EPA 8260C
EPA 5030C

Data File: z15907.D

QC Number: LCS 1

QC Batch ID: voaw230331

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

Report Prepared Thursday, April 6, 2023

PARADIGM ENVIRONMENTAL SERVICES, INC.

QC Report for Matrix Spike and Matrix Spike Duplicate

Client: **Sun Environmental Corp.** **Lab Project ID:** 231220

Project Reference: National Grid SIR Canal St. Canastota, NY

Lab Sample ID: 231220-01 **Date Sampled:** 3/29/2023
Sample Identifier: Purge Water **Date Received:** 3/30/2023
Matrix: Water **Date Analyzed:** 3/31/2023

Volatile Organics

Analyte	Sample Result	Result Units	MS Added	MS Result	MS % Recovery	MSD Added	MSD Result	MSD % Recovery	% Rec. Limits	MS Outlier	MSD Outlier	Relative % Diff.	RPD Limit	RPD Outlier
1,1-Dichloroethene	< 2.00	ug/L	50.0	52.8	106	50.0	55.7	111	65.5 - 116			5.27	35.4	
1,2-Dichloroethane	< 2.00	ug/L	50.0	50.1	100	50.0	49.5	99.1	78.3 - 122			1.07	20.2	
Benzene	**11.4**	ug/L	50.0	60.4	97.9	50.0	62.8	103	81.6 - 114			4.78	15	
Carbon Tetrachloride	< 2.00	ug/L	50.0	53.2	106	50.0	55.8	112	76.4 - 129			4.84	26.6	
Chlorobenzene	< 2.00	ug/L	50.0	50.4	101	50.0	53.1	106	77.2 - 106		*	5.27	16.4	
Chloroform	< 2.00	ug/L	50.0	50.3	101	50.0	51.3	103	84.5 - 122			1.93	18.3	
Tetrachloroethene	< 2.00	ug/L	50.0	51.4	103	50.0	54.5	109	64.4 - 130			5.92	25.9	
Trichloroethene	< 2.00	ug/L	50.0	52.9	106	50.0	55.9	112	73.4 - 122			5.60	23.9	
Vinyl chloride	< 2.00	ug/L	50.0	59.1	118	50.0	62.5	125	50.9 - 164			5.58	49.5	

Method Reference(s): EPA 8260C
EPA 5030C

Data File(s): z15921.D
z15922.D
z15917.D
1

QC Batch ID: voaw230331

Any estimated values are displayed, and derived values calculated, based on numeric result only. See primary analytical report for data flags.

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

Report Prepared Thursday, April 6, 2023

Analytical Report Appendix

The reported results relate only to the samples as they have been received by the laboratory.

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All soil/sludge samples have been reported on a dry weight basis, unless qualified "reported as received". Other solids are reported as received.

Low level Volatiles blank reports for soil/solid matrix are based on a nominal 5 gram weight. Sample results and reporting limits are based on actual weight, which may be more or less than 5 grams.

The Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt. Sample condition requirements are defined under the 2003 NELAC Standard, sections 5.5.8.3.1 and 5.5.8.3.2.

NYSDOH ELAP does not certify for all parameters. Paradigm Environmental Services or the indicated subcontracted laboratory does hold certification for all analytes where certification is offered by ELAP unless otherwise specified. Aliquots separated for certain tests, such as TCLP, are indicated on the Chain of Custody and final reports with an "A" suffix.

Data qualifiers are used, when necessary, to provide additional information about the data. This information may be communicated as a flag or as text at the bottom of the report. Please refer to the following list of analyte-specific, frequently used data flags and their meaning:

"<" = Analyzed for but not detected at or above the quantitation limit.
"E" = Result has been estimated, calibration limit exceeded.
"H" = Denotes a parameter analyzed outside of holding time.
"Z" = See case narrative.
"D" = Sample, Laboratory Control Sample, or Matrix Spike Duplicate results above Relative Percent Difference limit.
"M" = Matrix spike recoveries outside QC limits. Matrix bias indicated.
"B" = Method blank contained trace levels of analyte. Refer to included method blank report.
"J" = Result estimated between the quantitation limit and half the quantitation limit.
"L" = Laboratory Control Sample recovery outside accepted QC limits.
"P" = Concentration differs by more than 40% between the primary and secondary analytical columns.
"NC" = Not calculable. Applicable to RPD if sample or duplicate result is non-detect or estimated (see primary report for data flags). Applicable to MS if sample is greater or equal to ten times the spike added. Applicable to sample surrogates or MS if sample dilution is 10x or higher.
"" = Indicates any recoveries outside associated acceptance windows. Surrogate outliers in samples are presumed matrix effects. LCS demonstrates method compliance unless otherwise noted.*
"(1)" = Indicates data from primary column used for QC calculation.
"A" = denotes a parameter for which ELAP does not offer approval as part of their laboratory certification program.
"F" = denotes a parameter for which Paradigm does not carry certification, the results for which should therefore only be used where ELAP certification is not required, such as personal exposure assessment.

GENERAL TERMS AND CONDITIONS
LABORATORY SERVICES

These Terms and Conditions embody the whole agreement of the parties in the absence of a signed and executed contract between the Laboratory (LAB) and Client. They shall supersede all previous communications, representations, or agreements, either verbal or written, between the parties. The LAB specifically rejects all additional, inconsistent, or conflicting terms, whether printed or otherwise set forth in any purchase order or other communication from the Client to the LAB. The invalidity or unenforceability in whole or in part of any provision, term or condition hereof shall not affect in any way the validity or enforceability of the remainder of the Terms and Conditions. No waiver by LAB of any provision, term, or condition hereof or of any breach by or obligation of the Client hereunder shall constitute a waiver of such provision, term, or condition on any other occasion or a waiver of any other breach by or obligation of the Client. This agreement shall be administered and interpreted under the laws of the state which services are procured.

Warranty. Recognizing that the nature of many samples is unknown and that some may contain potentially hazardous components, LAB warrants only that it will perform testing services, obtain findings, and prepare reports in accordance with generally accepted analytical laboratory principles and practices at the time of performance of services. LAB makes no other warranty, express or implied.

Scope and Compensation. LAB agrees to perform the services described in the chain of custody to which these terms and conditions are attached. Unless the parties agree in writing to the contrary, the duties of LAB shall not be construed to exceed the services specifically described. LAB wi use LAB default method for all tests unless specified otherwise on the Work Order.
Payment terms are net 30 days from the date of invoice. All overdue payments are subject to an interest charge of one and one-half percent (1-1/2%) per month or a portion thereof. Client shall also be responsible for costs of collection, including payment of reasonable attorney fees if such expense is incurred. The prices, unless stated, do not include any sale, use or other taxes. Such taxes will be added to invoice prices when required.

Prices. Compensation for services performed will be based on the current Lab Analytical Fee Schedule or on quotations agreed to in writing by the parties. Turnaround time based charges are determined from the time of resolution of all work order questions. Testimony, court appearances or data compilation for legal action will be charged separately. Evaluation and reporting of initial screening runs may incur additional fees.

Limitations of Liability. In the event of any error, omission, or other professional negligence, the sole and exclusive responsibility of LAB shall be to re-perform the deficient work at its own expense and LAB shall have no other liability whatsoever. All claims shall be deemed waived unless made in writing and received by LAB within ninety (90) days following completion of services.
LAB shall have no liability, obligation, or responsibility of any kind for losses, costs, expenses, or other damages (including but not limited to any special, direct, incidental or consequential damages) with respect to LAB's services or results.
All results provided by LAB are strictly for the use of its clients and LAB is in no way responsible for the use of such results by clients or third parties. All reports should be considered in their entirety, and LAB is not responsible for the separation, detachment, or other use of any portion of these reports. Client may not assign the lab report without the written consent of the LAB.
Client covenants and agrees, at its/his/her sole expense, to indemnify, protect, defend, and save harmless the LAB from and against any and all damages, losses, liabilities, obligations, penalties, claims, litigation, demands, defenses, judgments, suits, actions, proceedings, costs, disbursements and/or expenses (including, without limitation attorneys' and experts' fees and disbursements) of any kind whatsoever which may at any time be imposed upon, incurred by or asserted or awarded against client relating to, resulting from or arising out of (a) the breach of this agreement by this client, (b) the negligence of the client in handling, delivering or disclosing any hazardous substance, (c) the violation of the Client of any applicable law, (d) non-compliance by the Client with any environmental permit or (e) a material misrepresentation in disclosing the materials to be tested.

Hazard Disclosure. Client represents and warrants that any sample delivered to LAB will be preceded or accompanied by complete written disclosure of the presence of any hazardous substances known or suspected by Client. Client further warrants that any sample containing any hazardous substance that is to be delivered to LAB will be packaged, labeled, transported, and delivered properly and in accordance with applicable laws.

Sample Handling. Prior to LAB's acceptance of any sample (or after any revocation of acceptance), the entire risk of loss or of damage to such sample remains with Client. Samples are accepted when receipt is acknowledged on chain of custody documentation. In no event will LAB have any responsibility for the action or inaction of any carrier shipping or delivering any sample to or from LAB premises.
Client authorizes LAB to proceed with the analysis of samples as received by the laboratory, recognizing that any samples not in compliance with all current DOH-ELAP-NELAP requirements for containers, preservation or holding time will be noted as such on th final report.
Disposal of hazardous waste samples is the responsibility of the Client. If the Client does not wish such samples returned, LAB may add storage and disposal fees to the final invoice. Maximum storage time for samples is 30 days after completion of analysis unless modified by applicable state or federal laws. Client will be required to give the LAB written instructions concerning disposal of these samples.
LAB reserves the absolute right, exercisable at any time, to refuse to receive delivery of, refuse to accept, or revoke acceptance of any sample, which, in the sole judgment of LAB (a) is of unsuitable volume, (b) may be or become unsuitable for or may pose a risk in handling, transport, or processing for any health, safety, environmental or other reason whether or not due to the presence in the sample of any hazardous substance, and whether or not such presence has been disclosed to LAB by Client or (c) if the condition or sample date make the sample unsuitable for analysis.

Legal Responsibility. LAB is solely responsible for performance of this contract, and no affiliated company, director, officer, employee, or agent shall have any legal responsibility hereunder, whether in contract or tort including negligence.

Assignment. LAB may assign its performance obligations under this contract to other parties, as it deems necessary. LAB shall disclose to Client any assignee (subcontractor) by ELAP ID # on the submitted final report.

Force Majeure. LAB shall have no responsibility or liability to the Client for any failure or delay in performance by LAB, which results in whole or in part from any cause or circumstance beyond the reasonable control of LAB. Such causes and circumstances shall include, but not limited to, acts of God, acts or orders of any government authority, strikes or other labor disputes, natural disasters, accidents, wars, civil disturbances, difficulties or delays in transportation, mail or delivery services, inability to obtain sufficient services or supplies from LAB's usual suppliers, or any other cause beyond LAB's reasonable control.

Law. This contract shall be continued under the laws of the State of New York without regard to its conflicts of laws provision.

Sun Environmental Corp.

CHAIN OF CUSTODY RECORD

231220

1 of 2

Client Information				Purchase Number
Company: Capitol Environmental		Contact: Sue Swanson		Invoice Capitol Env. Directly
Address: 200 Biddle Ave Suite 205		City, State, Zip: Newark, DE 19702		
Phone: 302-380-3737	Fax: 302-861-3787	Email: Sswanson@capitolenv.com		Site Address
Contact Information				
Company: Sun Environmental Corp.		Contact: Rob Notaro		National Grid SIR
Address: 4655 Crossroads Park Drive		City, State, Zip: Liverpool, NY 13088		Canal St.
Phone: 315-218-6995	Fax: 315-214-8598	Email: robn@sunenc.com		Canastota, NY

Turn Around Time: 5 Day TAT

Matrix Codes: DW — Drinking Water; GW — Ground Water; OL — Oil; PC — Paint Chips; PR — Product; SD — Soil/Sludge/Solid; SW — Surface Water; WW — Waste Water

Remarks/Special Instructions: * Use RCRA List; Run all parameters for totals

Lab Use Only	Date	Time	Cmp	Grb	Mtx	Sampling Location/Sample ID	Number of Containers	Plastic / No Preservatives	Plastic / HNO_3	Plastic / H_2SO_4	Plastic / NaOH + Asc. Acid	Plastic/Glass / $Na_2S_2O_3$	Glass / No Preservatives	Glass / H_2SO_4	VOA / HCl	Other:	pH	PCB DL 1.0 ppb per matrix 6P 3/30/23	VOC*	SVOC*	RCRA Metals*	Flashpoint
01	03/29/23	11:09	X		W	Purge Water	7		X				X		X		X	X	X	X	X	X

Relinquished By:	Date 3/30/23	Time 8:32	Received By:	Date 3/30/23 Time 0832
Relinquished By:	Date	Time	Received By:	Date Time
Relinquished By:	Date	Time	Received By:	Date 3/30/23 Time 12:09
Sampler Signature:	Date 3/29/23	Time 1:30	Lab: **Paradigm**	Sample Receipt Temperature 4 °C iced

3/30/23 1200

PARADIGM

Chain of Custody Supplement

Client: Sun **Completed by:** ZF

Lab Project ID: 231220 **Date:** 3/30/23

Sample Condition Requirements

Per NELAC/ELAP 210/241/242/243/244

Condition	NELAC compliance with the sample condition requirements upon receipt Yes	No	N/A
Container Type	X		
Comments			
Transferred to method-compliant container			X
Headspace (<1 mL)	X VOA		X
Comments			
Preservation	X Met VOA		X
Comments			
Chlorine Absent (<0.10 ppm per test strip)			X
Comments			
Holding Time	X	X pH	
Comments			
Temperature	X 4°C read		X pH Met
Comments			
Compliant Sample Quantity/Type	X		
Comments			

179 Lake Avenue, Rochester, NY 14608 Office (585) 647-2530 Fax (585) 647-3311

230404026

NEC 1/1

CHAIN OF CUSTODY

ELAP ID: 1

PARADIGM ENVIRONMENTAL SERVICES, INC.

REPORT TO:		INVOICE TO:			
COMPANY:	Paradigm Environmental	COMPANY:	Same	LAB PROJECT #:	CLIENT PROJECT
ADDRESS:		ADDRESS:			
CITY: STATE: ZIP:		CITY: STATE: ZIP:		TURNAROUND TIME: (WORKING DAYS)	
PHONE: FAX:		PHONE: FAX:			STD
PROJECT NAME/SITE NAME:		ATTN:	Reporting	ATTN: Accounts Payable	☐ 1 ☒ 2 ☐ 3 ☐ 5
		COMMENTS:	Please email results to reporting@paradigmenv.com	Date Due:	4/6/23

REQUESTED ANALYSIS

	DATE	TIME	COMPOSITE	GRAB	SAMPLE LOCATION/FIELD ID	MATRIX	NUMBER OF CONTAINERS	7470 Hg										REMARKS	PARADIGM LAB SAMPLE NUMBER
1	3/24/23	1109	X		231220-01	Water	1	X											
2																			
3																			
4																			
5																			
6																			
7																			
8																			
9																			
10																			

****LAB USE ONLY BELOW THIS LINE****

Sample Condition: Per NELAC/ELAP 210/241/242/243/244

Receipt Parameter	NELAC Compliance	
Container Type:	Y ☐	N ☐
Comments:		
Preservation:	Y ☐	N ☐
Comments:		
Holding Time:	Y ☐	N ☐
Comments:		
Temperature:	Y ☐	N ☐
Comments:		

Client

Sampled By	Date/Time	
[signature]	@ 0830	4/4/23
Relinquished By	Date/Time	
Emma Caine	4/4/23	11:20am
Received By	Date/Time	
[signature]	4/4	4:30
Received @ Lab By	Date/Time	

Total Cost:

P.I.F.

230404026 12

Demo

Attachment F

CAMP Monitoring Results

Table 1. Daily Maximum Average Concentrations of TVOC and PM-10
Canastota Former MGP
NYSEG
Canastota, NY

		TVOC (ppm)		PM-10 (ug/m³)	
Alert Level		3.7		100	
Action Level		5.0		150	
Date		**Upwind**	**Downwind**	**Upwind**	**Downwind**
Mon	9/5/2022	No work performed			
Tues	9/6/2022	0.1	0.4	3	4
Wed	9/7/2022	0.0	1.0	4	60
Thurs	9/8/2022	0.4	0.9	22	29
Fri	9/9/2022	0.3	0.2	12	396
Sat	9/10/2022	*No work performed*			
Sun	9/11/2022	*No work performed*			
Mon	9/12/2022	0.4	0.1	5	11
Tue	9/13/2022	*No work performed*			
Wed	9/14/2022	0.0	0.6	17	21
Thu	9/15/2022	0.4	0.1	3	2
Fri	9/16/2022	0.2	0.0	3	20
Sat	9/17/2022	*No work performed*			
Sun	9/18/2022	*No work performed*			
Mon	9/19/2022	0.4	0.5	27	36
Tue	9/20/2022	0.5	1.3	12	15
Wed	9/21/2022	0.8	0.1	18	23
Thu	9/22/2022	*No work performed*			
Fri	9/23/2022	*No work performed*			
Sat	9/24/2022	*No work performed*			
Sun	9/25/2022	*No work performed*			
Mon	9/26/2022	0.0	0.3	7	6
Tue	9/27/2022	0.0	0.2	18	6
Wed	9/28/2022	0.2	0.1	2	6
Thu	9/29/2022	0.1	0.0	2	6
Fri	9/30/2022	0.1	0.0	5	6
Sat	10/1/2022	*No work performed*			
Sun	10/2/2022	*No work performed*			
Mon	10/3/2022	0.2	0.0	8	15
Break in work					
Mon	12/5/2022	0.0	3.6	5	5
Tue	12/6/2022	0.0	36.5	63	45
Wed	12/7/2022	4.1	21.3	108	71
Thu	12/8/2022	0.5	0.0	14	18
Fri	12/9/2022	0.5	1.6	6	6
Sat	12/10/2022	*No work performed*			
Sun	12/11/2022	*No work performed*			
Mon	12/12/2022	0.0	1.7	15	14
Tue	12/13/2022	0.2	0.7	19	30
Wed	12/14/2022	0.6	0.6	2	52

Notes:
ug/m^3 = micrograms per cubic meter
ppm = parts per million by volume
TVOC = total volatile organic compounds
PM-10 = particulate matter (i.e. dust) less than 10 microns in diameter

Table 2. Daily Maximum Average Concentrations of TVOC and PM-10
Canastota Former MGP
NYSEG
Canastota, NY

Parameter	Date	Time	Location	Wind Condition	Concentration Range	Comment/Explanation
PM10 (ug/m3)	9/9/2022	9:50 AM	DW	~3 mph from ENE	396	PM10 was measured above the 15-minute Action Level of 150 ug/m3 at the Downwind station on September 9, 2022 9:50am. During this time, the contractor was observed doing vacuum excavating SB-114, however plumes of dust were not observed in the area. Measured PM10 concentrations fell below the Action Level without intervention.
TVOC (ppm)	12/6/2022	11:45 -16:15	DW	~3 mph from ENE	5.49-36.47	TVOCs were measured above the 15-minute Action Limit of 5 ppm at DW station on December 6, 2022 between 1145 and 1615 hours. During this time, humid conditions were observed, and it had been raining throughout the work day.
TVOC (ppm)	12/7/2022	8:45 AM	DW	~2 mph from W	21.25	TVOCs were measured above the 15-minute Action Limit of 5.0 ppm at the DW station on December 7, 2022 between 8:45 and 9:00. During the day, rain and elevated humidity were observed. Measured TVOC concentrations fell below the Action Level without intervention.

Notes:
ug/m^3 = micrograms per cubic meter
ppm = parts per million by volume
TVOC = total volatile organic compounds
PM-10 = particulate matter (i.e. dust) less than 10 microns in diameter

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Canastota Former MGP PDI
Canastota, NY

Daily CAMP Report

System Operations		General Observations
Sampling Date	9/6/2022	General Weather Conditions
System Start Time	11:20:00 AM	Cloudy, slight rain, mid-60's F
System Stop Time	4:20:00 PM	
Total Hours Monitored	5:00	General Description of Site Activities:
		Setting up equipment, saw cutting, and excavating test pits
System Calibrations	YES	CAMP station locations: DW station @ NW corner of Site activities, UW station @ SE corner of Site activities
(Time)	10:30:00 AM	
(Status)	Pass	

System Alarm Log

Time	Station No.	Alarm (Dust, VOC)	Location (UW, CW, DW)	Dust/TVOC/Odor 15-min avg conc. Range	Total # of Alarms	Notes	Site Person/Time Notified
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Notes:
No recorded exceedances

	Particulate (15-min)	TVOC (15-min)
Response Limit:	100 ug/m^3	3.7 ppm
Action Limit:	150 ug/m^3	5.0 ppm
Stop-Work Limit:	N/A	25 ppm

Notes:

UW - Upwind
CW - Crosswind
DW - Downwind

P - Particulate/ Dust
Particulate recorded in ug/m^3
V - Total VOC
Total VOC measured in ppm

Field Representative: Breana Pabst
Date: 9/6/2022

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Canastota, NY

Daily CAMP Report

System Operations		General Observations
Sampling Date	9/7/2022	General Weather Conditions
System Start Time	8:30:00 AM	Cloudy, slight rain, low-60's to 70's °F
System Stop Time	3:35:00 PM	
Total Hours Monitored	7:05	General Description of Site Activities:
		Saw cutting, backhoe excavation of test pits
System Calibrations	YES	CAMP station locations: DW station @ N corner of Site activities, UW station @ S corner of Site activities
(Time)	7:50:00 AM	
(Status)	Pass	

System Alarm Log

Time	Station No.	Alarm (Dust, VOC)	Location (UW, CW, DW)	Dust/TVOC/Odor 15-min avg conc. Range	Total # of Alarms	Notes	Site Person/Time Notified
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Notes:
No recorded exceedances

	Particulate (15-min)	TVOC (15-min)
Response Limit:	100 ug/m^3	3.7 ppm
Action Limit:	150 ug/m^3	5.0 ppm
Stop-Work Limit:	N/A	25 ppm

Notes:

UW - Upwind
CW - Crosswind
DW - Downwind

P - Particulate/ Dust
Particulate recorded in ug/m^3
V - Total VOC
Total VOC measured in ppm

Field Representative: Breana Pabst
Date: 9/7/2022

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Daily CAMP Report

System Operations	
Sampling Date	9/8/2022
System Start Time	8:40:00 AM
System Stop Time	2:15:00 PM
Total Hours Monitored	5:35
System Calibrations	YES
(Time)	8:30:00 AM
(Status)	Pass

General Observations

General Weather Conditions

Cloudy mid 60's - 70's °F

General Description of Site Activities:

Vacuum excavating test pits and borings, and saw cutting new locations
CAMP station locations: DW station @ S corner of Site activities, UW station @ N corner of Site activities

System Alarm Log

Time	Station No.	Alarm (Dust, VOC)	Location (UW, CW, DW)	Dust/TVOC/Odor 15-min avg conc. Range	Total # of Alarms	Notes	Site Person/Time Notified
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Notes:

No recorded exceedances

	Particulate (15-min)	TVOC (15-min)
Response Limit:	100 ug/m^3	3.7 ppm
Action Limit:	150 ug/m^3	5.0 ppm
Stop-Work Limit:	N/A	25 ppm

Notes:

UW - Upwind
CW - Crosswind
DW - Downwind

P - Particulate/ Dust
Particulate recorded in ug/m^3
V - Total VOC
Total VOC measured in ppm

Field Representative: Breana Pabst
Date: 9/8/2022

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Daily CAMP Report

System Operations		General Observations
Sampling Date	9/9/2022	General Weather Conditions
System Start Time	7:50:00 AM	Foggy low 60's °F in the am to sunny 80's °F in the pm
System Stop Time	2:10:00 PM	
Total Hours Monitored	6:20	General Description of Site Activities:
		Vacuum excavating borings and saw cutting new locations
System Calibrations	YES	CAMP station locations: DW station @ NW corner of Site activities, UW station @ SE corner of Site activities
(Time)	7:30:00 AM	
(Status)	Pass	

System Alarm Log

Time	Station No.	Alarm (Dust, VOC)	Location (UW, CW, DW)	Dust/TVOC/Odor 15-min avg conc. Range	Total # of Alarms	Notes	Site Person/Time Notified
9:50	47161	Dust	DW	396 ug/m3	1	During this time, the contractor was observed doing vacuum excavating SB-114, however plumes of dust were not observed in the area.	N/A

Notes:
PM10 was measured above the 15-minute Action Level of 150 ug/m3 at the Downwind station on September 9, 2022 9:50am. During this time, the contractor was observed doing vacuum excavating SB-114, however plumes of dust were not observed in the area. Measured PM10 concentrations fell below the Action Level without intervention.

	Particulate (15-min)	TVOC (15-min)
Response Limit:	100 ug/m^3	3.7 ppm
Action Limit:	150 ug/m^3	5.0 ppm
Stop-Work Limit:	N/A	25 ppm

Notes:
UW - Upwind
CW - Crosswind
DW - Downwind
P - Particulate/ Dust
Particulate recorded in ug/m^3
V - Total VOC
Total VOC measured in ppm

Field Representative: Breana Pabst
Date: 9/9/2022

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Canastota, NY

Daily CAMP Report

System Operations		General Observations
Sampling Date	9/12/2022	General Weather Conditions
System Start Time	8:40:00 AM	Cloudy, low - mid 70's °F, chance of rain and thunderstorms
System Stop Time	4:00:00 PM	
Total Hours Monitored	7:20	General Description of Site Activities:
		Vacuum excavating borings and backfilling
System Calibrations	YES	CAMP station locations: DW station @ N corner of Site activities, UW station @ S corner of Site activities
(Time)	8:40:00 AM	
(Status)	Pass	

System Alarm Log

Time	Station No.	Alarm (Dust, VOC)	Location (UW, CW, DW)	Dust/TVOC/Odor 15-min avg conc. Range	Total # of Alarms	Notes	Site Person/Time Notified
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Notes:
No recorded exceedances

	Particulate (15-min)	TVOC (15-min)
Response Limit:	100 ug/m^3	3.7 ppm
Action Limit:	150 ug/m^3	5.0 ppm
Stop-Work Limit:	N/A	25 ppm

Notes:

UW - Upwind
CW - Crosswind
DW - Downwind

P - Particulate/ Dust
Particulate recorded in ug/m^3
V - Total VOC
Total VOC measured in ppm

Field Representative: Breana Pabst
Date: 9/12/2022

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System Operations		General Observations
Sampling Date	9/14/2022	General Weather Conditions
System Start Time	9:15:00 AM	Cloudy w/ chance of rain, low - 60's °F
System Stop Time	1:00:00 PM	
Total Hours Monitored	3:45	General Description of Site Activities:
		Preclearing and excavating borings with backfill
System Calibrations	YES	CAMP station locations: DW station @ SE corner of Site activities, UW station @ NW corner of Site activities
(Time)	8:40:00 AM	
(Status)	Pass	

System Alarm Log

Time	Station No.	Alarm (Dust, VOC)	Location (UW, CW, DW)	Dust/TVOC/Odor 15-min avg conc. Range	Total # of Alarms	Notes	Site Person/Time Notified
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Notes:
No recorded exceedances

	Particulate (15-min)	TVOC (15-min)
Response Limit:	100 ug/m^3	3.7 ppm
Action Limit:	150 ug/m^3	5.0 ppm
Stop-Work Limit:	N/A	25 ppm

Notes:

UW - Upwind
CW - Crosswind
DW - Downwind

P - Particulate/ Dust
Particulate recorded in ug/m^3
V - Total VOC
Total VOC measured in ppm

Field Representative: Breana Pabst
Date: 9/14/2022

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Daily CAMP Report

System Operations		General Observations
Sampling Date	9/15/2022	General Weather Conditions
System Start Time	8:00:00 AM	clear, sunny, 60's °F
System Stop Time	4:15:00 PM	
Total Hours Monitored	8:15	General Description of Site Activities:
		Excavating soil borings and backfill CAMP stations were situated on-Site according to the following: DW station @ S corner of Site activities, UW station @ N corner of Site activities
System Calibrations	YES	
(Time)	8:15:00 AM	
(Status)	Pass	

System Alarm Log

Time	Station No.	Alarm (Dust, VOC)	Location (UW, CW, DW)	Dust/TVOC/Odor 15-min avg conc. Range	Total # of Alarms	Notes	Site Person/Time Notified
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Notes:
No recorded exceedances

	Particulate (15-min)	TVOC (15-min)
Response Limit:	100 ug/m^3	3.7 ppm
Action Limit:	150 ug/m^3	5.0 ppm
Stop-Work Limit:	N/A	25 ppm

Notes:
UW - Upwind
CW - Crosswind
DW - Downwind
P - Particulate/ Dust
Particulate recorded in ug/m^3
V - Total VOC
Total VOC measured in ppm

Field Representative: Breana Pabst
Date: 9/15/2022

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Daily CAMP Report

System Operations		General Observations
Sampling Date	9/16/2022	General Weather Conditions
System Start Time	8:00:00 AM	partly cloudy, 60's °F
System Stop Time	3:00:00 PM	
Total Hours Monitored	7:00	General Description of Site Activities:
		Excavating soil borings and backfill
System Calibrations	YES	CAMP station locations: DW station @ SE corner of Site activities, UW station @ NW corner of Site activities
(Time)	8:15:00 AM	
(Status)	Pass	

System Alarm Log

Time	Station No.	Alarm (Dust, VOC)	Location (UW, CW, DW)	Dust/TVOC/Odor 15-min avg conc. Range	Total # of Alarms	Notes	Site Person/Time Notified
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Notes:
No recorded exceedances

	Particulate (15-min)	TVOC (15-min)
Response Limit:	100 ug/m^3	3.7 ppm
Action Limit:	150 ug/m^3	5.0 ppm
Stop-Work Limit:	N/A	25 ppm

Notes:

UW - Upwind
CW - Crosswind
DW - Downwind

P - Particulate/ Dust
Particulate recorded in ug/m^3
V - Total VOC
Total VOC measured in ppm

Field Representative: Breana Pabst
Date: 9/16/2022

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Daily CAMP Report

System Operations		General Observations
Sampling Date	9/16/2022	General Weather Conditions
System Start Time	8:00:00 AM	partly cloudy, 60's °F
System Stop Time	3:00:00 PM	
Total Hours Monitored	7:00	General Description of Site Activities:
		Excavating soil borings
System Calibrations	YES	CAMP station locations: DW station @ E corner of Site activities, UW station @ W corner of Site activities
(Time)	8:15:00 AM	
(Status)	Pass	

System Alarm Log

Time	Station No.	Alarm (Dust, VOC)	Location (UW, CW, DW)	Dust/TVOC/Odor 15-min avg conc. Range	Total # of Alarms	Notes	Site Person/Time Notified
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Notes:
No recorded exceedances

	Particulate (15-min)	TVOC (15-min)
Response Limit:	100 ug/m^3	3.7 ppm
Action Limit:	150 ug/m^3	5.0 ppm
Stop-Work Limit:	N/A	25 ppm

Notes:
UW - Upwind
CW - Crosswind
DW - Downwind
P - Particulate/ Dust
Particulate recorded in ug/m^3
V - Total VOC
Total VOC measured in ppm

Field Representative: Breana Pabst
Date: 9/16/2022

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Daily CAMP Report

System Operations		General Observations
Sampling Date	9/20/2022	General Weather Conditions
System Start Time	7:45:00 AM	rain, 60's °F
System Stop Time	4:00:00 PM	
Total Hours Monitored	8:15	General Description of Site Activities:
		Resumed excavating soil boring from previous day with backfill, additional soil boring excavation and backfill
System Calibrations	YES	CAMP station locations: DW station @ SE corner of Site activities, UW station @ NW corner of Site activities
(Time)	8:00:00 AM	
(Status)	Pass	

System Alarm Log

Time	Station No.	Alarm (Dust, VOC)	Location (UW, CW, DW)	Dust/TVOC/Odor 15-min avg conc. Range	Total # of Alarms	Notes	Site Person/Time Notified
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Notes:
No recorded exceedances

	Particulate (15-min)	TVOC (15-min)
Response Limit:	100 ug/m^3	3.7 ppm
Action Limit:	150 ug/m^3	5.0 ppm
Stop-Work Limit:	N/A	25 ppm

Notes:

UW - Upwind
CW - Crosswind
DW - Downwind

P - Particulate/ Dust
Particulate recorded in ug/m^3
V - Total VOC
Total VOC measured in ppm

Field Representative: Breana Pabst
Date: 9/20/2022

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Daily CAMP Report

System Operations	
Sampling Date	9/21/2022
System Start Time	7:50:00 AM
System Stop Time	4:00:00 PM
Total Hours Monitored	8:10
System Calibrations	YES
(Time)	8:15:00 AM
(Status)	Pass

General Observations

General Weather Conditions

rain, 60's °F

General Description of Site Activities:

Excavating soil boring and backfill
CAMP station locations: DW station @ N corner of Site activities, UW station @ S corner of Site activities

System Alarm Log

Time	Station No.	Alarm (Dust, VOC)	Location (UW, CW, DW)	Dust/TVOC/Odor 15-min avg conc. Range	Total # of Alarms	Notes	Site Person/Time Notified
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Notes:
No recorded exceedances

	Particulate (15-min)	TVOC (15-min)
Response Limit:	100 ug/m^3	3.7 ppm
Action Limit:	150 ug/m^3	5.0 ppm
Stop-Work Limit:	N/A	25 ppm

Notes:

UW - Upwind
CW - Crosswind
DW - Downwind

P - Particulate/ Dust
Particulate recorded in ug/m^3
V - Total VOC
Total VOC measured in ppm

Field Representative: Breana Pabst
Date: 9/21/2022

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Canastota, NY

Daily CAMP Report

System Operations		General Observations
Sampling Date	9/26/2022	General Weather Conditions
System Start Time	8:40:00 AM	partly cloudy, 60's °F
System Stop Time	3:45:00 PM	
Total Hours Monitored	7:05	General Description of Site Activities:
		Excavating soil boring and backfill
System Calibrations	YES	CAMP station locations: DW station @ NE corner of Site activities, UW station @ SW corner of Site activities
(Time)	8:30:00 AM	
(Status)	Pass	

System Alarm Log

Time	Station No.	Alarm (Dust, VOC)	Location (UW, CW, DW)	Dust/TVOC/Odor 15-min avg conc. Range	Total # of Alarms	Notes	Site Person/Time Notified
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Notes:
No recorded exceedances

	Particulate (15-min)	TVOC (15-min)
Response Limit:	100 ug/m^3	3.7 ppm
Action Limit:	150 ug/m^3	5.0 ppm
Stop-Work Limit:	N/A	25 ppm

Notes:
UW - Upwind
CW - Crosswind
DW - Downwind
P - Particulate/ Dust
Particulate recorded in ug/m^3
V - Total VOC
Total VOC measured in ppm

Field Representative: Breana Pabst
Date: 9/26/2022

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Daily CAMP Report

System Operations		General Observations
Sampling Date	9/27/2022	General Weather Conditions
System Start Time	8:25:00 AM	partly cloudy, 60's °F
System Stop Time	2:00:00 PM	
Total Hours Monitored	5:35	General Description of Site Activities:
		Excavating soil borings and backfill
System Calibrations	YES	CAMP station locations: DW station @ NE corner of Site activities, UW station @ SW corner of Site activities
(Time)	8:30:00 AM	
(Status)	Pass	

System Alarm Log

Time	Station No.	Alarm (Dust, VOC)	Location (UW, CW, DW)	Dust/TVOC/Odor 15-min avg conc. Range	Total # of Alarms	Notes	Site Person/Time Notified
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Notes:
No recorded exceedances

	Particulate (15-min)	TVOC (15-min)
Response Limit:	100 ug/m^3	3.7 ppm
Action Limit:	150 ug/m^3	5.0 ppm
Stop-Work Limit:	N/A	25 ppm

Notes:

UW - Upwind
CW - Crosswind
DW - Downwind

P - Particulate/ Dust
Particulate recorded in ug/m^3
V - Total VOC
Total VOC measured in ppm

Field Representative: Breana Pabst
Date: 9/27/2022

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Canastota, NY

Daily CAMP Report

System Operations		General Observations
Sampling Date	9/28/2022	General Weather Conditions
System Start Time	7:45:00 AM	partly cloudy with rain, 60's °F
System Stop Time	4:00:00 PM	
Total Hours Monitored	8:15	General Description of Site Activities:
		Resuming work from previous day; excavating soil boring and backfill
System Calibrations	YES	CAMP station locations: DW station @ S corner of Site activities, UW station @ N corner of Site activities
(Time)	8:00:00 AM	
(Status)	Pass	

System Alarm Log

Time	Station No.	Alarm (Dust, VOC)	Location (UW, CW, DW)	Dust/TVOC/Odor 15-min avg conc. Range	Total # of Alarms	Notes	Site Person/Time Notified
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Notes:
No recorded exceedances

	Particulate (15-min)	TVOC (15-min)
Response Limit:	100 ug/m^3	3.7 ppm
Action Limit:	150 ug/m^3	5.0 ppm
Stop-Work Limit:	N/A	25 ppm

Notes:

UW - Upwind
CW - Crosswind
DW - Downwind

P - Particulate/ Dust
Particulate recorded in ug/m^3
V - Total VOC
Total VOC measured in ppm

Field Representative: Breana Pabst
Date: 9/28/2022

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Daily CAMP Report

System Operations		General Observations
Sampling Date	9/29/2022	General Weather Conditions
System Start Time	7:45:00 AM	partly cloudy, 60's °F
System Stop Time	4:00:00 PM	
Total Hours Monitored	8:15	General Description of Site Activities:
		Excavating soil boring and backfill
System Calibrations	YES	CAMP station locations: DW station @ SE corner of Site activities, UW station @ NW corner of Site activities
(Time)	8:00:00 AM	
(Status)	Pass	

System Alarm Log

Time	Station No.	Alarm (Dust, VOC)	Location (UW, CW, DW)	Dust/TVOC/Odor 15-min avg conc. Range	Total # of Alarms	Notes	Site Person/Time Notified
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Notes:
No recorded exceedances

	Particulate (15-min)	TVOC (15-min)
Response Limit:	100 ug/m^3	3.7 ppm
Action Limit:	150 ug/m^3	5.0 ppm
Stop-Work Limit:	N/A	25 ppm

Notes:

UW - Upwind
CW - Crosswind
DW - Downwind

P - Particulate/ Dust
Particulate recorded in ug/m^3
V - Total VOC
Total VOC measured in ppm

Field Representative: Breana Pabst
Date: 9/29/2022

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Daily CAMP Report

System Operations		General Observations
Sampling Date	9/30/2022	General Weather Conditions
System Start Time	8:00:00 AM	partly cloudy, 60's °F
System Stop Time	4:30:00 PM	
Total Hours Monitored	8:30	General Description of Site Activities:
		Excavating soil boring and backfill
System Calibrations	YES	CAMP station locations: DW station @ N corner of Site activities, UW station @ S corner of Site activities
(Time)	8:15:00 AM	
(Status)	Pass	

System Alarm Log

Time	Station No.	Alarm (Dust, VOC)	Location (UW, CW, DW)	Dust/TVOC/Odor 15-min avg conc. Range	Total # of Alarms	Notes	Site Person/Time Notified
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Notes:
No recorded exceedances

	Particulate (15-min)	TVOC (15-min)
Response Limit:	100 ug/m^3	3.7 ppm
Action Limit:	150 ug/m^3	5.0 ppm
Stop-Work Limit:	N/A	25 ppm

Notes:

UW - Upwind
CW - Crosswind
DW - Downwind

P - Particulate/ Dust
Particulate recorded in ug/m^3
V - Total VOC
Total VOC measured in ppm

Field Representative: Breana Pabst
Date: 9/30/2022

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Canastota, NY

Daily CAMP Report

System Operations		General Observations
Sampling Date	10/3/2022	General Weather Conditions
System Start Time	8:00:00 AM	partly cloudy, 40-50's °F
System Stop Time	4:45:00 PM	
Total Hours Monitored	8:45	General Description of Site Activities:
		Completing soil borings and drilling activities, backfill
System Calibrations	YES	CAMP station locations: DW station @ SW corner of Site activities, UW station @ NE corner of Site activities
(Time)	8:30:00 AM	
(Status)	Pass	

System Alarm Log

Time	Station No.	Alarm (Dust, VOC)	Location (UW, CW, DW)	Dust/TVOC/Odor 15-min avg conc. Range	Total # of Alarms	Notes	Site Person/Time Notified
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Notes:
No recorded exceedances

	Particulate (15-min)	TVOC (15-min)
Response Limit:	100 ug/m^3	3.7 ppm
Action Limit:	150 ug/m^3	5.0 ppm
Stop-Work Limit:	N/A	25 ppm

Notes:

UW - Upwind
CW - Crosswind
DW - Downwind

P - Particulate/ Dust
Particulate recorded in ug/m^3
V - Total VOC
Total VOC measured in ppm

Field Representative: Breana Pabst
Date: 10/3/2022

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Upwind Station 047161

End Time	47161 Battery Voltage (Avg)	47161 Battery Percentage (Avg)	47161 Dust Trak Mass Conc. Total (Avg)	47161 Dust Trak TWA (Avg)	47161 Dust Trak Internal Battery (Avg)	47161 MiniRae VOC (Avg)	47161 MiniRae TWA (Avg)
Sep 6 2022 11:30:00 AM	12.286	99.391	0.002	0	78		
Sep 6 2022 11:40:00 AM	12.286	99.391	0.001	0	77.263		
Sep 6 2022 11:50:00 AM	12.28	99.13	0.002	0	75.981		
Sep 6 2022 12:00:00 PM	12.286	99.391	0.002	0	74.695		
Sep 6 2022 12:10:00 PM	12.286	99.391	0.002	0	73.465		
Sep 6 2022 12:20:00 PM	12.286	99.391	0.002	0	72.266		
Sep 6 2022 12:30:00 PM	12.286	99.391	0.002	0	70.936		
Sep 6 2022 12:40:00 PM	12.286	99.391	0.002	0	69.67		
Sep 6 2022 12:50:00 PM	12.286	99.391	0.003	0	68.465		
Sep 6 2022 1:00:00 PM	12.286	99.391	0.002	0	67.27		
Sep 6 2022 1:10:00 PM	12.286	99.391	0.002	0	65.935		
Sep 6 2022 1:20:00 PM	12.286	99.391	0.002	0	64.668		
Sep 6 2022 1:30:00 PM	12.286	99.391	0.002	0.001	63.445		
Sep 6 2022 1:40:00 PM	12.286	99.391	0.002	0.001	62.241		
Sep 6 2022 1:50:00 PM	12.286	99.391	0.002	0.001	60.84		
Sep 6 2022 2:00:00 PM	12.286	99.391	0.002	0.001	59.598		
Sep 6 2022 2:10:00 PM	12.286	99.391	0.002	0.001	58.366		
Sep 6 2022 2:20:00 PM	12.273	98.846	0.003	0.001	57.033		
Sep 6 2022 2:30:00 PM	12.286	99.391	0.003	0.001	55.668		
Sep 6 2022 2:40:00 PM	12.286	99.391	0.003	0.001	54.443		
Sep 6 2022 2:50:00 PM	12.286	99.391	0.003	0.001	53.213		
Sep 6 2022 3:00:00 PM	12.286	99.391	0.003	0.001	51.745		
Sep 6 2022 3:10:00 PM	12.286	99.391	0.003	0.001	50.52		
Sep 6 2022 3:20:00 PM	12.286	99.391	0.003	0.001	49.273		
Sep 6 2022 3:30:00 PM	12.281	99.156	0.003	0.001	47.836		
Sep 6 2022 3:40:00 PM	12.281	99.176	0.003	0.001	46.548		
Sep 6 2022 3:50:00 PM	12.268	98.625	0.003	0.001	45.323		
Sep 6 2022 4:00:00 PM	12.265	98.461	0.003	0.001	43.911		
Sep 6 2022 4:10:00 PM	12.25	97.832	0.003	0.001	42.596		
Sep 6 2022 4:20:00 PM	12.246	97.663	0.003	0.002	28.898		
		Max	0.003				

Pine PID: 16232

Device Serial No	Log Time	Sensor 1 Display Unit	Sensor 1 Gas Reading	Session Start Time	Session Stop Time
592-903439	9/6/2022 4:26:34 PM		0.0		
592-903439	9/6/2022 4:26:19 PM		0.0		
592-903439	9/6/2022 4:26:04 PM		0.0		
592-903439	9/6/2022 4:25:49 PM		0.0		
592-903439	9/6/2022 4:25:34 PM		0.0		
592-903439	9/6/2022 4:25:19 PM		0.0		
592-903439	9/6/2022 4:25:04 PM		0.0		
592-903439	9/6/2022 4:24:49 PM		0.0		
592-903439	9/6/2022 4:24:34 PM		0.0		
592-903439	9/6/2022 4:24:19 PM		0.0		
592-903439	9/6/2022 4:24:04 PM		0.0		
592-903439	9/6/2022 4:23:49 PM		0.0		
592-903439	9/6/2022 4:23:34 PM		0.0		
592-903439	9/6/2022 4:23:19 PM		0.0		
592-903439	9/6/2022 4:23:04 PM		0.0		
592-903439	9/6/2022 4:22:49 PM		0.0		
592-903439	9/6/2022 4:22:34 PM		0.0		
592-903439	9/6/2022 4:22:19 PM		0.0		
592-903439	9/6/2022 4:22:04 PM		0.0		
592-903439	9/6/2022 4:21:49 PM		0.0		
592-903439	9/6/2022 4:21:34 PM		0.0		
592-903439	9/6/2022 4:21:19 PM		0.0		
592-903439	9/6/2022 4:21:04 PM		0.0		
592-903439	9/6/2022 4:20:49 PM		0.0		
592-903439	9/6/2022 4:20:34 PM		0.0		
592-903439	9/6/2022 4:20:19 PM		0.0		
592-903439	9/6/2022 4:20:04 PM		0.0		
592-903439	9/6/2022 4:19:49 PM		0.0		
592-903439	9/6/2022 4:19:34 PM		0.0		
592-903439	9/6/2022 4:19:19 PM		0.0		
592-903439	9/6/2022 4:19:04 PM		0.0		
592-903439	9/6/2022 4:18:49 PM		0.0		
592-903439	9/6/2022 4:18:34 PM		0.0		
592-903439	9/6/2022 4:18:19 PM		0.0		
592-903439	9/6/2022 4:18:04 PM		0.0		
592-903439	9/6/2022 4:17:49 PM		0.0		
592-903439	9/6/2022 4:17:34 PM		0.0		
592-903439	9/6/2022 4:17:19 PM		0.0		
592-903439	9/6/2022 4:17:04 PM		0.0		
592-903439	9/6/2022 4:16:49 PM		0.0		
592-903439	9/6/2022 4:16:34 PM		0.0		
592-903439	9/6/2022 4:16:19 PM		0.0		
592-903439	9/6/2022 4:16:04 PM		0.0		
592-903439	9/6/2022 4:15:49 PM		0.0		
592-903439	9/6/2022 4:15:34 PM		0.0		
592-903439	9/6/2022 4:15:19 PM		0.0		
592-903439	9/6/2022 4:15:04 PM		0.0		
592-903439	9/6/2022 4:14:49 PM		0.0		
592-903439	9/6/2022 4:14:34 PM		0.0		
592-903439	9/6/2022 4:14:19 PM		0.0		
592-903439	9/6/2022 4:14:04 PM		0.0		
592-903439	9/6/2022 4:13:49 PM		0.0		
592-903439	9/6/2022 4:13:34 PM		0.0		
592-903439	9/6/2022 4:13:19 PM		0.0		
592-903439	9/6/2022 4:13:04 PM		0.0		
592-903439	9/6/2022 4:12:49 PM		0.0		
592-903439	9/6/2022 4:12:34 PM		0.0		
592-903439	9/6/2022 4:12:19 PM		0.0		
592-903439	9/6/2022 4:12:04 PM		0.0		
592-903439	9/6/2022 4:11:49 PM		0.0		
592-903439	9/6/2022 4:11:34 PM		0.0		
592-903439	9/6/2022 4:11:19 PM		0.0		
592-903439	9/6/2022 4:11:04 PM		0.0		
592-903439	9/6/2022 4:10:49 PM		0.0		
592-903439	9/6/2022 4:10:34 PM		0.0		
592-903439	9/6/2022 4:10:19 PM		0.0		
592-903439	9/6/2022 4:10:04 PM		0.0		
592-903439	9/6/2022 4:09:49 PM		0.0		
592-903439	9/6/2022 4:09:34 PM		0.0		
592-903439	9/6/2022 4:09:19 PM		0.0		
592-903439	9/6/2022 4:09:04 PM		0.0		
592-903439	9/6/2022 4:08:49 PM		0.0		
592-903439	9/6/2022 4:08:34 PM		0.0		
592-903439	9/6/2022 4:08:19 PM		0.0		
592-903439	9/6/2022 4:08:04 PM		0.0		
592-903439	9/6/2022 4:07:49 PM		0.0		
592-903439	9/6/2022 4:07:34 PM		0.0		
592-903439	9/6/2022 4:07:19 PM		0.0		
592-903439	9/6/2022 4:07:04 PM		0.0		
592-903439	9/6/2022 4:06:49 PM		0.0		
592-903439	9/6/2022 4:06:34 PM		0.0		
592-903439	9/6/2022 4:06:19 PM		0.0		
592-903439	9/6/2022 4:06:04 PM		0.0		
592-903439	9/6/2022 4:05:49 PM		0.0		
592-903439	9/6/2022 4:05:34 PM		0.0		
592-903439	9/6/2022 4:05:19 PM		0.0		
592-903439	9/6/2022 4:05:04 PM		0.0		
592-903439	9/6/2022 4:04:49 PM		0.0		
592-903439	9/6/2022 4:04:34 PM		0.0		

592-903439	9/6/2022 4:04:19 PM		0.0		
592-903439	9/6/2022 4:04:04 PM		0.0		
592-903439	9/6/2022 4:03:49 PM		0.0		
592-903439	9/6/2022 4:03:34 PM		0.0		
592-903439	9/6/2022 4:03:19 PM		0.0		
592-903439	9/6/2022 4:03:04 PM		0.0		
592-903439	9/6/2022 4:02:49 PM		0.0		
592-903439	9/6/2022 4:02:34 PM		0.0		
592-903439	9/6/2022 4:02:19 PM		0.0		
592-903439	9/6/2022 4:02:04 PM		0.0		
592-903439	9/6/2022 4:01:49 PM		0.0		
592-903439	9/6/2022 4:01:34 PM		0.0		
592-903439	9/6/2022 4:01:19 PM		0.0		
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592-903439	9/6/2022 4:00:49 PM		0.0		
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592-903439	9/6/2022 4:00:19 PM		0.0		
592-903439	9/6/2022 4:00:04 PM		0.0		
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592-903439	9/6/2022 3:59:34 PM		0.0		
592-903439	9/6/2022 3:59:19 PM		0.0		
592-903439	9/6/2022 3:59:04 PM		0.0		
592-903439	9/6/2022 3:58:49 PM		0.0		
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592-903439	9/6/2022 3:58:19 PM		0.0		
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592-903439	9/6/2022 3:57:34 PM		0.0		
592-903439	9/6/2022 3:57:19 PM		0.0		
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592-903439	9/6/2022 3:56:19 PM		0.0		
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592-903439	9/6/2022 3:52:34 PM		0.0		
592-903439	9/6/2022 3:52:19 PM		0.0		
592-903439	9/6/2022 3:52:04 PM		0.0		
592-903439	9/6/2022 3:51:49 PM		0.0		
592-903439	9/6/2022 3:51:34 PM		0.0		
592-903439	9/6/2022 3:51:19 PM		0.0		
592-903439	9/6/2022 3:51:04 PM		0.0		
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592-903439	9/6/2022 3:50:19 PM		0.0		
592-903439	9/6/2022 3:50:04 PM		0.0		
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592-903439	9/6/2022 3:49:34 PM		0.0		
592-903439	9/6/2022 3:49:19 PM		0.0		
592-903439	9/6/2022 3:49:04 PM		0.0		
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592-903439	9/6/2022 3:48:34 PM		0.0		
592-903439	9/6/2022 3:48:19 PM		0.0		
592-903439	9/6/2022 3:48:04 PM		0.0		
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592-903439	9/6/2022 3:44:19 PM		0.0		
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592-903439	9/6/2022 3:36:19 PM		0.0		
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592-903439	9/6/2022 3:34:19 PM		0.0		
592-903439	9/6/2022 3:34:04 PM		0.0		
592-903439	9/6/2022 3:33:49 PM		0.0		
592-903439	9/6/2022 3:33:34 PM		0.0		
592-903439	9/6/2022 3:33:19 PM		0.0		
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592-903439	9/6/2022 3:30:19 PM		0.0		
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592-903439	9/6/2022 3:29:34 PM		0.0		
592-903439	9/6/2022 3:29:19 PM		0.0		
592-903439	9/6/2022 3:29:04 PM		0.0		
592-903439	9/6/2022 3:28:49 PM		0.0		
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592-903439	9/6/2022 3:28:19 PM		0.0		
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592-903439	9/6/2022 3:27:49 PM		0.0		
592-903439	9/6/2022 3:27:34 PM		0.0		
592-903439	9/6/2022 3:27:19 PM		0.0		
592-903439	9/6/2022 3:27:04 PM		0.0		
592-903439	9/6/2022 3:26:49 PM		0.0		
592-903439	9/6/2022 3:26:34 PM		0.0		
592-903439	9/6/2022 3:26:19 PM		0.0		
592-903439	9/6/2022 3:26:04 PM		0.0		
592-903439	9/6/2022 3:25:49 PM		0.0		
592-903439	9/6/2022 3:25:34 PM		0.0		
592-903439	9/6/2022 3:25:19 PM		0.0		
592-903439	9/6/2022 3:25:04 PM		0.0		
592-903439	9/6/2022 3:24:49 PM		0.0		
592-903439	9/6/2022 3:24:34 PM		0.0		
592-903439	9/6/2022 3:24:19 PM		0.0		
592-903439	9/6/2022 3:24:04 PM		0.0		
592-903439	9/6/2022 3:23:49 PM		0.0		
592-903439	9/6/2022 3:23:34 PM		0.0		
592-903439	9/6/2022 3:23:19 PM		0.0		
592-903439	9/6/2022 3:23:04 PM		0.0		
592-903439	9/6/2022 3:22:49 PM		0.0		
592-903439	9/6/2022 3:22:34 PM		0.0		
592-903439	9/6/2022 3:22:19 PM		0.0		
592-903439	9/6/2022 3:22:04 PM		0.0		
592-903439	9/6/2022 3:21:49 PM		0.0		
592-903439	9/6/2022 3:21:34 PM		0.0		
592-903439	9/6/2022 3:21:19 PM		0.0		
592-903439	9/6/2022 3:21:04 PM		0.0		
592-903439	9/6/2022 3:20:49 PM		0.0		
592-903439	9/6/2022 3:20:34 PM		0.0		
592-903439	9/6/2022 3:20:19 PM		0.0		
592-903439	9/6/2022 3:20:04 PM		0.0		
592-903439	9/6/2022 3:19:49 PM		0.0		
592-903439	9/6/2022 3:19:34 PM		0.0		
592-903439	9/6/2022 3:19:19 PM		0.0		
592-903439	9/6/2022 3:19:04 PM		0.0		
592-903439	9/6/2022 3:18:49 PM		0.0		
592-903439	9/6/2022 3:18:34 PM		0.0		
592-903439	9/6/2022 3:18:19 PM		0.0		
592-903439	9/6/2022 3:18:04 PM		0.0		
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592-903439	9/6/2022 11:23:04 AM		0.1		
592-903439	9/6/2022 11:22:49 AM		0.1		
592-903439	9/6/2022 11:22:34 AM		0.1		
592-903439	9/6/2022 11:22:19 AM		0.1		
592-903439	9/6/2022 11:22:04 AM		0.1		
592-903439	9/6/2022 11:21:49 AM		0.1		
592-903439	9/6/2022 11:21:34 AM		0.1		
592-903439	9/6/2022 11:21:19 AM		0.1		
592-903439	9/6/2022 11:21:04 AM		0.1		
592-903439	9/6/2022 11:20:49 AM		0.1		
592-903439	9/6/2022 11:20:34 AM		0.1		
592-903439	9/6/2022 11:20:19 AM		0.1		
592-903439	9/6/2022 11:20:04 AM		0.1		
592-903439	9/6/2022 11:19:49 AM		0.1		
592-903439	9/6/2022 11:19:34 AM		0.1		
592-903439	9/6/2022 11:19:19 AM		0.1		
592-903439	9/6/2022 11:19:04 AM		0.1		
592-903439	9/6/2022 11:18:49 AM		0.1		
592-903439	9/6/2022 11:18:34 AM		0.1		
592-903439	9/6/2022 11:18:19 AM		0.1		
592-903439	9/6/2022 11:18:04 AM		0.1		
592-903439	9/6/2022 11:17:49 AM		0.1		
592-903439	9/6/2022 11:17:34 AM		0.1		
592-903439	9/6/2022 11:17:19 AM		0.1		
592-903439	9/6/2022 11:17:04 AM		0.1		
592-903439	9/6/2022 11:16:49 AM		0.1		
592-903439	9/6/2022 11:16:34 AM		0.1		

592-903439	9/6/2022 11:16:19 AM		0.1		
592-903439	9/6/2022 11:16:04 AM		0.1		
592-903439	9/6/2022 11:15:49 AM		0.1		
592-903439	9/6/2022 11:15:34 AM		0.1		
592-903439	9/6/2022 11:15:19 AM		0.1		
592-903439	9/6/2022 11:15:04 AM		0.1		
592-903439	9/6/2022 11:14:49 AM		0.1		
592-903439	9/6/2022 11:14:34 AM		0.1		
592-903439	9/6/2022 11:14:19 AM		0.1		
592-903439	9/6/2022 11:14:04 AM		0.1		
592-903439	9/6/2022 11:13:49 AM		0.1		
592-903439	9/6/2022 11:13:34 AM		0.1		
592-903439	9/6/2022 11:13:19 AM		0.1		
592-903439	9/6/2022 11:13:04 AM		0.1		
592-903439	9/6/2022 11:12:49 AM		0.1		
592-903439	9/6/2022 11:12:34 AM		0.1		
592-903439	9/6/2022 11:12:19 AM		0.1		
592-903439	9/6/2022 11:12:04 AM		0.1		
592-903439	9/6/2022 11:11:49 AM		0.1		
592-903439	9/6/2022 11:11:34 AM		0.1		
592-903439	9/6/2022 11:11:19 AM		0.1		
592-903439	9/6/2022 11:11:04 AM		0.1		
592-903439	9/6/2022 11:10:49 AM		0.1		
592-903439	9/6/2022 11:10:34 AM		0.1		
592-903439	9/6/2022 11:10:19 AM		0.1		
592-903439	9/6/2022 11:10:04 AM		0.1		
592-903439	9/6/2022 11:09:49 AM		0.1		
592-903439	9/6/2022 11:09:34 AM		0.1		
592-903439	9/6/2022 11:09:19 AM		0.1		
592-903439	9/6/2022 11:09:04 AM		0.1		
592-903439	9/6/2022 11:08:49 AM		0.1		
592-903439	9/6/2022 11:08:34 AM		0.1		
592-903439	9/6/2022 11:08:19 AM		0.1		
592-903439	9/6/2022 11:08:04 AM		0.1		
592-903439	9/6/2022 11:07:49 AM		0.1		
592-903439	9/6/2022 11:07:34 AM		0.1		
592-903439	9/6/2022 11:07:19 AM		0.1		
592-903439	9/6/2022 11:07:04 AM		0.1		
592-903439	9/6/2022 11:06:49 AM		0.1		
592-903439	9/6/2022 11:06:34 AM		0.1		
592-903439	9/6/2022 11:06:19 AM		0.1		
592-903439	9/6/2022 11:06:04 AM		0.1		
592-903439	9/6/2022 11:05:49 AM		0.1		
592-903439	9/6/2022 11:05:34 AM		0.1		
592-903439	9/6/2022 11:05:19 AM		0.1		
592-903439	9/6/2022 11:05:04 AM		0.1		
592-903439	9/6/2022 11:04:49 AM		0.1		
592-903439	9/6/2022 11:04:34 AM		0.1		
592-903439	9/6/2022 11:04:19 AM		0.1		
592-903439	9/6/2022 11:04:04 AM		0.1		
592-903439	9/6/2022 11:03:49 AM		0.1		
592-903439	9/6/2022 11:03:34 AM		0.1		
592-903439	9/6/2022 11:03:19 AM		0.1		
592-903439	9/6/2022 11:03:04 AM		0.1		
592-903439	9/6/2022 11:02:49 AM		0.1		
592-903439	9/6/2022 11:02:34 AM		0.1		
592-903439	9/6/2022 11:02:19 AM		0.1		
592-903439	9/6/2022 11:02:04 AM		0.1		
592-903439	9/6/2022 11:01:49 AM		0.1		
592-903439	9/6/2022 11:01:34 AM		0.1		
592-903439	9/6/2022 11:01:19 AM		0.1		
592-903439	9/6/2022 11:01:04 AM		0.1		
592-903439	9/6/2022 11:00:49 AM		0.1		
592-903439	9/6/2022 11:00:34 AM		0.1		
592-903439	9/6/2022 11:00:19 AM		0.1		
592-903439	9/6/2022 11:00:04 AM		0.1		
592-903439	9/6/2022 10:59:49 AM		0.1		
592-903439	9/6/2022 10:59:34 AM		0.1		
592-903439	9/6/2022 10:59:19 AM		0.1		
592-903439	9/6/2022 10:59:04 AM		0.1		
592-903439	9/6/2022 10:58:49 AM		0.1		
592-903439	9/6/2022 10:58:34 AM		0.1		
592-903439	9/6/2022 10:58:19 AM		0.1		
592-903439	9/6/2022 10:58:04 AM		0.1		
592-903439	9/6/2022 10:57:49 AM		0.1		
592-903439	9/6/2022 10:57:34 AM		0.1		
592-903439	9/6/2022 10:57:19 AM		0.1		
592-903439	9/6/2022 10:57:04 AM		0.1		
592-903439	9/6/2022 10:56:49 AM		0.1		
592-903439	9/6/2022 10:56:34 AM		0.1		
592-903439	9/6/2022 10:56:19 AM		0.1		
592-903439	9/6/2022 10:56:04 AM		0.1		
592-903439	9/6/2022 10:55:49 AM		0.1		
592-903439	9/6/2022 10:55:34 AM		0.1		
592-903439	9/6/2022 10:55:19 AM		0.1		
592-903439	9/6/2022 10:55:04 AM		0.1		
592-903439	9/6/2022 10:54:49 AM		0.1		
592-903439	9/6/2022 10:54:34 AM		0.1		
592-903439	9/6/2022 10:54:19 AM		0.1		
592-903439	9/6/2022 10:54:04 AM		0.1		
592-903439	9/6/2022 10:53:49 AM		0.1		
592-903439	9/6/2022 10:53:34 AM		0.1		
592-903439	9/6/2022 10:53:19 AM		0.1		
592-903439	9/6/2022 10:53:04 AM		0.1		
592-903439	9/6/2022 10:52:49 AM		0.1		
592-903439	9/6/2022 10:52:34 AM		0.1		

592-903439	9/6/2022 10:52:19 AM		0.1		
592-903439	9/6/2022 10:52:04 AM		0.1		
592-903439	9/6/2022 10:51:49 AM		0.1		
592-903439	9/6/2022 10:51:34 AM		0.1		
592-903439	9/6/2022 10:51:19 AM		0.1		
592-903439	9/6/2022 10:51:04 AM		0.1		
592-903439	9/6/2022 10:50:49 AM		0.1		
592-903439	9/6/2022 10:50:34 AM		0.1		
592-903439	9/6/2022 10:50:19 AM		0.1		
592-903439	9/6/2022 10:50:04 AM		0.1		
592-903439	9/6/2022 10:49:49 AM		0.1		
592-903439	9/6/2022 10:49:34 AM		0.1		
592-903439	9/6/2022 10:49:19 AM		0.1		
592-903439	9/6/2022 10:49:04 AM		0.1		
592-903439	9/6/2022 10:48:49 AM		0.1		
592-903439	9/6/2022 10:48:34 AM		0.1		
592-903439	9/6/2022 10:48:19 AM		0.1		
592-903439	9/6/2022 10:48:04 AM		0.1		
592-903439	9/6/2022 10:47:49 AM		0.1		
592-903439	9/6/2022 10:47:34 AM		0.1		
592-903439	9/6/2022 10:47:19 AM		0.1		
592-903439	9/6/2022 10:47:04 AM		0.1		
592-903439	9/6/2022 10:46:49 AM		0.1		
592-903439	9/6/2022 10:46:34 AM		0.1		
592-903439	9/6/2022 10:46:19 AM		0.1		
592-903439	9/6/2022 10:46:04 AM		0.2		
592-903439	9/6/2022 10:45:49 AM		0.2		
592-903439	9/6/2022 10:45:34 AM		0.2		
592-903439	9/6/2022 10:45:19 AM		0.2		
592-903439	9/6/2022 10:45:04 AM		0.2		
592-903439	9/6/2022 10:44:49 AM		0.2		
592-903439	9/6/2022 10:44:34 AM		0.2		
592-903439	9/6/2022 10:44:19 AM		0.2		
592-903439	9/6/2022 10:44:04 AM		0.2		
592-903439	9/6/2022 10:43:49 AM		0.2		
592-903439	9/6/2022 10:43:34 AM		0.2		
592-903439	9/6/2022 10:43:19 AM		0.3		
592-903439	9/6/2022 10:43:04 AM		0.3		
592-903439	9/6/2022 10:42:49 AM	ppm		9/6/2022 10:42:49 AM	9/6/2022 4:26:34 PM
			0.1000		

Downwind Station 048610

PINE # 44806

Device Serial No	Log Time	Sensor 1 Display Unit	Sensor 1 Gas Reading	Session Start Time	Session Stop Time
592-928663	9/6/2022 4:35:00 PM		0.3		
592-928663	9/6/2022 4:34:00 PM		0.3		
592-928663	9/6/2022 4:33:00 PM		0.3		
592-928663	9/6/2022 4:32:00 PM		0.3		
592-928663	9/6/2022 4:31:00 PM		0.3		
592-928663	9/6/2022 4:30:00 PM		0.3		
592-928663	9/6/2022 4:29:00 PM		0.3		
592-928663	9/6/2022 4:28:00 PM		0.3		
592-928663	9/6/2022 4:27:00 PM		0.3		
592-928663	9/6/2022 4:26:00 PM		0.3		
592-928663	9/6/2022 4:25:00 PM		0.3		
592-928663	9/6/2022 4:24:00 PM		0.3		
592-928663	9/6/2022 4:23:00 PM		0.3		
592-928663	9/6/2022 4:22:00 PM		0.3		
592-928663	9/6/2022 4:21:00 PM		0.3		
592-928663	9/6/2022 4:20:00 PM		0.3		
592-928663	9/6/2022 4:19:00 PM		0.3		
592-928663	9/6/2022 4:18:00 PM		0.3		
592-928663	9/6/2022 4:17:00 PM		0.3		
592-928663	9/6/2022 4:16:00 PM		0.3		
592-928663	9/6/2022 4:15:00 PM		0.3		
592-928663	9/6/2022 4:14:00 PM		0.3		
592-928663	9/6/2022 4:13:00 PM		0.3		
592-928663	9/6/2022 4:12:00 PM		0.3		
592-928663	9/6/2022 4:11:00 PM		0.3		
592-928663	9/6/2022 4:10:00 PM		0.3		
592-928663	9/6/2022 4:09:00 PM		0.3		
592-928663	9/6/2022 4:08:00 PM		0.3		
592-928663	9/6/2022 4:07:00 PM		0.3		
592-928663	9/6/2022 4:06:00 PM		0.3		
592-928663	9/6/2022 4:05:00 PM		0.3		
592-928663	9/6/2022 4:04:00 PM		0.3		
592-928663	9/6/2022 4:03:00 PM		0.3		
592-928663	9/6/2022 4:02:00 PM		0.3		
592-928663	9/6/2022 4:01:00 PM		0.3		
592-928663	9/6/2022 4:00:00 PM		0.3		
592-928663	9/6/2022 3:59:00 PM		0.3		
592-928663	9/6/2022 3:58:00 PM		0.3		
592-928663	9/6/2022 3:57:00 PM		0.3		
592-928663	9/6/2022 3:56:00 PM		0.3		
592-928663	9/6/2022 3:55:00 PM		0.3		
592-928663	9/6/2022 3:54:00 PM		0.3		
592-928663	9/6/2022 3:53:00 PM		0.3		
592-928663	9/6/2022 3:52:00 PM		0.3		
592-928663	9/6/2022 3:51:00 PM		0.3		
592-928663	9/6/2022 3:50:00 PM		0.3		
592-928663	9/6/2022 3:49:00 PM		0.3		
592-928663	9/6/2022 3:48:00 PM		0.3		
592-928663	9/6/2022 3:47:00 PM		0.3		
592-928663	9/6/2022 3:46:00 PM		0.3		
592-928663	9/6/2022 3:45:00 PM		0.3		
592-928663	9/6/2022 3:44:00 PM		0.3		
592-928663	9/6/2022 3:43:00 PM		0.3		
592-928663	9/6/2022 3:42:00 PM		0.3		
592-928663	9/6/2022 3:41:00 PM		0.3		
592-928663	9/6/2022 3:40:00 PM		0.3		
592-928663	9/6/2022 3:39:00 PM		0.3		
592-928663	9/6/2022 3:38:00 PM		0.3		
592-928663	9/6/2022 3:37:00 PM		0.3		
592-928663	9/6/2022 3:36:00 PM		0.3		
592-928663	9/6/2022 3:35:00 PM		0.3		
592-928663	9/6/2022 3:34:00 PM		0.3		
592-928663	9/6/2022 3:33:00 PM		0.3		
592-928663	9/6/2022 3:32:00 PM		0.3		
592-928663	9/6/2022 3:31:00 PM		0.3		
592-928663	9/6/2022 3:30:00 PM		0.3		
592-928663	9/6/2022 3:29:00 PM		0.3		
592-928663	9/6/2022 3:28:00 PM		0.3		
592-928663	9/6/2022 3:27:00 PM		0.3		
592-928663	9/6/2022 3:26:00 PM		0.3		
592-928663	9/6/2022 3:25:00 PM		0.3		
592-928663	9/6/2022 3:24:00 PM		0.3		

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530171606
Firmware Version	3.1
Calibration Date	1/20/2022
Test Name	MANUAL_008
Test Start Time	11:21:41 AM
Test Start Date	9/6/2022
Test Length [D:H:M]	0:05:00
Test Interval [M:S]	15:00
Mass Average [mg/m3]	0.001
Mass Minimum [mg/m3]	0
Mass Maximum [mg/m3]	0.004
Mass TWA [mg/m3]	0
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	20

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
900	0.001		
1800	0.001		
2700	0.001		
3600	0.001		
4500	0.004		
5400	0.001		
6300	0		
7200	0		
8100	0		
9000	0		
9900	0.001		
10800	0		
11700	0		
12600	0		
13500	0		
14400	0		
15300	0		
16200	0		
17100	0		
18000	0		
Max	4		

592-928663	9/6/2022 3:23:00 PM		0.3			
592-928663	9/6/2022 3:22:00 PM		0.3			
592-928663	9/6/2022 3:21:00 PM		0.3			
592-928663	9/6/2022 3:20:00 PM		0.3			
592-928663	9/6/2022 3:19:00 PM		0.3			
592-928663	9/6/2022 3:18:00 PM		0.3			
592-928663	9/6/2022 3:17:00 PM		0.3			
592-928663	9/6/2022 3:16:00 PM		0.3			
592-928663	9/6/2022 3:15:00 PM		0.3			
592-928663	9/6/2022 3:14:00 PM		0.3			
592-928663	9/6/2022 3:13:00 PM		0.3			
592-928663	9/6/2022 3:12:00 PM		0.3			
592-928663	9/6/2022 3:11:00 PM		0.3			
592-928663	9/6/2022 3:10:00 PM		0.3			
592-928663	9/6/2022 3:09:00 PM		0.3			
592-928663	9/6/2022 3:08:00 PM		0.3			
592-928663	9/6/2022 3:07:00 PM		0.3			
592-928663	9/6/2022 3:06:00 PM		0.3			
592-928663	9/6/2022 3:05:00 PM		0.3			
592-928663	9/6/2022 3:04:00 PM		0.3			
592-928663	9/6/2022 3:03:00 PM		0.3			
592-928663	9/6/2022 3:02:00 PM		0.3			
592-928663	9/6/2022 3:01:00 PM		0.3			
592-928663	9/6/2022 3:00:00 PM		0.3			
592-928663	9/6/2022 2:59:00 PM		0.3			
592-928663	9/6/2022 2:58:00 PM		0.3			
592-928663	9/6/2022 2:57:00 PM		0.3			
592-928663	9/6/2022 2:56:00 PM		0.3			
592-928663	9/6/2022 2:55:00 PM		0.3			
592-928663	9/6/2022 2:54:00 PM		0.3			
592-928663	9/6/2022 2:53:00 PM		0.3			
592-928663	9/6/2022 2:52:00 PM		0.3			
592-928663	9/6/2022 2:51:00 PM		0.3			
592-928663	9/6/2022 2:50:00 PM		0.3			
592-928663	9/6/2022 2:49:00 PM		0.3			
592-928663	9/6/2022 2:48:00 PM		0.3			
592-928663	9/6/2022 2:47:00 PM		0.3			
592-928663	9/6/2022 2:46:00 PM		0.3			
592-928663	9/6/2022 2:45:00 PM		0.3			
592-928663	9/6/2022 2:44:00 PM		0.3			
592-928663	9/6/2022 2:43:00 PM		0.3			
592-928663	9/6/2022 2:42:00 PM		0.3			
592-928663	9/6/2022 2:41:00 PM		0.3			
592-928663	9/6/2022 2:40:00 PM		0.3			
592-928663	9/6/2022 2:39:00 PM		0.3			
592-928663	9/6/2022 2:38:00 PM		0.3			
592-928663	9/6/2022 2:37:00 PM		0.3			
592-928663	9/6/2022 2:36:00 PM		0.3			
592-928663	9/6/2022 2:35:00 PM		0.3			
592-928663	9/6/2022 2:34:00 PM		0.3			
592-928663	9/6/2022 2:33:00 PM		0.3			
592-928663	9/6/2022 2:32:00 PM		0.3			
592-928663	9/6/2022 2:31:00 PM		0.3			
592-928663	9/6/2022 2:30:00 PM		0.3			
592-928663	9/6/2022 2:29:00 PM		0.3			
592-928663	9/6/2022 2:28:00 PM		0.3			
592-928663	9/6/2022 2:27:00 PM		0.3			
592-928663	9/6/2022 2:26:00 PM		0.3			
592-928663	9/6/2022 2:25:00 PM		0.3			
592-928663	9/6/2022 2:24:00 PM		0.3			
592-928663	9/6/2022 2:23:00 PM		0.3			
592-928663	9/6/2022 2:22:00 PM		0.3			
592-928663	9/6/2022 2:21:00 PM		0.3			
592-928663	9/6/2022 2:20:00 PM		0.3			
592-928663	9/6/2022 2:19:00 PM		0.3			
592-928663	9/6/2022 2:18:00 PM		0.3			
592-928663	9/6/2022 2:17:00 PM		0.3			
592-928663	9/6/2022 2:16:00 PM		0.3			
592-928663	9/6/2022 2:15:00 PM		0.3			
592-928663	9/6/2022 2:14:00 PM		0.3			
592-928663	9/6/2022 2:13:00 PM		0.3			
592-928663	9/6/2022 2:12:00 PM		0.3			
592-928663	9/6/2022 2:11:00 PM		0.3			
592-928663	9/6/2022 2:10:00 PM		0.3			
592-928663	9/6/2022 2:09:00 PM		0.3			
592-928663	9/6/2022 2:08:00 PM		0.3			
592-928663	9/6/2022 2:07:00 PM		0.3			

592-928663	9/6/2022 2:06:00 PM		0.3			
592-928663	9/6/2022 2:05:00 PM		0.3			
592-928663	9/6/2022 2:04:00 PM		0.3			
592-928663	9/6/2022 2:03:00 PM		0.3			
592-928663	9/6/2022 2:02:00 PM		0.3			
592-928663	9/6/2022 2:01:00 PM		0.3			
592-928663	9/6/2022 2:00:00 PM		0.3			
592-928663	9/6/2022 1:59:00 PM		0.3			
592-928663	9/6/2022 1:58:00 PM		0.3			
592-928663	9/6/2022 1:57:00 PM		0.3			
592-928663	9/6/2022 1:56:00 PM		0.3			
592-928663	9/6/2022 1:55:00 PM		0.3			
592-928663	9/6/2022 1:54:00 PM		0.3			
592-928663	9/6/2022 1:53:00 PM		0.3			
592-928663	9/6/2022 1:52:00 PM		0.3			
592-928663	9/6/2022 1:51:00 PM		0.3			
592-928663	9/6/2022 1:50:00 PM		0.3			
592-928663	9/6/2022 1:49:00 PM		0.3			
592-928663	9/6/2022 1:48:00 PM		0.3			
592-928663	9/6/2022 1:47:00 PM		0.3			
592-928663	9/6/2022 1:46:00 PM		0.3			
592-928663	9/6/2022 1:45:00 PM		0.3			
592-928663	9/6/2022 1:44:00 PM		0.3			
592-928663	9/6/2022 1:43:00 PM		0.3			
592-928663	9/6/2022 1:42:00 PM		0.3			
592-928663	9/6/2022 1:41:00 PM		0.3			
592-928663	9/6/2022 1:40:00 PM		0.3			
592-928663	9/6/2022 1:39:00 PM		0.3			
592-928663	9/6/2022 1:38:00 PM		0.3			
592-928663	9/6/2022 1:37:00 PM		0.3			
592-928663	9/6/2022 1:36:00 PM		0.3			
592-928663	9/6/2022 1:35:00 PM		0.3			
592-928663	9/6/2022 1:34:00 PM		0.3			
592-928663	9/6/2022 1:33:00 PM		0.3			
592-928663	9/6/2022 1:32:00 PM		0.3			
592-928663	9/6/2022 1:31:00 PM		0.3			
592-928663	9/6/2022 1:30:00 PM		0.3			
592-928663	9/6/2022 1:29:00 PM		0.3			
592-928663	9/6/2022 1:28:00 PM		0.3			
592-928663	9/6/2022 1:27:00 PM		0.3			
592-928663	9/6/2022 1:26:00 PM		0.3			
592-928663	9/6/2022 1:25:00 PM		0.3			
592-928663	9/6/2022 1:24:00 PM		0.3			
592-928663	9/6/2022 1:23:00 PM		0.3			
592-928663	9/6/2022 1:22:00 PM		0.3			
592-928663	9/6/2022 1:21:00 PM		0.3			
592-928663	9/6/2022 1:20:00 PM		0.3			
592-928663	9/6/2022 1:19:00 PM		0.3			
592-928663	9/6/2022 1:18:00 PM		0.4			
592-928663	9/6/2022 1:17:00 PM		0.3			
592-928663	9/6/2022 1:16:00 PM		0.3			
592-928663	9/6/2022 1:15:00 PM		0.3			
592-928663	9/6/2022 1:14:00 PM		0.2			
592-928663	9/6/2022 1:13:00 PM		0.3			
592-928663	9/6/2022 1:12:00 PM		0.2			
592-928663	9/6/2022 1:11:00 PM		0.3			
592-928663	9/6/2022 1:10:00 PM		0.3			
592-928663	9/6/2022 1:09:00 PM		0.2			
592-928663	9/6/2022 1:08:00 PM		0.3			
592-928663	9/6/2022 1:07:00 PM		0.2			
592-928663	9/6/2022 1:06:00 PM		0.3			
592-928663	9/6/2022 1:05:00 PM		0.2			
592-928663	9/6/2022 1:04:00 PM		0.2			
592-928663	9/6/2022 1:03:00 PM		0.2			
592-928663	9/6/2022 1:02:00 PM		0.2			
592-928663	9/6/2022 1:01:00 PM		0.2			
592-928663	9/6/2022 1:00:00 PM		0.2			
592-928663	9/6/2022 12:59:00 PM		0.2			
592-928663	9/6/2022 12:58:00 PM		0.2			
592-928663	9/6/2022 12:57:00 PM		0.2			
592-928663	9/6/2022 12:56:00 PM		0.2			
592-928663	9/6/2022 12:55:00 PM		0.2			
592-928663	9/6/2022 12:54:00 PM		0.2			
592-928663	9/6/2022 12:53:00 PM		0.2			
592-928663	9/6/2022 12:52:00 PM		0.2			
592-928663	9/6/2022 12:51:00 PM		0.2			
592-928663	9/6/2022 12:50:00 PM		0.2			

592-928663	9/6/2022 12:49:00 PM		0.2			
592-928663	9/6/2022 12:48:00 PM		0.2			
592-928663	9/6/2022 12:47:00 PM		0.2			
592-928663	9/6/2022 12:46:00 PM		0.2			
592-928663	9/6/2022 12:45:00 PM		0.2			
592-928663	9/6/2022 12:44:00 PM		0.2			
592-928663	9/6/2022 12:43:00 PM		0.2			
592-928663	9/6/2022 12:42:00 PM		0.2			
592-928663	9/6/2022 12:41:00 PM		0.2			
592-928663	9/6/2022 12:40:00 PM		0.2			
592-928663	9/6/2022 12:39:00 PM		0.2			
592-928663	9/6/2022 12:38:00 PM		0.2			
592-928663	9/6/2022 12:37:00 PM		0.2			
592-928663	9/6/2022 12:36:00 PM		0.2			
592-928663	9/6/2022 12:35:00 PM		0.2			
592-928663	9/6/2022 12:34:00 PM		0.2			
592-928663	9/6/2022 12:33:00 PM		0.2			
592-928663	9/6/2022 12:32:00 PM		0.2			
592-928663	9/6/2022 12:31:00 PM		0.2			
592-928663	9/6/2022 12:30:00 PM		0.2			
592-928663	9/6/2022 12:29:00 PM		0.2			
592-928663	9/6/2022 12:28:00 PM		0.2			
592-928663	9/6/2022 12:27:00 PM		0.2			
592-928663	9/6/2022 12:26:00 PM		0.2			
592-928663	9/6/2022 12:25:00 PM		0.2			
592-928663	9/6/2022 12:24:00 PM		0.2			
592-928663	9/6/2022 12:23:00 PM		0.2			
592-928663	9/6/2022 12:22:00 PM		0.2			
592-928663	9/6/2022 12:21:00 PM		0.2			
592-928663	9/6/2022 12:20:00 PM		0.2			
592-928663	9/6/2022 12:19:00 PM		0.2			
592-928663	9/6/2022 12:18:00 PM		0.2			
592-928663	9/6/2022 12:17:00 PM		0.2			
592-928663	9/6/2022 12:16:00 PM		0.2			
592-928663	9/6/2022 12:15:00 PM		0.2			
592-928663	9/6/2022 12:14:00 PM		0.2			
592-928663	9/6/2022 12:13:00 PM		0.2			
592-928663	9/6/2022 12:12:00 PM		0.2			
592-928663	9/6/2022 12:11:00 PM		0.2			
592-928663	9/6/2022 12:10:00 PM		0.2			
592-928663	9/6/2022 12:09:00 PM		0.2			
592-928663	9/6/2022 12:08:00 PM		0.1			
592-928663	9/6/2022 12:07:00 PM		0.1			
592-928663	9/6/2022 12:06:00 PM		0.1			
592-928663	9/6/2022 12:05:00 PM		0.1			
592-928663	9/6/2022 12:04:00 PM		0.1			
592-928663	9/6/2022 12:03:00 PM		0.1			
592-928663	9/6/2022 12:02:00 PM		0.1			
592-928663	9/6/2022 12:01:00 PM		0.1			
592-928663	9/6/2022 12:00:00 PM		0.1			
592-928663	9/6/2022 11:59:00 AM		0.1			
592-928663	9/6/2022 11:58:00 AM		0.1			
592-928663	9/6/2022 11:57:00 AM		0.1			
592-928663	9/6/2022 11:56:00 AM		0.1			
592-928663	9/6/2022 11:55:00 AM		0.1			
592-928663	9/6/2022 11:54:00 AM		0.1			
592-928663	9/6/2022 11:53:00 AM		0.1			
592-928663	9/6/2022 11:52:00 AM		0.1			
592-928663	9/6/2022 11:51:00 AM		0.1			
592-928663	9/6/2022 11:50:00 AM		0.1			
592-928663	9/6/2022 11:49:00 AM		0.1			
592-928663	9/6/2022 11:48:00 AM		0.1			
592-928663	9/6/2022 11:47:00 AM		0.1			
592-928663	9/6/2022 11:46:00 AM		0.1			
592-928663	9/6/2022 11:45:00 AM		0.1			
592-928663	9/6/2022 11:44:00 AM		0.1			
592-928663	9/6/2022 11:43:00 AM		0.1			
592-928663	9/6/2022 11:42:00 AM		0.1			
592-928663	9/6/2022 11:41:00 AM		0.1			
592-928663	9/6/2022 11:40:00 AM		0.1			
592-928663	9/6/2022 11:39:00 AM		0.1			
592-928663	9/6/2022 11:38:00 AM		0.1			
592-928663	9/6/2022 11:37:00 AM		0.1			
592-928663	9/6/2022 11:36:00 AM		0.1			
592-928663	9/6/2022 11:35:00 AM		0.1			
592-928663	9/6/2022 11:34:00 AM		0.1			
592-928663	9/6/2022 11:33:00 AM		0.1			

592-928663	9/6/2022 11:32:00 AM		0.1			
592-928663	9/6/2022 11:31:00 AM		0.1			
592-928663	9/6/2022 11:30:00 AM		0.1			
592-928663	9/6/2022 11:29:00 AM		0.1			
592-928663	9/6/2022 11:28:00 AM		0.1			
592-928663	9/6/2022 11:27:00 AM		0.1			
592-928663	9/6/2022 11:26:00 AM		0.1			
592-928663	9/6/2022 11:25:00 AM		0.1			
592-928663	9/6/2022 11:24:00 AM		0.1			
592-928663	9/6/2022 11:23:00 AM		0.1			
592-928663	9/6/2022 11:22:00 AM		0.1			
592-928663	9/6/2022 11:21:00 AM		0.1			
592-928663	9/6/2022 11:20:00 AM		0.1			
592-928663	9/6/2022 11:19:00 AM		0.1			
592-928663	9/6/2022 11:18:00 AM		0.1			
592-928663	9/6/2022 11:17:00 AM		0.1			
592-928663	9/6/2022 11:16:00 AM		0			
592-928663	9/6/2022 11:15:00 AM		0			
592-928663	9/6/2022 11:14:00 AM		0.1			
592-928663	9/6/2022 11:13:00 AM		0			
592-928663	9/6/2022 11:12:00 AM		0			
592-928663	9/6/2022 11:11:00 AM		0			
592-928663	9/6/2022 11:10:00 AM		0			
592-928663	9/6/2022 11:09:00 AM		0.1			
592-928663	9/6/2022 11:08:00 AM		0			
592-928663	9/6/2022 11:07:00 AM		0			
592-928663	9/6/2022 11:06:00 AM		0			
592-928663	9/6/2022 11:05:00 AM		0			
592-928663	9/6/2022 11:04:00 AM		0.1			
592-928663	9/6/2022 11:03:00 AM		0			
592-928663	9/6/2022 11:02:00 AM		0			
592-928663	9/6/2022 11:01:00 AM		0			
592-928663	9/6/2022 11:00:00 AM		0			
592-928663	9/6/2022 10:59:00 AM		0			
592-928663	9/6/2022 10:58:00 AM		0			
592-928663	9/6/2022 10:57:00 AM		0			
592-928663	9/6/2022 10:56:00 AM		0			
592-928663	9/6/2022 10:55:00 AM		0			
592-928663	9/6/2022 10:54:00 AM		0			
592-928663	9/6/2022 10:53:00 AM		0			
592-928663	9/6/2022 10:52:00 AM		0			
592-928663	9/6/2022 10:51:00 AM		0			
592-928663	9/6/2022 10:50:00 AM		0			
592-928663	9/6/2022 10:49:00 AM		0			
592-928663	9/6/2022 10:48:00 AM		0			
592-928663	9/6/2022 10:47:00 AM		0			
592-928663	9/6/2022 10:46:00 AM		0			
592-928663	9/6/2022 10:45:00 AM		0			
592-928663	9/6/2022 10:44:00 AM		0			
592-928663	9/6/2022 10:43:00 AM		0			
592-928663	9/6/2022 10:42:00 AM		0			
592-928663	9/6/2022 10:41:00 AM		0			
592-928663	9/6/2022 10:40:00 AM		0			
592-928663	9/6/2022 10:39:00 AM	ppm	0.4	9/6/2022 10:39	9/6/2022 4:35:00 PM	

Upwind Station 048610
Pine PID: 44806

Device Serial No	Log Time	Sensor 1 Display Unit	Sensor 1 Gas Reading	Session Start Time	Session Stop Time
592-928663	9/7/2022 3:44:10 PM		0.00		
592-928663	9/7/2022 3:43:10 PM		0.00		
592-928663	9/7/2022 3:42:10 PM		0.00		
592-928663	9/7/2022 3:41:10 PM		0.00		
592-928663	9/7/2022 3:40:10 PM		0.00		
592-928663	9/7/2022 3:39:10 PM		0.00		
592-928663	9/7/2022 3:38:10 PM		0.00		
592-928663	9/7/2022 3:37:10 PM		0.00		
592-928663	9/7/2022 3:36:10 PM		0.00		
592-928663	9/7/2022 3:35:10 PM		0.00		
592-928663	9/7/2022 3:34:10 PM		0.00		
592-928663	9/7/2022 3:33:10 PM		0.00		
592-928663	9/7/2022 3:32:10 PM		0.00		
592-928663	9/7/2022 3:31:10 PM		0.00		
592-928663	9/7/2022 3:30:10 PM		0.00		
592-928663	9/7/2022 3:29:10 PM		0.00		
592-928663	9/7/2022 3:28:10 PM		0.00		
592-928663	9/7/2022 3:27:10 PM		0.00		
592-928663	9/7/2022 3:26:10 PM		0.00		
592-928663	9/7/2022 3:25:10 PM		0.00		
592-928663	9/7/2022 3:24:10 PM		0.00		
592-928663	9/7/2022 3:23:10 PM		0.00		
592-928663	9/7/2022 3:22:10 PM		0.00		
592-928663	9/7/2022 3:21:10 PM		0.00		
592-928663	9/7/2022 3:20:10 PM		0.00		
592-928663	9/7/2022 3:19:10 PM		0.00		
592-928663	9/7/2022 3:18:10 PM		0.00		
592-928663	9/7/2022 3:17:10 PM		0.00		
592-928663	9/7/2022 3:16:10 PM		0.00		
592-928663	9/7/2022 3:15:10 PM		0.00		
592-928663	9/7/2022 3:14:10 PM		0.00		
592-928663	9/7/2022 3:13:10 PM		0.00		
592-928663	9/7/2022 3:12:10 PM		0.00		
592-928663	9/7/2022 3:11:10 PM		0.00		
592-928663	9/7/2022 3:10:10 PM		0.00		
592-928663	9/7/2022 3:09:10 PM		0.00		
592-928663	9/7/2022 3:08:10 PM		0.00		
592-928663	9/7/2022 3:07:10 PM		0.00		
592-928663	9/7/2022 3:06:10 PM		0.00		
592-928663	9/7/2022 3:05:10 PM		0.00		
592-928663	9/7/2022 3:04:10 PM		0.00		
592-928663	9/7/2022 3:03:10 PM		0.00		
592-928663	9/7/2022 3:02:10 PM		0.00		
592-928663	9/7/2022 3:01:10 PM		0.00		
592-928663	9/7/2022 3:00:10 PM		0.00		
592-928663	9/7/2022 2:59:10 PM		0.00		
592-928663	9/7/2022 2:58:10 PM		0.00		
592-928663	9/7/2022 2:57:10 PM		0.00		
592-928663	9/7/2022 2:56:10 PM		0.00		
592-928663	9/7/2022 2:55:10 PM		0.00		
592-928663	9/7/2022 2:54:10 PM		0.00		
592-928663	9/7/2022 2:53:10 PM		0.00		
592-928663	9/7/2022 2:52:10 PM		0.00		
592-928663	9/7/2022 2:51:10 PM		0.00		
592-928663	9/7/2022 2:50:10 PM		0.00		
592-928663	9/7/2022 2:49:10 PM		0.00		
592-928663	9/7/2022 2:48:10 PM		0.00		
592-928663	9/7/2022 2:47:10 PM		0.00		
592-928663	9/7/2022 2:46:10 PM		0.00		
592-928663	9/7/2022 2:45:10 PM		0.00		
592-928663	9/7/2022 2:44:10 PM		0.00		
592-928663	9/7/2022 2:43:10 PM		0.00		
592-928663	9/7/2022 2:42:10 PM		0.00		
592-928663	9/7/2022 2:41:10 PM		0.00		
592-928663	9/7/2022 2:40:10 PM		0.00		
592-928663	9/7/2022 2:39:10 PM		0.00		
592-928663	9/7/2022 2:38:10 PM		0.00		
592-928663	9/7/2022 2:37:10 PM		0.00		
592-928663	9/7/2022 2:36:10 PM		0.00		
592-928663	9/7/2022 2:35:10 PM		0.00		
592-928663	9/7/2022 2:34:10 PM		0.00		

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530171606
Firmware Version	3.1
Calibration Date	1/20/2022
Test Name	MANUAL_009
Test Start Time	8:34:02 AM
Test Start Date	9/7/2022
Test Length [D:H:M]	0:06:45
Test Interval [M:S]	15:00
Mass Average [mg/m3]	0.001
Mass Minimum [mg/m3]	0
Mass Maximum [mg/m3]	0.004
Mass TWA [mg/m3]	0.001
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	27

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
900	0.004		
1800	0.004		
2700	0.003		
3600	0.002		
4500	0.002		
5400	0.001		
6300	0.001		
7200	0.001		
8100	0.001		
9000	0.001		
9900	0.001		
10800	0		
11700	0.001		
12600	0.001		
13500	0		
14400	0		
15300	0		
16200	0		
17100	0		
18000	0		
18900	0		
19800	0		
20700	0		
21600	0		
22500	0		
23400	0		
24300	0		
	4		

592-928663	9/7/2022 2:33:10 PM		0.00			
592-928663	9/7/2022 2:32:10 PM		0.00			
592-928663	9/7/2022 2:31:10 PM		0.00			
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592-928663	9/7/2022 9:17:10 AM		0.00		
592-928663	9/7/2022 9:16:10 AM		0.00		
592-928663	9/7/2022 9:15:10 AM		0.00		
592-928663	9/7/2022 9:14:10 AM		0.00		
592-928663	9/7/2022 9:13:10 AM		0.00		
592-928663	9/7/2022 9:12:10 AM		0.00		
592-928663	9/7/2022 9:11:10 AM		0.00		
592-928663	9/7/2022 9:10:10 AM		0.00		
592-928663	9/7/2022 9:09:10 AM		0.00		
592-928663	9/7/2022 9:08:10 AM		0.00		
592-928663	9/7/2022 9:07:10 AM		0.00		
592-928663	9/7/2022 9:06:10 AM		0.00		
592-928663	9/7/2022 9:05:10 AM		0.00		
592-928663	9/7/2022 9:04:10 AM		0.00		
592-928663	9/7/2022 9:03:10 AM		0.00		
592-928663	9/7/2022 9:02:10 AM		0.00		
592-928663	9/7/2022 9:01:10 AM		0.00		
592-928663	9/7/2022 9:00:10 AM		0.00		
592-928663	9/7/2022 8:59:10 AM		0.00		
592-928663	9/7/2022 8:58:10 AM		0.00		
592-928663	9/7/2022 8:57:10 AM		0.00		
592-928663	9/7/2022 8:56:10 AM		0.00		
592-928663	9/7/2022 8:55:10 AM		0.00		
592-928663	9/7/2022 8:54:10 AM		0.00		
592-928663	9/7/2022 8:53:10 AM		0.00		
592-928663	9/7/2022 8:52:10 AM		0.00		
592-928663	9/7/2022 8:51:10 AM		0.00		
592-928663	9/7/2022 8:50:10 AM		0.00		
592-928663	9/7/2022 8:49:10 AM		0.00		
592-928663	9/7/2022 8:48:10 AM		0.00		
592-928663	9/7/2022 8:47:10 AM	ppm		9/7/2022 8:47:10 AM	9/7/2022 3:44:10 PM
592-928663	9/7/2022 7:59:26 AM		0.0		

0.000

Downwind Station 47161

Pine PID: 16232

End Time	47161 Battery Voltage (Avg)	47161 Battery Percentage (Avg)	47161 Dust Trak Mass Conc. Total (Avg)	47161 Dust Trak TWA (Avg)	47161 Dust Trak Internal Battery (Avg)	47161 MiniRae VOC (Avg)	47161 MiniRae TWA (Avg)	Device Serial No	Log Time	Sensor 1 Display Unit	Sensor 1 Gas Reading	Session Start Time	Session Stop Time
Sep 7 2022 7:10:00 AM								592-903439	9/7/2022 3:45:27 PM		0.1		
Sep 7 2022 7:20:00 AM								592-903439	9/7/2022 3:45:12 PM		0.1		
Sep 7 2022 7:30:00 AM								592-903439	9/7/2022 3:44:57 PM		0.1		
Sep 7 2022 7:40:00 AM								592-903439	9/7/2022 3:44:42 PM		0.1		
Sep 7 2022 7:50:00 AM								592-903439	9/7/2022 3:44:27 PM		0.1		
Sep 7 2022 8:00:00 AM								592-903439	9/7/2022 3:44:12 PM		0.1		
Sep 7 2022 8:10:00 AM								592-903439	9/7/2022 3:43:57 PM		0.1		
Sep 7 2022 8:20:00 AM								592-903439	9/7/2022 3:43:42 PM		0.1		
Sep 7 2022 8:30:00 AM								592-903439	9/7/2022 3:43:27 PM		0.1		
Sep 7 2022 8:40:00 AM	12.286	99.391	0.004	0	97.455			592-903439	9/7/2022 3:43:12 PM		0.1		
Sep 7 2022 8:50:00 AM	12.286	99.391	0.004	0	96.357			592-903439	9/7/2022 3:42:57 PM		0.1		
Sep 7 2022 9:00:00 AM	12.286	99.391	0.003	0	95.207			592-903439	9/7/2022 3:42:42 PM		0.1		
Sep 7 2022 9:10:00 AM	12.286	99.391	0.003	0	93.915			592-903439	9/7/2022 3:42:27 PM		0.1		
Sep 7 2022 9:20:00 AM	12.286	99.391	0.003	0	92.702			592-903439	9/7/2022 3:42:12 PM		0.1		
Sep 7 2022 9:30:00 AM	12.286	99.391	0.003	0	91.528			592-903439	9/7/2022 3:41:57 PM		0.1		
Sep 7 2022 9:40:00 AM	12.286	99.391	0.003	0	90.357			592-903439	9/7/2022 3:41:42 PM		0.1		
Sep 7 2022 9:50:00 AM	12.286	99.391	0.003	0.001	89.183			592-903439	9/7/2022 3:41:27 PM		0.1		
Sep 7 2022 10:00:00 AM	12.286	99.391	0.003	0.001	87.833			592-903439	9/7/2022 3:41:12 PM		0.1		
Sep 7 2022 10:10:00 AM	12.286	99.391	0.003	0.001	86.657			592-903439	9/7/2022 3:40:57 PM		0.1		
Sep 7 2022 10:20:00 AM	12.286	99.391	0.003	0.001	85.453			592-903439	9/7/2022 3:40:42 PM		0.1		
Sep 7 2022 10:30:00 AM	12.286	99.391	0.004	0.001	84.28			592-903439	9/7/2022 3:40:27 PM		0.1		
Sep 7 2022 10:40:00 AM	12.286	99.391	0.004	0.001	83.01			592-903439	9/7/2022 3:40:12 PM		0.1		
Sep 7 2022 10:50:00 AM	12.286	99.391	0.004	0.001	81.73			592-903439	9/7/2022 3:39:57 PM		0.1		
Sep 7 2022 11:00:00 AM	12.286	99.391	0.005	0.001	80.528			592-903439	9/7/2022 3:39:42 PM		0.1		
Sep 7 2022 11:10:00 AM	12.286	99.391	0.004	0.001	79.332			592-903439	9/7/2022 3:39:27 PM		0.1		
Sep 7 2022 11:20:00 AM	12.286	99.391	0.004	0.001	78.062			592-903439	9/7/2022 3:39:12 PM		0.1		
Sep 7 2022 11:30:00 AM	12.286	99.391	0.005	0.001	76.732			592-903439	9/7/2022 3:38:57 PM		0.1		
Sep 7 2022 11:40:00 AM	12.286	99.391	0.018	0.002	75.558			592-903439	9/7/2022 3:38:42 PM		0.1		
Sep 7 2022 11:50:00 AM	12.286	99.391	0.007	0.002	74.333			592-903439	9/7/2022 3:38:27 PM		0.1		
Sep 7 2022 12:00:00 PM	12.286	99.391	0.004	0.002	73.065			592-903439	9/7/2022 3:38:12 PM		0.1		
Sep 7 2022 12:10:00 PM	12.286	99.391	0.004	0.002	71.703			592-903439	9/7/2022 3:37:57 PM		0.1		
Sep 7 2022 12:20:00 PM	12.286	99.391	0.004	0.002	70.507			592-903439	9/7/2022 3:37:42 PM		0.1		
Sep 7 2022 12:30:00 PM	12.286	99.391	0.004	0.002	69.282			592-903439	9/7/2022 3:37:27 PM		0.1		
Sep 7 2022 12:40:00 PM	12.286	99.391	0.004	0.002	67.938			592-903439	9/7/2022 3:37:12 PM		0.1		
Sep 7 2022 12:50:00 PM	12.286	99.391	0.005	0.002	66.635			592-903439	9/7/2022 3:36:57 PM		0.1		
Sep 7 2022 1:00:00 PM	12.286	99.391	0.005	0.002	65.433			592-903439	9/7/2022 3:36:42 PM		0.1		
Sep 7 2022 1:10:00 PM	12.286	99.391	0.06	0.003	64.192			592-903439	9/7/2022 3:36:27 PM		0.1		
Sep 7 2022 1:20:00 PM	12.286	99.391	0.008	0.004	62.758			592-903439	9/7/2022 3:36:12 PM		0.1		
Sep 7 2022 1:30:00 PM	12.286	99.391	0.008	0.004	61.533			592-903439	9/7/2022 3:35:57 PM		0.1		
Sep 7 2022 1:40:00 PM	12.286	99.391	0.021	0.004	60.308			592-903439	9/7/2022 3:35:42 PM		0.1		
Sep 7 2022 1:50:00 PM	12.286	99.391	0.007	0.005	58.92			592-903439	9/7/2022 3:35:27 PM		0.1		
Sep 7 2022 2:00:00 PM	12.286	99.391	0.004	0.005	57.582			592-903439	9/7/2022 3:35:12 PM		0.1		
Sep 7 2022 2:10:00 PM	12.286	99.391	0.004	0.005	56.335			592-903439	9/7/2022 3:34:57 PM		0.1		
Sep 7 2022 2:20:00 PM	12.286	99.391	0.004	0.005	54.967			592-903439	9/7/2022 3:34:42 PM		0.1		
Sep 7 2022 2:30:00 PM	12.286	99.391	0.005	0.005	53.63			592-903439	9/7/2022 3:34:27 PM		0.1		
Sep 7 2022 2:40:00 PM	12.286	99.391	0.004	0.005	52.383			592-903439	9/7/2022 3:34:12 PM		0.1		
Sep 7 2022 2:50:00 PM	12.286	99.391	0.005	0.005	51.048			592-903439	9/7/2022 3:33:57 PM		0.1		
Sep 7 2022 3:00:00 PM	12.286	99.391	0.008	0.005	49.657			592-903439	9/7/2022 3:33:42 PM		0.1		
Sep 7 2022 3:10:00 PM	12.286	99.391	0.004	0.005	48.412			592-903439	9/7/2022 3:33:27 PM		0.1		
Sep 7 2022 3:20:00 PM	12.286	99.391	0.004	0.006	47.12			592-903439	9/7/2022 3:33:12 PM		0.1		
Sep 7 2022 3:30:00 PM	12.286	99.391	0.005	0.006	45.683			592-903439	9/7/2022 3:32:57 PM		0.1		
Sep 7 2022 3:40:00 PM	12.286	99.391	0.004	0.006	44.458			592-903439	9/7/2022 3:32:42 PM		0.1		
Sep 7 2022 3:50:00 PM	12.286	99.391	0.004	0.006	44			592-903439	9/7/2022 3:32:27 PM		0.1		
Sep 7 2022 4:00:00 PM	12.286	99.391	0.004	0.006	44			592-903439	9/7/2022 3:32:12 PM		0.1		
Sep 7 2022 4:10:00 PM	12.286	99.391	0.004	0.006	44			592-903439	9/7/2022 3:31:57 PM		0.1		
Sep 7 2022 4:20:00 PM	12.286	99.391	0.004	0.006	44			592-903439	9/7/2022 3:31:42 PM		0.1		
Sep 7 2022 4:30:00 PM	12.286	99.391	0.004	0.006	44			592-903439	9/7/2022 3:31:27 PM		0.1		
Sep 7 2022 4:40:00 PM	12.286	99.391	0.004	0.006	44			592-903439	9/7/2022 3:31:12 PM		0.1		
Sep 7 2022 4:50:00 PM	12.286	99.391	0.004	0.006	44			592-903439	9/7/2022 3:30:57 PM		0.1		
Sep 7 2022 5:00:00 PM	12.286	99.391	0.004	0.006	44			592-903439	9/7/2022 3:30:42 PM		0.1		
Sep 7 2022 5:10:00 PM	12.286	99.391	0.004	0.006	44			592-903439	9/7/2022 3:30:27 PM		0.1		
Sep 7 2022 5:20:00 PM	12.286	99.391	0.004	0.006	44			592-903439	9/7/2022 3:30:12 PM		0.1		
Sep 7 2022 5:30:00 PM	12.286	99.391	0.004	0.006	44			592-903439	9/7/2022 3:29:57 PM		0.1		
Sep 7 2022 5:40:00 PM	12.286	99.391	0.004	0.006	44			592-903439	9/7/2022 3:29:42 PM		0.1		
Sep 7 2022 5:50:00 PM	12.286	99.391	0.004	0.006	44			592-903439	9/7/2022 3:29:27 PM		0.1		
Sep 7 2022 6:00:00 PM	12.286	99.391	0.004	0.006	44			592-903439	9/7/2022 3:29:12 PM		0.1		
								592-903439	9/7/2022 3:28:57 PM		0.1		
			60					592-903439	9/7/2022 3:28:42 PM		0.1		
								592-903439	9/7/2022 3:28:27 PM		0.1		
								592-903439	9/7/2022 3:28:12 PM		0.1		
								592-903439	9/7/2022 3:27:57 PM		0.1		
								592-903439	9/7/2022 3:27:42 PM		0.1		

592-903439 | 9/7/2022 3:27:27 PM | | 0.1 | |

592-903439	9/7/2022 3:27:12 PM		0.1	
592-903439	9/7/2022 3:26:57 PM		0.1	
592-903439	9/7/2022 3:26:42 PM		0.1	
592-903439	9/7/2022 3:26:27 PM		0.1	
592-903439	9/7/2022 3:26:12 PM		0.1	
592-903439	9/7/2022 3:25:57 PM		0.1	
592-903439	9/7/2022 3:25:42 PM		0.1	
592-903439	9/7/2022 3:25:27 PM		0.1	
592-903439	9/7/2022 3:25:12 PM		0.1	
592-903439	9/7/2022 3:24:57 PM		0.1	
592-903439	9/7/2022 3:24:42 PM		0.1	
592-903439	9/7/2022 3:24:27 PM		0.1	
592-903439	9/7/2022 3:24:12 PM		0.1	
592-903439	9/7/2022 3:23:57 PM		0.1	
592-903439	9/7/2022 3:23:42 PM		0.1	
592-903439	9/7/2022 3:23:27 PM		0.1	
592-903439	9/7/2022 3:23:12 PM		0.1	
592-903439	9/7/2022 3:22:57 PM		0.1	
592-903439	9/7/2022 3:22:42 PM		0.1	
592-903439	9/7/2022 3:22:27 PM		0.1	
592-903439	9/7/2022 3:22:12 PM		0.1	
592-903439	9/7/2022 3:21:57 PM		0.1	
592-903439	9/7/2022 3:21:42 PM		0.1	
592-903439	9/7/2022 3:21:27 PM		0.1	
592-903439	9/7/2022 3:21:12 PM		0.1	
592-903439	9/7/2022 3:20:57 PM		0.1	
592-903439	9/7/2022 3:20:42 PM		0.1	
592-903439	9/7/2022 3:20:27 PM		0.1	
592-903439	9/7/2022 3:20:12 PM		0.1	
592-903439	9/7/2022 3:19:57 PM		0.1	
592-903439	9/7/2022 3:19:42 PM		0.1	
592-903439	9/7/2022 3:19:27 PM		0.1	
592-903439	9/7/2022 3:19:12 PM		0.1	
592-903439	9/7/2022 3:18:57 PM		0.1	
592-903439	9/7/2022 3:18:42 PM		0.1	
592-903439	9/7/2022 3:18:27 PM		0.1	
592-903439	9/7/2022 3:18:12 PM		0.1	
592-903439	9/7/2022 3:17:57 PM		0.1	
592-903439	9/7/2022 3:17:42 PM		0.1	
592-903439	9/7/2022 3:17:27 PM		0.1	
592-903439	9/7/2022 3:17:12 PM		0.1	
592-903439	9/7/2022 3:16:57 PM		0.1	
592-903439	9/7/2022 3:16:42 PM		0.1	
592-903439	9/7/2022 3:16:27 PM		0.1	
592-903439	9/7/2022 3:16:12 PM		0.1	
592-903439	9/7/2022 3:15:57 PM		0.1	
592-903439	9/7/2022 3:15:42 PM		0.1	
592-903439	9/7/2022 3:15:27 PM		0.1	
592-903439	9/7/2022 3:15:12 PM		0.1	
592-903439	9/7/2022 3:14:57 PM		0.1	
592-903439	9/7/2022 3:14:42 PM		0.1	
592-903439	9/7/2022 3:14:27 PM		0.1	
592-903439	9/7/2022 3:14:12 PM		0.1	
592-903439	9/7/2022 3:13:57 PM		0.1	
592-903439	9/7/2022 3:13:42 PM		0.1	
592-903439	9/7/2022 3:13:27 PM		0.1	
592-903439	9/7/2022 3:13:12 PM		0.1	
592-903439	9/7/2022 3:12:57 PM		0.1	
592-903439	9/7/2022 3:12:42 PM		0.1	
592-903439	9/7/2022 3:12:27 PM		0.1	
592-903439	9/7/2022 3:12:12 PM		0.1	
592-903439	9/7/2022 3:11:57 PM		0.1	
592-903439	9/7/2022 3:11:42 PM		0.1	
592-903439	9/7/2022 3:11:27 PM		0.1	
592-903439	9/7/2022 3:11:12 PM		0.1	
592-903439	9/7/2022 3:10:57 PM		0.1	
592-903439	9/7/2022 3:10:42 PM		0.1	
592-903439	9/7/2022 3:10:27 PM		0.1	
592-903439	9/7/2022 3:10:12 PM		0.1	
592-903439	9/7/2022 3:09:57 PM		0.1	
592-903439	9/7/2022 3:09:42 PM		0.1	
592-903439	9/7/2022 3:09:27 PM		0.1	
592-903439	9/7/2022 3:09:12 PM		0.1	
592-903439	9/7/2022 3:08:57 PM		0.1	
592-903439	9/7/2022 3:08:42 PM		0.1	
592-903439	9/7/2022 3:08:27 PM		0.1	
592-903439	9/7/2022 3:08:12 PM		0.1	
592-903439	9/7/2022 3:07:57 PM		0.1	
592-903439	9/7/2022 3:07:42 PM		0.1	

592-903439	9/7/2022 3:07:27 PM			0.1

592-903439	9/7/2022 3:07:12 PM		0.1	
592-903439	9/7/2022 3:06:57 PM		0.1	
592-903439	9/7/2022 3:06:42 PM		0.1	
592-903439	9/7/2022 3:06:27 PM		0.1	
592-903439	9/7/2022 3:06:12 PM		0.1	
592-903439	9/7/2022 3:05:57 PM		0.1	
592-903439	9/7/2022 3:05:42 PM		0.1	
592-903439	9/7/2022 3:05:27 PM		0.1	
592-903439	9/7/2022 3:05:12 PM		0.1	
592-903439	9/7/2022 3:04:57 PM		0.1	
592-903439	9/7/2022 3:04:42 PM		0.1	
592-903439	9/7/2022 3:04:27 PM		0.1	
592-903439	9/7/2022 3:04:12 PM		0.1	
592-903439	9/7/2022 3:03:57 PM		0.1	
592-903439	9/7/2022 3:03:42 PM		0.1	
592-903439	9/7/2022 3:03:27 PM		0.1	
592-903439	9/7/2022 3:03:12 PM		0.1	
592-903439	9/7/2022 3:02:57 PM		0.1	
592-903439	9/7/2022 3:02:42 PM		0.1	
592-903439	9/7/2022 3:02:27 PM		0.2	
592-903439	9/7/2022 3:02:12 PM		0.1	
592-903439	9/7/2022 3:01:57 PM		0.1	
592-903439	9/7/2022 3:01:42 PM		0.1	
592-903439	9/7/2022 3:01:27 PM		0.1	
592-903439	9/7/2022 3:01:12 PM		0.1	
592-903439	9/7/2022 3:00:57 PM		0.2	
592-903439	9/7/2022 3:00:42 PM		0.1	
592-903439	9/7/2022 3:00:27 PM		0.1	
592-903439	9/7/2022 3:00:12 PM		0.1	
592-903439	9/7/2022 2:59:57 PM		0.1	
592-903439	9/7/2022 2:59:42 PM		0.2	
592-903439	9/7/2022 2:59:27 PM		0.1	
592-903439	9/7/2022 2:59:12 PM		0.1	
592-903439	9/7/2022 2:58:57 PM		0.1	
592-903439	9/7/2022 2:58:42 PM		0.2	
592-903439	9/7/2022 2:58:27 PM		0.1	
592-903439	9/7/2022 2:58:12 PM		0.1	
592-903439	9/7/2022 2:57:57 PM		0.1	
592-903439	9/7/2022 2:57:42 PM		0.1	
592-903439	9/7/2022 2:57:27 PM		0.1	
592-903439	9/7/2022 2:57:12 PM		0.1	
592-903439	9/7/2022 2:56:57 PM		0.1	
592-903439	9/7/2022 2:56:42 PM		0.1	
592-903439	9/7/2022 2:56:27 PM		0.1	
592-903439	9/7/2022 2:56:12 PM		0.2	
592-903439	9/7/2022 2:55:57 PM		0.2	
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592-903439	9/7/2022 9:32:57 AM		0	
592-903439	9/7/2022 9:32:42 AM		0	
592-903439	9/7/2022 9:32:27 AM		0	
592-903439	9/7/2022 9:32:12 AM		0	
592-903439	9/7/2022 9:31:57 AM		0	
592-903439	9/7/2022 9:31:42 AM		0	
592-903439	9/7/2022 9:31:27 AM		0	
592-903439	9/7/2022 9:31:12 AM		0	
592-903439	9/7/2022 9:30:57 AM		0	
592-903439	9/7/2022 9:30:42 AM		0	
592-903439	9/7/2022 9:30:27 AM		0	
592-903439	9/7/2022 9:30:12 AM		0	
592-903439	9/7/2022 9:29:57 AM		0	
592-903439	9/7/2022 9:29:42 AM		0	
592-903439	9/7/2022 9:29:27 AM		0	
592-903439	9/7/2022 9:29:12 AM		0	
592-903439	9/7/2022 9:28:57 AM		0	
592-903439	9/7/2022 9:28:42 AM		0	
592-903439	9/7/2022 9:28:27 AM		0	
592-903439	9/7/2022 9:28:12 AM		0	
592-903439	9/7/2022 9:27:57 AM		0	
592-903439	9/7/2022 9:27:42 AM		0	

592-903439 | 9/7/2022 9:27:27 AM | | | 0 | |

592-903439	9/7/2022 9:27:12 AM		0	
592-903439	9/7/2022 9:26:57 AM		0	
592-903439	9/7/2022 9:26:42 AM		0	
592-903439	9/7/2022 9:26:27 AM		0	
592-903439	9/7/2022 9:26:12 AM		0	
592-903439	9/7/2022 9:25:57 AM		0	
592-903439	9/7/2022 9:25:42 AM		0	
592-903439	9/7/2022 9:25:27 AM		0	
592-903439	9/7/2022 9:25:12 AM		0	
592-903439	9/7/2022 9:24:57 AM		0	
592-903439	9/7/2022 9:24:42 AM		0	
592-903439	9/7/2022 9:24:27 AM		0	
592-903439	9/7/2022 9:24:12 AM		0	
592-903439	9/7/2022 9:23:57 AM		0	
592-903439	9/7/2022 9:23:42 AM		0	
592-903439	9/7/2022 9:23:27 AM		0	
592-903439	9/7/2022 9:23:12 AM		0	
592-903439	9/7/2022 9:22:57 AM		0	
592-903439	9/7/2022 9:22:42 AM		0	
592-903439	9/7/2022 9:22:27 AM		0	
592-903439	9/7/2022 9:22:12 AM		0	
592-903439	9/7/2022 9:21:57 AM		0	
592-903439	9/7/2022 9:21:42 AM		0	
592-903439	9/7/2022 9:21:27 AM		0	
592-903439	9/7/2022 9:21:12 AM		0	
592-903439	9/7/2022 9:20:57 AM		0	
592-903439	9/7/2022 9:20:42 AM		0	
592-903439	9/7/2022 9:20:27 AM		0	
592-903439	9/7/2022 9:20:12 AM		0	
592-903439	9/7/2022 9:19:57 AM		0	
592-903439	9/7/2022 9:19:42 AM		0	
592-903439	9/7/2022 9:19:27 AM		0	
592-903439	9/7/2022 9:19:12 AM		0	
592-903439	9/7/2022 9:18:57 AM		0	
592-903439	9/7/2022 9:18:42 AM		0	
592-903439	9/7/2022 9:18:27 AM		0	
592-903439	9/7/2022 9:18:12 AM		0	
592-903439	9/7/2022 9:17:57 AM		0	
592-903439	9/7/2022 9:17:42 AM		0	
592-903439	9/7/2022 9:17:27 AM		0	
592-903439	9/7/2022 9:17:12 AM		0	
592-903439	9/7/2022 9:16:57 AM		0	
592-903439	9/7/2022 9:16:42 AM		0	
592-903439	9/7/2022 9:16:27 AM		0	
592-903439	9/7/2022 9:16:12 AM		0	
592-903439	9/7/2022 9:15:57 AM		0	
592-903439	9/7/2022 9:15:42 AM		0	
592-903439	9/7/2022 9:15:27 AM		0	
592-903439	9/7/2022 9:15:12 AM		0	
592-903439	9/7/2022 9:14:57 AM		0	
592-903439	9/7/2022 9:14:42 AM		0	
592-903439	9/7/2022 9:14:27 AM		0	
592-903439	9/7/2022 9:14:12 AM		0	
592-903439	9/7/2022 9:13:57 AM		0	
592-903439	9/7/2022 9:13:42 AM		0	
592-903439	9/7/2022 9:13:27 AM		0	
592-903439	9/7/2022 9:13:12 AM		0	
592-903439	9/7/2022 9:12:57 AM		0	
592-903439	9/7/2022 9:12:42 AM		0	
592-903439	9/7/2022 9:12:27 AM		0	
592-903439	9/7/2022 9:12:12 AM		0	
592-903439	9/7/2022 9:11:57 AM		0	
592-903439	9/7/2022 9:11:42 AM		0	
592-903439	9/7/2022 9:11:27 AM		0	
592-903439	9/7/2022 9:11:12 AM		0	
592-903439	9/7/2022 9:10:57 AM		0	
592-903439	9/7/2022 9:10:42 AM		0	
592-903439	9/7/2022 9:10:27 AM		0	
592-903439	9/7/2022 9:10:12 AM		0	
592-903439	9/7/2022 9:09:57 AM		0	
592-903439	9/7/2022 9:09:42 AM		0	
592-903439	9/7/2022 9:09:27 AM		0	
592-903439	9/7/2022 9:09:12 AM		0	
592-903439	9/7/2022 9:08:57 AM		0	
592-903439	9/7/2022 9:08:42 AM		0	
592-903439	9/7/2022 9:08:27 AM		0	
592-903439	9/7/2022 9:08:12 AM		0	
592-903439	9/7/2022 9:07:57 AM		0	
592-903439	9/7/2022 9:07:42 AM		0	

592-903439 | 9/7/2022 9:07:27 AM | | | 0 | |

592-903439	9/7/2022 9:07:12 AM		0	
592-903439	9/7/2022 9:06:57 AM		0	
592-903439	9/7/2022 9:06:42 AM		0	
592-903439	9/7/2022 9:06:27 AM		0	
592-903439	9/7/2022 9:06:12 AM		0	
592-903439	9/7/2022 9:05:57 AM		0	
592-903439	9/7/2022 9:05:42 AM		0	
592-903439	9/7/2022 9:05:27 AM		0	
592-903439	9/7/2022 9:05:12 AM		0	
592-903439	9/7/2022 9:04:57 AM		0	
592-903439	9/7/2022 9:04:42 AM		0	
592-903439	9/7/2022 9:04:27 AM		0	
592-903439	9/7/2022 9:04:12 AM		0	
592-903439	9/7/2022 9:03:57 AM		0	
592-903439	9/7/2022 9:03:42 AM		0	
592-903439	9/7/2022 9:03:27 AM		0	
592-903439	9/7/2022 9:03:12 AM		0	
592-903439	9/7/2022 9:02:57 AM		0	
592-903439	9/7/2022 9:02:42 AM		0	
592-903439	9/7/2022 9:02:27 AM		0	
592-903439	9/7/2022 9:02:12 AM		0	
592-903439	9/7/2022 9:01:57 AM		0	
592-903439	9/7/2022 9:01:42 AM		0	
592-903439	9/7/2022 9:01:27 AM		0	
592-903439	9/7/2022 9:01:12 AM		0	
592-903439	9/7/2022 9:00:57 AM		0	
592-903439	9/7/2022 9:00:42 AM		0	
592-903439	9/7/2022 9:00:27 AM		0	
592-903439	9/7/2022 9:00:12 AM		0	
592-903439	9/7/2022 8:59:57 AM		0	
592-903439	9/7/2022 8:59:42 AM		0	
592-903439	9/7/2022 8:59:27 AM		0	
592-903439	9/7/2022 8:59:12 AM		0	
592-903439	9/7/2022 8:58:57 AM		0	
592-903439	9/7/2022 8:58:42 AM		0	
592-903439	9/7/2022 8:58:27 AM		0	
592-903439	9/7/2022 8:58:12 AM		0	
592-903439	9/7/2022 8:57:57 AM		0	
592-903439	9/7/2022 8:57:42 AM		0	
592-903439	9/7/2022 8:57:27 AM		0	
592-903439	9/7/2022 8:57:12 AM		0	
592-903439	9/7/2022 8:56:57 AM		0	
592-903439	9/7/2022 8:56:42 AM		0	
592-903439	9/7/2022 8:56:27 AM		0	
592-903439	9/7/2022 8:56:12 AM		0	
592-903439	9/7/2022 8:55:57 AM		0	
592-903439	9/7/2022 8:55:42 AM		0	
592-903439	9/7/2022 8:55:27 AM		0	
592-903439	9/7/2022 8:55:12 AM		0	
592-903439	9/7/2022 8:54:57 AM		0	
592-903439	9/7/2022 8:54:42 AM		0	
592-903439	9/7/2022 8:54:27 AM		0	
592-903439	9/7/2022 8:54:12 AM		0	
592-903439	9/7/2022 8:53:57 AM		0	
592-903439	9/7/2022 8:53:42 AM		0	
592-903439	9/7/2022 8:53:27 AM		0	
592-903439	9/7/2022 8:53:12 AM		0	
592-903439	9/7/2022 8:52:57 AM		0	
592-903439	9/7/2022 8:52:42 AM		0	
592-903439	9/7/2022 8:52:27 AM		0	
592-903439	9/7/2022 8:52:12 AM		0	
592-903439	9/7/2022 8:51:57 AM		0	
592-903439	9/7/2022 8:51:42 AM		0	
592-903439	9/7/2022 8:51:27 AM		0	
592-903439	9/7/2022 8:51:12 AM		0	
592-903439	9/7/2022 8:50:57 AM		0	
592-903439	9/7/2022 8:50:42 AM		0	
592-903439	9/7/2022 8:50:27 AM		0	
592-903439	9/7/2022 8:50:12 AM		0	
592-903439	9/7/2022 8:49:57 AM		0	
592-903439	9/7/2022 8:49:42 AM		0	
592-903439	9/7/2022 8:49:27 AM		0	
592-903439	9/7/2022 8:49:12 AM		0	
592-903439	9/7/2022 8:48:57 AM		0	
592-903439	9/7/2022 8:48:42 AM		0	
592-903439	9/7/2022 8:48:27 AM		0	
592-903439	9/7/2022 8:48:12 AM		0	
592-903439	9/7/2022 8:47:57 AM		0	
592-903439	9/7/2022 8:47:42 AM		0	

592-903439 | 9/7/2022 8:47:27 AM | | | 0 | |

592-903439	9/7/2022 8:47:12 AM		0	
592-903439	9/7/2022 8:46:57 AM		0	
592-903439	9/7/2022 8:46:42 AM		0	
592-903439	9/7/2022 8:46:27 AM		0	
592-903439	9/7/2022 8:46:12 AM		0	
592-903439	9/7/2022 8:45:57 AM		0	
592-903439	9/7/2022 8:45:42 AM		0	
592-903439	9/7/2022 8:45:27 AM		0	
592-903439	9/7/2022 8:45:12 AM		0	
592-903439	9/7/2022 8:44:57 AM		0	
592-903439	9/7/2022 8:44:42 AM		0	
592-903439	9/7/2022 8:44:27 AM		0	
592-903439	9/7/2022 8:44:12 AM		0	
592-903439	9/7/2022 8:43:57 AM		0	
592-903439	9/7/2022 8:43:42 AM		0	
592-903439	9/7/2022 8:43:27 AM		0	
592-903439	9/7/2022 8:43:12 AM		0	
592-903439	9/7/2022 8:42:57 AM		0	
592-903439	9/7/2022 8:42:42 AM		0	
592-903439	9/7/2022 8:42:27 AM		0	
592-903439	9/7/2022 8:42:12 AM		0.1	
592-903439	9/7/2022 8:41:57 AM		0.1	
592-903439	9/7/2022 8:41:42 AM		0.1	
592-903439	9/7/2022 8:41:27 AM		0.1	
592-903439	9/7/2022 8:41:12 AM		0.2	
592-903439	9/7/2022 8:40:57 AM		0.2	
592-903439	9/7/2022 8:40:42 AM		0.3	
592-903439	9/7/2022 8:40:27 AM	ppm		9/7/2022 8:40:27 AM
592-903439	9/7/2022 8:05:40 AM		0.1	
592-903439	9/7/2022 8:05:25 AM		0.2	
592-903439	9/7/2022 8:05:10 AM		0.2	
592-903439	9/7/2022 8:04:55 AM		0.3	
592-903439	9/7/2022 8:04:40 AM	ppm		9/7/2022 8:04:40 AM

1.00

Upwind Station 048610
Pine PID #: 44806

Device Serial No	Log Time	Sensor 1 Display Unit	Sensor 1 Gas Reading	Session Start Time	Session Stop Time
592-928663	9/8/2022 3:29:48 PM		0.30		
592-928663	9/8/2022 3:28:48 PM		0.30		
592-928663	9/8/2022 3:27:48 PM		0.30		
592-928663	9/8/2022 3:26:48 PM		0.30		
592-928663	9/8/2022 3:25:48 PM		0.30		
592-928663	9/8/2022 3:24:48 PM		0.30		
592-928663	9/8/2022 3:23:48 PM		0.30		
592-928663	9/8/2022 3:22:48 PM		0.30		
592-928663	9/8/2022 3:21:48 PM		0.30		
592-928663	9/8/2022 3:20:48 PM		0.30		
592-928663	9/8/2022 3:19:48 PM		0.30		
592-928663	9/8/2022 3:18:48 PM		0.30		
592-928663	9/8/2022 3:17:48 PM		0.30		
592-928663	9/8/2022 3:16:48 PM		0.30		
592-928663	9/8/2022 3:15:48 PM		0.30		
592-928663	9/8/2022 3:14:48 PM		0.30		
592-928663	9/8/2022 3:13:48 PM		0.30		
592-928663	9/8/2022 3:12:48 PM		0.30		
592-928663	9/8/2022 3:11:48 PM		0.30		
592-928663	9/8/2022 3:10:48 PM		0.30		
592-928663	9/8/2022 3:09:48 PM		0.30		
592-928663	9/8/2022 3:08:48 PM		0.30		
592-928663	9/8/2022 3:07:48 PM		0.30		
592-928663	9/8/2022 3:06:48 PM		0.30		
592-928663	9/8/2022 3:05:48 PM		0.30		
592-928663	9/8/2022 3:04:48 PM		0.30		
592-928663	9/8/2022 3:03:48 PM		0.40		
592-928663	9/8/2022 3:02:48 PM		0.40		
592-928663	9/8/2022 3:01:48 PM		0.40		
592-928663	9/8/2022 3:00:48 PM		0.40		
592-928663	9/8/2022 2:59:48 PM		0.40		
592-928663	9/8/2022 2:58:48 PM		0.40		
592-928663	9/8/2022 2:57:48 PM		0.40		
592-928663	9/8/2022 2:56:48 PM		0.40		
592-928663	9/8/2022 2:55:48 PM		0.40		
592-928663	9/8/2022 2:54:48 PM		0.40		
592-928663	9/8/2022 2:53:48 PM		0.30		
592-928663	9/8/2022 2:52:48 PM		0.40		
592-928663	9/8/2022 2:51:48 PM		0.40		
592-928663	9/8/2022 2:50:48 PM		0.40		
592-928663	9/8/2022 2:49:48 PM		0.40		
592-928663	9/8/2022 2:48:48 PM		0.40		
592-928663	9/8/2022 2:47:48 PM		0.40		
592-928663	9/8/2022 2:46:48 PM		0.40		
592-928663	9/8/2022 2:45:48 PM		0.40		
592-928663	9/8/2022 2:44:48 PM		0.40		
592-928663	9/8/2022 2:43:48 PM		0.40		
592-928663	9/8/2022 2:42:48 PM		0.40		
592-928663	9/8/2022 2:41:48 PM		0.40		
592-928663	9/8/2022 2:40:48 PM		0.40		
592-928663	9/8/2022 2:39:48 PM		0.40		
592-928663	9/8/2022 2:38:48 PM		0.40		
592-928663	9/8/2022 2:37:48 PM		0.40		
592-928663	9/8/2022 2:36:48 PM		0.40		
592-928663	9/8/2022 2:35:48 PM		0.40		
592-928663	9/8/2022 2:34:48 PM		0.40		
592-928663	9/8/2022 2:33:48 PM		0.40		
592-928663	9/8/2022 2:32:48 PM		0.40		
592-928663	9/8/2022 2:31:48 PM		0.30		
592-928663	9/8/2022 2:30:48 PM		0.30		
592-928663	9/8/2022 2:29:48 PM		0.30		
592-928663	9/8/2022 2:28:48 PM		0.30		
592-928663	9/8/2022 2:27:48 PM		0.30		
592-928663	9/8/2022 2:26:48 PM		0.30		
592-928663	9/8/2022 2:25:48 PM		0.30		
592-928663	9/8/2022 2:24:48 PM		0.40		
592-928663	9/8/2022 2:23:48 PM		0.30		
592-928663	9/8/2022 2:22:48 PM		0.30		
592-928663	9/8/2022 2:21:48 PM		0.40		
592-928663	9/8/2022 2:20:48 PM		0.40		
592-928663	9/8/2022 2:19:48 PM		0.30		
592-928663	9/8/2022 2:18:48 PM		0.40		
592-928663	9/8/2022 2:17:48 PM		0.30		
592-928663	9/8/2022 2:16:48 PM		0.30		
592-928663	9/8/2022 2:15:48 PM		0.30		
592-928663	9/8/2022 2:14:48 PM		0.30		

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530171606
Firmware Version	3.1
Calibration Date	1/20/2022
Test Name	MANUAL_010
Test Start Time	8:49:45 AM
Test Start Date	9/8/2022
Test Length [D:H:M]	0:06:15
Test Interval [M:S]	15:00
Mass Average [mg/m3]	0.005
Mass Minimum [mg/m3]	0.001
Mass Maximum [mg/m3]	0.022
Mass TWA [mg/m3]	0.004
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	25

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
900	0.022		
1800	0.016		
2700	0.01		
3600	0.01		
4500	0.009		
5400	0.006		
6300	0.005		
7200	0.004		
8100	0.005		
9000	0.005		
9900	0.005		
10800	0.004		
11700	0.003		
12600	0.005		
13500	0.002		
14400	0.002		
15300	0.002		
16200	0.001		
17100	0.003		
18000	0.003		
18900	0.003		
19800	0.003		
20700	0.003		
21600	0.003		
22500	0.003		
	22		

592-928663	9/8/2022 2:13:48 PM		0.30			
592-928663	9/8/2022 2:12:48 PM		0.30			
592-928663	9/8/2022 2:11:48 PM		0.30			
592-928663	9/8/2022 2:10:48 PM		0.30			
592-928663	9/8/2022 2:09:48 PM		0.30			
592-928663	9/8/2022 2:08:48 PM		0.30			
592-928663	9/8/2022 2:07:48 PM		0.30			
592-928663	9/8/2022 2:06:48 PM		0.30			
592-928663	9/8/2022 2:05:48 PM		0.30			
592-928663	9/8/2022 2:04:48 PM		0.30			
592-928663	9/8/2022 2:03:48 PM		0.30			
592-928663	9/8/2022 2:02:48 PM		0.30			
592-928663	9/8/2022 2:01:48 PM		0.30			
592-928663	9/8/2022 2:00:48 PM		0.30			
592-928663	9/8/2022 1:59:48 PM		0.30			
592-928663	9/8/2022 1:58:48 PM		0.30			
592-928663	9/8/2022 1:57:48 PM		0.30			
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592-928663	9/8/2022 8:45:48 AM		0.10		
592-928663	9/8/2022 8:44:48 AM	ppm		9/8/2022 8:44:48 AM	9/8/2022 3:29:48 PM

0.40

Downwind Station 47161

End Time	47161 Battery Voltage (Avg)	47161 Battery Percentage (Avg)	47161 Dust Trak Mass Conc. Total (Avg)	47161 Dust Trak TWA (Avg)	47161 Dust Trak Internal Battery (Avg)	47161 MiniRae VOC (Avg)	47161 MiniRae TWA (Avg)
Sep 8 2022 8:50:00 AM	12.286	99.391	0.011	0	94.71		
Sep 8 2022 9:00:00 AM	12.286	99.391	0.017	0	93.601		
Sep 8 2022 9:10:00 AM	12.286	99.391	0.015	0.001	92.427		
Sep 8 2022 9:20:00 AM	12.286	99.391	0.013	0.001	91.279		
Sep 8 2022 9:30:00 AM	12.286	99.391	0.012	0.001	90.018		
Sep 8 2022 9:40:00 AM	12.286	99.391	0.01	0.002	88.749		
Sep 8 2022 9:50:00 AM	12.286	99.391	0.01	0.002	87.571		
Sep 8 2022 10:00:00 AM	12.286	99.391	0.009	0.002	86.396		
Sep 8 2022 10:10:00 AM	12.286	99.391	0.009	0.002	85.196		
Sep 8 2022 10:20:00 AM	12.286	99.391	0.015	0.002	83.874		
Sep 8 2022 10:30:00 AM	12.286	99.391	0.008	0.003	82.674		
Sep 8 2022 10:40:00 AM	12.286	99.391	0.007	0.003	81.479		
Sep 8 2022 10:50:00 AM	12.286	99.391	0.008	0.003	80.299		
Sep 8 2022 11:00:00 AM	12.284	99.285	0.009	0.003	79.018		
Sep 8 2022 11:10:00 AM	12.285	99.345	0.012	0.003	77.727		
Sep 8 2022 11:20:00 AM	12.286	99.391	0.008	0.003	76.524		
Sep 8 2022 11:30:00 AM	12.286	99.391	0.009	0.004	75.329		
Sep 8 2022 11:40:00 AM	12.286	99.391	0.008	0.004	74.099		
Sep 8 2022 11:50:00 AM	12.283	99.244	0.018	0.004	72.751		
Sep 8 2022 12:00:00 PM	12.286	99.391	0.029	0.005	71.547		
Sep 8 2022 12:10:00 PM	12.286	99.391	0.006	0.005	70.347		
Sep 8 2022 12:20:00 PM	12.286	99.391	0.006	0.005	69.074		
Sep 8 2022 12:30:00 PM	12.286	99.383	0.005	0.005	67.722		
Sep 8 2022 12:40:00 PM	12.286	99.373	0.005	0.005	66.527		
Sep 8 2022 12:50:00 PM	12.283	99.252	0.004	0.005	65.324		
Sep 8 2022 1:00:00 PM	12.253	97.976	0.01	0.006	63.978		
Sep 8 2022 1:10:00 PM	12.263	98.388	0.004	0.006	62.679		
Sep 8 2022 1:20:00 PM	12.258	98.196	0.003	0.006	61.447		
Sep 8 2022 1:30:00 PM	12.252	97.915	0.004	0.006	60.252		
Sep 8 2022 1:40:00 PM	12.241	97.435	0.006	0.006	58.829		
Sep 8 2022 1:50:00 PM	12.256	98.098	0.006	0.006	57.577		
Sep 8 2022 2:00:00 PM	12.231	96.995	0.005	0.006	56.352		
Sep 8 2022 2:10:00 PM	12.222	96.601	0.005	0.006	55.031		
Sep 8 2022 2:20:00 PM	12.209	96.053	0.006	0.006	53.677		
Sep 8 2022 2:30:00 PM	12.22	96.524	0.005	0.007	52.277		
Sep 8 2022 2:40:00 PM	12.203	95.776	0.005	0.007	50.878		
Sep 8 2022 2:50:00 PM	12.193	95.362	0.004	0.007	49.602		
Sep 8 2022 3:00:00 PM	12.183	94.919	0.005	0.007	48.379		
Sep 8 2022 3:10:00 PM	12.201	95.691	0.007	0.007	47.034		
Sep 8 2022 3:20:00 PM	12.183	94.906	0.005	0.007	46		
			29				

Device Serial No	Log Time	Sensor 1 Display Unit	Sensor 1 Gas Reading	Session Start Time	Session Stop Time
592-903439	9/8/2022 3:23:59 PM		0		
592-903439	9/8/2022 3:23:44 PM		0		
592-903439	9/8/2022 3:23:29 PM		0		
592-903439	9/8/2022 3:23:14 PM		0		
592-903439	9/8/2022 3:22:59 PM		0		
592-903439	9/8/2022 3:22:44 PM		0		
592-903439	9/8/2022 3:22:29 PM		0		
592-903439	9/8/2022 3:22:14 PM		0		
592-903439	9/8/2022 3:21:59 PM		0		
592-903439	9/8/2022 3:21:44 PM		0		
592-903439	9/8/2022 3:21:29 PM		0		
592-903439	9/8/2022 3:21:14 PM		0		
592-903439	9/8/2022 3:20:59 PM		0		
592-903439	9/8/2022 3:20:44 PM		0		
592-903439	9/8/2022 3:20:29 PM		0		
592-903439	9/8/2022 3:20:14 PM		0		
592-903439	9/8/2022 3:19:59 PM		0		
592-903439	9/8/2022 3:19:44 PM		0		
592-903439	9/8/2022 3:19:29 PM		0		
592-903439	9/8/2022 3:19:14 PM		0		
592-903439	9/8/2022 3:18:59 PM		0		
592-903439	9/8/2022 3:18:44 PM		0		
592-903439	9/8/2022 3:18:29 PM		0		
592-903439	9/8/2022 3:18:14 PM		0		
592-903439	9/8/2022 3:17:59 PM		0		
592-903439	9/8/2022 3:17:44 PM		0		
592-903439	9/8/2022 3:17:29 PM		0		
592-903439	9/8/2022 3:17:14 PM		0		
592-903439	9/8/2022 3:16:59 PM		0		
592-903439	9/8/2022 3:16:44 PM		0		
592-903439	9/8/2022 3:16:29 PM		0		
592-903439	9/8/2022 3:16:14 PM		0		
592-903439	9/8/2022 3:15:59 PM		0		
592-903439	9/8/2022 3:15:44 PM		0		
592-903439	9/8/2022 3:15:29 PM		0		
592-903439	9/8/2022 3:15:14 PM		0		
592-903439	9/8/2022 3:14:59 PM		0		
592-903439	9/8/2022 3:14:44 PM		0		
592-903439	9/8/2022 3:14:29 PM		0		
592-903439	9/8/2022 3:14:14 PM		0		
592-903439	9/8/2022 3:13:59 PM		0		
592-903439	9/8/2022 3:13:44 PM		0		
592-903439	9/8/2022 3:13:29 PM		0		
592-903439	9/8/2022 3:13:14 PM		0		
592-903439	9/8/2022 3:12:59 PM		0		
592-903439	9/8/2022 3:12:44 PM		0		
592-903439	9/8/2022 3:12:29 PM		0		
592-903439	9/8/2022 3:12:14 PM		0		
592-903439	9/8/2022 3:11:59 PM		0		
592-903439	9/8/2022 3:11:44 PM		0		
592-903439	9/8/2022 3:11:29 PM		0		
592-903439	9/8/2022 3:11:14 PM		0		
592-903439	9/8/2022 3:10:59 PM		0		
592-903439	9/8/2022 3:10:44 PM		0		
592-903439	9/8/2022 3:10:29 PM		0		
592-903439	9/8/2022 3:10:14 PM		0		
592-903439	9/8/2022 3:09:59 PM		0		
592-903439	9/8/2022 3:09:44 PM		0		
592-903439	9/8/2022 3:09:29 PM		0		
592-903439	9/8/2022 3:09:14 PM		0		
592-903439	9/8/2022 3:08:59 PM		0		
592-903439	9/8/2022 3:08:44 PM		0		
592-903439	9/8/2022 3:08:29 PM		0		
592-903439	9/8/2022 3:08:14 PM		0		
592-903439	9/8/2022 3:07:59 PM		0		
592-903439	9/8/2022 3:07:44 PM		0		
592-903439	9/8/2022 3:07:29 PM		0		
592-903439	9/8/2022 3:07:14 PM		0		
592-903439	9/8/2022 3:06:59 PM		0		
592-903439	9/8/2022 3:06:44 PM		0		
592-903439	9/8/2022 3:06:29 PM		0		
592-903439	9/8/2022 3:06:14 PM		0		
592-903439	9/8/2022 3:05:59 PM		0		
592-903439	9/8/2022 3:05:44 PM		0		
592-903439	9/8/2022 3:05:29 PM		0		
592-903439	9/8/2022 3:05:14 PM		0		
592-903439	9/8/2022 3:04:59 PM		0		
592-903439	9/8/2022 3:04:44 PM		0		
592-903439	9/8/2022 3:04:29 PM		0		
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592-903439	9/8/2022 3:03:59 PM		0		
592-903439	9/8/2022 3:03:44 PM		0		
592-903439	9/8/2022 3:03:29 PM		0		

592-903439	9/8/2022 3:03:14 PM		0		
592-903439	9/8/2022 3:02:59 PM		0		
592-903439	9/8/2022 3:02:44 PM		0		
592-903439	9/8/2022 3:02:29 PM		0		
592-903439	9/8/2022 3:02:14 PM		0		
592-903439	9/8/2022 3:01:59 PM		0		
592-903439	9/8/2022 3:01:44 PM		0		
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592-903439	9/8/2022 3:01:14 PM		0		
592-903439	9/8/2022 3:00:59 PM		0		
592-903439	9/8/2022 3:00:44 PM		0		
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592-903439	9/8/2022 2:43:59 PM		0		
592-903439	9/8/2022 2:43:44 PM		0		
592-903439	9/8/2022 2:43:29 PM		0		
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592-903439	9/8/2022 2:41:59 PM		0		
592-903439	9/8/2022 2:41:44 PM		0		
592-903439	9/8/2022 2:41:29 PM		0		
592-903439	9/8/2022 2:41:14 PM		0		
592-903439	9/8/2022 2:40:59 PM		0		

592-903439	9/8/2022 2:40:44 PM		0		
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592-903439	9/8/2022 2:40:14 PM		0		
592-903439	9/8/2022 2:39:59 PM		0		
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592-903439	9/8/2022 2:37:59 PM		0		
592-903439	9/8/2022 2:37:44 PM		0		
592-903439	9/8/2022 2:37:29 PM		0		
592-903439	9/8/2022 2:37:14 PM		0		
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592-903439	9/8/2022 2:30:14 PM		0		
592-903439	9/8/2022 2:29:59 PM		0		
592-903439	9/8/2022 2:29:44 PM		0		
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592-903439	9/8/2022 2:27:14 PM		0		
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592-903439	9/8/2022 2:26:29 PM		0		
592-903439	9/8/2022 2:26:14 PM		0		
592-903439	9/8/2022 2:25:59 PM		0		
592-903439	9/8/2022 2:25:44 PM		0		
592-903439	9/8/2022 2:25:29 PM		0		
592-903439	9/8/2022 2:25:14 PM		0		
592-903439	9/8/2022 2:24:59 PM		0		
592-903439	9/8/2022 2:24:44 PM		0		
592-903439	9/8/2022 2:24:29 PM		0		
592-903439	9/8/2022 2:24:14 PM		0		
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592-903439	9/8/2022 2:22:59 PM		0		
592-903439	9/8/2022 2:22:44 PM		0		
592-903439	9/8/2022 2:22:29 PM		0		
592-903439	9/8/2022 2:22:14 PM		0		
592-903439	9/8/2022 2:21:59 PM		0		
592-903439	9/8/2022 2:21:44 PM		0		
592-903439	9/8/2022 2:21:29 PM		0		
592-903439	9/8/2022 2:21:14 PM		0		
592-903439	9/8/2022 2:20:59 PM		0		
592-903439	9/8/2022 2:20:44 PM		0		
592-903439	9/8/2022 2:20:29 PM		0		
592-903439	9/8/2022 2:20:14 PM		0		
592-903439	9/8/2022 2:19:59 PM		0		
592-903439	9/8/2022 2:19:44 PM		0		
592-903439	9/8/2022 2:19:29 PM		0		
592-903439	9/8/2022 2:19:14 PM		0		
592-903439	9/8/2022 2:18:59 PM		0		
592-903439	9/8/2022 2:18:44 PM		0		
592-903439	9/8/2022 2:18:29 PM		0		

592-903439	9/8/2022 2:18:14 PM		0		
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592-903439	9/8/2022 2:17:14 PM		0		
592-903439	9/8/2022 2:16:59 PM		0		
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592-903439	9/8/2022 2:16:29 PM		0		
592-903439	9/8/2022 2:16:14 PM		0		
592-903439	9/8/2022 2:15:59 PM		0		
592-903439	9/8/2022 2:15:44 PM		0		
592-903439	9/8/2022 2:15:29 PM		0		
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592-903439	9/8/2022 10:10:59 AM		0.1		

592-903439	9/8/2022 10:10:44 AM		0.1		
592-903439	9/8/2022 10:10:29 AM		0.1		
592-903439	9/8/2022 10:10:14 AM		0.1		
592-903439	9/8/2022 10:09:59 AM		0.1		
592-903439	9/8/2022 10:09:44 AM		0.1		
592-903439	9/8/2022 10:09:29 AM		0.1		
592-903439	9/8/2022 10:09:14 AM		0.1		
592-903439	9/8/2022 10:08:59 AM		0.1		
592-903439	9/8/2022 10:08:44 AM		0.1		
592-903439	9/8/2022 10:08:29 AM		0.1		
592-903439	9/8/2022 10:08:14 AM		0.1		
592-903439	9/8/2022 10:07:59 AM		0.1		
592-903439	9/8/2022 10:07:44 AM		0.1		
592-903439	9/8/2022 10:07:29 AM		0.1		
592-903439	9/8/2022 10:07:14 AM		0.1		
592-903439	9/8/2022 10:06:59 AM		0.1		
592-903439	9/8/2022 10:06:44 AM		0.1		
592-903439	9/8/2022 10:06:29 AM		0.1		
592-903439	9/8/2022 10:06:14 AM		0.1		
592-903439	9/8/2022 10:05:59 AM		0.1		
592-903439	9/8/2022 10:05:44 AM		0.1		
592-903439	9/8/2022 10:05:29 AM		0.1		
592-903439	9/8/2022 10:05:14 AM		0.1		
592-903439	9/8/2022 10:04:59 AM		0.1		
592-903439	9/8/2022 10:04:44 AM		0.1		
592-903439	9/8/2022 10:04:29 AM		0.1		
592-903439	9/8/2022 10:04:14 AM		0.1		
592-903439	9/8/2022 10:03:59 AM		0.1		
592-903439	9/8/2022 10:03:44 AM		0.1		
592-903439	9/8/2022 10:03:29 AM		0.1		
592-903439	9/8/2022 10:03:14 AM		0.1		
592-903439	9/8/2022 10:02:59 AM		0.1		
592-903439	9/8/2022 10:02:44 AM		0.1		
592-903439	9/8/2022 10:02:29 AM		0.1		
592-903439	9/8/2022 10:02:14 AM		0.1		
592-903439	9/8/2022 10:01:59 AM		0.1		
592-903439	9/8/2022 10:01:44 AM		0.1		
592-903439	9/8/2022 10:01:29 AM		0.1		
592-903439	9/8/2022 10:01:14 AM		0.1		
592-903439	9/8/2022 10:00:59 AM		0.1		
592-903439	9/8/2022 10:00:44 AM		0.1		
592-903439	9/8/2022 10:00:29 AM		0.1		
592-903439	9/8/2022 10:00:14 AM		0.1		
592-903439	9/8/2022 9:59:59 AM		0.1		
592-903439	9/8/2022 9:59:44 AM		0.1		
592-903439	9/8/2022 9:59:29 AM		0.1		
592-903439	9/8/2022 9:59:14 AM		0.1		
592-903439	9/8/2022 9:58:59 AM		0.1		
592-903439	9/8/2022 9:58:44 AM		0.1		
592-903439	9/8/2022 9:58:29 AM		0.1		
592-903439	9/8/2022 9:58:14 AM		0.1		
592-903439	9/8/2022 9:57:59 AM		0.1		
592-903439	9/8/2022 9:57:44 AM		0.1		
592-903439	9/8/2022 9:57:29 AM		0.1		
592-903439	9/8/2022 9:57:14 AM		0.1		
592-903439	9/8/2022 9:56:59 AM		0.1		
592-903439	9/8/2022 9:56:44 AM		0.1		
592-903439	9/8/2022 9:56:29 AM		0.1		
592-903439	9/8/2022 9:56:14 AM		0.1		
592-903439	9/8/2022 9:55:59 AM		0.1		
592-903439	9/8/2022 9:55:44 AM		0.1		
592-903439	9/8/2022 9:55:29 AM		0.1		
592-903439	9/8/2022 9:55:14 AM		0.1		
592-903439	9/8/2022 9:54:59 AM		0.1		
592-903439	9/8/2022 9:54:44 AM		0.1		
592-903439	9/8/2022 9:54:29 AM		0.1		
592-903439	9/8/2022 9:54:14 AM		0.1		
592-903439	9/8/2022 9:53:59 AM		0.1		
592-903439	9/8/2022 9:53:44 AM		0.1		
592-903439	9/8/2022 9:53:29 AM		0.1		
592-903439	9/8/2022 9:53:14 AM		0.1		
592-903439	9/8/2022 9:52:59 AM		0.1		
592-903439	9/8/2022 9:52:44 AM		0.1		
592-903439	9/8/2022 9:52:29 AM		0.1		
592-903439	9/8/2022 9:52:14 AM		0.1		
592-903439	9/8/2022 9:51:59 AM		0.1		
592-903439	9/8/2022 9:51:44 AM		0.1		
592-903439	9/8/2022 9:51:29 AM		0.1		
592-903439	9/8/2022 9:51:14 AM		0.1		
592-903439	9/8/2022 9:50:59 AM		0.1		
592-903439	9/8/2022 9:50:44 AM		0.1		
592-903439	9/8/2022 9:50:29 AM		0.1		
592-903439	9/8/2022 9:50:14 AM		0.1		
592-903439	9/8/2022 9:49:59 AM		0.1		
592-903439	9/8/2022 9:49:44 AM		0.1		
592-903439	9/8/2022 9:49:29 AM		0.1		
592-903439	9/8/2022 9:49:14 AM		0.1		
592-903439	9/8/2022 9:48:59 AM		0.1		
592-903439	9/8/2022 9:48:44 AM		0.1		
592-903439	9/8/2022 9:48:29 AM		0.1		

592-903439	9/8/2022 9:48:14 AM		0.1		
592-903439	9/8/2022 9:47:59 AM		0.1		
592-903439	9/8/2022 9:47:44 AM		0.1		
592-903439	9/8/2022 9:47:29 AM		0.1		
592-903439	9/8/2022 9:47:14 AM		0.1		
592-903439	9/8/2022 9:46:59 AM		0.1		
592-903439	9/8/2022 9:46:44 AM		0.1		
592-903439	9/8/2022 9:46:29 AM		0.1		
592-903439	9/8/2022 9:46:14 AM		0.1		
592-903439	9/8/2022 9:45:59 AM		0.1		
592-903439	9/8/2022 9:45:44 AM		0		
592-903439	9/8/2022 9:45:29 AM		0.1		
592-903439	9/8/2022 9:45:14 AM		0.1		
592-903439	9/8/2022 9:44:59 AM		0		
592-903439	9/8/2022 9:44:44 AM		0.1		
592-903439	9/8/2022 9:44:29 AM		0		
592-903439	9/8/2022 9:44:14 AM		0.1		
592-903439	9/8/2022 9:43:59 AM		0.1		
592-903439	9/8/2022 9:43:44 AM		0.1		
592-903439	9/8/2022 9:43:29 AM		0.1		
592-903439	9/8/2022 9:43:14 AM		0.1		
592-903439	9/8/2022 9:42:59 AM		0.1		
592-903439	9/8/2022 9:42:44 AM		0		
592-903439	9/8/2022 9:42:29 AM		0		
592-903439	9/8/2022 9:42:14 AM		0		
592-903439	9/8/2022 9:41:59 AM		0		
592-903439	9/8/2022 9:41:44 AM		0		
592-903439	9/8/2022 9:41:29 AM		0.1		
592-903439	9/8/2022 9:41:14 AM		0.1		
592-903439	9/8/2022 9:40:59 AM		0.1		
592-903439	9/8/2022 9:40:44 AM		0.1		
592-903439	9/8/2022 9:40:29 AM		0		
592-903439	9/8/2022 9:40:14 AM		0.1		
592-903439	9/8/2022 9:39:59 AM		0.1		
592-903439	9/8/2022 9:39:44 AM		0.1		
592-903439	9/8/2022 9:39:29 AM		0.1		
592-903439	9/8/2022 9:39:14 AM		0.1		
592-903439	9/8/2022 9:38:59 AM		0.1		
592-903439	9/8/2022 9:38:44 AM		0.1		
592-903439	9/8/2022 9:38:29 AM		0.1		
592-903439	9/8/2022 9:38:14 AM		0.1		
592-903439	9/8/2022 9:37:59 AM		0.1		
592-903439	9/8/2022 9:37:44 AM		0		
592-903439	9/8/2022 9:37:29 AM		0.1		
592-903439	9/8/2022 9:37:14 AM		0		
592-903439	9/8/2022 9:36:59 AM		0		
592-903439	9/8/2022 9:36:44 AM		0		
592-903439	9/8/2022 9:36:29 AM		0		
592-903439	9/8/2022 9:36:14 AM		0		
592-903439	9/8/2022 9:35:59 AM		0		
592-903439	9/8/2022 9:35:44 AM		0		
592-903439	9/8/2022 9:35:29 AM		0		
592-903439	9/8/2022 9:35:14 AM		0		
592-903439	9/8/2022 9:34:59 AM		0		
592-903439	9/8/2022 9:34:44 AM		0		
592-903439	9/8/2022 9:34:29 AM		0		
592-903439	9/8/2022 9:34:14 AM		0		
592-903439	9/8/2022 9:33:59 AM		0		
592-903439	9/8/2022 9:33:44 AM		0		
592-903439	9/8/2022 9:33:29 AM		0		
592-903439	9/8/2022 9:33:14 AM		0		
592-903439	9/8/2022 9:32:59 AM		0		
592-903439	9/8/2022 9:32:44 AM		0		
592-903439	9/8/2022 9:32:29 AM		0		
592-903439	9/8/2022 9:32:14 AM		0		
592-903439	9/8/2022 9:31:59 AM		0		
592-903439	9/8/2022 9:31:44 AM		0		
592-903439	9/8/2022 9:31:29 AM		0		
592-903439	9/8/2022 9:31:14 AM		0		
592-903439	9/8/2022 9:30:59 AM		0		
592-903439	9/8/2022 9:30:44 AM		0		
592-903439	9/8/2022 9:30:29 AM		0		
592-903439	9/8/2022 9:30:14 AM		0		
592-903439	9/8/2022 9:29:59 AM		0		
592-903439	9/8/2022 9:29:44 AM		0		
592-903439	9/8/2022 9:29:29 AM		0		
592-903439	9/8/2022 9:29:14 AM		0		
592-903439	9/8/2022 9:28:59 AM		0		
592-903439	9/8/2022 9:28:44 AM		0		
592-903439	9/8/2022 9:28:29 AM		0		
592-903439	9/8/2022 9:28:14 AM		0		
592-903439	9/8/2022 9:27:59 AM		0		
592-903439	9/8/2022 9:27:44 AM		0		
592-903439	9/8/2022 9:27:29 AM		0		
592-903439	9/8/2022 9:27:14 AM		0		
592-903439	9/8/2022 9:26:59 AM		0		
592-903439	9/8/2022 9:26:44 AM		0		
592-903439	9/8/2022 9:26:29 AM		0		
592-903439	9/8/2022 9:26:14 AM		0		
592-903439	9/8/2022 9:25:59 AM		0		

592-903439	9/8/2022 9:25:44 AM		0		
592-903439	9/8/2022 9:25:29 AM		0		
592-903439	9/8/2022 9:25:14 AM		0		
592-903439	9/8/2022 9:24:59 AM		0		
592-903439	9/8/2022 9:24:44 AM		0		
592-903439	9/8/2022 9:24:29 AM		0		
592-903439	9/8/2022 9:24:14 AM		0		
592-903439	9/8/2022 9:23:59 AM		0		
592-903439	9/8/2022 9:23:44 AM		0		
592-903439	9/8/2022 9:23:29 AM		0		
592-903439	9/8/2022 9:23:14 AM		0		
592-903439	9/8/2022 9:22:59 AM		0		
592-903439	9/8/2022 9:22:44 AM		0		
592-903439	9/8/2022 9:22:29 AM		0		
592-903439	9/8/2022 9:22:14 AM		0		
592-903439	9/8/2022 9:21:59 AM		0		
592-903439	9/8/2022 9:21:44 AM		0		
592-903439	9/8/2022 9:21:29 AM		0		
592-903439	9/8/2022 9:21:14 AM		0		
592-903439	9/8/2022 9:20:59 AM		0		
592-903439	9/8/2022 9:20:44 AM		0		
592-903439	9/8/2022 9:20:29 AM		0		
592-903439	9/8/2022 9:20:14 AM		0		
592-903439	9/8/2022 9:19:59 AM		0		
592-903439	9/8/2022 9:19:44 AM		0		
592-903439	9/8/2022 9:19:29 AM		0		
592-903439	9/8/2022 9:19:14 AM		0		
592-903439	9/8/2022 9:18:59 AM		0		
592-903439	9/8/2022 9:18:44 AM		0.1		
592-903439	9/8/2022 9:18:29 AM		0.1		
592-903439	9/8/2022 9:18:14 AM		0.1		
592-903439	9/8/2022 9:17:59 AM		0.3		
592-903439	9/8/2022 9:17:44 AM		0.6		
592-903439	9/8/2022 9:17:29 AM		0.8		
592-903439	9/8/2022 9:17:14 AM		0.9		
592-903439	9/8/2022 9:16:59 AM		0.1		
592-903439	9/8/2022 9:16:44 AM		0		
592-903439	9/8/2022 9:16:29 AM		0		
592-903439	9/8/2022 9:16:14 AM		0		
592-903439	9/8/2022 9:15:59 AM		0		
592-903439	9/8/2022 9:15:44 AM		0		
592-903439	9/8/2022 9:15:29 AM		0		
592-903439	9/8/2022 9:15:14 AM		0		
592-903439	9/8/2022 9:14:59 AM		0		
592-903439	9/8/2022 9:14:44 AM		0		
592-903439	9/8/2022 9:14:29 AM		0		
592-903439	9/8/2022 9:14:14 AM		0		
592-903439	9/8/2022 9:13:59 AM		0		
592-903439	9/8/2022 9:13:44 AM		0		
592-903439	9/8/2022 9:13:29 AM		0		
592-903439	9/8/2022 9:13:14 AM		0		
592-903439	9/8/2022 9:12:59 AM		0		
592-903439	9/8/2022 9:12:44 AM		0		
592-903439	9/8/2022 9:12:29 AM		0		
592-903439	9/8/2022 9:12:14 AM		0		
592-903439	9/8/2022 9:11:59 AM		0		
592-903439	9/8/2022 9:11:44 AM		0		
592-903439	9/8/2022 9:11:29 AM		0		
592-903439	9/8/2022 9:11:14 AM		0		
592-903439	9/8/2022 9:10:59 AM		0		
592-903439	9/8/2022 9:10:44 AM		0		
592-903439	9/8/2022 9:10:29 AM		0		
592-903439	9/8/2022 9:10:14 AM		0		
592-903439	9/8/2022 9:09:59 AM		0		
592-903439	9/8/2022 9:09:44 AM		0		
592-903439	9/8/2022 9:09:29 AM		0		
592-903439	9/8/2022 9:09:14 AM		0		
592-903439	9/8/2022 9:08:59 AM		0		
592-903439	9/8/2022 9:08:44 AM		0		
592-903439	9/8/2022 9:08:29 AM		0		
592-903439	9/8/2022 9:08:14 AM		0		
592-903439	9/8/2022 9:07:59 AM		0		
592-903439	9/8/2022 9:07:44 AM		0		
592-903439	9/8/2022 9:07:29 AM		0		
592-903439	9/8/2022 9:07:14 AM		0		
592-903439	9/8/2022 9:06:59 AM		0		
592-903439	9/8/2022 9:06:44 AM		0		
592-903439	9/8/2022 9:06:29 AM		0		
592-903439	9/8/2022 9:06:14 AM		0		
592-903439	9/8/2022 9:05:59 AM		0		
592-903439	9/8/2022 9:05:44 AM		0		
592-903439	9/8/2022 9:05:29 AM		0		
592-903439	9/8/2022 9:05:14 AM		0		
592-903439	9/8/2022 9:04:59 AM		0		
592-903439	9/8/2022 9:04:44 AM		0		
592-903439	9/8/2022 9:04:29 AM		0		
592-903439	9/8/2022 9:04:14 AM		0		
592-903439	9/8/2022 9:03:59 AM		0		
592-903439	9/8/2022 9:03:44 AM		0		
592-903439	9/8/2022 9:03:29 AM		0		

592-903439	9/8/2022 9:03:14 AM		0		
592-903439	9/8/2022 9:02:59 AM		0		
592-903439	9/8/2022 9:02:44 AM		0		
592-903439	9/8/2022 9:02:29 AM		0		
592-903439	9/8/2022 9:02:14 AM		0.1		
592-903439	9/8/2022 9:01:59 AM		0.2		
592-903439	9/8/2022 9:01:44 AM		0.2		
592-903439	9/8/2022 9:01:29 AM		0.2		
592-903439	9/8/2022 9:01:14 AM		0.2		
592-903439	9/8/2022 9:00:59 AM		0		
592-903439	9/8/2022 9:00:44 AM		0		
592-903439	9/8/2022 9:00:29 AM		0.1		
592-903439	9/8/2022 9:00:14 AM		0		
592-903439	9/8/2022 8:59:59 AM		0		
592-903439	9/8/2022 8:59:44 AM		0		
592-903439	9/8/2022 8:59:29 AM		0		
592-903439	9/8/2022 8:59:14 AM		0		
592-903439	9/8/2022 8:58:59 AM		0		
592-903439	9/8/2022 8:58:44 AM		0		
592-903439	9/8/2022 8:58:29 AM		0		
592-903439	9/8/2022 8:58:14 AM		0.1		
592-903439	9/8/2022 8:57:59 AM		0.1		
592-903439	9/8/2022 8:57:44 AM		0.1		
592-903439	9/8/2022 8:57:29 AM		0.1		
592-903439	9/8/2022 8:57:14 AM		0.1		
592-903439	9/8/2022 8:56:59 AM		0.1		
592-903439	9/8/2022 8:56:44 AM		0.2		
592-903439	9/8/2022 8:56:29 AM		0.3		
592-903439	9/8/2022 8:56:14 AM		0.2		
592-903439	9/8/2022 8:55:59 AM		0.3		
592-903439	9/8/2022 8:55:44 AM		0.4		
592-903439	9/8/2022 8:55:29 AM		0.4		
592-903439	9/8/2022 8:55:14 AM		0.2		
592-903439	9/8/2022 8:54:59 AM		0.3		
592-903439	9/8/2022 8:54:44 AM		0.4		
592-903439	9/8/2022 8:54:29 AM	ppm		9/8/2022 8:54:29 AM	9/8/2022 3:23:59 PM
592-903439	9/8/2022 8:50:53 AM		0.2		
592-903439	9/8/2022 8:50:38 AM	ppm		9/8/2022 8:50:38 AM	9/8/2022 8:50:53 AM
		max	0.9		

Upwind Station 048610
PINE PID: 44806

Device Serial No	Log Time	Sensor 1 Display Unit	Sensor 1 Gas Reading	Session Start Time	Session Stop Time
592-928663	9/9/2022 2:13:50 PM		0.2		
592-928663	9/9/2022 2:12:50 PM		0.2		
592-928663	9/9/2022 2:11:50 PM		0.2		
592-928663	9/9/2022 2:10:50 PM		0.2		
592-928663	9/9/2022 2:09:50 PM		0.2		
592-928663	9/9/2022 2:08:50 PM		0.2		
592-928663	9/9/2022 2:07:50 PM		0.2		
592-928663	9/9/2022 2:06:50 PM		0.2		
592-928663	9/9/2022 2:05:50 PM		0.2		
592-928663	9/9/2022 2:04:50 PM		0.2		
592-928663	9/9/2022 2:03:50 PM		0.2		
592-928663	9/9/2022 2:02:50 PM		0.2		
592-928663	9/9/2022 2:01:50 PM		0.2		
592-928663	9/9/2022 2:00:50 PM		0.2		
592-928663	9/9/2022 1:59:50 PM		0.2		
592-928663	9/9/2022 1:58:50 PM		0.2		
592-928663	9/9/2022 1:57:50 PM		0.2		
592-928663	9/9/2022 1:56:50 PM		0.2		
592-928663	9/9/2022 1:55:50 PM		0.2		
592-928663	9/9/2022 1:54:50 PM		0.2		
592-928663	9/9/2022 1:53:50 PM		0.2		
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592-928663	9/9/2022 1:50:50 PM		0.2		
592-928663	9/9/2022 1:49:50 PM		0.2		
592-928663	9/9/2022 1:48:50 PM		0.2		
592-928663	9/9/2022 1:47:50 PM		0.2		
592-928663	9/9/2022 1:46:50 PM		0.2		
592-928663	9/9/2022 1:45:50 PM		0.2		
592-928663	9/9/2022 1:44:50 PM		0.2		
592-928663	9/9/2022 1:43:50 PM		0.2		
592-928663	9/9/2022 1:42:50 PM		0.2		
592-928663	9/9/2022 1:41:50 PM		0.2		
592-928663	9/9/2022 1:40:50 PM		0.2		
592-928663	9/9/2022 1:39:50 PM		0.2		
592-928663	9/9/2022 1:38:50 PM		0.2		
592-928663	9/9/2022 1:37:50 PM		0.2		
592-928663	9/9/2022 1:36:50 PM		0.2		
592-928663	9/9/2022 1:35:50 PM		0.2		
592-928663	9/9/2022 1:34:50 PM		0.2		
592-928663	9/9/2022 1:33:50 PM		0.2		
592-928663	9/9/2022 1:32:50 PM		0.2		
592-928663	9/9/2022 1:31:50 PM		0.2		
592-928663	9/9/2022 1:30:50 PM		0.2		
592-928663	9/9/2022 1:29:50 PM		0.2		
592-928663	9/9/2022 1:28:50 PM		0.2		
592-928663	9/9/2022 1:27:50 PM		0.2		
592-928663	9/9/2022 1:26:50 PM		0.2		
592-928663	9/9/2022 1:25:50 PM		0.2		
592-928663	9/9/2022 1:24:50 PM		0.2		
592-928663	9/9/2022 1:23:50 PM		0.2		
592-928663	9/9/2022 1:22:50 PM		0.3		
592-928663	9/9/2022 1:21:50 PM		0.2		
592-928663	9/9/2022 1:20:50 PM		0.2		
592-928663	9/9/2022 1:19:50 PM		0.2		
592-928663	9/9/2022 1:18:50 PM		0.2		
592-928663	9/9/2022 1:17:50 PM		0.2		
592-928663	9/9/2022 1:16:50 PM		0.2		
592-928663	9/9/2022 1:15:50 PM		0.2		
592-928663	9/9/2022 1:14:50 PM		0.2		
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592-928663	9/9/2022 1:09:50 PM		0.2		
592-928663	9/9/2022 1:08:50 PM		0.2		
592-928663	9/9/2022 1:07:50 PM		0.2		
592-928663	9/9/2022 1:06:50 PM		0.2		
592-928663	9/9/2022 1:05:50 PM		0.2		
592-928663	9/9/2022 1:04:50 PM		0.2		
592-928663	9/9/2022 1:03:50 PM		0.2		

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530171606
Firmware Version	3.1
Calibration Date	1/20/2022
Test Name	MANUAL_011
Test Start Time	8:06:34 AM
Test Start Date	9/9/2022
Test Length [D:H:M]	0:05:45
Test Interval [M:S]	15:00
Mass Average [mg/m3]	0.008
Mass Minimum [mg/m3]	0.007
Mass Maximum [mg/m3]	0.013
Mass TWA [mg/m3]	0.006
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	23

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
900	0.013		
1800	0.012		
2700	0.01		
3600	0.008		
4500	0.008		
5400	0.008		
6300	0.01		
7200	0.009		
8100	0.008		
9000	0.008		
9900	0.007		
10800	0.007		
11700	0.008		
12600	0.008		
13500	0.008		
14400	0.008		
15300	0.008		
16200	0.007		
17100	0.008		
18000	0.007		
18900	0.007		
19800	0.007		
20700	0.007		

Max	13

592-928663	9/9/2022 1:02:50 PM		0.2		
592-928663	9/9/2022 1:01:50 PM		0.2		
592-928663	9/9/2022 1:00:50 PM		0.2		
592-928663	9/9/2022 12:59:50 PM		0.2		
592-928663	9/9/2022 12:58:50 PM		0.2		
592-928663	9/9/2022 12:57:50 PM		0.2		
592-928663	9/9/2022 12:56:50 PM		0.2		
592-928663	9/9/2022 12:55:50 PM		0.2		
592-928663	9/9/2022 12:54:50 PM		0.2		
592-928663	9/9/2022 12:53:50 PM		0.2		
592-928663	9/9/2022 12:52:50 PM		0.2		
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592-928663	9/9/2022 12:45:50 PM		0.2		
592-928663	9/9/2022 12:44:50 PM		0.2		
592-928663	9/9/2022 12:43:50 PM		0.2		
592-928663	9/9/2022 12:42:50 PM		0.2		
592-928663	9/9/2022 12:41:50 PM		0.2		
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592-928663	9/9/2022 12:36:50 PM		0.2		
592-928663	9/9/2022 12:35:50 PM		0.2		
592-928663	9/9/2022 12:34:50 PM		0.2		
592-928663	9/9/2022 12:33:50 PM		0.2		
592-928663	9/9/2022 12:32:50 PM		0.2		
592-928663	9/9/2022 12:31:50 PM		0.2		
592-928663	9/9/2022 12:30:50 PM		0.2		
592-928663	9/9/2022 12:29:50 PM		0.2		
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592-928663	9/9/2022 12:27:50 PM		0.2		
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592-928663	9/9/2022 12:24:50 PM		0.2		
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592-928663	9/9/2022 12:21:50 PM		0.2		
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592-928663	9/9/2022 12:02:50 PM		0.2		
592-928663	9/9/2022 12:01:50 PM		0.2		
592-928663	9/9/2022 12:00:50 PM		0.2		
592-928663	9/9/2022 11:59:50 AM		0.2		
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592-928663	9/9/2022 11:44:50 AM		0.1		
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592-928663	9/9/2022 11:05:50 AM		0.1		
592-928663	9/9/2022 11:04:50 AM		0.1		
592-928663	9/9/2022 11:03:50 AM		0.1		
592-928663	9/9/2022 11:02:50 AM		0.1		
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592-928663	9/9/2022 11:00:50 AM		0.1		
592-928663	9/9/2022 10:59:50 AM		0.1		
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592-928663	9/9/2022 10:57:50 AM		0.1		
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592-928663	9/9/2022 10:44:50 AM		0.1		
592-928663	9/9/2022 10:43:50 AM		0.1		
592-928663	9/9/2022 10:42:50 AM		0.1		
592-928663	9/9/2022 10:41:50 AM		0.1		
592-928663	9/9/2022 10:40:50 AM		0.1		
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592-928663	9/9/2022 10:38:50 AM		0.1		
592-928663	9/9/2022 10:37:50 AM		0.1		
592-928663	9/9/2022 10:36:50 AM		0.1		
592-928663	9/9/2022 10:35:50 AM		0.1		
592-928663	9/9/2022 10:34:50 AM		0.1		
592-928663	9/9/2022 10:33:50 AM		0.1		
592-928663	9/9/2022 10:32:50 AM		0.1		
592-928663	9/9/2022 10:31:50 AM		0.1		

592-928663	9/9/2022 10:30:50 AM		0.1		
592-928663	9/9/2022 10:29:50 AM		0.1		
592-928663	9/9/2022 10:28:50 AM		0.1		
592-928663	9/9/2022 10:27:50 AM		0		
592-928663	9/9/2022 10:26:50 AM		0		
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592-928663	9/9/2022 10:24:50 AM		0.1		
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592-928663	9/9/2022 10:21:50 AM		0.1		
592-928663	9/9/2022 10:20:50 AM		0.1		
592-928663	9/9/2022 10:19:50 AM		0		
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592-928663	9/9/2022 10:17:50 AM		0		
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592-928663	9/9/2022 10:15:50 AM		0		
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592-928663	9/9/2022 10:08:50 AM		0		
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592-928663	9/9/2022 10:04:50 AM		0		
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592-928663	9/9/2022 9:43:50 AM		0		
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592-928663	9/9/2022 9:25:50 AM		0		
592-928663	9/9/2022 9:24:50 AM		0		
592-928663	9/9/2022 9:23:50 AM		0		
592-928663	9/9/2022 9:22:50 AM		0		
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592-928663	9/9/2022 9:19:50 AM		0		
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592-928663	9/9/2022 9:17:50 AM		0		
592-928663	9/9/2022 9:16:50 AM		0		
592-928663	9/9/2022 9:15:50 AM		0		

592-928663	9/9/2022 9:14:50 AM		0		
592-928663	9/9/2022 9:13:50 AM		0		
592-928663	9/9/2022 9:12:50 AM		0		
592-928663	9/9/2022 9:11:50 AM		0		
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592-928663	9/9/2022 9:09:50 AM		0		
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592-928663	9/9/2022 9:07:50 AM		0		
592-928663	9/9/2022 9:06:50 AM		0		
592-928663	9/9/2022 9:05:50 AM		0		
592-928663	9/9/2022 9:04:50 AM		0		
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592-928663	9/9/2022 8:59:50 AM		0		
592-928663	9/9/2022 8:58:50 AM		0		
592-928663	9/9/2022 8:57:50 AM		0		
592-928663	9/9/2022 8:56:50 AM		0		
592-928663	9/9/2022 8:55:50 AM		0		
592-928663	9/9/2022 8:54:50 AM		0		
592-928663	9/9/2022 8:53:50 AM		0		
592-928663	9/9/2022 8:52:50 AM		0		
592-928663	9/9/2022 8:51:50 AM		0		
592-928663	9/9/2022 8:50:50 AM		0		
592-928663	9/9/2022 8:49:50 AM		0		
592-928663	9/9/2022 8:48:50 AM		0		
592-928663	9/9/2022 8:47:50 AM		0		
592-928663	9/9/2022 8:46:50 AM		0		
592-928663	9/9/2022 8:45:50 AM		0		
592-928663	9/9/2022 8:44:50 AM		0		
592-928663	9/9/2022 8:43:50 AM		0		
592-928663	9/9/2022 8:42:50 AM		0		
592-928663	9/9/2022 8:41:50 AM		0		
592-928663	9/9/2022 8:40:50 AM		0		
592-928663	9/9/2022 8:39:50 AM		0		
592-928663	9/9/2022 8:38:50 AM		0		
592-928663	9/9/2022 8:37:50 AM		0		
592-928663	9/9/2022 8:36:50 AM		0		
592-928663	9/9/2022 8:35:50 AM		0		
592-928663	9/9/2022 8:34:50 AM		0		
592-928663	9/9/2022 8:33:50 AM		0		
592-928663	9/9/2022 8:32:50 AM		0		
592-928663	9/9/2022 8:31:50 AM		0		
592-928663	9/9/2022 8:30:50 AM		0		
592-928663	9/9/2022 8:29:50 AM		0		
592-928663	9/9/2022 8:28:50 AM		0		
592-928663	9/9/2022 8:27:50 AM		0		
592-928663	9/9/2022 8:26:50 AM		0		
592-928663	9/9/2022 8:25:50 AM		0		
592-928663	9/9/2022 8:24:50 AM		0		
592-928663	9/9/2022 8:23:50 AM		0		
592-928663	9/9/2022 8:22:50 AM		0		
592-928663	9/9/2022 8:21:50 AM		0		
592-928663	9/9/2022 8:20:50 AM		0		
592-928663	9/9/2022 8:19:50 AM		0		
592-928663	9/9/2022 8:18:50 AM		0		
592-928663	9/9/2022 8:17:50 AM		0		
592-928663	9/9/2022 8:16:50 AM		0		
592-928663	9/9/2022 8:15:50 AM		0		
592-928663	9/9/2022 8:14:50 AM		0		
592-928663	9/9/2022 8:13:50 AM		0		
592-928663	9/9/2022 8:12:50 AM		0		
592-928663	9/9/2022 8:11:50 AM		0		
592-928663	9/9/2022 8:10:50 AM		0		
592-928663	9/9/2022 8:09:50 AM		0		
592-928663	9/9/2022 8:08:50 AM		0		
592-928663	9/9/2022 8:07:50 AM		0		
592-928663	9/9/2022 8:06:50 AM		0		
592-928663	9/9/2022 8:05:50 AM		0		
592-928663	9/9/2022 8:04:50 AM		0		
592-928663	9/9/2022 8:03:50 AM		0		
592-928663	9/9/2022 8:02:50 AM		0		
592-928663	9/9/2022 8:01:50 AM		0		
592-928663	9/9/2022 8:00:50 AM		0		
592-928663	9/9/2022 7:59:50 AM		0		

592-928663	9/9/2022 7:58:50 AM		0		
592-928663	9/9/2022 7:57:50 AM		0		
592-928663	9/9/2022 7:56:50 AM		0		
592-928663	9/9/2022 7:55:50 AM		0		
592-928663	9/9/2022 7:54:50 AM		0		
592-928663	9/9/2022 7:53:50 AM		0.1		
592-928663	9/9/2022 7:52:50 AM		0.1		
592-928663	9/9/2022 7:51:50 AM		0.1		
592-928663	9/9/2022 7:50:50 AM		0.1		
592-928663	9/9/2022 7:49:50 AM		0.1		
592-928663	9/9/2022 7:48:50 AM		0.1		
592-928663	9/9/2022 7:47:50 AM		0.1		
592-928663	9/9/2022 7:46:50 AM		0.1		
592-928663	9/9/2022 7:45:50 AM	ppm		9/9/2022 7:45:50 AM	9/9/2022 2:13:50 PM
592-928663	9/9/2022 7:41:27 AM		0		
592-928663	9/9/2022 7:40:27 AM	ppm		9/9/2022 7:40:27 AM	9/9/2022 7:41:27 AM

0.3

Downwind Station 47161

End Time	47161 Battery Voltage (Avg)	47161 Battery Percentage (Avg)	47161 Dust Trak Mass Conc. Total (Avg)	47161 Dust Trak TWA (Avg)	47161 Dust Trak Internal Battery (Avg)	47161 MiniRae VOC (Avg)	47161 MiniRae TWA (Avg)
Sep 9 2022 7:50:00 AM	12.286	99.391	0	0	88.715		
Sep 9 2022 8:00:00 AM	12.286	99.391	0.011	0	93.282		
Sep 9 2022 8:10:00 AM	12.286	99.391	0.012	0	92.04		
Sep 9 2022 8:20:00 AM	12.286	99.391	0.012	0.001	90.783		
Sep 9 2022 8:30:00 AM	12.286	99.391	0.011	0.001	89.61		
Sep 9 2022 8:40:00 AM	12.286	99.391	0.011	0.001	88.437		
Sep 9 2022 8:50:00 AM	12.286	99.391	0.009	0.001	87.262		
Sep 9 2022 9:00:00 AM	12.286	99.391	0.01	0.001	86.05		
Sep 9 2022 9:10:00 AM	12.286	99.391	0.009	0.002	84.758		
Sep 9 2022 9:20:00 AM	12.286	99.391	0.019	0.002	83.585		
Sep 9 2022 9:30:00 AM	12.286	99.391	0.017	0.002	82.413	0.047	0.29
Sep 9 2022 9:40:00 AM	12.286	99.391	0.015	0.003	81.233	0.052	0.291
Sep 9 2022 9:50:00 AM	12.286	99.391	0.396	0.008	79.892	0.187	0.294
Sep 9 2022 10:00:00 AM	12.286	99.391	0.013	0.011	78.66	0.084	0.296
Sep 9 2022 10:10:00 AM	12.286	99.391	0.01	0.011	77.487	0.104	0.298
Sep 9 2022 10:20:00 AM	12.286	99.391	0.01	0.012	76.287	0.134	0.301
Sep 9 2022 10:30:00 AM	12.286	99.391	0.009	0.012	75.015	0.148	0.304
Sep 9 2022 10:40:00 AM	12.286	99.391	0.009	0.012	73.708	0.162	0.307
Sep 9 2022 10:50:00 AM	12.286	99.391	0.01	0.012	72.535	0.157	0.31
Sep 9 2022 11:00:00 AM	12.286	99.391	0.009	0.012	71.337	0.144	0.313
Sep 9 2022 11:10:00 AM	12.286	99.391	0.01	0.013	70.072	0.136	0.316
Sep 9 2022 11:20:00 AM	12.286	99.391	0.022	0.013	68.708	0.121	0.319
Sep 9 2022 11:30:00 AM	12.286	99.391	0.015	0.013	67.508	0.111	0.321
Sep 9 2022 11:40:00 AM	12.286	99.391	0.016	0.014	66.31	0.092	0.323
Sep 9 2022 11:50:00 AM	12.286	99.391	0.01	0.014	64.995	0.073	0.325
Sep 9 2022 12:00:00 PM	12.286	99.391	0.014	0.014	63.66	0.063	0.327
Sep 9 2022 12:10:00 PM	12.286	99.391	0.011	0.015	62.458	0.05	0.328
Sep 9 2022 12:20:00 PM	12.286	99.391	0.012	0.015	61.235	0.044	0.329
Sep 9 2022 12:30:00 PM	12.286	99.391	0.011	0.015	59.797	0.034	0.33
Sep 9 2022 12:40:00 PM	12.286	99.391	0.01	0.015	58.562	0.031	0.33
Sep 9 2022 12:50:00 PM	12.284	99.311	0.011	0.015	57.362	0.019	0.331
Sep 9 2022 1:00:00 PM	12.272	98.796	0.009	0.016	55.997	0.01	0.331
Sep 9 2022 1:10:00 PM	12.261	98.316	0.009	0.016	54.662	0.007	0.331
Sep 9 2022 1:20:00 PM	12.253	97.96	0.01	0.016	53.437	0.012	0.331
Sep 9 2022 1:30:00 PM	12.274	98.872	0.009	0.016	51.872	0.006	0.332
Sep 9 2022 1:40:00 PM	12.231	96.998	0.009	0.016	50.585	0.008	0.332
Sep 9 2022 1:50:00 PM	12.227	96.842	0.103	0.017	49.36	0.015	0.332
Sep 9 2022 2:00:00 PM	12.252	97.902	0.013	0.019	48.024	0.003	0.332
Sep 9 2022 2:10:00 PM	12.238	97.325	0.011	0.019	46.662	0.002	0.332
Sep 9 2022 2:20:00 PM	12.213	96.217	0.009	0.019	46	0	0.332
		Max	396			0.187	

Upwind Station 48610
PINE PID: 44806

Device Serial No	Log Time	Sensor 1 Display Unit	Sensor 1 Gas Reading	Session Start Time	Session Stop Time
592-928663	9/12/2022 4:18:43 PM		0.4		
592-928663	9/12/2022 4:17:43 PM		0.4		
592-928663	9/12/2022 4:16:43 PM		0.4		
592-928663	9/12/2022 4:15:43 PM		0.4		
592-928663	9/12/2022 4:14:43 PM		0.4		
592-928663	9/12/2022 4:13:43 PM		0.4		
592-928663	9/12/2022 4:12:43 PM		0.4		
592-928663	9/12/2022 4:11:43 PM		0.4		
592-928663	9/12/2022 4:10:43 PM		0.4		
592-928663	9/12/2022 4:09:43 PM		0.4		
592-928663	9/12/2022 4:08:43 PM		0.4		
592-928663	9/12/2022 4:07:43 PM		0.4		
592-928663	9/12/2022 4:06:43 PM		0.4		
592-928663	9/12/2022 4:05:43 PM		0.4		
592-928663	9/12/2022 4:04:43 PM		0.4		
592-928663	9/12/2022 4:03:43 PM		0.4		
592-928663	9/12/2022 4:02:43 PM		0.4		
592-928663	9/12/2022 4:01:43 PM		0.4		
592-928663	9/12/2022 4:00:43 PM		0.4		
592-928663	9/12/2022 3:59:43 PM		0.4		
592-928663	9/12/2022 3:58:43 PM		0.4		
592-928663	9/12/2022 3:57:43 PM		0.4		
592-928663	9/12/2022 3:56:43 PM		0.4		
592-928663	9/12/2022 3:55:43 PM		0.4		
592-928663	9/12/2022 3:54:43 PM		0.4		
592-928663	9/12/2022 3:53:43 PM		0.4		
592-928663	9/12/2022 3:52:43 PM		0.4		
592-928663	9/12/2022 3:51:43 PM		0.4		
592-928663	9/12/2022 3:50:43 PM		0.4		
592-928663	9/12/2022 3:49:43 PM		0.4		
592-928663	9/12/2022 3:48:43 PM		0.4		
592-928663	9/12/2022 3:47:43 PM		0.4		
592-928663	9/12/2022 3:46:43 PM		0.4		
592-928663	9/12/2022 3:45:43 PM		0.4		
592-928663	9/12/2022 3:44:43 PM		0.4		
592-928663	9/12/2022 3:43:43 PM		0.4		
592-928663	9/12/2022 3:42:43 PM		0.4		
592-928663	9/12/2022 3:41:43 PM		0.4		
592-928663	9/12/2022 3:40:43 PM		0.4		
592-928663	9/12/2022 3:39:43 PM		0.4		
592-928663	9/12/2022 3:38:43 PM		0.4		
592-928663	9/12/2022 3:37:43 PM		0.4		
592-928663	9/12/2022 3:36:43 PM		0.4		
592-928663	9/12/2022 3:35:43 PM		0.4		
592-928663	9/12/2022 3:34:43 PM		0.4		
592-928663	9/12/2022 3:33:43 PM		0.4		
592-928663	9/12/2022 3:32:43 PM		0.4		
592-928663	9/12/2022 3:31:43 PM		0.4		
592-928663	9/12/2022 3:30:43 PM		0.4		
592-928663	9/12/2022 3:29:43 PM		0.4		
592-928663	9/12/2022 3:28:43 PM		0.4		
592-928663	9/12/2022 3:27:43 PM		0.4		
592-928663	9/12/2022 3:26:43 PM		0.4		
592-928663	9/12/2022 3:25:43 PM		0.4		
592-928663	9/12/2022 3:24:43 PM		0.4		
592-928663	9/12/2022 3:23:43 PM		0.4		
592-928663	9/12/2022 3:22:43 PM		0.4		
592-928663	9/12/2022 3:21:43 PM		0.4		
592-928663	9/12/2022 3:20:43 PM		0.4		
592-928663	9/12/2022 3:19:43 PM		0.4		
592-928663	9/12/2022 3:18:43 PM		0.4		
592-928663	9/12/2022 3:17:43 PM		0.4		
592-928663	9/12/2022 3:16:43 PM		0.4		
592-928663	9/12/2022 3:15:43 PM		0.4		
592-928663	9/12/2022 3:14:43 PM		0.4		
592-928663	9/12/2022 3:13:43 PM		0.4		
592-928663	9/12/2022 3:12:43 PM		0.4		
592-928663	9/12/2022 3:11:43 PM		0.4		
592-928663	9/12/2022 3:10:43 PM		0.4		
592-928663	9/12/2022 3:09:43 PM		0.4		
592-928663	9/12/2022 3:08:43 PM		0.4		

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530171606
Firmware Version	3.1
Calibration Date	1/20/2022
Test Name	MANUAL_012
Test Start Time	8:51:28 AM
Test Start Date	9/12/2022
Test Length [D:H:M]	0:07:00
Test Interval [M:S]	15:00
Mass Average [mg/m3]	0.002
Mass Minimum [mg/m3]	0
Mass Maximum [mg/m3]	0.005
Mass TWA [mg/m3]	0.001
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	28

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
900	0.004		
1800	0.001		
2700	0		
3600	0		
4500	0		
5400	0		
6300	0		
7200	0		
8100	0		
9000	0		
9900	0		
10800	0		
11700	0		
12600	0		
13500	0		
14400	0		
15300	0		
16200	0		
17100	0.003		
18000	0.003		
18900	0.004		
19800	0.004		
20700	0.005		
21600	0.004		
22500	0.004		
23400	0.004		
24300	0.005		
25200	0.005		
MAX	5		

592-928663	9/12/2022 3:07:43 PM		0.4			
592-928663	9/12/2022 3:06:43 PM		0.4			
592-928663	9/12/2022 3:05:43 PM		0.4			
592-928663	9/12/2022 3:04:43 PM		0.4			
592-928663	9/12/2022 3:03:43 PM		0.4			
592-928663	9/12/2022 3:02:43 PM		0.4			
592-928663	9/12/2022 3:01:43 PM		0.4			
592-928663	9/12/2022 3:00:43 PM		0.4			
592-928663	9/12/2022 2:59:43 PM		0.4			
592-928663	9/12/2022 2:58:43 PM		0.4			
592-928663	9/12/2022 2:57:43 PM		0.4			
592-928663	9/12/2022 2:56:43 PM		0.4			
592-928663	9/12/2022 2:55:43 PM		0.4			
592-928663	9/12/2022 2:54:43 PM		0.4			
592-928663	9/12/2022 2:53:43 PM		0.4			
592-928663	9/12/2022 2:52:43 PM		0.4			
592-928663	9/12/2022 2:51:43 PM		0.4			
592-928663	9/12/2022 2:50:43 PM		0.4			
592-928663	9/12/2022 2:49:43 PM		0.4			
592-928663	9/12/2022 2:48:43 PM		0.4			
592-928663	9/12/2022 2:47:43 PM		0.4			
592-928663	9/12/2022 2:46:43 PM		0.4			
592-928663	9/12/2022 2:45:43 PM		0.4			
592-928663	9/12/2022 2:44:43 PM		0.4			
592-928663	9/12/2022 2:43:43 PM		0.4			
592-928663	9/12/2022 2:42:43 PM		0.4			
592-928663	9/12/2022 2:41:43 PM		0.4			
592-928663	9/12/2022 2:40:43 PM		0.4			
592-928663	9/12/2022 2:39:43 PM		0.4			
592-928663	9/12/2022 2:38:43 PM		0.4			
592-928663	9/12/2022 2:37:43 PM		0.4			
592-928663	9/12/2022 2:36:43 PM		0.4			
592-928663	9/12/2022 2:35:43 PM		0.4			
592-928663	9/12/2022 2:34:43 PM		0.4			
592-928663	9/12/2022 2:33:43 PM		0.4			
592-928663	9/12/2022 2:32:43 PM		0.4			
592-928663	9/12/2022 2:31:43 PM		0.4			
592-928663	9/12/2022 2:30:43 PM		0.4			
592-928663	9/12/2022 2:29:43 PM		0.4			
592-928663	9/12/2022 2:28:43 PM		0.4			
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592-928663	9/12/2022 2:26:43 PM		0.4			
592-928663	9/12/2022 2:25:43 PM		0.4			
592-928663	9/12/2022 2:24:43 PM		0.4			
592-928663	9/12/2022 2:23:43 PM		0.4			
592-928663	9/12/2022 2:22:43 PM		0.4			
592-928663	9/12/2022 2:21:43 PM		0.4			
592-928663	9/12/2022 2:20:43 PM		0.4			
592-928663	9/12/2022 2:19:43 PM		0.4			
592-928663	9/12/2022 2:18:43 PM		0.4			
592-928663	9/12/2022 2:17:43 PM		0.4			
592-928663	9/12/2022 2:16:43 PM		0.4			
592-928663	9/12/2022 2:15:43 PM		0.4			
592-928663	9/12/2022 2:14:43 PM		0.4			
592-928663	9/12/2022 2:13:43 PM		0.4			
592-928663	9/12/2022 2:12:43 PM		0.4			
592-928663	9/12/2022 2:11:43 PM		0.4			
592-928663	9/12/2022 2:10:43 PM		0.4			
592-928663	9/12/2022 2:09:43 PM		0.4			
592-928663	9/12/2022 2:08:43 PM		0.4			
592-928663	9/12/2022 2:07:43 PM		0.4			
592-928663	9/12/2022 2:06:43 PM		0.4			
592-928663	9/12/2022 2:05:43 PM		0.4			
592-928663	9/12/2022 2:04:43 PM		0.4			
592-928663	9/12/2022 2:03:43 PM		0.4			
592-928663	9/12/2022 2:02:43 PM		0.3			
592-928663	9/12/2022 2:01:43 PM		0.4			
592-928663	9/12/2022 2:00:43 PM		0.3			
592-928663	9/12/2022 1:59:43 PM		0.4			
592-928663	9/12/2022 1:58:43 PM		0.3			
592-928663	9/12/2022 1:57:43 PM		0.3			
592-928663	9/12/2022 1:56:43 PM		0.3			
592-928663	9/12/2022 1:55:43 PM		0.3			
592-928663	9/12/2022 1:54:43 PM		0.3			
592-928663	9/12/2022 1:53:43 PM		0.3			
592-928663	9/12/2022 1:52:43 PM		0.3			

592-928663	9/12/2022 1:51:43 PM		0.3			
592-928663	9/12/2022 1:50:43 PM		0.3			
592-928663	9/12/2022 1:49:43 PM		0.3			
592-928663	9/12/2022 1:48:43 PM		0.3			
592-928663	9/12/2022 1:47:43 PM		0.3			
592-928663	9/12/2022 1:46:43 PM		0.3			
592-928663	9/12/2022 1:45:43 PM		0.3			
592-928663	9/12/2022 1:44:43 PM		0.3			
592-928663	9/12/2022 1:43:43 PM		0.3			
592-928663	9/12/2022 1:42:43 PM		0.3			
592-928663	9/12/2022 1:41:43 PM		0.3			
592-928663	9/12/2022 1:40:43 PM		0.3			
592-928663	9/12/2022 1:39:43 PM		0.3			
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592-928663	9/12/2022 10:24:43 AM		0.1			
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592-928663	9/12/2022 9:05:43 AM	ppm		9/12/2022 9:05:43 AM	9/12/2022 4:18:43 PM

0.4

Downwind Station 47161

End Time	47161 Battery Voltage (Avg)	47161 Battery Percentage (Avg)	47161 Dust Trak Mass Conc. Total (Avg)	47161 Dust Trak TWA (Avg)	47161 Dust Trak Internal Battery (Avg)	47161 MiniRae VOC (Avg)	47161 MiniRae TWA (Avg)
Sep 12 2022 8:40:00 AM	12.286	99.391	0	0	93.865	0.18	0
Sep 12 2022 8:50:00 AM	12.286	99.391	0.002	0	94.056	0.095	0.135
Sep 12 2022 9:00:00 AM	12.286	99.391	0.002	0	92.529	0.022	0.136
Sep 12 2022 9:10:00 AM	12.286	99.391	0.002	0	91.598	0.009	0.136
Sep 12 2022 9:20:00 AM	12.286	99.391	0.001	0	90.45	0.017	0.136
Sep 12 2022 9:30:00 AM	12.286	99.391	0.001	0	89.272	0.037	0.137
Sep 12 2022 9:40:00 AM	12.286	99.391	0.001	0	88.073	0.052	0.138
Sep 12 2022 9:50:00 AM	12.286	99.391	0.001	0	86.8	0.063	0.139
Sep 12 2022 10:00:00 AM	12.286	99.391	0.001	0	85.627	0.07	0.14
Sep 12 2022 10:10:00 AM	12.286	99.391	0.002	0	84.448	0.076	0.142
Sep 12 2022 10:20:00 AM	12.286	99.391	0.002	0	83.273	0.083	0.144
Sep 12 2022 10:30:00 AM	12.286	99.391	0.002	0	82.023	0.089	0.145
Sep 12 2022 10:40:00 AM	12.286	99.391	0.001	0	80.727	0.097	0.147
Sep 12 2022 10:50:00 AM	12.286	99.391	0.002	0	79.55	0.106	0.149
Sep 12 2022 11:00:00 AM	12.286	99.391	0.002	0	78.352	0.112	0.152
Sep 12 2022 11:10:00 AM	12.286	99.391	0.002	0	77.178	0.118	0.154
Sep 12 2022 11:20:00 AM	12.286	99.391	0.002	0.001	75.8	0.114	0.156
Sep 12 2022 11:30:00 AM	12.286	99.391	0.002	0.001	74.602	0.103	0.159
Sep 12 2022 11:40:00 AM	12.286	99.391	0.002	0.001	73.425	0.095	0.161
Sep 12 2022 11:50:00 AM	12.286	99.391	0.002	0.001	72.225	0.087	0.163
Sep 12 2022 12:00:00 PM	12.286	99.391	0.002	0.001	70.853	0.073	0.164
Sep 12 2022 12:10:00 PM	12.286	99.391	0.002	0.001	69.625	0.063	0.166
Sep 12 2022 12:20:00 PM	12.286	99.391	0.002	0.001	68.427	0.052	0.167
Sep 12 2022 12:30:00 PM	12.286	99.391	0.002	0.001	67.225	0.042	0.168
Sep 12 2022 12:40:00 PM	12.286	99.391	0.002	0.001	65.828	0.032	0.169
Sep 12 2022 12:50:00 PM	12.286	99.391	0.002	0.001	64.602	0.031	0.169
Sep 12 2022 1:00:00 PM	12.251	97.863	0.004	0.001	63.375	0.028	0.17
Sep 12 2022 1:10:00 PM	11.961	85.241	0.004	0.001	63	0.006	0.17
Sep 12 2022 1:20:00 PM	11.954	84.976	0.004	0.001	63	0.016	0.17
Sep 12 2022 1:30:00 PM	11.905	82.808	0.005	0.001	63	0.015	0.171
Sep 12 2022 1:40:00 PM	11.877	81.595	0.006	0.001	63	0.015	0.171
Sep 12 2022 1:50:00 PM	11.844	80.17	0.006	0.001	63	0.013	0.171
Sep 12 2022 2:00:00 PM	11.804	78.42	0.011	0.002	63	0.012	0.172
Sep 12 2022 2:10:00 PM	11.768	76.88	0.008	0.002	63	0.014	0.172
Sep 12 2022 2:20:00 PM	11.8	78.244	0.007	0.002	63	0.011	0.172
Sep 12 2022 2:30:00 PM	11.708	74.265	0.007	0.002	63	0.004	0.172
Sep 12 2022 2:40:00 PM	10.304	13.239	0.007	0.002	62.477	0	0.172
Sep 12 2022 2:50:00 PM	9.922	-3.372	0.007	0.002	61.207	0.001	0.172
Sep 12 2022 3:00:00 PM	9.921	-3.428	0.007	0.003	59.753	0	0.172
Sep 12 2022 3:10:00 PM	9.944	-2.428	0.007	0.003	58.477	0	0.172

Sep 12 2022 3:20:00 PM	9.95	-2.177	0.007	0.003	57.205	0	0.172
Sep 12 2022 3:30:00 PM	9.905	-4.132	0.008	0.003	55.727	0	0.172
Sep 12 2022 3:40:00 PM	9.914	-3.753	0.007	0.003	54.452	0	0.172
Sep 12 2022 3:50:00 PM	9.94	-2.625	0.007	0.003	53.13	0	0.172
Sep 12 2022 4:00:00 PM	9.924	-3.326	0.008	0.004	51.682	0	0.172
		Max	11			0.118	

End Time	47161 Battery Percentage (Avg)	47161 Dust Trak Mass Conc. Total (Avg)	47161 Dust Trak Serial Number (Avg)	47161 MiniRae VOC (Avg)	47161 MiniRae Serial Number (Avg)
Sep 14 2022 9:10:00 AM					
Sep 14 2022 9:50:00 AM	95.654	0.012	8530092503	0	903439
Sep 14 2022 10:00:00 AM	86.039	0.012	8530092503	0	903439
Sep 14 2022 10:10:00 AM	82.015	0.012	8530092503	0	903439
Sep 14 2022 10:20:00 AM	84.503	0.012	8530092503	0	903439
Sep 14 2022 10:30:00 AM	85.548	0.012	8530092503	0	903439
Sep 14 2022 10:40:00 AM	88.27	0.013	8530092503	0	903439
Sep 14 2022 10:50:00 AM	88.951	0.013	8530092503	0	903439
Sep 14 2022 11:00:00 AM	88.068	0.015	8530092503	0	903439
Sep 14 2022 11:10:00 AM	98.897	0.015	8530092503	0	903439
Sep 14 2022 11:20:00 AM	99.391	0.015	8530092503	0	903439
Sep 14 2022 11:30:00 AM	99.391	0.015	8530092503	0	903439
Sep 14 2022 11:40:00 AM	99.391	0.015	8530092503	0	903439
Sep 14 2022 11:50:00 AM	99.391	0.016	8530092503	0	903439
Sep 14 2022 12:00:00 PM	99.391	0.016	8530092503	0	903439
Sep 14 2022 12:10:00 PM	99.391	0.016	8530092503	0	903439
Sep 14 2022 12:20:00 PM	99.391	0.016	8530092503	0	903439
Sep 14 2022 12:30:00 PM	99.197	0.016	8530092503	0	903439
Sep 14 2022 12:40:00 PM	99.391	0.017	8530092503	0	903439
Sep 14 2022 12:50:00 PM	99.391	0.016	8530092503	0	903439
Sep 14 2022 1:00:00 PM	99.391	0.016	8501658905	0	903439
	Max	0.017		0	

	47910 Battery Voltage (Volts) Average	47910 Battery Percentage (%) Average	47910 Dust Trak Mass Conc. Total (mg/mÂ³) Average	47910 Dust Trak TWA (mg/mÂ³) Average	47910 Dust Trak Internal Battery (%) Average	47910 MiniRae VOC (ppm) Average	47910 MiniRae TWA (ppm) Average
Sep 14 1:00PM EDT	12.286	99.391	0.002	0.001	75	0.401	0.49
Sep 14 12:50PM EDT	12.286	99.391	0.001	0.001	75.73	0.383	0.484
Sep 14 12:40PM EDT	12.286	99.391	0.003	0.001	76.069	0.365	0.476
Sep 14 12:30PM EDT	12.286	99.391	0.002	0.001	77	0.341	0.469
Sep 14 12:20PM EDT	12.286	99.391	0.001	0.001	77.829	0.373	0.461
Sep 14 12:10PM EDT	12.286	99.391	0.001	0.001	78.175	0.371	0.453
Sep 14 12:00PM EDT	12.286	99.391	0	0.001	79	0.359	0.446
Sep 14 11:50AM EDT	12.286	99.391	0	0.001	79.604	0.338	0.439
Sep 14 11:40AM EDT	12.286	99.391	0.001	0.001	80.331	0.326	0.432
Sep 14 11:30AM EDT	12.286	99.391	0.003	0.001	82	0.32	0.425
Sep 14 11:20AM EDT	12.286	99.391	0.001	0.001	82	0.302	0.419
Sep 14 11:10AM EDT	12.286	99.391	0.001	0.001	82.924	0.273	0.413
Sep 14 11:00AM EDT	12.286	99.391	0.002	0.001	83.451	0.259	0.407
Sep 14 10:50AM EDT	12.286	99.391	0.004	0	84	0.266	0.402
Sep 14 10:40AM EDT	12.286	99.391	0.021	0	84.349	0.247	0.396
Sep 14 10:30AM EDT	12.286	99.391	0.001	0	85.101	0.212	0.392
Sep 14 10:20AM EDT	12.286	99.391	0.002	0	86	0.17	0.388
Sep 14 10:10AM EDT	12.286	99.391	0	0	86.779	0.136	0.385
Sep 14 10:00AM EDT	12.286	99.391	0	0	87.501	0.105	0.382
Sep 14 9:50AM EDT	12.286	99.391	0	0	88.229	0.082	0.38
Sep 14 9:40AM EDT	12.286	99.391	0	0	86.923	0.587	0.327
Sep 14 9:30AM EDT	12.286	99.391	0	0	89	0.161	0.009
			0.021			0.587	

	47910 Battery Voltage (Volts) Average	47910 Battery Percentage (%) Average	47910 Dust Trak Mass Conc. Total (mg/mÂ³) Average	47910 Dust Trak TWA (mg/mÂ³) Average	47910 Dust Trak Internal Battery (%) Average	47910 MiniRae VOC (ppm) Average	47910 MiniRae TWA (ppm) Average
Sep 15 4:00PM EDT	12.286	99.391	0	0	61	0.198	0.313
Sep 15 3:50PM EDT	12.286	99.391	0	0	61.741	0.2	0.31
Sep 15 3:40PM EDT	12.286	99.391	0	0	62.389	0.203	0.306
Sep 15 3:30PM EDT	12.286	99.391	0	0	63.038	0.205	0.301
Sep 15 3:20PM EDT	12.286	99.391	0.003	0	64	0.203	0.297
Sep 15 3:10PM EDT	12.286	99.391	0.001	0	64.691	0.205	0.293
Sep 15 3:00PM EDT	12.286	99.391	0.003	0	65.313	0.214	0.288
Sep 15 2:50PM EDT	12.286	99.391	0	0	66	0.22	0.284
Sep 15 2:40PM EDT	12.286	99.391	0	0	66.911	0.228	0.279
Sep 15 2:30PM EDT	12.286	99.391	0	0	67.461	0.227	0.275
Sep 15 2:20PM EDT	12.286	99.391	0	0	68	0.23	0.27
Sep 15 2:10PM EDT	12.286	99.391	0	0	68.963	0.227	0.265
Sep 15 2:00PM EDT	12.286	99.391	0	0	69.488	0.226	0.26
Sep 15 1:50PM EDT	12.286	99.391	0	0	70	0.221	0.256
Sep 15 1:40PM EDT	12.286	99.391	0	0	70.961	0.221	0.251
Sep 15 1:30PM EDT	12.286	99.391	0	0	71.411	0.216	0.247
Sep 15 1:20PM EDT	12.286	99.391	0	0	72	0.212	0.242
Sep 15 1:10PM EDT	12.286	99.391	0	0	72.834	0.214	0.238
Sep 15 1:00PM EDT	12.286	99.391	0	0	73.236	0.222	0.233
Sep 15 12:50PM EDT	12.286	99.391	0	0	74	0.217	0.229
Sep 15 12:40PM EDT	12.286	99.391	0	0	74.858	0.224	0.224
Sep 15 12:30PM EDT	12.286	99.391	0	0	75.584	0.233	0.219
Sep 15 12:20PM EDT	12.286	99.391	0	0	76.308	0.231	0.214
Sep 15 12:10PM EDT	12.286	99.391	0	0	77.034	0.233	0.21
Sep 15 12:00PM EDT	12.286	99.391	0	0	78	0.24	0.205
Sep 15 11:50AM EDT	12.286	99.391	0	0	78.609	0.242	0.2
Sep 15 11:40AM EDT	12.286	99.391	0	0	79	0.238	0.195
Sep 15 11:30AM EDT	12.286	99.391	0	0	79.883	0.237	0.19
Sep 15 11:20AM EDT	12.286	99.391	0	0	80.158	0.24	0.185
Sep 15 11:10AM EDT	12.286	99.391	0	0	81	0.249	0.18
Sep 15 11:00AM EDT	12.286	99.391	0	0	81.756	0.259	0.174
Sep 15 10:50AM EDT	12.286	99.391	0	0	82.508	0.265	0.169
Sep 15 10:40AM EDT	12.286	99.391	0	0	83.256	0.264	0.163
Sep 15 10:30AM EDT	12.286	99.391	0	0	84	0.259	0.158
Sep 15 10:20AM EDT	12.286	99.391	0	0	84.906	0.269	0.153
Sep 15 10:10AM EDT	12.286	99.391	0	0	85.159	0.269	0.147
Sep 15 10:00AM EDT	12.286	99.391	0	0	85.714	0.263	0.141
Sep 15 9:50AM EDT	12.286	99.391	0	0	86.433	0.259	0.136
Sep 15 9:40AM EDT	12.286	99.391	0	0	87	0.257	0.131
Sep 15 9:30AM EDT	12.286	99.391	0	0	87.829	0.245	0.125
Sep 15 9:20AM EDT	12.286	99.391	0	0	88.533	0.226	0.12
Sep 15 9:10AM EDT	12.286	99.391	0.001	0	89.203	0.206	0.116
Sep 15 9:00AM EDT	12.286	99.391	0.002	0	90	0.175	0.112
Sep 15 8:50AM EDT	12.286	99.391	0.002	0	90.578	0.145	0.109
Sep 15 8:40AM EDT	12.286	99.391	0	0	85.565	0.37	0
		Max	0.003			0.37	

	47161 Battery Voltage (Volts) Average	47161 Battery Percentage (%) Average	47161 Dust Trak Mass Conc. Total (mg/mÂ³) Average	47161 Dust Trak TWA (mg/mÂ³) Average	47161 Dust Trak Internal Battery (%) Average	47161 MiniRae VOC (ppm) Average	47161 MiniRae TWA (ppm) Average
Sep 15 4:00PM EDT	11.991	86.553	0.001	0.002	46	0	0.137
Sep 15 3:50PM EDT	12.081	90.498	0.001	0.002	46.649	0	0.137
Sep 15 3:40PM EDT	12.134	92.794	0.001	0.001	47.974	0	0.137
Sep 15 3:30PM EDT	12.163	94.043	0.001	0.001	49.324	0	0.137
Sep 15 3:20PM EDT	12.17	94.362	0.001	0.001	50.549	0	0.137
Sep 15 3:10PM EDT	12.184	94.95	0.001	0.001	51.801	0	0.137
Sep 15 3:00PM EDT	12.211	96.116	0.001	0.001	53.247	0	0.137
Sep 15 2:50PM EDT	12.215	96.311	0.001	0.001	54.472	0	0.137
Sep 15 2:40PM EDT	12.237	97.241	0.001	0.001	55.676	0	0.137
Sep 15 2:30PM EDT	12.215	96.302	0.001	0.001	57.021	0	0.137
Sep 15 2:20PM EDT	12.237	97.266	0.001	0.001	58.349	0	0.137
Sep 15 2:10PM EDT	12.257	98.111	0.002	0.001	59.547	0	0.137
Sep 15 2:00PM EDT	12.271	98.72	0.002	0.001	60.771	0	0.137
Sep 15 1:50PM EDT	12.28	99.138	0.002	0.001	62.143	0	0.137
Sep 15 1:40PM EDT	12.273	98.82	0.002	0.001	63.399	0	0.137
Sep 15 1:30PM EDT	12.286	99.391	0.002	0.001	64.596	0	0.137
Sep 15 1:20PM EDT	12.286	99.391	0.002	0.001	65.799	0	0.137
Sep 15 1:10PM EDT	12.286	99.391	0.001	0.001	67.199	0	0.137
Sep 15 1:00PM EDT	12.286	99.391	0.001	0.001	68.397	0	0.137
Sep 15 12:50PM EDT	12.286	99.391	0.002	0.001	69.601	0	0.137
Sep 15 12:40PM EDT	12.286	99.391	0.002	0.001	70.797	0	0.137
Sep 15 12:30PM EDT	12.286	99.391	0.002	0.001	72.144	0	0.137
Sep 15 12:20PM EDT	12.286	99.391	0.002	0.001	73.347	0	0.137
Sep 15 12:10PM EDT	12.286	99.391	0.002	0.001	74.547	0	0.137
Sep 15 12:00PM EDT	11.469	63.875	0.002	0.001	75.722	0	0.137
Sep 15 11:50AM EDT	12.217	96.37	0.002	0.001	76.971	0.003	0.137
Sep 15 11:40AM EDT	12.283	99.276	0.002	0.001	78.246	0.009	0.137
Sep 15 11:30AM EDT	11.522	66.152	0.002	0.001	79.422	0.019	0.137
Sep 15 11:20AM EDT	10.958	41.669	0.002	0.001	80.594	0.028	0.137
Sep 15 11:10AM EDT	10.653	28.399	0.002	0.001	81.769	0.036	0.136
Sep 15 11:00AM EDT	10.596	25.892	0.002	0.001	83.069	0.048	0.135
Sep 15 10:50AM EDT	10.672	29.21	0.002	0	84.297	0.062	0.134
Sep 15 10:40AM EDT	10.951	41.363	0.002	0	85.444	0.078	0.132
Sep 15 10:30AM EDT	11.619	70.393	0.002	0	86.597	0.087	0.131
Sep 15 10:20AM EDT	11.673	72.757	0.002	0	87.771	0.103	0.129
Sep 15 10:10AM EDT	11.905	82.825	0.002	0	88.991	0.119	0.126
Sep 15 10:00AM EDT	12.036	88.542	0.002	0	90.219	0.13	0.124
Sep 15 9:50AM EDT	12.129	92.568	0.002	0	91.371	0.137	0.121
Sep 15 9:40AM EDT	11.96	85.228	0.002	0	92.517	0.136	0.118
Sep 15 9:30AM EDT	11.713	74.478	0.002	0	93.671	0.13	0.115
Sep 15 9:20AM EDT	11.738	75.574	0.002	0	94.819	0.115	0.113
Sep 15 9:10AM EDT	11.73	75.208	0.002	0	96.089	0.089	0.111
Sep 15 9:00AM EDT	11.697	73.782	0.002	0	97.249	0.064	0.109
Sep 15 8:50AM EDT	12.172	94.45	0	0	98	0.115	0
		Max	0.002			0.137	

	47910 Battery Voltage (Volts) Average	47910 Battery Percentage (%) Average	47910 Dust Trak Mass Conc. Total (mg/mÂ³) Average	47910 Dust Trak TWA (mg/mÂ³) Average	47910 Dust Trak Internal Battery (%) Average	47910 MiniRae VOC (ppm) Average	47910 MiniRae TWA (ppm) Average
Sep 16 3:50PM EDT	12.027	88.13	0	0.001	63	0.134	0.104
Sep 16 3:40PM EDT	12.018	87.724	0.002	0.001	63.435	0.14	0.103
Sep 16 3:30PM EDT	12.02	87.806	0.001	0.001	64	0.134	0.1
Sep 16 3:20PM EDT	12.076	90.277	0	0.001	64.985	0.134	0.097
Sep 16 3:10PM EDT	12.05	89.114	0	0.001	65.51	0.134	0.095
Sep 16 3:00PM EDT	12.11	91.741	0	0.001	66.06	0.138	0.092
Sep 16 2:50PM EDT	12.089	90.827	0	0.001	67	0.145	0.089
Sep 16 2:40PM EDT	12.106	91.546	0	0.001	67.587	0.146	0.086
Sep 16 2:30PM EDT	12.133	92.761	0	0.001	68.16	0.142	0.083
Sep 16 2:20PM EDT	12.158	93.805	0	0.001	69	0.142	0.08
Sep 16 2:10PM EDT	12.179	94.743	0	0.001	69.812	0.143	0.077
Sep 16 2:00PM EDT	12.176	94.616	0	0.001	70.459	0.142	0.074
Sep 16 1:50PM EDT	12.185	94.98	0	0.001	70.992	0.141	0.071
Sep 16 1:40PM EDT	12.2	95.653	0	0.001	72	0.14	0.068
Sep 16 1:30PM EDT	12.208	95.993	0	0.001	72.81	0.14	0.065
Sep 16 1:20PM EDT	12.211	96.125	0	0.001	73.487	0.138	0.062
Sep 16 1:10PM EDT	12.236	97.222	0	0.001	74.184	0.138	0.06
Sep 16 1:00PM EDT	12.246	97.655	0	0.001	75	0.141	0.057
Sep 16 12:50PM EDT	12.227	96.808	0	0.001	75.682	0.138	0.054
Sep 16 12:40PM EDT	12.259	98.236	0	0.001	76.03	0.137	0.051
Sep 16 12:30PM EDT	12.271	98.76	0	0.001	77	0.141	0.048
Sep 16 12:20PM EDT	12.277	98.992	0	0.001	77.355	0.148	0.045
Sep 16 12:10PM EDT	12.266	98.537	0	0.001	77.74	0.16	0.042
Sep 16 12:00PM EDT	12.284	99.321	0	0.001	78.805	0.16	0.038
Sep 16 11:50AM EDT	12.286	99.391	0.002	0	79.557	0.152	0.035
Sep 16 11:40AM EDT	12.286	99.391	0.003	0	80.282	0.147	0.032
Sep 16 11:30AM EDT	12.286	99.391	0	0	81.03	0.143	0.029
Sep 16 11:20AM EDT	12.286	99.391	0	0	82	0.146	0.026
Sep 16 11:10AM EDT	12.286	99.391	0	0	82.204	0.148	0.023
Sep 16 11:00AM EDT	12.286	99.391	0	0	83	0.154	0.02
Sep 16 10:50AM EDT	12.286	99.391	0	0	83.757	0.162	0.016
Sep 16 10:40AM EDT	12.286	99.391	0.001	0	84.032	0.158	0.013
Sep 16 10:30AM EDT	12.286	99.391	0.001	0	85	0.154	0.01
Sep 16 10:20AM EDT	12.286	99.391	0.002	0	85.679	0.121	0.007
Sep 16 10:10AM EDT	12.286	99.391	0.002	0	86.379	0.094	0.005
Sep 16 10:00AM EDT	12.286	99.391	0.002	0	87.08	0.08	0.003
Sep 16 9:50AM EDT	12.286	99.391	0.003	0	88	0.06	0.002
Sep 16 9:40AM EDT	12.286	99.391	0.003	0	88.755	0.043	0.001
Sep 16 9:30AM EDT	12.286	99.391	0.003	0	89.229	0.024	0
Sep 16 9:20AM EDT	12.286	99.391	0.003	0	90	0.006	0
Sep 16 9:10AM EDT	12.286	99.391	0.003	0	90.479	0.008	0
		Max	0.003			0.162	

	47161 Battery Voltage (Volts) Average	47161 Battery Percentage (%) Average	47161 Dust Trak Mass Conc. Total (mg/mÂ³) Average	47161 Dust Trak TWA (mg/mÂ³) Average	47161 Dust Trak Internal Battery (%) Average	47161 MiniRae VOC (ppm) Average	47161 MiniRae TWA (ppm) Average
Sep 16 3:30PM EDT	12.286	99.391	0.002	0.003	48	0	0.008
Sep 16 3:20PM EDT	12.286	99.391	0.002	0.003	48.801	0	0.008
Sep 16 3:10PM EDT	12.286	99.391	0.002	0.003	50.236	0	0.008
Sep 16 3:00PM EDT	12.286	99.391	0.002	0.003	51.46	0	0.008
Sep 16 2:50PM EDT	12.286	99.391	0.002	0.003	52.685	0	0.008
Sep 16 2:40PM EDT	12.286	99.391	0.002	0.002	54.051	0	0.008
Sep 16 2:30PM EDT	12.286	99.391	0.002	0.002	55.361	0	0.008
Sep 16 2:20PM EDT	12.286	99.391	0.003	0.002	56.585	0	0.008
Sep 16 2:10PM EDT	12.286	99.391	0.003	0.002	57.848	0	0.008
Sep 16 2:00PM EDT	12.286	99.391	0.002	0.002	59.238	0	0.008
Sep 16 1:50PM EDT	12.286	99.391	0.003	0.002	60.46	0	0.008
Sep 16 1:40PM EDT	12.286	99.391	0.002	0.002	61.66	0	0.008
Sep 16 1:30PM EDT	12.286	99.391	0.002	0.002	62.97	0	0.008
Sep 16 1:20PM EDT	12.286	99.391	0.002	0.002	64.311	0	0.008
Sep 16 1:10PM EDT	12.286	99.391	0.002	0.002	65.513	0	0.008
Sep 16 1:00PM EDT	12.286	99.391	0.002	0.002	66.708	0	0.008
Sep 16 12:50PM EDT	12.286	99.391	0.003	0.002	68.021	0	0.008
Sep 16 12:40PM EDT	12.286	99.391	0.002	0.002	69.313	0	0.008
Sep 16 12:30PM EDT	12.286	99.391	0.002	0.002	70.483	0	0.008
Sep 16 12:20PM EDT	12.286	99.391	0.003	0.002	71.683	0.005	0.008
Sep 16 12:10PM EDT	12.286	99.391	0.003	0.002	72.966	0.014	0.008
Sep 16 12:00PM EDT	12.286	99.391	0.002	0.002	74.26	0.017	0.008
Sep 16 11:50AM EDT	12.286	99.391	0.002	0.002	75.436	0.016	0.007
Sep 16 11:40AM EDT	12.286	99.391	0.004	0.002	76.636	0.018	0.007
Sep 16 11:30AM EDT	12.286	99.391	0.002	0.001	77.811	0.018	0.006
Sep 16 11:20AM EDT	12.286	99.391	0.002	0.001	79.141	0.023	0.006
Sep 16 11:10AM EDT	12.286	99.391	0.006	0.001	80.335	0.033	0.006
Sep 16 11:00AM EDT	12.286	99.391	0.02	0.001	81.51	0.045	0.005
Sep 16 10:50AM EDT	12.286	99.391	0.009	0.001	82.681	0.042	0.004
Sep 16 10:40AM EDT	12.286	99.391	0.002	0.001	83.843	0.041	0.003
Sep 16 10:30AM EDT	12.286	99.391	0.003	0.001	85.185	0.037	0.002
Sep 16 10:20AM EDT	12.286	99.391	0.003	0.001	86.331	0.025	0.002
Sep 16 10:10AM EDT	12.286	99.391	0.006	0	87.508	0.023	0.001
Sep 16 10:00AM EDT	12.286	99.391	0.003	0	88.658	0.014	0.001
Sep 16 9:50AM EDT	12.286	99.391	0.005	0	89.81	0.017	0
Sep 16 9:40AM EDT	12.286	99.391	0.004	0	91.12	0.003	0
Sep 16 9:30AM EDT	12.286	99.391	0.004	0	92.283	0.01	0
Sep 16 9:20AM EDT	12.286	99.391	0.006	0	92.455	0.032	0
		Max	0.02			0.045	

	47910 Battery Voltage (Volts) Average	47910 Battery Percentage (%) Average	47910 Dust Trak Mass Conc. Total (mg/mÂ³) Average	47910 Dust Trak TWA (mg/mÂ³) Average	47910 Dust Trak Internal Battery (%) Average	47910 MiniRae VOC (ppm) Average	47910 MiniRae TWA (ppm) Average
Sep 19 4:50PM EDT			0.004			0.432	0.615
Sep 19 4:40PM EDT	9.839	-6.988	0.004	0.015	58	0.429	0.611
Sep 19 4:30PM EDT	9.829	-7.415	0.004	0.015	58	0.427	0.602
Sep 19 4:20PM EDT	9.785	-9.356	0.004	0.014	58.95	0.423	0.593
Sep 19 4:10PM EDT	11.067	46.386	0.004	0.014	59.653	0.42	0.585
Sep 19 4:00PM EDT	11.963	85.35	0.004	0.014	60.378	0.415	0.576
Sep 19 3:50PM EDT	11.989	86.461	0.004	0.014	61.075	0.416	0.567
Sep 19 3:40PM EDT	12.066	89.813	0.004	0.014	62	0.411	0.559
Sep 19 3:30PM EDT	12.041	88.754	0.004	0.014	62.75	0.41	0.55
Sep 19 3:20PM EDT	12.108	91.638	0.004	0.014	63.425	0.411	0.542
Sep 19 3:10PM EDT	12.106	91.558	0.004	0.014	64.101	0.409	0.533
Sep 19 3:00PM EDT	12.132	92.675	0.003	0.014	65	0.407	0.525
Sep 19 2:50PM EDT	12.151	93.54	0.003	0.014	65.771	0.405	0.516
Sep 19 2:40PM EDT	12.155	93.711	0.003	0.014	66.425	0.403	0.508
Sep 19 2:30PM EDT	12.156	93.73	0.004	0.014	67.075	0.4	0.499
Sep 19 2:20PM EDT	12.179	94.754	0.005	0.013	68	0.396	0.491
Sep 19 2:10PM EDT	12.192	95.325	0.006	0.013	68.748	0.392	0.483
Sep 19 2:00PM EDT	12.216	96.338	0.008	0.013	69.423	0.389	0.475
Sep 19 1:50PM EDT	12.225	96.756	0.009	0.013	70	0.385	0.467
Sep 19 1:40PM EDT	12.241	97.414	0.014	0.013	70.946	0.382	0.459
Sep 19 1:30PM EDT	12.251	97.855	0.011	0.013	71.421	0.377	0.451
Sep 19 1:20PM EDT	12.255	98.043	0.009	0.012	72	0.374	0.443
Sep 19 1:10PM EDT	12.278	99.042	0.008	0.012	72.898	0.369	0.435
Sep 19 1:00PM EDT	12.285	99.352	0.01	0.012	73.371	0.379	0.427
Sep 19 12:50PM EDT	12.283	99.246	0.024	0.011	74.123	0.393	0.419
Sep 19 12:40PM EDT	12.286	99.391	0.023	0.011	75	0.402	0.411
Sep 19 12:30PM EDT	12.286	99.391	0.022	0.011	75.871	0.406	0.403
Sep 19 12:20PM EDT	12.286	99.391	0.022	0.01	76.643	0.405	0.394
Sep 19 12:10PM EDT	12.286	99.391	0.023	0.009	77.42	0.4	0.386
Sep 19 12:00PM EDT	12.286	99.391	0.023	0.009	78	0.384	0.378
Sep 19 11:50AM EDT	12.286	99.391	0.022	0.009	78.77	0.381	0.37
Sep 19 11:40AM EDT	12.286	99.391	0.022	0.008	78.675	0.383	0.362
Sep 19 11:30AM EDT	12.286	99.391	0.022	0.008	79.733	0.397	0.354
Sep 19 11:20AM EDT	12.286	99.391	0.023	0.007	80.543	0.398	0.346
Sep 19 11:10AM EDT	12.286	99.391	0.021	0.007	81.346	0.401	0.337
Sep 19 11:00AM EDT	12.286	99.391	0.021	0.007	82.121	0.404	0.329
Sep 19 10:50AM EDT	12.286	99.391	0.021	0.006	83	0.395	0.321
Sep 19 10:40AM EDT	12.286	99.391	0.023	0.005	83.843	0.387	0.312
Sep 19 10:30AM EDT	12.286	99.391	0.022	0.005	84.091	0.382	0.304
Sep 19 10:20AM EDT	12.286	99.391	0.022	0.004	85	0.384	0.296
Sep 19 10:10AM EDT	12.286	99.391	0.022	0.004	85.341	0.387	0.288
Sep 19 10:00AM EDT	12.286	99.391	0.022	0.004	86	0.383	0.28
Sep 19 9:50AM EDT	12.286	99.391	0.022	0.003	86.966	0.375	0.273
Sep 19 9:40AM EDT	12.286	99.391	0.022	0.002	87.718	0.364	0.265
Sep 19 9:30AM EDT	12.286	99.391	0.024	0.002	88.466	0.345	0.257
Sep 19 9:20AM EDT	12.286	99.391	0.024	0.002	89.141	0.318	0.251
Sep 19 9:10AM EDT	12.286	99.391	0.025	0.001	90	0.279	0.245
Sep 19 9:00AM EDT	12.286	99.391	0.026	0.001	90.368	0.228	0.239
Sep 19 8:50AM EDT	12.286	99.391	0.027	0	91	0.193	0.235
Sep 19 8:40AM EDT	12.286	99.391	0.001	0	90.394	0.319	0.028
		Max	0.027			0.432	

	47161 Battery Voltage (Volts) Average	47161 Battery Percentage (%) Average	47161 Dust Trak Mass Conc. Total (mg/mÂ³) Average	47161 Dust Trak TWA (mg/mÂ³) Average	47161 Dust Trak Internal Battery (%) Average	47161 MiniRae VOC (ppm) Average	47161 MiniRae TWA (ppm) Average
Sep 19 5:00PM EDT	12.286	99.391	0.008	0.02	33	0	0.177
Sep 19 4:50PM EDT	12.286	99.391	0.007	0.02	32.835	0	0.177
Sep 19 4:40PM EDT	12.286	99.391	0.007	0.02	34.086	0	0.177
Sep 19 4:30PM EDT	12.286	99.391	0.008	0.019	35.442	0	0.177
Sep 19 4:20PM EDT	12.286	99.391	0.008	0.019	36.694	0	0.177
Sep 19 4:10PM EDT	12.286	99.391	0.008	0.019	38.136	0.005	0.177
Sep 19 4:00PM EDT	12.286	99.391	0.009	0.019	39.445	0	0.177
Sep 19 3:50PM EDT	12.286	99.391	0.008	0.019	40.692	0.001	0.177
Sep 19 3:40PM EDT	12.286	99.391	0.007	0.019	42.111	0.002	0.177
Sep 19 3:30PM EDT	12.286	99.391	0.008	0.018	43.415	0.003	0.177
Sep 19 3:20PM EDT	12.286	99.391	0.007	0.018	44.833	0.006	0.176
Sep 19 3:10PM EDT	12.286	99.391	0.008	0.018	46.294	0.005	0.176
Sep 19 3:00PM EDT	12.286	99.391	0.007	0.018	47.517	0.004	0.176
Sep 19 2:50PM EDT	12.286	99.391	0.008	0.018	48.783	0.004	0.176
Sep 19 2:40PM EDT	12.286	99.391	0.009	0.018	50.242	0.024	0.176
Sep 19 2:30PM EDT	12.286	99.391	0.008	0.017	51.49	0.006	0.176
Sep 19 2:20PM EDT	12.286	99.391	0.009	0.017	52.717	0.005	0.176
Sep 19 2:10PM EDT	12.286	99.391	0.01	0.017	54.183	0.003	0.175
Sep 19 2:00PM EDT	12.286	99.391	0.012	0.017	55.44	0	0.175
Sep 19 1:50PM EDT	12.286	99.391	0.013	0.017	56.669	0	0.175
Sep 19 1:40PM EDT	12.286	99.391	0.02	0.016	58.056	0	0.175
Sep 19 1:30PM EDT	12.286	99.391	0.015	0.016	59.365	0	0.175
Sep 19 1:20PM EDT	12.286	99.391	0.014	0.016	60.589	0	0.175
Sep 19 1:10PM EDT	12.286	99.391	0.013	0.015	61.854	0.003	0.175
Sep 19 1:00PM EDT	12.286	99.391	0.016	0.015	63.242	0.001	0.175
Sep 19 12:50PM EDT	12.286	99.391	0.031	0.015	64.464	0	0.175
Sep 19 12:40PM EDT	12.286	99.391	0.03	0.014	65.69	0	0.175
Sep 19 12:30PM EDT	12.286	99.391	0.029	0.013	67.031	0.001	0.175
Sep 19 12:20PM EDT	12.286	99.391	0.028	0.013	68.339	0.002	0.175
Sep 19 12:10PM EDT	12.286	99.391	0.029	0.012	69.54	0.002	0.175
Sep 19 12:00PM EDT	12.286	99.391	0.029	0.011	70.742	0	0.175
Sep 19 11:50AM EDT	12.286	99.391	0.029	0.011	72.079	0	0.175
Sep 19 11:40AM EDT	12.286	99.391	0.029	0.01	73.342	0.008	0.175
Sep 19 11:30AM EDT	12.286	99.391	0.03	0.01	74.539	0.038	0.175
Sep 19 11:20AM EDT	12.286	99.391	0.036	0.009	75.742	0.082	0.174
Sep 19 11:10AM EDT	12.286	99.391	0.028	0.008	77.024	0.023	0.172
Sep 19 11:00AM EDT	12.286	99.391	0.028	0.008	78.289	0.028	0.172
Sep 19 10:50AM EDT	12.286	99.391	0.027	0.007	79.489	0.028	0.171
Sep 19 10:40AM EDT	12.286	99.391	0.029	0.007	80.667	0.029	0.171
Sep 19 10:30AM EDT	12.286	99.391	0.029	0.006	81.856	0.031	0.17
Sep 19 10:20AM EDT	12.286	99.391	0.03	0.005	83.187	0.036	0.169
Sep 19 10:10AM EDT	12.286	99.391	0.03	0.005	84.364	0.041	0.169
Sep 19 10:00AM EDT	12.286	99.391	0.03	0.004	85.539	0.047	0.168
Sep 19 9:50AM EDT	12.286	99.391	0.027	0.004	86.687	0.046	0.167
Sep 19 9:40AM EDT	12.286	99.391	0.027	0.003	87.874	0.045	0.166
Sep 19 9:30AM EDT	12.286	99.391	0.028	0.002	89.189	0.041	0.165
Sep 19 9:20AM EDT	12.286	99.391	0.028	0.002	90.337	0.027	0.164
Sep 19 9:10AM EDT	12.286	99.391	0.029	0.001	91.489	0.015	0.164
Sep 19 9:00AM EDT	12.286	99.391	0.029	0	92.664	0.008	0.164
Sep 19 8:50AM EDT	12.286	99.391	0.015	0	93.789	0.516	0.08
Sep 19 8:40AM EDT	12.286	99.391	0	0	94.189	0.037	0
		Max	0.036			0.516	

	47910 Battery Voltage (Volts) Average	47910 Battery Percentage (%) Average	47910 Dust Trak Mass Conc. Total (mg/mÂ³) Average	47910 Dust Trak TWA (mg/mÂ³) Average	47910 Dust Trak Internal Battery (%) Average	47910 MiniRae VOC (ppm) Average	47910 MiniRae TWA (ppm) Average
Sep 20 4:30PM EDT	9.4	-26.099	0	0.004	54	0.218	0.357
Sep 20 4:20PM EDT	9.767	-10.145	0	0.004	54.771	0.222	0.354
Sep 20 4:10PM EDT	9.775	-9.761	0	0.004	55.321	0.229	0.349
Sep 20 4:00PM EDT	9.747	-10.99	0	0.004	56	0.232	0.345
Sep 20 3:50PM EDT	9.733	-11.591	0	0.004	56.898	0.234	0.34
Sep 20 3:40PM EDT	9.976	-1.048	0	0.004	57.444	0.234	0.335
Sep 20 3:30PM EDT	11.866	81.121	0	0.004	58.069	0.224	0.33
Sep 20 3:20PM EDT	11.923	83.596	0	0.004	59	0.228	0.325
Sep 20 3:10PM EDT	12.012	87.461	0	0.004	59.796	0.228	0.321
Sep 20 3:00PM EDT	12.01	87.402	0	0.004	60.468	0.204	0.316
Sep 20 2:50PM EDT	12.059	89.528	0	0.004	61.171	0.198	0.312
Sep 20 2:40PM EDT	12.086	90.71	0	0.004	62	0.208	0.308
Sep 20 2:30PM EDT	12.104	91.469	0	0.004	62.869	0.235	0.303
Sep 20 2:20PM EDT	12.116	91.984	0	0.004	63.543	0.245	0.298
Sep 20 2:10PM EDT	12.129	92.559	0	0.004	64.221	0.239	0.293
Sep 20 2:00PM EDT	12.127	92.493	0	0.004	64.783	0.238	0.288
Sep 20 1:50PM EDT	12.153	93.626	0	0.004	65.868	0.247	0.283
Sep 20 1:40PM EDT	12.162	94.021	0	0.004	66.543	0.258	0.278
Sep 20 1:30PM EDT	12.174	94.5	0	0.004	67.194	0.272	0.272
Sep 20 1:20PM EDT	12.183	94.922	0	0.004	68	0.25	0.267
Sep 20 1:10PM EDT	12.194	95.392	0	0.004	68.843	0.237	0.262
Sep 20 1:00PM EDT	12.209	96.057	0	0.004	69.518	0.217	0.257
Sep 20 12:50PM EDT	12.202	95.739	0	0.004	70.216	0.208	0.253
Sep 20 12:40PM EDT	12.229	96.924	0	0.004	71	0.215	0.248
Sep 20 12:30PM EDT	12.222	96.609	0	0.004	71.741	0.23	0.244
Sep 20 12:20PM EDT	12.222	96.614	0	0.004	72.189	0.248	0.239
Sep 20 12:10PM EDT	12.231	96.984	0	0.004	73	0.277	0.233
Sep 20 12:00PM EDT	12.259	98.237	0	0.004	73.616	0.301	0.227
Sep 20 11:50AM EDT	12.266	98.533	0.001	0.004	74.543	0.298	0.221
Sep 20 11:40AM EDT	12.277	99.015	0.001	0.004	75	0.271	0.215
Sep 20 11:30AM EDT	12.281	99.194	0.002	0.004	75.941	0.246	0.21
Sep 20 11:20AM EDT	12.284	99.316	0.004	0.004	76.388	0.235	0.205
Sep 20 11:10AM EDT	12.275	98.897	0.004	0.004	77.166	0.242	0.2
Sep 20 11:00AM EDT	12.286	99.391	0.004	0.004	78	0.251	0.195
Sep 20 10:50AM EDT	12.275	98.911	0.005	0.004	78.938	0.239	0.19
Sep 20 10:40AM EDT	12.286	99.391	0.006	0.003	79.711	0.221	0.185
Sep 20 10:30AM EDT	12.286	99.391	0.007	0.003	80.364	0.222	0.18
Sep 20 10:20AM EDT	12.286	99.391	0.008	0.003	81	0.214	0.175
Sep 20 10:10AM EDT	12.286	99.391	0.009	0.003	81.713	0.21	0.171
Sep 20 10:00AM EDT	12.286	99.391	0.01	0.003	81.876	0.2	0.167
Sep 20 9:50AM EDT	12.286	99.391	0.011	0.003	83	0.193	0.163
Sep 20 9:40AM EDT	12.286	99.391	0.011	0.002	83.334	0.185	0.159
Sep 20 9:30AM EDT	12.286	99.391	0.012	0.002	84.389	0.179	0.155
Sep 20 9:20AM EDT	12.286	99.391	0.012	0.002	85.159	0.174	0.151
Sep 20 9:10AM EDT	12.286	99.391	0.012	0.001	86	0.161	0.148
Sep 20 9:00AM EDT	12.286	99.391	0.011	0.001	86.621	0.152	0.145
Sep 20 8:50AM EDT	12.286	99.391	0.011	0.001	87.336	0.141	0.142
Sep 20 8:40AM EDT	12.286	99.391	0.011	0.001	88	0.129	0.139
Sep 20 8:30AM EDT	12.286	99.391	0.012	0.001	88.688	0.115	0.136
Sep 20 8:20AM EDT	12.286	99.391	0.012	0	89.034	0.096	0.134
Sep 20 8:10AM EDT	12.286	99.391	0.012	0	90	0.072	0.133
Sep 20 8:00AM EDT	12.286	99.391	0.009	0	90.538	0.465	0.127
Sep 20 7:50AM EDT	12.286	99.391	0	0	90.12	0.298	0.002
		Max	0.012			0.465	

	47161 Battery Voltage (Volts) Average	47161 Battery Percentage (%) Average	47161 Dust Trak Mass Conc. Total (mg/mÂ³) Average	47161 Dust Trak TWA (mg/mÂ³) Average	47161 Dust Trak Internal Battery (%) Average	47161 MiniRae VOC (ppm) Average	47161 MiniRae TWA (ppm) Average
Sep 20 4:40PM EDT	12.286	99.391	0.002	0.006	31	0.044	0.282
Sep 20 4:30PM EDT	12.286	99.391	0.002	0.006	31.256	0.047	0.282
Sep 20 4:20PM EDT	12.286	99.391	0.002	0.006	32.504	0.052	0.281
Sep 20 4:10PM EDT	12.286	99.391	0.002	0.006	33.728	0.058	0.28
Sep 20 4:00PM EDT	12.286	99.391	0.002	0.006	35.207	0.062	0.279
Sep 20 3:50PM EDT	12.286	99.391	0.002	0.006	36.453	0.06	0.277
Sep 20 3:40PM EDT	12.286	99.391	0.002	0.006	37.704	0.063	0.276
Sep 20 3:30PM EDT	12.286	99.391	0.002	0.006	39.109	0.061	0.275
Sep 20 3:20PM EDT	12.286	99.391	0.002	0.006	40.429	0.065	0.274
Sep 20 3:10PM EDT	12.286	99.391	0.002	0.006	41.653	0.076	0.272
Sep 20 3:00PM EDT	12.286	99.391	0.002	0.006	43.032	0.075	0.271
Sep 20 2:50PM EDT	12.286	99.391	0.004	0.006	44.378	0.07	0.269
Sep 20 2:40PM EDT	12.286	99.391	0.004	0.005	45.604	0.112	0.267
Sep 20 2:30PM EDT	12.286	99.391	0.004	0.005	46.907	0.191	0.263
Sep 20 2:20PM EDT	12.286	99.391	0.006	0.005	48.306	0.085	0.261
Sep 20 2:10PM EDT	12.286	99.391	0.015	0.005	49.526	0.092	0.259
Sep 20 2:00PM EDT	12.286	99.391	0.002	0.005	50.782	0.07	0.258
Sep 20 1:50PM EDT	12.286	99.391	0.003	0.005	52.226	0.08	0.256
Sep 20 1:40PM EDT	12.286	99.391	0.002	0.005	53.451	0.095	0.254
Sep 20 1:30PM EDT	12.286	99.391	0.002	0.005	54.676	0.102	0.252
Sep 20 1:20PM EDT	12.286	99.391	0.002	0.005	56.027	0.092	0.25
Sep 20 1:10PM EDT	12.286	99.391	0.002	0.005	57.353	0.093	0.248
Sep 20 1:00PM EDT	12.286	99.391	0.002	0.005	58.576	0.079	0.247
Sep 20 12:50PM EDT	12.286	99.391	0.002	0.005	59.827	0.074	0.245
Sep 20 12:40PM EDT	12.286	99.391	0.002	0.005	61.249	0.076	0.243
Sep 20 12:30PM EDT	12.286	99.391	0.003	0.004	62.451	0.081	0.242
Sep 20 12:20PM EDT	12.286	99.391	0.003	0.004	63.674	0.098	0.24
Sep 20 12:10PM EDT	12.286	99.391	0.003	0.004	64.952	0.117	0.238
Sep 20 12:00PM EDT	12.286	99.391	0.003	0.004	66.276	0.136	0.235
Sep 20 11:50AM EDT	12.286	99.391	0.004	0.004	67.501	0.135	0.232
Sep 20 11:40AM EDT	12.286	99.391	0.003	0.004	68.699	0.123	0.23
Sep 20 11:30AM EDT	12.286	99.391	0.004	0.004	70.004	0.106	0.227
Sep 20 11:20AM EDT	12.286	99.391	0.006	0.004	71.303	0.101	0.225
Sep 20 11:10AM EDT	12.286	99.391	0.006	0.004	72.499	0.107	0.223
Sep 20 11:00AM EDT	12.286	99.391	0.006	0.004	73.699	0.118	0.221
Sep 20 10:50AM EDT	12.286	99.391	0.007	0.004	74.972	0.115	0.218
Sep 20 10:40AM EDT	12.286	99.391	0.008	0.003	76.278	0.11	0.216
Sep 20 10:30AM EDT	12.286	99.391	0.008	0.003	77.476	0.107	0.214
Sep 20 10:20AM EDT	12.286	99.391	0.009	0.003	78.648	0.105	0.211
Sep 20 10:10AM EDT	12.286	99.391	0.011	0.003	79.904	0.098	0.209
Sep 20 10:00AM EDT	12.286	99.391	0.01	0.003	81.226	0.091	0.207
Sep 20 9:50AM EDT	12.286	99.391	0.012	0.002	82.399	0.09	0.206
Sep 20 9:40AM EDT	12.286	99.391	0.013	0.002	83.598	0.085	0.204
Sep 20 9:30AM EDT	12.286	99.391	0.014	0.002	84.165	0.079	0.202
Sep 20 9:20AM EDT	12.286	99.391				0.078	0.2
Sep 20 9:10AM EDT	12.286	99.391				0.072	0.199
Sep 20 9:00AM EDT	12.286	99.391				0.061	0.197
Sep 20 8:50AM EDT	12.286	99.391				0.053	0.196
Sep 20 8:40AM EDT	12.286	99.391				0.041	0.195
Sep 20 8:30AM EDT	12.286	99.391				0.026	0.195
Sep 20 8:20AM EDT	12.286	99.391				0.017	0.194
Sep 20 8:10AM EDT	12.286	99.391				1.261	0.141
		Max	0.015			1.261	

	47910 Battery Voltage (Volts) Average	47910 Battery Percentage (%) Average	47910 Dust Trak Mass Conc. Total (mg/mÂ³) Average	47910 Dust Trak TWA (mg/mÂ³) Average	47910 Dust Trak Internal Battery (%) Average	47910 MiniRae VOC (ppm) Average	47910 MiniRae TWA (ppm) Average
Sep 21 4:30PM EDT	11.998	86.87	0.017	0.011	58	0.182	0.349
Sep 21 4:20PM EDT	11.978	85.998	0.017	0.011	57.973	0.183	0.349
Sep 21 4:10PM EDT	11.951	84.811	0.016	0.011	59	0.191	0.346
Sep 21 4:00PM EDT	12.019	87.762	0.016	0.011	59.865	0.201	0.342
Sep 21 3:50PM EDT	12.056	89.388	0.016	0.01	60.568	0.207	0.338
Sep 21 3:40PM EDT	12.075	90.223	0.015	0.01	60.835	0.198	0.334
Sep 21 3:30PM EDT	12.08	90.421	0.016	0.01	62	0.195	0.33
Sep 21 3:20PM EDT	12.098	91.226	0.016	0.009	62.942	0.202	0.326
Sep 21 3:10PM EDT	12.095	91.086	0.018	0.009	63.613	0.207	0.321
Sep 21 3:00PM EDT	12.151	93.541	0.015	0.009	64.29	0.201	0.317
Sep 21 2:50PM EDT	12.147	93.337	0.015	0.008	65	0.22	0.313
Sep 21 2:40PM EDT	12.158	93.83	0.014	0.008	65.963	0.23	0.308
Sep 21 2:30PM EDT	12.177	94.659	0.015	0.008	66.613	0.232	0.303
Sep 21 2:20PM EDT	12.189	95.158	0.015	0.007	67.288	0.234	0.298
Sep 21 2:10PM EDT	12.204	95.813	0.016	0.007	68	0.245	0.293
Sep 21 2:00PM EDT	12.218	96.453	0.016	0.007	68.938	0.247	0.288
Sep 21 1:50PM EDT	12.233	97.105	0.016	0.006	69.637	0.246	0.283
Sep 21 1:40PM EDT	12.234	97.123	0.016	0.006	70.288	0.254	0.278
Sep 21 1:30PM EDT	12.211	96.122	0.016	0.006	71.062	0.262	0.272
Sep 21 1:20PM EDT	12.242	97.481	0.016	0.005	72	0.268	0.267
Sep 21 1:10PM EDT	12.264	98.426	0.016	0.005	72.687	0.265	0.261
Sep 21 1:00PM EDT	12.277	99.019	0.015	0.005	73.112	0.261	0.256
Sep 21 12:50PM EDT	12.285	99.349	0.013	0.004	74	0.255	0.251
Sep 21 12:40PM EDT	12.283	99.264	0.012	0.004	74.51	0.26	0.245
Sep 21 12:30PM EDT	12.27	98.698	0.012	0.004	75	0.257	0.24
Sep 21 12:20PM EDT	12.274	98.857	0.011	0.004	75.883	0.268	0.234
Sep 21 12:10PM EDT	12.285	99.335	0.012	0.003	76.583	0.273	0.229
Sep 21 12:00PM EDT	12.286	99.391	0.011	0.003	77.383	0.279	0.223
Sep 21 11:50AM EDT	12.286	99.391	0.011	0.003	78.158	0.289	0.217
Sep 21 11:40AM EDT	12.286	99.391	0.011	0.003	79	0.298	0.211
Sep 21 11:30AM EDT	12.286	99.391	0.01	0.003	79.858	0.306	0.205
Sep 21 11:20AM EDT	12.286	99.391	0.009	0.002	80.133	0.296	0.198
Sep 21 11:10AM EDT	12.286	99.391	0.009	0.002	81	0.306	0.192
Sep 21 11:00AM EDT	12.286	99.391	0.008	0.002	81.385	0.317	0.186
Sep 21 10:50AM EDT	12.286	99.391	0.008	0.002	82.108	0.321	0.179
Sep 21 10:40AM EDT	12.286	99.391	0.008	0.002	83	0.31	0.172
Sep 21 10:30AM EDT	12.286	99.391	0.008	0.002	83.907	0.281	0.166
Sep 21 10:20AM EDT	12.286	99.391	0.008	0.001	84.683	0.279	0.161
Sep 21 10:10AM EDT	12.286	99.391	0.007	0.001	85.182	0.282	0.155
Sep 21 10:00AM EDT	12.286	99.391	0.006	0.001	85.57	0.275	0.149
Sep 21 9:50AM EDT	12.286	99.391	0.005	0.001	86.457	0.256	0.143
Sep 21 9:40AM EDT	12.286	99.391	0.006	0.001	87	0.23	0.138
Sep 21 9:30AM EDT	12.286	99.391	0.007	0.001	87.732	0.202	0.134
Sep 21 9:20AM EDT	12.286	99.391	0.007	0	88.48	0.167	0.13
Sep 21 9:10AM EDT	12.286	99.391	0.007	0	89.23	0.123	0.127
Sep 21 9:00AM EDT	12.286	99.391	0.008	0	90	0.084	0.125
Sep 21 8:50AM EDT	12.286	99.391	0.009	0	90.958	0.049	0.124
Sep 21 8:40AM EDT	12.286	99.391	0.003	0	90.447	0.822	0.056
Sep 21 8:30AM EDT	12.286	99.391					
Sep 21 8:20AM EDT	12.286	99.391					
Sep 21 8:10AM EDT	12.286	99.391					
		Max	0.018			0.822	

	47161 Battery Voltage (Volts) Average	47161 Battery Percentage (%) Average	47161 Dust Trak Mass Conc. Total (mg/mÂ³) Average	47161 Dust Trak TWA (mg/mÂ³) Average	47161 Dust Trak Internal Battery (%) Average	47161 MiniRae VOC (ppm) Average	47161 MiniRae TWA (ppm) Average
Sep 21 4:20PM EDT	12.286	99.391	0.022	0.015	36	0	0.255
Sep 21 4:10PM EDT	12.286	99.391	0.022	0.015	36.309	0	0.255
Sep 21 4:00PM EDT	12.286	99.391	0.022	0.014	37.559	0	0.255
Sep 21 3:50PM EDT	12.286	99.391	0.02	0.014	39.048	0	0.255
Sep 21 3:40PM EDT	12.286	99.391	0.021	0.013	40.386	0	0.255
Sep 21 3:30PM EDT	12.286	99.391	0.02	0.013	41.689	0	0.255
Sep 21 3:20PM EDT	12.286	99.391	0.021	0.012	43.071	0	0.255
Sep 21 3:10PM EDT	12.286	99.391	0.021	0.012	44.386	0	0.255
Sep 21 3:00PM EDT	12.286	99.391	0.02	0.012	45.611	0	0.255
Sep 21 2:50PM EDT	12.286	99.391	0.02	0.011	46.946	0	0.255
Sep 21 2:40PM EDT	12.286	99.391	0.02	0.011	48.311	0	0.255
Sep 21 2:30PM EDT	12.286	99.391	0.019	0.01	49.534	0	0.255
Sep 21 2:20PM EDT	12.286	99.391	0.019	0.01	50.796	0	0.255
Sep 21 2:10PM EDT	12.286	99.391	0.023	0.01	52.234	0	0.255
Sep 21 2:00PM EDT	12.286	99.391	0.021	0.009	53.459	0	0.255
Sep 21 1:50PM EDT	12.286	99.391	0.022	0.009	54.682	0	0.255
Sep 21 1:40PM EDT	12.286	99.391	0.02	0.008	55.996	0	0.255
Sep 21 1:30PM EDT	12.286	99.391	0.02	0.008	57.334	0	0.255
Sep 21 1:20PM EDT	12.286	99.391	0.02	0.007	58.532	0	0.255
Sep 21 1:10PM EDT	12.286	99.391	0.022	0.007	59.759	0	0.255
Sep 21 1:00PM EDT	12.286	99.391	0.018	0.007	61.118	0	0.255
Sep 21 12:50PM EDT	12.286	99.391	0.016	0.006	62.384	0	0.255
Sep 21 12:40PM EDT	12.286	99.391	0.016	0.006	63.582	0	0.255
Sep 21 12:30PM EDT	12.286	99.391	0.015	0.006	64.795	0	0.255
Sep 21 12:20PM EDT	12.286	99.391	0.015	0.005	66.207	0	0.255
Sep 21 12:10PM EDT	12.286	99.391	0.015	0.005	67.407	0.002	0.255
Sep 21 12:00PM EDT	12.286	99.391	0.014	0.005	68.606	0.002	0.255
Sep 21 11:50AM EDT	12.286	99.391	0.014	0.004	69.868	0.003	0.255
Sep 21 11:40AM EDT	12.286	99.391	0.014	0.004	71.231	0.006	0.255
Sep 21 11:30AM EDT	12.286	99.391	0.013	0.004	72.406	0.014	0.255
Sep 21 11:20AM EDT	12.286	99.391	0.013	0.003	73.606	0.011	0.255
Sep 21 11:10AM EDT	12.286	99.391	0.012	0.003	74.782	0.02	0.254
Sep 21 11:00AM EDT	12.286	99.391	0.012	0.003	76.14	0.028	0.254
Sep 21 10:50AM EDT	12.286	99.391	0.012	0.003	77.332	0.034	0.253
Sep 21 10:40AM EDT	12.286	99.391	0.011	0.002	78.507	0.041	0.252
Sep 21 10:30AM EDT	12.286	99.391	0.011	0.002	79.681	0.043	0.252
Sep 21 10:20AM EDT	12.286	99.391	0.011	0.002	80.886	0.059	0.251
Sep 21 10:10AM EDT	12.286	99.391	0.01	0.002	82.204	0.048	0.249
Sep 21 10:00AM EDT	12.286	99.391	0.009	0.002	83.354	0.051	0.248
Sep 21 9:50AM EDT	12.286	99.391	0.008	0.001	84.529	0.051	0.247
Sep 21 9:40AM EDT	12.286	99.391	0.009	0.001	85.681	0.051	0.246
Sep 21 9:30AM EDT	12.286	99.391	0.009	0.001	86.861	0.051	0.245
Sep 21 9:20AM EDT	12.286	99.391	0.009	0.001	88.157	0.056	0.244
Sep 21 9:10AM EDT	12.286	99.391	0.008	0.001	89.307	0.044	0.243
Sep 21 9:00AM EDT	12.286	99.391	0.008	0	90.457	0.042	0.242
Sep 21 8:50AM EDT	12.286	99.391	0.009	0	91.606	0.029	0.241
Sep 21 8:40AM EDT	12.286	99.391	0.008	0	92.782	0.017	0.241
Sep 21 8:30AM EDT	12.286	99.391	0.003	0	93.906	0.144	0.162
Sep 21 8:20AM EDT	12.286	99.391	0	0	94.456	0.066	0
Sep 21 8:10AM EDT							
		Max	0.023			0.144	

	47161 Battery Voltage (Volts) Average	47161 Battery Percentage (%) Average	47161 Dust Trak Mass Conc. Total (mg/mÂ³) Average	47161 Dust Trak TWA (mg/mÂ³) Average	47161 Dust Trak Internal Battery (%) Average	47161 MiniRae VOC (ppm) Average	47161 MiniRae TWA (ppm) Average
Sep 26 4:00PM EDT	12.237	97.261	0.002	0.003	26	0	0.256
Sep 26 3:50PM EDT	12.237	97.261	0.002	0.003	25.957	0	0.256
Sep 26 3:40PM EDT	12.239	97.328	0.003	0.003	26.65	0	0.256
Sep 26 3:30PM EDT	12.245	97.615	0.002	0.003	28.049	0	0.256
Sep 26 3:20PM EDT	12.241	97.44	0.002	0.003	29.398	0	0.256
Sep 26 3:10PM EDT	12.257	98.112	0.002	0.003	30.622	0	0.256
Sep 26 3:00PM EDT	12.267	98.573	0.002	0.003	31.999	0	0.256
Sep 26 2:50PM EDT	12.273	98.839	0.002	0.003	33.375	0	0.256
Sep 26 2:40PM EDT	12.277	98.996	0.001	0.003	34.623	0	0.256
Sep 26 2:30PM EDT	12.285	99.367	0.001	0.003	35.972	0	0.256
Sep 26 2:20PM EDT	12.286	99.391	0.001	0.003	37.323	0	0.256
Sep 26 2:10PM EDT	12.286	99.391	0.002	0.003	38.572	0	0.256
Sep 26 2:00PM EDT	12.286	99.391	0.001	0.003	39.849	0	0.256
Sep 26 1:50PM EDT	12.286	99.391	0.002	0.002	41.272	0	0.256
Sep 26 1:40PM EDT	12.286	99.391	0.003	0.002	42.52	0	0.256
Sep 26 1:30PM EDT	12.286	99.391	0.005	0.002	43.847	0	0.256
Sep 26 1:20PM EDT	12.286	99.391	0.005	0.002	45.273	0	0.256
Sep 26 1:10PM EDT	12.286	99.391	0.004	0.002	46.498	0	0.256
Sep 26 1:00PM EDT	12.286	99.391	0.004	0.002	47.722	0	0.256
Sep 26 12:50PM EDT	12.286	99.391	0.003	0.002	49.117	0	0.256
Sep 26 12:40PM EDT	12.286	99.391	0.004	0.002	50.397	0	0.256
Sep 26 12:30PM EDT	12.286	99.391	0.005	0.002	51.622	0	0.256
Sep 26 12:20PM EDT	12.286	99.391	0.005	0.002	52.895	0	0.256
Sep 26 12:10PM EDT	12.286	99.391	0.007	0.002	54.323	0	0.256
Sep 26 12:00PM EDT	12.286	99.391	0.007	0.001	55.6	0	0.256
Sep 26 11:50AM EDT	12.286	99.391	0.005	0.001	57.067	0	0.256
Sep 26 11:40AM EDT	12.286	99.391	0.003	0.001	58.422	0	0.256
Sep 26 11:30AM EDT	12.286	99.391	0.003	0.001	59.623	0	0.256
Sep 26 11:20AM EDT	12.286	99.391	0.004	0.001	60.894	0	0.256
Sep 26 11:10AM EDT	12.286	99.391	0.003	0.001	62.247	0	0.256
Sep 26 11:00AM EDT	12.286	99.391	0.003	0.001	63.447	0	0.256
Sep 26 10:50AM EDT	12.286	99.391	0.003	0.001	64.645	0	0.256
Sep 26 10:40AM EDT	12.286	99.391	0.003	0.001	65.892	0	0.256
Sep 26 10:30AM EDT	12.286	99.391	0.003	0.001	67.22	0	0.256
Sep 26 10:20AM EDT	12.286	99.391	0.003	0.001	68.418	0	0.256
Sep 26 10:10AM EDT	12.286	99.391	0.003	0.001	69.618	0	0.256
Sep 26 10:00AM EDT	12.286	99.391	0.003	0	70.795	0	0.256
Sep 26 9:50AM EDT	12.286	99.391	0.004	0	72.189	0	0.256
Sep 26 9:40AM EDT	12.286	99.391	0.003	0	73.37	0	0.256
Sep 26 9:30AM EDT	12.286	99.391	0.003	0	74.545	0	0.256
Sep 26 9:20AM EDT	12.286	99.391	0.003	0	75.72	0	0.256
Sep 26 9:10AM EDT	12.286	99.391	0.003	0	76.965	0	0.256
Sep 26 9:00AM EDT	12.286	99.391	0.003	0	78.245	0	0.256
Sep 26 8:50AM EDT	12.286	99.391	0.004	0	78.664	0	0.256
		Max	0.007			0	

	47910 Battery Voltage (Volts) Average	47910 Battery Percentage (%) Average	47910 Dust Trak Mass Conc. Total (mg/mÂ³) Average	47910 Dust Trak TWA (mg/mÂ³) Average	47910 Dust Trak Internal Battery (%) Average	47910 MiniRae VOC (ppm) Average	47910 MiniRae TWA (ppm) Average
Sep 26 3:40PM EDT	12.286	99.391	0	0.001	61.55	0.237	0.33
Sep 26 3:30PM EDT	12.286	99.391	0	0.001	62	0.249	0.327
Sep 26 3:20PM EDT	12.286	99.391	0	0.001	62.913	0.263	0.322
Sep 26 3:10PM EDT	12.286	99.391	0	0.001	63.61	0.266	0.316
Sep 26 3:00PM EDT	12.286	99.391	0	0.001	64.31	0.265	0.311
Sep 26 2:50PM EDT	12.286	99.391	-0.001	0.001	65.012	0.252	0.305
Sep 26 2:40PM EDT	12.286	99.391	-0.001	0.001	66	0.24	0.3
Sep 26 2:30PM EDT	12.286	99.391	-0.001	0.001	66.713	0.248	0.295
Sep 26 2:20PM EDT	12.286	99.391	-0.001	0.001	67.333	0.264	0.29
Sep 26 2:10PM EDT	12.286	99.391	0	0.001	68	0.271	0.284
Sep 26 2:00PM EDT	12.286	99.391	0	0.001	68.884	0.247	0.278
Sep 26 1:50PM EDT	12.286	99.391	0	0.001	69.458	0.225	0.274
Sep 26 1:40PM EDT	12.286	99.391	0	0.001	70.008	0.208	0.269
Sep 26 1:30PM EDT	12.286	99.391	0	0.001	71	0.201	0.265
Sep 26 1:20PM EDT	12.286	99.391	0	0.001	71.558	0.203	0.261
Sep 26 1:10PM EDT	12.286	99.391	0	0.001	72.108	0.203	0.257
Sep 26 1:00PM EDT	12.286	99.391	0	0.001	73	0.207	0.252
Sep 26 12:50PM EDT	12.286	99.391	0	0.001	73.657	0.217	0.248
Sep 26 12:40PM EDT	12.286	99.391	0	0.001	74.183	0.229	0.243
Sep 26 12:30PM EDT	12.286	99.391	0.001	0.001	75	0.227	0.238
Sep 26 12:20PM EDT	12.286	99.391	0.001	0.001	75.68	0.235	0.234
Sep 26 12:10PM EDT	12.286	99.391	0	0	76.182	0.246	0.229
Sep 26 12:00PM EDT	12.286	99.391	0.002	0	77	0.263	0.223
Sep 26 11:50AM EDT	12.286	99.391	0	0	77.708	0.283	0.218
Sep 26 11:40AM EDT	12.286	99.391	0	0	78.403	0.273	0.212
Sep 26 11:30AM EDT	12.286	99.391	0	0	79.132	0.283	0.206
Sep 26 11:20AM EDT	12.286	99.391	0	0	80	0.291	0.2
Sep 26 11:10AM EDT	12.286	99.391	0	0	80.828	0.284	0.194
Sep 26 11:00AM EDT	12.286	99.391	0	0	81.553	0.296	0.188
Sep 26 10:50AM EDT	12.286	99.391	0	0	82.228	0.301	0.182
Sep 26 10:40AM EDT	12.286	99.391	0	0	83	0.29	0.176
Sep 26 10:30AM EDT	12.286	99.391	0.006	0	83.577	0.277	0.17
Sep 26 10:20AM EDT	12.286	99.391	0	0	84	0.257	0.164
Sep 26 10:10AM EDT	12.286	99.391	0	0	84.928	0.239	0.159
Sep 26 10:00AM EDT	12.286	99.391	0	0	85.305	0.231	0.154
Sep 26 9:50AM EDT	12.286	99.391	0.001	0	86	0.218	0.15
Sep 26 9:40AM EDT	12.286	99.391	0.001	0	86.878	0.204	0.145
Sep 26 9:30AM EDT	12.286	99.391	0.001	0	87.603	0.188	0.141
Sep 26 9:20AM EDT	12.286	99.391	0.002	0	88.33	0.17	0.137
Sep 26 9:10AM EDT	12.286	99.391	0.002	0	89.053	0.175	0.134
Sep 26 9:00AM EDT	12.286	99.391	0.003	0	90	0.16	0.13
Sep 26 8:50AM EDT	12.286	99.391	0.004	0	90.752	0.146	0.127
Sep 26 8:40AM EDT	12.286	99.391	0.004	0	88.605	0.143	0.125
		Max	0.006			0.301	

	47161 Battery Voltage (Volts) Average	47161 Battery Percentage (%) Average	47161 Dust Trak Mass Conc. Total (mg/mÂ³) Average	47161 Dust Trak TWA (mg/mÂ³) Average	47161 Dust Trak Internal Battery (%) Average	47161 MiniRae VOC (ppm) Average	47161 MiniRae TWA (ppm) Average
Sep 27 5:20PM EDT	12.286	99.391	0.002	0.003	31	0	0.26
Sep 27 5:10PM EDT	12.286	99.391	0.002	0.003	30.897	0	0.26
Sep 27 5:00PM EDT	12.286	99.391	0.002	0.003	31.981	0	0.26
Sep 27 4:50PM EDT	12.286	99.391	0.003	0.003	33.341	0	0.26
Sep 27 4:40PM EDT	12.286	99.391	0.004	0.003	34.591	0	0.26
Sep 27 4:30PM EDT	12.286	99.391	0.005	0.003	35.881	0	0.26
Sep 27 4:20PM EDT	12.286	99.391	0.004	0.003	37.291	0	0.26
Sep 27 4:10PM EDT	12.286	99.391	0.004	0.003	38.539	0	0.26
Sep 27 4:00PM EDT	12.286	99.391	0.004	0.002	39.78	0	0.26
Sep 27 3:50PM EDT	12.286	99.391	0.002	0.002	41.239	0	0.26
Sep 27 3:40PM EDT	12.286	99.391	0.002	0.002	42.489	0	0.26
Sep 27 3:30PM EDT	12.286	99.391	0.002	0.002	43.712	0	0.26
Sep 27 3:20PM EDT	12.286	99.391	0.002	0.002	45.156	0	0.26
Sep 27 3:10PM EDT	12.286	99.391	0.002	0.002	46.412	0	0.26
Sep 27 3:00PM EDT	12.286	99.391	0.002	0.002	47.664	0	0.26
Sep 27 2:50PM EDT	12.286	99.391	0.002	0.002	49.003	0	0.26
Sep 27 2:40PM EDT	12.286	99.391	0.003	0.002	50.364	0	0.26
Sep 27 2:30PM EDT	12.286	99.391	0.003	0.002	51.587	0	0.26
Sep 27 2:20PM EDT	12.286	99.391	0.002	0.002	52.851	0	0.26
Sep 27 2:10PM EDT	12.286	99.391	0.003	0.002	54.262	0	0.26
Sep 27 2:00PM EDT	12.286	99.391	0.018	0.002	55.492	0.007	0.26
Sep 27 1:50PM EDT	12.286	99.391	0.007	0.001	56.714	0	0.26
Sep 27 1:40PM EDT	12.286	99.391	0.003	0.001	58.105	0	0.26
Sep 27 1:30PM EDT	12.286	99.391	0.003	0.001	59.387	0	0.26
Sep 27 1:20PM EDT	12.286	99.391	0.003	0.001	60.612	0	0.26
Sep 27 1:10PM EDT	12.286	99.391	0.002	0.001	62.073	0	0.26
Sep 27 1:00PM EDT	12.286	99.391	0.002	0.001	63.486	0	0.26
Sep 27 12:50PM EDT	12.286	99.391	0.002	0.001	64.714	0	0.26
Sep 27 12:40PM EDT	12.286	99.391	0.002	0.001	66.023	0	0.26
Sep 27 12:30PM EDT	12.286	99.391	0.002	0.001	67.341	0	0.26
Sep 27 12:20PM EDT	12.286	99.391	0.002	0.001	68.587	0	0.26
Sep 27 12:10PM EDT	12.286	99.391	0.002	0.001	69.923	0	0.26
Sep 27 12:00PM EDT	12.286	99.391	0.002	0.001	71.337	0	0.26
Sep 27 11:50AM EDT	12.286	99.391	0.002	0.001	72.612	0	0.26
Sep 27 11:40AM EDT	12.286	99.391	0.002	0.001	73.85	0	0.26
Sep 27 11:30AM EDT	12.286	99.391	0.002	0.001	75.211	0	0.26
Sep 27 11:20AM EDT	12.286	99.391	0.002	0.001	76.387	0	0.26
Sep 27 11:10AM EDT	12.286	99.391	0.002	0.001	77.589	0	0.26
Sep 27 11:00AM EDT	12.286	99.391	0.002	0.001	78.786	0	0.26
Sep 27 10:50AM EDT	12.286	99.391	0.002	0.001	80.096	0	0.26
Sep 27 10:40AM EDT	12.286	99.391	0.001	0.001	81.312	0	0.26
Sep 27 10:30AM EDT	12.286	99.391	0.001	0	82.486	0	0.26
Sep 27 10:20AM EDT	12.286	99.391	0.002	0	83.662	0	0.26
Sep 27 10:10AM EDT	12.286	99.391	0.001	0	84.845	0	0.26
Sep 27 10:00AM EDT	12.286	99.391	0.002	0	86.159	0	0.26
Sep 27 9:50AM EDT	12.286	99.391	0.002	0	87.334	0	0.26
Sep 27 9:40AM EDT	12.286	99.391	0.002	0	88.486	0	0.26
Sep 27 9:30AM EDT	12.286	99.391	0.002	0	89.637	0	0.26
Sep 27 9:20AM EDT	12.286	99.391	0.002	0	90.811	0	0.26
Sep 27 9:10AM EDT	12.286	99.391	0.002	0	92.068	0	0.26
Sep 27 9:00AM EDT	12.286	99.391	0.002	0	93.261	0	0.26
Sep 27 8:50AM EDT	12.286	99.391	0.002	0	94.411	0	0.26
Sep 27 8:40AM EDT	12.286	99.391	0.002	0	95.561	0	0.26
Sep 27 8:30AM EDT	12.286	99.391	0.002	0	96.711	0	0.26
Sep 27 8:20AM EDT	12.286	99.391	0.002	0	97.777	0.001	0.26
Sep 27 8:10AM EDT							
		Max	0.018			0.007	

	47910 Battery Voltage (Volts) Average	47910 Battery Percentage (%) Average	47910 Dust Trak Mass Conc. Total (mg/mÂ³) Average	47910 Dust Trak TWA (mg/mÂ³) Average	47910 Dust Trak Internal Battery (%) Average	47910 MiniRae VOC (ppm) Average	47910 MiniRae TWA (ppm) Average
Sep 27 5:10PM EDT	12.195	95.435	0	0.001	53	0.161	0.391
Sep 27 5:00PM EDT	12.161	93.974	0	0.001	52.832	0.145	0.39
Sep 27 4:50PM EDT	12.158	93.805	0	0.001	54	0.138	0.387
Sep 27 4:40PM EDT	12.18	94.783	0	0.001	54.62	0.153	0.384
Sep 27 4:30PM EDT	12.193	95.346	0.001	0.001	55.142	0.121	0.381
Sep 27 4:20PM EDT	12.21	96.095	0.001	0.001	56	0.102	0.379
Sep 27 4:10PM EDT	12.232	97.024	0	0.001	55.65	0.103	0.377
Sep 27 4:00PM EDT	12.258	98.183	0.001	0.001	56.087	0.107	0.374
Sep 27 3:50PM EDT	12.269	98.646	0	0.001	56.787	0.111	0.372
Sep 27 3:40PM EDT	12.259	98.233	0	0.001	58.41	0.113	0.37
Sep 27 3:30PM EDT	12.274	98.865	0	0.001	57.75	0.115	0.367
Sep 27 3:20PM EDT	12.282	99.22	0.001	0.001	58.235	0.117	0.365
Sep 27 3:10PM EDT	12.283	99.257	0	0.001	58.915	0.12	0.363
Sep 27 3:00PM EDT	12.286	99.391	0	0.001	60.827	0.127	0.36
Sep 27 2:50PM EDT	12.286	99.391	0	0.001	61.015	0.13	0.357
Sep 27 2:40PM EDT	12.286	99.391	0	0.001	60.999	0.128	0.355
Sep 27 2:30PM EDT	12.286	99.391	0	0.001	63.045	0.118	0.352
Sep 27 2:20PM EDT	12.286	99.391	0	0.001	63.057	0.113	0.35
Sep 27 2:10PM EDT	12.286	99.391	0	0.001	63.47	0.108	0.347
Sep 27 2:00PM EDT	12.286	99.391	0	0.001	65.345	0.113	0.345
Sep 27 1:50PM EDT	12.286	99.391	0	0.001	65.612	0.122	0.343
Sep 27 1:40PM EDT	12.286	99.391	0	0.001	64.26	0.125	0.34
Sep 27 1:30PM EDT	12.286	99.391	0	0.001	66.812	0.133	0.337
Sep 27 1:20PM EDT	12.286	99.391	0.002	0.001	67.078	0.143	0.335
Sep 27 1:10PM EDT	12.286	99.391	0	0.001	68.726	0.157	0.332
Sep 27 1:00PM EDT	12.286	99.391	0	0.001	69.58	0.164	0.328
Sep 27 12:50PM EDT	12.286	99.391	0	0.001	69.414	0.173	0.325
Sep 27 12:40PM EDT	12.286	99.391	0	0.001	70.117	0.191	0.321
Sep 27 12:30PM EDT	12.286	99.391	0	0.001	70.359	0.191	0.317
Sep 27 12:20PM EDT	12.286	99.391	0	0.001	71.039	0.184	0.313
Sep 27 12:10PM EDT	12.286	99.391	0	0	70.605	0.183	0.309
Sep 27 12:00PM EDT	12.286	99.391	0.003	0	73.186	0.189	0.305
Sep 27 11:50AM EDT	12.286	99.391	0.001	0	74.679	0.198	0.301
Sep 27 11:40AM EDT	12.286	99.391	0.001	0	73.384	0.205	0.297
Sep 27 11:30AM EDT	12.286	99.391	0	0	74.407	0.194	0.293
Sep 27 11:20AM EDT	12.286	99.391	0	0	74.75	0.187	0.289
Sep 27 11:10AM EDT	12.286	99.391	0	0	76.934	0.188	0.285
Sep 27 11:00AM EDT	12.286	99.391	0	0	78.17	0.188	0.281
Sep 27 10:50AM EDT	12.286	99.391	0.001	0	76.667	0.187	0.277
Sep 27 10:40AM EDT	12.286	99.391	0	0	78.94	0.192	0.273
Sep 27 10:30AM EDT	12.286	99.391	0	0	78.17	0.2	0.269
Sep 27 10:20AM EDT	12.286	99.391	0	0	78.707	0.195	0.265
Sep 27 10:10AM EDT	12.286	99.391	0	0	80.101	0.185	0.261
Sep 27 10:00AM EDT	12.286	99.391	0.006	0	81.109	0.176	0.257
Sep 27 9:50AM EDT	12.286	99.391	0	0	81.429	0.156	0.254
Sep 27 9:40AM EDT	12.286	99.391	0.001	0	82.167	0.155	0.251
Sep 27 9:30AM EDT	12.286	99.391	0	0	83.731	0.152	0.248
Sep 27 9:20AM EDT	12.286	99.391	0.001	0	82.367	0.136	0.244
Sep 27 9:10AM EDT	12.286	99.391	0.001	0	83.955	0.12	0.242
Sep 27 9:00AM EDT	12.286	99.391	0.001	0	83.754	0.104	0.24
Sep 27 8:50AM EDT	12.286	99.391	0.001	0	85.97	0.088	0.238
		Max	0.006			0.205	

	47910 Battery Voltage (Volts) Average	47910 Battery Percentage (%) Average	47910 Dust Trak Mass Conc. Total (mg/mÂ³) Average	47910 Dust Trak TWA (mg/mÂ³) Average	47910 Dust Trak Internal Battery (%) Average	47910 MiniRae VOC (ppm) Average	47910 MiniRae TWA (ppm) Average
Sep 28 3:20PM EDT	12.219	96.461	0.001	0.001	59.982	0.164	0.245
Sep 28 3:10PM EDT	12.226	96.778	0.001	0.001	60.559	0.167	0.241
Sep 28 3:00PM EDT	12.254	98.004	0.001	0.001	61.131	0.166	0.238
Sep 28 2:50PM EDT	12.266	98.518	0.002	0.001	62	0.168	0.235
Sep 28 2:40PM EDT	12.254	98.015	0.002	0.001	62.736	0.166	0.231
Sep 28 2:30PM EDT	12.282	99.209	0.002	0.001	63.406	0.165	0.228
Sep 28 2:20PM EDT	12.268	98.606	0.002	0.001	64.081	0.165	0.224
Sep 28 2:10PM EDT	12.281	99.17	0.002	0.001	65	0.17	0.221
Sep 28 2:00PM EDT	12.283	99.242	0.002	0.001	65.757	0.171	0.217
Sep 28 1:50PM EDT	12.286	99.391	0.002	0.001	66.406	0.181	0.214
Sep 28 1:40PM EDT	12.286	99.391	0.002	0.001	67.054	0.18	0.21
Sep 28 1:30PM EDT	12.286	99.391	0.002	0.001	68	0.171	0.206
Sep 28 1:20PM EDT	12.286	99.391	0.002	0.001	68.704	0.168	0.203
Sep 28 1:10PM EDT	12.286	99.391	0.002	0	69.356	0.166	0.199
Sep 28 1:00PM EDT	12.286	99.391	0.001	0	70.029	0.164	0.196
Sep 28 12:50PM EDT	12.286	99.391	0.001	0	71	0.163	0.192
Sep 28 12:40PM EDT	12.286	99.391	0.002	0	71.702	0.161	0.189
Sep 28 12:30PM EDT	12.286	99.391	0.001	0	72.404	0.164	0.186
Sep 28 12:20PM EDT	12.286	99.391	0.001	0	73.102	0.165	0.182
Sep 28 12:10PM EDT	12.286	99.391	0	0	74	0.166	0.179
Sep 28 12:00PM EDT	12.286	99.391	0	0	74.654	0.17	0.175
Sep 28 11:50AM EDT	12.286	99.391	0.001	0	75.079	0.176	0.172
Sep 28 11:40AM EDT	12.286	99.391	0.001	0	76	0.189	0.168
Sep 28 11:30AM EDT	12.286	99.391	0	0	76.476	0.186	0.164
Sep 28 11:20AM EDT	12.286	99.391	0	0	77	0.191	0.16
Sep 28 11:10AM EDT	12.286	99.391	0	0	77.852	0.196	0.156
Sep 28 11:00AM EDT	12.286	99.391	0	0	78.604	0.192	0.152
Sep 28 10:50AM EDT	12.286	99.391	0	0	79.351	0.187	0.148
Sep 28 10:40AM EDT	12.286	99.391	0	0	80.129	0.185	0.144
Sep 28 10:30AM EDT	12.286	99.391	0	0	81	0.19	0.14
Sep 28 10:20AM EDT	12.286	99.391	0	0	81.899	0.187	0.136
Sep 28 10:10AM EDT	12.286	99.391	0	0	82.088	0.166	0.133
Sep 28 10:00AM EDT	12.286	99.391	0	0	83	0.146	0.129
Sep 28 9:50AM EDT	12.286	99.391	0.001	0	83.551	0.141	0.127
Sep 28 9:40AM EDT	12.286	99.391	0.001	0	84	0.132	0.124
Sep 28 9:30AM EDT	12.286	99.391	0.001	0	84.974	0.124	0.121
Sep 28 9:20AM EDT	12.286	99.391	0.002	0	85.722	0.12	0.119
Sep 28 9:10AM EDT	12.286	99.391	0.002	0	86.472	0.118	0.116
Sep 28 9:00AM EDT	12.286	99.391	0.002	0	87.222	0.113	0.114
Sep 28 8:50AM EDT	12.286	99.391	0.002	0	88	0.096	0.111
Sep 28 8:40AM EDT	12.286	99.391	0.002	0	88.872	0.074	0.11
Sep 28 8:30AM EDT	12.286	99.391	0.001	0	89.224	0.053	0.108
Sep 28 8:20AM EDT	12.286	99.391	0.001	0	90	0.027	0.108
Sep 28 8:10AM EDT	12.286	99.391	0.002	0	90	0.02	0.107
		Max	0.002			0.196	

	47161 Battery Voltage (Volts) Average	47161 Battery Percentage (%) Average	47161 Dust Trak Mass Conc. Total (mg/mÂ³) Average	47161 Dust Trak TWA (mg/mÂ³) Average	47161 Dust Trak Internal Battery (%) Average	47161 MiniRae VOC (ppm) Average	47161 MiniRae TWA (ppm) Average
Sep 28 3:30PM EDT	12.286	99.391	0.005	0.004	39.449	0.04	0.207
Sep 28 3:20PM EDT	12.286	99.391	0.005	0.004	40.697	0.04	0.207
Sep 28 3:10PM EDT	12.286	99.391	0.005	0.004	42.123	0.039	0.206
Sep 28 3:00PM EDT	12.286	99.391	0.006	0.004	43.399	0.04	0.205
Sep 28 2:50PM EDT	12.286	99.391	0.006	0.004	44.649	0.042	0.204
Sep 28 2:40PM EDT	12.286	99.391	0.006	0.004	45.993	0.041	0.203
Sep 28 2:30PM EDT	12.286	99.391	0.006	0.003	47.347	0.042	0.202
Sep 28 2:20PM EDT	12.286	99.391	0.006	0.003	48.574	0.044	0.201
Sep 28 2:10PM EDT	12.286	99.391	0.006	0.003	49.868	0.044	0.201
Sep 28 2:00PM EDT	12.286	99.391	0.006	0.003	51.271	0.046	0.2
Sep 28 1:50PM EDT	12.286	99.391	0.006	0.003	52.521	0.048	0.199
Sep 28 1:40PM EDT	12.286	99.391	0.006	0.003	53.747	0.049	0.198
Sep 28 1:30PM EDT	12.286	99.391	0.006	0.003	55.167	0.048	0.197
Sep 28 1:20PM EDT	12.286	99.391	0.006	0.003	56.421	0.048	0.196
Sep 28 1:10PM EDT	12.286	99.391	0.006	0.002	57.649	0.045	0.195
Sep 28 1:00PM EDT	12.286	99.391	0.006	0.002	58.968	0.042	0.194
Sep 28 12:50PM EDT	12.286	99.391	0.006	0.002	60.322	0.042	0.193
Sep 28 12:40PM EDT	12.286	99.391	0.006	0.002	61.522	0.042	0.192
Sep 28 12:30PM EDT	12.286	99.391	0.006	0.002	62.744	0.043	0.191
Sep 28 12:20PM EDT	12.286	99.391	0.005	0.002	64.142	0.041	0.19
Sep 28 12:10PM EDT	12.286	99.391	0.005	0.002	65.394	0.041	0.189
Sep 28 12:00PM EDT	12.286	99.391	0.005	0.002	66.647	0.04	0.189
Sep 28 11:50AM EDT	12.286	99.391	0.005	0.001	67.992	0.045	0.188
Sep 28 11:40AM EDT	12.286	99.391	0.005	0.001	69.321	0.047	0.187
Sep 28 11:30AM EDT	12.286	99.391	0.004	0.001	70.519	0.05	0.186
Sep 28 11:20AM EDT	12.286	99.391	0.004	0.001	71.719	0.053	0.185
Sep 28 11:10AM EDT	12.286	99.391	0.003	0.001	73.015	0.056	0.184
Sep 28 11:00AM EDT	12.286	99.391	0.003	0.001	74.296	0.058	0.183
Sep 28 10:50AM EDT	12.286	99.391	0.003	0.001	75.496	0.06	0.181
Sep 28 10:40AM EDT	12.286	99.391	0.003	0.001	76.669	0.065	0.18
Sep 28 10:30AM EDT	12.286	99.391	0.003	0.001	77.917	0.072	0.179
Sep 28 10:20AM EDT	12.286	99.391	0.002	0.001	79.217	0.074	0.177
Sep 28 10:10AM EDT	12.286	99.391	0.002	0.001	80.394	0.071	0.176
Sep 28 10:00AM EDT	12.286	99.391	0.003	0.001	81.571	0.066	0.174
Sep 28 9:50AM EDT	12.286	99.391	0.003	0.001	82.769	0.06	0.173
Sep 28 9:40AM EDT	12.286	99.391	0.004	0.001	84.065	0.055	0.172
Sep 28 9:30AM EDT	12.286	99.391	0.004	0.001	85.296	0.051	0.171
Sep 28 9:20AM EDT	12.286	99.391	0.004	0	86.471	0.046	0.17
Sep 28 9:10AM EDT	12.286	99.391	0.004	0	87.617	0.039	0.169
Sep 28 9:00AM EDT	12.286	99.391	0.004	0	88.794	0.03	0.168
Sep 28 8:50AM EDT	12.286	99.391	0.004	0	90.112	0.013	0.168
Sep 28 8:40AM EDT	12.286	99.391	0.003	0	91.294	0	0.167
Sep 28 8:30AM EDT	12.286	99.391	0.003	0	92.444	0	0.167
Sep 28 8:20AM EDT	12.286	99.391	0.003	0	93.038	0	0.167
Sep 28 8:10AM EDT							
		Max	0.006			0.074	

	47910 Battery Voltage (Volts) Average	47910 Battery Percentage (%) Average	47910 Dust Trak Mass Conc. Total (mg/mÂ³) Average	47910 Dust Trak TWA (mg/mÂ³) Average	47910 Dust Trak Internal Battery (%) Average	47910 MiniRae VOC (ppm) Average	47910 MiniRae TWA (ppm) Average
Sep 29 4:40PM EDT	12.043	88.823	0	0	54.633	0.074	0.278
Sep 29 4:30PM EDT	12.083	90.568	0	0	55.652	0.077	0.277
Sep 29 4:20PM EDT	12.098	91.197	0	0	56.155	0.081	0.275
Sep 29 4:10PM EDT	12.092	90.97	0	0	57	0.082	0.273
Sep 29 4:00PM EDT	12.119	92.146	0	0	57.698	0.084	0.272
Sep 29 3:50PM EDT	12.073	90.144	0	0	58.225	0.086	0.27
Sep 29 3:40PM EDT	12.08	90.446	0	0	59	0.087	0.268
Sep 29 3:30PM EDT	12.132	92.702	0	0	59.777	0.094	0.266
Sep 29 3:20PM EDT	12.122	92.257	0	0	60.325	0.095	0.264
Sep 29 3:10PM EDT	12.144	93.215	0	0	61	0.098	0.262
Sep 29 3:00PM EDT	12.126	92.415	0	0	61.875	0.102	0.26
Sep 29 2:50PM EDT	12.142	93.148	0	0	62.5	0.11	0.258
Sep 29 2:40PM EDT	12.158	93.848	0	0	63.173	0.11	0.256
Sep 29 2:30PM EDT	12.155	93.705	0	0	64	0.109	0.254
Sep 29 2:20PM EDT	12.178	94.713	0	0	64.823	0.113	0.251
Sep 29 2:10PM EDT	12.138	92.959	0	0	65.473	0.117	0.249
Sep 29 2:00PM EDT	12.141	93.099	0	0	66.123	0.113	0.246
Sep 29 1:50PM EDT	12.168	94.247	0	0	67	0.116	0.244
Sep 29 1:40PM EDT	12.192	95.295	0	0	67.775	0.115	0.242
Sep 29 1:30PM EDT	12.165	94.12	0	0	68.395	0.112	0.239
Sep 29 1:20PM EDT	12.281	99.172	0	0	69.047	0.119	0.237
Sep 29 1:10PM EDT	12.286	99.39	0	0	70	0.124	0.234
Sep 29 1:00PM EDT	12.286	99.391	0	0	70.697	0.129	0.232
Sep 29 12:50PM EDT	12.286	99.391	0	0	71.347	0.139	0.229
Sep 29 12:40PM EDT	12.286	99.391	0	0	72.02	0.137	0.226
Sep 29 12:30PM EDT	12.286	99.391	0	0	73	0.126	0.223
Sep 29 12:20PM EDT	12.286	99.391	0	0	73.568	0.129	0.221
Sep 29 12:10PM EDT	12.286	99.391	0	0	74	0.132	0.218
Sep 29 12:00PM EDT	12.286	99.391	0	0	74.97	0.127	0.215
Sep 29 11:50AM EDT	12.286	99.391	0	0	75.37	0.122	0.213
Sep 29 11:40AM EDT	12.286	99.391	0	0	76	0.121	0.21
Sep 29 11:30AM EDT	12.286	99.391	0	0	76.742	0.116	0.208
Sep 29 11:20AM EDT	12.286	99.391	0	0	77.297	0.12	0.205
Sep 29 11:10AM EDT	12.286	99.391	0	0	78.045	0.123	0.203
Sep 29 11:00AM EDT	12.286	99.391	0	0	79	0.126	0.2
Sep 29 10:50AM EDT	12.286	99.391	0	0	79.765	0.128	0.198
Sep 29 10:40AM EDT	12.286	99.391	0	0	80.518	0.127	0.195
Sep 29 10:30AM EDT	12.286	99.391	0	0	81.042	0.127	0.192
Sep 29 10:20AM EDT	12.286	99.391	0	0	82	0.133	0.19
Sep 29 10:10AM EDT	12.286	99.391	0	0	82.318	0.134	0.187
Sep 29 10:00AM EDT	12.286	99.391	0	0	83	0.136	0.184
Sep 29 9:50AM EDT	12.286	99.391	0	0	83.59	0.139	0.181
Sep 29 9:40AM EDT	12.286	99.391	0.001	0	84.215	0.136	0.178
Sep 29 9:30AM EDT	12.286	99.391	0	0	85	0.142	0.176
Sep 29 9:20AM EDT	12.286	99.391	0	0	85.94	0.133	0.173
Sep 29 9:10AM EDT	12.286	99.391	0	0	86.667	0.117	0.17
Sep 29 9:00AM EDT	12.286	99.391	0	0	87.363	0.103	0.168
Sep 29 8:50AM EDT	12.286	99.391	0.001	0	88	0.087	0.166
Sep 29 8:40AM EDT	12.286	99.391	0.001	0	88.767	0.069	0.164
Sep 29 8:30AM EDT	12.286	99.391	0.001	0	89.09	0.041	0.163
Sep 29 8:20AM EDT	12.286	99.391	0.002	0	90	0.014	0.162
Sep 29 8:10AM EDT	12.286	99.391	0.002	0	90.051	0	0.162
		Max	0.002			0.142	

	47161 Battery Voltage (Volts) Average	47161 Battery Percentage (%) Average	47161 Dust Trak Mass Conc. Total (mg/mÂ³) Average	47161 Dust Trak TWA (mg/mÂ³) Average	47161 Dust Trak Internal Battery (%) Average	47161 MiniRae VOC (ppm) Average	47161 MiniRae TWA (ppm) Average
Sep 29 4:30PM EDT	12.286	99.391	0.004	0.003	30.591	0	0.14
Sep 29 4:20PM EDT	12.286	99.391	0.004	0.003	31.934	0	0.14
Sep 29 4:10PM EDT	12.286	99.391	0.004	0.003	33.316	0	0.14
Sep 29 4:00PM EDT	12.286	99.391	0.004	0.003	34.569	0	0.14
Sep 29 3:50PM EDT	12.286	99.391	0.004	0.003	35.91	0	0.14
Sep 29 3:40PM EDT	12.286	99.391	0.004	0.003	37.341	0	0.14
Sep 29 3:30PM EDT	12.286	99.391	0.004	0.003	38.594	0	0.14
Sep 29 3:20PM EDT	12.286	99.391	0.004	0.003	39.909	0	0.14
Sep 29 3:10PM EDT	12.286	99.391	0.004	0.003	41.291	0	0.14
Sep 29 3:00PM EDT	12.286	99.391	0.005	0.003	42.541	0	0.14
Sep 29 2:50PM EDT	12.286	99.391	0.004	0.002	43.766	0	0.14
Sep 29 2:40PM EDT	12.286	99.391	0.003	0.002	45.233	0	0.14
Sep 29 2:30PM EDT	12.286	99.391	0.004	0.002	46.517	0	0.14
Sep 29 2:20PM EDT	12.286	99.391	0.004	0.002	47.808	0.001	0.14
Sep 29 2:10PM EDT	12.286	99.391	0.003	0.002	49.289	0.003	0.14
Sep 29 2:00PM EDT	12.286	99.391	0.003	0.002	50.541	0.002	0.14
Sep 29 1:50PM EDT	12.286	99.391	0.003	0.002	51.854	0.004	0.14
Sep 29 1:40PM EDT	12.286	99.391	0.003	0.002	53.367	0.007	0.14
Sep 29 1:30PM EDT	12.286	99.391	0.003	0.002	54.858	0.005	0.14
Sep 29 1:20PM EDT	12.286	99.391	0.004	0.002	56.366	0.008	0.14
Sep 29 1:10PM EDT	12.286	99.391	0.003	0.002	57.642	0.011	0.14
Sep 29 1:00PM EDT	12.286	99.391	0.004	0.002	59.106	0.015	0.14
Sep 29 12:50PM EDT	12.286	99.391	0.004	0.002	60.467	0.021	0.139
Sep 29 12:40PM EDT	12.286	99.391	0.003	0.002	61.716	0.027	0.139
Sep 29 12:30PM EDT	12.286	99.391	0.003	0.002	63.258	0.026	0.138
Sep 29 12:20PM EDT	12.286	99.391	0.002	0.001	64.541	0.027	0.137
Sep 29 12:10PM EDT	12.286	99.391	0.002	0.001	65.908	0.032	0.137
Sep 29 12:00PM EDT	12.286	99.391	0.002	0.001	67.264	0.031	0.136
Sep 29 11:50AM EDT	12.286	99.391	0.003	0.001	68.464	0.028	0.136
Sep 29 11:40AM EDT	12.286	99.391	0.004	0.001	69.667	0.032	0.135
Sep 29 11:30AM EDT	12.286	99.391	0.003	0.001	70.958	0.03	0.134
Sep 29 11:20AM EDT	12.286	99.391	0.006	0.001	72.266	0.033	0.134
Sep 29 11:10AM EDT	12.286	99.391	0.003	0.001	73.439	0.032	0.133
Sep 29 11:00AM EDT	12.286	99.391	0.002	0.001	74.639	0.033	0.132
Sep 29 10:50AM EDT	12.286	99.391	0.003	0.001	75.814	0.036	0.132
Sep 29 10:40AM EDT	12.286	99.391	0.004	0.001	77.153	0.037	0.131
Sep 29 10:30AM EDT	12.286	99.391	0.003	0.001	78.337	0.037	0.13
Sep 29 10:20AM EDT	12.286	99.391	0.002	0.001	79.514	0.036	0.129
Sep 29 10:10AM EDT	12.286	99.391	0.002	0.001	80.687	0.037	0.129
Sep 29 10:00AM EDT	12.286	99.391	0.002	0.001	81.878	0.042	0.128
Sep 29 9:50AM EDT	12.286	99.391	0.003	0.001	83.187	0.047	0.127
Sep 29 9:40AM EDT	12.286	99.391	0.003	0	84.339	0.048	0.126
Sep 29 9:30AM EDT	12.286	99.391	0.003	0	85.512	0.045	0.125
Sep 29 9:20AM EDT	12.286	99.391	0.002	0	86.664	0.037	0.124
Sep 29 9:10AM EDT	12.286	99.391	0.002	0	87.812	0.026	0.123
Sep 29 9:00AM EDT	12.286	99.391	0.002	0	89.078	0.02	0.123
Sep 29 8:50AM EDT	12.286	99.391	0.003	0	90.262	0.01	0.123
Sep 29 8:40AM EDT	12.286	99.391	0.002	0	91.412	0	0.123
Sep 29 8:30AM EDT	12.286	99.391	0.002	0	92.562	0	0.123
Sep 29 8:20AM EDT	12.286	99.391	0.006	0	93.612	0.037	0.123
Sep 29 8:10AM EDT							
		Max	0.006			0.048	

	47910 Battery Voltage (Volts) Average	47910 Battery Percentage (%) Average	47910 Dust Trak Mass Conc. Total (mg/mÂ³) Average	47910 Dust Trak TWA (mg/mÂ³) Average	47910 Dust Trak Internal Battery (%) Average	47910 MiniRae VOC (ppm) Average	47910 MiniRae TWA (ppm) Average
Sep 30 4:00PM EDT	12.286	99.391	0	0.001	64.998	0.089	0.307
Sep 30 3:50PM EDT	12.286	99.391	0	0.001	65.57	0.091	0.305
Sep 30 3:40PM EDT	12.286	99.391	0	0.001	66.221	0.095	0.303
Sep 30 3:30PM EDT	12.286	99.391	0	0.001	67	0.096	0.301
Sep 30 3:20PM EDT	12.286	99.391	0	0.001	67.846	0.096	0.299
Sep 30 3:10PM EDT	12.286	99.391	0	0.001	68.47	0.1	0.297
Sep 30 3:00PM EDT	12.286	99.391	0	0.001	69.12	0.105	0.295
Sep 30 2:50PM EDT	12.286	99.391	0	0.001	70	0.107	0.293
Sep 30 2:40PM EDT	12.286	99.391	0	0.001	70.791	0.113	0.29
Sep 30 2:30PM EDT	12.286	99.391	0	0.001	71.468	0.115	0.288
Sep 30 2:20PM EDT	12.286	99.391	0	0.001	72.168	0.121	0.285
Sep 30 2:10PM EDT	12.286	99.391	0	0.001	73	0.127	0.283
Sep 30 2:00PM EDT	12.286	99.391	0	0.001	73.868	0.133	0.28
Sep 30 1:50PM EDT	12.286	99.391	0	0.001	74.59	0.133	0.277
Sep 30 1:40PM EDT	12.286	99.391	0	0.001	75.318	0.135	0.275
Sep 30 1:30PM EDT	12.286	99.391	0	0.001	76	0.135	0.272
Sep 30 1:20PM EDT	12.286	99.391	0	0.001	76.716	0.13	0.269
Sep 30 1:10PM EDT	12.286	99.391	0.001	0.001	77.068	0.118	0.266
Sep 30 1:00PM EDT	12.286	99.391	0	0.001	78	0.114	0.264
Sep 30 12:50PM EDT	12.286	99.391	0	0.001	78.415	0.116	0.262
Sep 30 12:40PM EDT	12.286	99.391	0	0.001	79	0.118	0.259
Sep 30 12:30PM EDT	12.286	99.391	0	0.001	79.99	0.123	0.257
Sep 30 12:20PM EDT	12.286	99.391	0.001	0.001	80.715	0.122	0.254
Sep 30 12:10PM EDT	12.286	99.391	0.001	0	81.443	0.114	0.252
Sep 30 12:00PM EDT	12.286	99.391	0.002	0	82.165	0.093	0.25
Sep 30 11:50AM EDT	12.286	99.391	0.003	0	83	0.085	0.248
Sep 30 11:40AM EDT	12.286	99.391	0.003	0	83.693	0.075	0.246
Sep 30 11:30AM EDT	12.286	99.391	0.004	0	84.013	0.054	0.245
Sep 30 11:20AM EDT	12.286	99.391	0.005	0	85	0.036	0.244
Sep 30 11:10AM EDT	12.286	99.391	0.005	0	85.338	0.015	0.243
Sep 30 11:00AM EDT	12.286	99.391	0.005	0	86	0.01	0.243
		Max	0.005			0.135	

	47161 Battery Voltage (Volts) Average	47161 Battery Percentage (%) Average	47161 Dust Trak Mass Conc. Total (mg/mÂ³) Average	47161 Dust Trak TWA (mg/mÂ³) Average	47161 Dust Trak Internal Battery (%) Average	47161 MiniRae VOC (ppm) Average	47161 MiniRae TWA (ppm) Average
Sep 30 4:20PM EDT	12.286	99.391	0.003	0.002	53	0	0.17
Sep 30 4:10PM EDT	12.286	99.391	0.003	0.002	53.909	0	0.17
Sep 30 4:00PM EDT	12.286	99.391	0.003	0.002	55.291	0	0.17
Sep 30 3:50PM EDT	12.286	99.391	0.003	0.002	56.516	0	0.17
Sep 30 3:40PM EDT	12.286	99.391	0.003	0.002	57.716	0	0.17
Sep 30 3:30PM EDT	12.286	99.391	0.003	0.002	59.084	0	0.17
Sep 30 3:20PM EDT	12.286	99.391	0.003	0.002	60.364	0	0.17
Sep 30 3:10PM EDT	12.286	99.391	0.003	0.002	61.616	0	0.17
Sep 30 3:00PM EDT	12.286	99.391	0.004	0.002	62.832	0	0.17
Sep 30 2:50PM EDT	12.286	99.391	0.004	0.002	64.214	0	0.17
Sep 30 2:40PM EDT	12.286	99.391	0.004	0.002	65.414	0	0.17
Sep 30 2:30PM EDT	12.286	99.391	0.006	0.002	66.614	0	0.17
Sep 30 2:20PM EDT	12.286	99.391	0.003	0.002	67.814	0	0.17
Sep 30 2:10PM EDT	12.286	99.391	0.003	0.002	69.182	0	0.17
Sep 30 2:00PM EDT	12.286	99.391	0.003	0.001	70.366	0	0.17
Sep 30 1:50PM EDT	12.286	99.391	0.004	0.001	71.566	0	0.17
Sep 30 1:40PM EDT	12.286	99.391	0.005	0.001	72.741	0	0.17
Sep 30 1:30PM EDT	12.286	99.391	0.004	0.001	74.057	0	0.17
Sep 30 1:20PM EDT	12.286	99.391	0.003	0.001	75.291	0	0.17
Sep 30 1:10PM EDT	12.286	99.391	0.004	0.001	76.493	0	0.17
Sep 30 1:00PM EDT	12.286	99.391	0.004	0.001	77.718	0	0.17
Sep 30 12:50PM EDT	12.286	99.391	0.004	0.001	79.13	0	0.17
Sep 30 12:40PM EDT	12.286	99.391	0.004	0.001	80.338	0	0.17
Sep 30 12:30PM EDT	12.286	99.391	0.005	0.001	81.514	0.001	0.17
Sep 30 12:20PM EDT	12.286	99.391	0.004	0.001	82.689	0	0.17
Sep 30 12:10PM EDT	12.286	99.391	0.004	0.001	83.839	0	0.17
Sep 30 12:00PM EDT	12.286	99.391	0.004	0	85.15	0	0.17
Sep 30 11:50AM EDT	12.286	99.391	0.004	0	86.316	0	0.17
Sep 30 11:40AM EDT	12.286	99.391	0.004	0	87.463	0	0.17
Sep 30 11:30AM EDT	12.286	99.391	0.005	0	88.613	0	0.17
Sep 30 11:20AM EDT	12.286	99.391	0.005	0	89.764	0	0.17
Sep 30 11:10AM EDT	12.286	99.391	0.005	0	90.937	0	0.17
		Max	0.006			0.001	

	47910 Battery Voltage (Volts) Average	47910 Battery Percentage (%) Average	47910 Dust Trak Mass Conc. Total (mg/mÂ³) Average	47910 Dust Trak TWA (mg/mÂ³) Average	47910 Dust Trak Internal Battery (%) Average	47910 MiniRae VOC (ppm) Average	47910 MiniRae TWA (ppm) Average
Oct 3 4:50PM EDT	12.183	94.919	0	0.001	56.311	0.048	0.22
Oct 3 4:40PM EDT	12.222	96.609	0	0.001	57	0.051	0.219
Oct 3 4:30PM EDT	12.231	97.017	0	0.001	57.905	0.058	0.218
Oct 3 4:20PM EDT	12.228	96.871	0	0.001	58.376	0.062	0.217
Oct 3 4:10PM EDT	12.254	98.004	0	0.001	59	0.068	0.215
Oct 3 4:00PM EDT	12.262	98.327	0	0.001	59.705	0.072	0.214
Oct 3 3:50PM EDT	12.243	97.501	0	0.001	60.401	0.076	0.212
Oct 3 3:40PM EDT	12.272	98.78	0	0.001	60.695	0.086	0.211
Oct 3 3:30PM EDT	12.286	99.391	0	0.001	61.978	0.095	0.209
Oct 3 3:20PM EDT	12.281	99.195	0	0.001	62.675	0.1	0.207
Oct 3 3:10PM EDT	12.283	99.26	0	0.001	63.378	0.102	0.205
Oct 3 3:00PM EDT	12.286	99.37	0	0.001	64.076	0.103	0.203
Oct 3 2:50PM EDT	12.283	99.244	0	0.001	65	0.111	0.2
Oct 3 2:40PM EDT	12.284	99.298	0	0.001	65.75	0.122	0.198
Oct 3 2:30PM EDT	12.286	99.391	0	0.001	66.45	0.131	0.195
Oct 3 2:20PM EDT	12.286	99.391	0	0.001	67.101	0.135	0.192
Oct 3 2:10PM EDT	12.286	99.391	0	0.001	68	0.133	0.19
Oct 3 2:00PM EDT	12.286	99.391	0	0.001	68.773	0.134	0.187
Oct 3 1:50PM EDT	12.286	99.391	0	0.001	69.45	0.138	0.184
Oct 3 1:40PM EDT	12.286	99.391	0	0.001	69.981	0.146	0.181
Oct 3 1:30PM EDT	12.286	99.391	0	0.001	71	0.145	0.178
Oct 3 1:20PM EDT	12.286	99.391	0	0.001	71.75	0.141	0.175
Oct 3 1:10PM EDT	12.286	99.391	0	0.001	72.153	0.133	0.172
Oct 3 1:00PM EDT	12.286	99.391	0	0.001	73.05	0.132	0.17
Oct 3 12:50PM EDT	12.286	99.391	0	0.001	74	0.133	0.167
Oct 3 12:40PM EDT	12.286	99.391	0	0.001	74.323	0.141	0.164
Oct 3 12:30PM EDT	12.286	99.391	0	0.001	75.051	0.139	0.161
Oct 3 12:20PM EDT	12.286	99.391	0	0.001	76	0.144	0.158
Oct 3 12:10PM EDT	12.286	99.391	0	0.001	76.343	0.146	0.155
Oct 3 12:00PM EDT	12.286	99.391	0	0.001	77	0.148	0.152
Oct 3 11:50AM EDT	12.286	99.391	0	0.001	77.898	0.146	0.149
Oct 3 11:40AM EDT	12.286	99.391	0	0.001	78.446	0.147	0.146
Oct 3 11:30AM EDT	12.286	99.391	0	0.001	78.618	0.148	0.143
Oct 3 11:20AM EDT	12.286	99.391	0.001	0.001	79.733	0.141	0.14
Oct 3 11:10AM EDT	12.286	99.391	0.001	0.001	80.576	0.155	0.137
Oct 3 11:00AM EDT	12.286	99.391	0.001	0.001	81.546	0.155	0.134
Oct 3 10:50AM EDT	12.286	99.391	0.001	0.001	82.243	0.153	0.13
Oct 3 10:40AM EDT	12.286	99.391	0.002	0.001	82.723	0.154	0.127
Oct 3 10:30AM EDT	12.286	99.391	0.002	0.001	83.796	0.154	0.124
Oct 3 10:20AM EDT	12.286	99.391	0.002	0.001	84.145	0.155	0.121
Oct 3 10:10AM EDT	12.286	99.391	0.002	0.001	85	0.153	0.118
Oct 3 10:00AM EDT	12.286	99.391	0.003	0.001	85.52	0.148	0.114
Oct 3 9:50AM EDT	12.286	99.391	0.003	0.001	86	0.135	0.112
Oct 3 9:40AM EDT	12.286	99.391	0.003	0.001	86.896	0.119	0.109
Oct 3 9:30AM EDT	12.286	99.391	0.004	0	87.446	0.105	0.107
Oct 3 9:20AM EDT	12.286	99.391	0.004	0	88.145	0.088	0.105
Oct 3 9:10AM EDT	12.286	99.391	0.003	0	89	0.057	0.103
Oct 3 9:00AM EDT	12.286	99.391	0.003	0	89.818	0.019	0.102
Oct 3 8:50AM EDT	12.286	99.391	0.003	0	90.493	0	0.102
Oct 3 8:40AM EDT	12.286	99.391	0.008	0	91	0	0.102
		Max	0.008			0.155	

	47161 Battery Voltage (Volts) Average	47161 Battery Percentage (%) Average	47161 Dust Trak Mass Conc. Total (mg/mÂ³) Average	47161 Dust Trak TWA (mg/mÂ³) Average	47161 Dust Trak Internal Battery (%) Average	47161 MiniRae VOC (ppm) Average	47161 MiniRae TWA (ppm) Average
Oct 3 5:00PM EDT	12.286	99.391	0.011	0.004	20.895	0	0.161
Oct 3 4:50PM EDT	12.286	99.391	0.002	0.004	21.744	0	0.161
Oct 3 4:40PM EDT	12.286	99.391	0.003	0.004	23.262	0	0.161
Oct 3 4:30PM EDT	12.286	99.391	0.003	0.003	24.543	0	0.161
Oct 3 4:20PM EDT	12.286	99.391	0.003	0.003	25.837	0	0.161
Oct 3 4:10PM EDT	12.286	99.391	0.004	0.003	27.368	0	0.161
Oct 3 4:00PM EDT	12.286	99.391	0.003	0.003	28.619	0	0.161
Oct 3 3:50PM EDT	12.286	99.391	0.005	0.003	29.934	0	0.161
Oct 3 3:40PM EDT	12.286	99.391	0.015	0.003	31.319	0	0.161
Oct 3 3:30PM EDT	12.286	99.391	0.003	0.003	32.569	0	0.161
Oct 3 3:20PM EDT	12.286	99.391	0.004	0.003	33.835	0	0.161
Oct 3 3:10PM EDT	12.286	99.391	0.007	0.003	35.268	0	0.161
Oct 3 3:00PM EDT	12.286	99.391	0.005	0.002	36.491	0	0.161
Oct 3 2:50PM EDT	12.286	99.391	0.003	0.002	37.744	0.005	0.161
Oct 3 2:40PM EDT	12.286	99.391	0.003	0.002	39.159	0	0.161
Oct 3 2:30PM EDT	12.286	99.391	0.003	0.002	40.443	0	0.161
Oct 3 2:20PM EDT	12.286	99.391	0.004	0.002	41.669	0	0.161
Oct 3 2:10PM EDT	12.286	99.391	0.003	0.002	43.082	0	0.161
Oct 3 2:00PM EDT	12.286	99.391	0.003	0.002	44.391	0	0.161
Oct 3 1:50PM EDT	12.286	99.391	0.003	0.002	45.616	0	0.161
Oct 3 1:40PM EDT	12.286	99.391	0.003	0.002	46.91	0	0.161
Oct 3 1:30PM EDT	12.286	99.391	0.003	0.002	48.289	0	0.161
Oct 3 1:20PM EDT	12.286	99.391	0.004	0.002	49.541	0	0.161
Oct 3 1:10PM EDT	12.286	99.391	0.002	0.002	50.932	0	0.161
Oct 3 1:00PM EDT	12.286	99.391	0.002	0.002	52.416	0	0.161
Oct 3 12:50PM EDT	12.286	99.391	0.002	0.002	53.666	0	0.161
Oct 3 12:40PM EDT	12.286	99.391	0.002	0.002	55.005	0	0.161
Oct 3 12:30PM EDT	12.286	99.391	0.002	0.002	56.314	0	0.161
Oct 3 12:20PM EDT	12.286	99.391	0.002	0.002	57.539	0	0.161
Oct 3 12:10PM EDT	12.286	99.391	0.002	0.001	58.743	0.002	0.161
Oct 3 12:00PM EDT	12.286	99.391	0.005	0.001	60.129	0.006	0.161
Oct 3 11:50AM EDT	12.286	99.391	0.002	0.001	61.366	0.006	0.161
Oct 3 11:40AM EDT	12.286	99.391	0.002	0.001	62.566	0.006	0.161
Oct 3 11:30AM EDT	12.286	99.391	0.002	0.001	63.769	0.005	0.16
Oct 3 11:20AM EDT	12.286	99.391	0.004	0.001	65.129	0.003	0.16
Oct 3 11:10AM EDT	12.286	99.391	0.002	0.001	66.364	0.001	0.16
Oct 3 11:00AM EDT	12.286	99.391	0.002	0.001	67.539	0.002	0.16
Oct 3 10:50AM EDT	12.286	99.391	0.002	0.001	68.739	0.001	0.16
Oct 3 10:40AM EDT	12.286	99.391	0.003	0.001	70.052	0.001	0.16
Oct 3 10:30AM EDT	12.286	99.391	0.003	0.001	71.289	0.001	0.16
Oct 3 10:20AM EDT	12.286	99.391	0.003	0.001	72.489	0.001	0.16
Oct 3 10:10AM EDT	12.286	99.391	0.004	0.001	73.666	0.001	0.16
Oct 3 10:00AM EDT	12.286	99.391	0.003	0.001	74.855	0	0.16
Oct 3 9:50AM EDT	12.286	99.391	0.003	0.001	76.214	0	0.16
Oct 3 9:40AM EDT	12.286	99.391	0.003	0.001	77.388	0	0.16
Oct 3 9:30AM EDT	12.286	99.391	0.004	0	78.566	0	0.16
Oct 3 9:20AM EDT	12.286	99.391	0.004	0	79.739	0	0.16
Oct 3 9:10AM EDT	12.286	99.391	0.004	0	81.002	0	0.16
Oct 3 9:00AM EDT	12.286	99.391	0.004	0	82.266	0	0.16
Oct 3 8:50AM EDT	12.286	99.391	0.004	0	83.439	0	0.16
Oct 3 8:40AM EDT	12.286	99.391	0.004	0	84.641	0	0.16
Oct 3 8:30AM EDT	12.286	99.391	0.005	0	85.613	0	0.16
		Max	0.015			0.006	

Data Collection Forms and Worksheets
Canastota Former MGP PDI
Canastota, NY

Daily CAMP Report

System Operations		General Observations
Sampling Date	12/5/2022	General Weather Conditions
System Start Time	8:00:00 AM	30's - 40's, Sunny
System Stop Time	5:30:00 PM	
Total Hours Monitored	9:30	General Description of Site Activities:
		Vacuum excavation for utility clearance, with borings following. Pre-clearing by hand when required
System Calibrations	YES	CAMP station locations: DW station @ NE corner of Site activities, UW station @ SW corner of Site activities
(Time)	8:30:00 AM	
(Status)	Pass	

System Alarm Log

Time	Station No.	Alarm (Dust, VOC)	Location (UW, CW, DW)	Dust/TVOC/Odor 15-min avg conc. Range	Total # of Alarms	Notes	Site Person/Time Notified
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Notes:
No recorded exceedances

	Particulate (15-min)	TVOC (15-min)
Response Limit:	100 ug/m^3	3.7 ppm
Action Limit:	150 ug/m^3	5.0 ppm
Stop-Work Limit:	N/A	25 ppm

Notes:

UW - Upwind
CW - Crosswind
DW - Downwind

P - Particulate/ Dust
Particulate recorded in ug/m^3
V - Total VOC
Total VOC measured in ppm

Field Representative: Breana Pabst
Date: 12/5/2022

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Canastota, NY

Daily CAMP Report

System Operations		General Observations
Sampling Date	12/6/2022	General Weather Conditions
System Start Time	7:30:00 AM	30's - 40's, overcast w/ rain throughout day
System Stop Time	4:30:00 PM	
Total Hours Monitored	9:00	General Description of Site Activities:
		Vacuum excavation for utility clearance, with boring following
System Calibrations	YES	CAMP station locations: DW station @ NE corner of Site activities, UW station @ SW corner of Site activities
(Time)	8:00:00 AM	
(Status)	Pass	

System Alarm Log

Time	Station No.	Alarm (Dust, VOC)	Location (UW, CW, DW)	Dust/TVOC/Odor 15-min avg conc. Range	Total # of Alarms	Notes	Site Person/Time Notified
11:45-16:15	DW	VOC	DW	5.49 - 36.47 ppm	19	During this time, humid conditions were observed, and it had been raining throughout the work day.	GEI

Notes:
TVOCs were measured above the 15-minute Action Limit of 5 ppm at DW station on December 6, 2022 between 1145 and 1615 hours. During this time, humid conditions were observed, and it had been raining throughout the work day.

	Particulate (15-min)	TVOC (15-min)
Response Limit:	100 ug/m^3	3.7 ppm
Action Limit:	150 ug/m^3	5.0 ppm
Stop-Work Limit:	N/A	25 ppm

Notes:
UW - Upwind
CW - Crosswind
DW - Downwind
P - Particulate/ Dust
Particulate recorded in ug/m^3
V - Total VOC
Total VOC measured in ppm

Field Representative: Breana Pabst
Date: 12/6/2022

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Canastota, NY

Daily CAMP Report

System Operations		General Observations
Sampling Date	12/7/2022	General Weather Conditions
System Start Time	7:30:00 AM	40's, overcast w/ rain
System Stop Time	4:00:00 PM	
Total Hours Monitored	8:30	General Description of Site Activities:
		Completed boring from previous day, with hollow-stem auger boring following
System Calibrations	YES	CAMP station locations: DW station @ SE corner of Site activities, UW station @ NW corner of Site activities
(Time)	8:00:00 AM	
(Status)	Pass	

System Alarm Log

Time	Station No.	Alarm (Dust, VOC)	Location (UW, CW, DW)	Dust/TVOC/Odor 15-min avg conc. Range	Total # of Alarms	Notes	Site Person/Time Notified
8:45	DW	VOC	DW	21.25	1	During the day, rain and elevated humidity were observed.	GEI

Notes:
TVOCs were measured above the 15-minute Action Limit of 5.0 ppm at the DW station on December 7, 2022 between 8:45 and 9:00. During the day, rain and elevated humidity were observed. Measured TVOC concentrations fell below the Action Level without intervention.

	Particulate (15-min)	TVOC (15-min)
Response Limit:	100 ug/m^3	3.7 ppm
Action Limit:	150 ug/m^3	5.0 ppm
Stop-Work Limit:	N/A	25 ppm

Notes:
UW - Upwind
CW - Crosswind
DW - Downwind
P - Particulate/ Dust
Particulate recorded in ug/m^3
V - Total VOC
Total VOC measured in ppm

Field Representative: Breana Pabst
Date: 12/7/2022

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Canastota, NY

Daily CAMP Report

System Operations		General Observations
Sampling Date	12/8/2022	General Weather Conditions
System Start Time	7:30:00 AM	40's, overcast w/ rain
System Stop Time	4:00:00 PM	
Total Hours Monitored	8:30	General Description of Site Activities:
		hollow-stem auger borings throughout the day
System Calibrations	YES	CAMP station locations: DW station @ S corner of Site activities, UW station @ N corner of Site activities
(Time)	8:00:00 AM	
(Status)	Pass	

System Alarm Log

Time	Station No.	Alarm (Dust, VOC)	Location (UW, CW, DW)	Dust/TVOC/Odor 15-min avg conc. Range	Total # of Alarms	Notes	Site Person/Time Notified
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Notes:
No recorded exceedances

	Particulate (15-min)	TVOC (15-min)
Response Limit:	100 ug/m^3	3.7 ppm
Action Limit:	150 ug/m^3	5.0 ppm
Stop-Work Limit:	N/A	25 ppm

Notes:

UW - Upwind
CW - Crosswind
DW - Downwind

P - Particulate/ Dust
Particulate recorded in ug/m^3
V - Total VOC
Total VOC measured in ppm

Field Representative: Breana Pabst
Date: 12/8/2022

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Canastota, NY

Daily CAMP Report

System Operations		General Observations
Sampling Date	12/9/2022	General Weather Conditions
System Start Time	7:30:00 AM	30's, overcast
System Stop Time	3:45:00 PM	
Total Hours Monitored	8:15	General Description of Site Activities:
		Hollow-stem auger borings throughout the day, with hand-clearing utilized as needed
System Calibrations	YES	CAMP station locations: DW station @ S corner of Site activities, SW station @ NE corner of Site activities
(Time)	8:00:00 AM	
(Status)	Pass	

System Alarm Log

Time	Station No.	Alarm (Dust, VOC)	Location (UW, CW, DW)	Dust/TVOC/Odor 15-min avg conc. Range	Total # of Alarms	Notes	Site Person/Time Notified
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Notes:
No recorded exceedances

	Particulate (15-min)	TVOC (15-min)
Response Limit:	100 ug/m^3	3.7 ppm
Action Limit:	150 ug/m^3	5.0 ppm
Stop-Work Limit:	N/A	25 ppm

Notes:

UW - Upwind
CW - Crosswind
DW - Downwind

P - Particulate/ Dust
Particulate recorded in ug/m^3
V - Total VOC
Total VOC measured in ppm

Field Representative: Breana Pabst
Date: 12/9/2022

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Canastota Former MGP PDI
Canastota, NY

Daily CAMP Report

System Operations		General Observations
Sampling Date	12/12/2022	General Weather Conditions
System Start Time	8:00:00 AM	30's, overcast
System Stop Time	3:45:00 PM	
Total Hours Monitored	7:45	General Description of Site Activities:
		Hollow-stem auger borings,with well installations following borings
System Calibrations	YES	CAMP station locations: DW station @ S corner of Site activities, UW station @ N corner of Site activities
(Time)	8:15:00 AM	
(Status)	Pass	

System Alarm Log

Time	Station No.	Alarm (Dust, VOC)	Location (UW, CW, DW)	Dust/TVOC/Odor 15-min avg conc. Range	Total # of Alarms	Notes	Site Person/Time Notified
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Notes:
No recorded exceedances

	Particulate (15-min)	TVOC (15-min)
Response Limit:	100 ug/m^3	3.7 ppm
Action Limit:	150 ug/m^3	5.0 ppm
Stop-Work Limit:	N/A	25 ppm

Notes:

UW - Upwind
CW - Crosswind
DW - Downwind

P - Particulate/ Dust
Particulate recorded in ug/m^3
V - Total VOC
Total VOC measured in ppm

Field Representative: Breana Pabst
Date: 12/12/2022

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Canastota, NY

Daily CAMP Report

System Operations		General Observations
Sampling Date	12/12/2022	General Weather Conditions
System Start Time	8:00:00 AM	30's, overcast
System Stop Time	3:45:00 PM	
Total Hours Monitored	7:45	General Description of Site Activities:
		Completed well installation from previous day, followed by hollow-stem auger boring and additional well installation
System Calibrations	YES	CAMP station locations: DW station @ SE corner of Site activities, UW station @ NW corner of Site activities
(Time)	8:15:00 AM	
(Status)	Pass	

System Alarm Log

Time	Station No.	Alarm (Dust, VOC)	Location (UW, CW, DW)	Dust/TVOC/Odor 15-min avg conc. Range	Total # of Alarms	Notes	Site Person/Time Notified
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Notes:
No recorded exceedances

	Particulate (15-min)	TVOC (15-min)
Response Limit:	100 ug/m^3	3.7 ppm
Action Limit:	150 ug/m^3	5.0 ppm
Stop-Work Limit:	N/A	25 ppm

Notes:

UW - Upwind
CW - Crosswind
DW - Downwind

P - Particulate/ Dust
Particulate recorded in ug/m^3
V - Total VOC
Total VOC measured in ppm

Field Representative: Breana Pabst
Date: 12/12/2022

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Canastota Former MGP PDI
Canastota, NY

Daily CAMP Report

System Operations		General Observations
Sampling Date	12/14/2022	General Weather Conditions
System Start Time	8:00:00 AM	15-30's, clear skies
System Stop Time	2:30:00 PM	
Total Hours Monitored	6:30	General Description of Site Activities:
		pulling augurs and developing wells, completing installations
System Calibrations	YES	CAMP station locations: DW station @ S corner of Site activities, UW station @ N corner of Site activities
(Time)	8:15:00 AM	
(Status)	Pass	

System Alarm Log

Time	Station No.	Alarm (Dust, VOC)	Location (UW, CW, DW)	Dust/TVOC/Odor 15-min avg conc. Range	Total # of Alarms	Notes	Site Person/Time Notified
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Notes:
No recorded exceedances

	Particulate (15-min)	TVOC (15-min)
Response Limit:	100 ug/m^3	3.7 ppm
Action Limit:	150 ug/m^3	5.0 ppm
Stop-Work Limit:	N/A	25 ppm

Notes:

UW - Upwind
CW - Crosswind
DW - Downwind

P - Particulate/ Dust
Particulate recorded in ug/m^3
V - Total VOC
Total VOC measured in ppm

Field Representative: Breana Pabst
Date: 12/14/2022

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Raw CAMP Station Data
Canastota Former MGP PDI
Canastota, NY

(Day.Month.Year)
Time Period: 05.12.2022 00:00:00 - 14.12.2022 00:00:00

Time	Ithaca Upwind: TVOC_15min_ppm[ppm]	Ithaca Upwind: DUST_15min_ugm3[µg/m3]	Ithaca Downwind: TVOC_15min_ppm[ppm]	Ithaca Downwind: DUST_15min_ugm3[µg/m3]
05.12.2022 09:00:00	0	3.2		
05.12.2022 09:15:00	0	4.9	3.63	4.3
05.12.2022 09:30:00	0	5.3	0	4.6
05.12.2022 09:45:00	0	5.1	0	4.4
05.12.2022 10:00:00	0	3.5	0	3.4
05.12.2022 10:15:00	0	2.6	0	3.2
05.12.2022 10:30:00	0	2.6	0	3.1
05.12.2022 10:45:00	0	2.2	0	3.1
05.12.2022 11:00:00	0	2.2	0	3.2
05.12.2022 11:15:00	0	2	0	3
05.12.2022 11:30:00	0	1.8	0	2.9
05.12.2022 11:45:00	0	1.9	0	3
05.12.2022 12:00:00	0	3	0	2.9
05.12.2022 12:15:00	0	3.2	0	2.7
05.12.2022 12:30:00	0	2.5	0	2.7
05.12.2022 12:45:00	0	2.3	0	2.7
05.12.2022 13:00:00	0	2.6	0	3.1
05.12.2022 13:15:00	0	2.6	0	2.9
05.12.2022 13:30:00	0	2.6	0	2.5
05.12.2022 13:45:00	0	2.5	0	2.7
05.12.2022 14:00:00	0	2.6	0	2.3
05.12.2022 14:15:00	0	3.5	0	2.3
05.12.2022 14:30:00	0	1.7	0	2.4
05.12.2022 14:45:00	0	1.5	0	2.3
05.12.2022 15:00:00	0	1.5	0	2.2
06.12.2022 07:45:00	0	6.1		
06.12.2022 08:00:00	0	4.3	0	3.6
06.12.2022 08:15:00	0	5.4	0.32	4.2
06.12.2022 08:30:00	0	5.4	0	4.8
06.12.2022 08:45:00	0	6	0	5.1
06.12.2022 09:00:00	0	8.9	0	6.8
06.12.2022 09:15:00	0	13.3	0	10.7

06.12.2022 09:30:00	0	16.3	0	12.8
06.12.2022 09:45:00	0	19.5	0	14.9
06.12.2022 10:00:00	0	24	0	16.4
06.12.2022 10:15:00	0	24.6	0	18.9
06.12.2022 10:30:00	0	25.8	0.01	20
06.12.2022 10:45:00	0	29	0.25	21.8
06.12.2022 11:00:00	0	30.4	0.55	22
06.12.2022 11:15:00	0	30.6	1.08	22.4
06.12.2022 11:30:00	0	30.6	3.23	23.4
06.12.2022 11:45:00	0	28.8	6.49	24.2
06.12.2022 12:00:00	0	28.4	8.82	23.5
06.12.2022 12:15:00	0	28.2	10.18	22.6
06.12.2022 12:30:00	0	28.7	10.86	22.8
06.12.2022 12:45:00	0	27.5	11.88	23.4
06.12.2022 13:00:00	0	24.4	12.47	22.1
06.12.2022 13:15:00	0	25.5	12.37	21.9
06.12.2022 13:30:00	0	25.9	12.29	21.3
06.12.2022 13:45:00	0	27.8	12.71	22.8
06.12.2022 14:00:00	0	31	12.21	23.9
06.12.2022 14:15:00	0	35.7	27.26	25.5
06.12.2022 14:30:00	0	41.2	19.08	28.5
06.12.2022 14:45:00	0	37.6	17.23	27.7
06.12.2022 15:00:00	0	40.2	16.48	30.6
06.12.2022 15:15:00	0	44.3	16.05	32.6
06.12.2022 15:30:00	0	45	15.42	33
06.12.2022 15:45:00	0	51.8	15.1	38
06.12.2022 16:00:00	0	62.6	28.1	44.5
06.12.2022 16:15:00	0	56.5	36.47	41.2
07.12.2022 08:00:00	4.06	10.6		7.3
07.12.2022 08:15:00	2.08	11.1		9.9
07.12.2022 08:30:00	0.01	24.9	2.57	13.5
07.12.2022 08:45:00	0	28.1	21.25	19.7
07.12.2022 09:00:00	0	26.5	0	25.6
07.12.2022 09:15:00	0	20.8	0	16.6
07.12.2022 09:30:00	0	32.1	0	26.5
07.12.2022 09:45:00	0	32.9	0	21.6
07.12.2022 10:00:00	0	26.2	0	21.7
07.12.2022 10:15:00	0	51.4	0	31.3
07.12.2022 10:30:00	0	82.8	0	32.7
07.12.2022 10:45:00	0	38	0	23.4
07.12.2022 11:00:00	0	61.4	0	18
07.12.2022 11:15:00	0	20	0	15
07.12.2022 11:30:00	0	19.5	0	16.1
07.12.2022 11:45:00	0	107.9	0	71
07.12.2022 12:00:00	0	21.3	0	18.2
07.12.2022 12:15:00	0	20.9	0	17.4
07.12.2022 12:30:00	0	22.1	0	16.4

07.12.2022 12:45:00	0	21.5	0	16.4
07.12.2022 13:00:00	0	25.4	0	18.6
07.12.2022 13:15:00	0	22.5	0	17.8
07.12.2022 13:30:00	0	18.4	0	15
07.12.2022 13:45:00	0	20.5	0	16.7
07.12.2022 14:00:00	0	19.8	0	17.3
07.12.2022 14:15:00	0	18	0	14.6
07.12.2022 14:30:00	0	13.1	0	10.1
07.12.2022 14:45:00	0	10.8	0	8.9
07.12.2022 15:00:00	0	12.8	0	10.9
07.12.2022 15:15:00	0	17.3	0	14.3
07.12.2022 15:30:00	0	18.4	0	15.5
07.12.2022 15:45:00	0	19.4	0	16
08.12.2022 08:00:00	0	5.6	0	4.8
08.12.2022 08:15:00	0.49	6.1	0.01	5.1
08.12.2022 08:30:00	0	6	0	5.9
08.12.2022 08:45:00	0	6.9	0	6.6
08.12.2022 09:00:00	0	8.2	0	7.8
08.12.2022 09:15:00	0	10.1	0	9.4
08.12.2022 09:30:00	0	13.4	0	11.7
08.12.2022 09:45:00	0	14	0	11.4
08.12.2022 10:00:00	0	13.5	0	18
08.12.2022 10:15:00	0	13.1	0	17.8
08.12.2022 10:30:00	0	13.4	0	11.4
08.12.2022 10:45:00	0	8.7	0	7.1
08.12.2022 11:00:00	0	5.8	0	4.8
08.12.2022 11:15:00	0	5.4	0	4.4
08.12.2022 11:30:00	0	6	0	4.9
08.12.2022 11:45:00	0	7.8	0	5.9
08.12.2022 12:00:00	0	9.6	0	6.9
08.12.2022 12:15:00	0	10.3	0	6.8
08.12.2022 12:30:00	0	7.6	0	5.6
08.12.2022 12:45:00	0	7.7	0	5.9
08.12.2022 13:00:00	0	7.5	0	5.8
08.12.2022 13:15:00	0	7.4	0	5.5
08.12.2022 13:30:00	0	6.7	0	5.2
08.12.2022 13:45:00	0	5.5	0	4.7
08.12.2022 14:00:00	0	4.6	0	4.5
08.12.2022 14:15:00	0	2.8	0	3.7
08.12.2022 14:30:00	0	2.4	0	3.5
08.12.2022 14:45:00	0	2.4	0	3.6
08.12.2022 15:00:00	0	3	0	4.2
08.12.2022 15:15:00	0	3.1	0	4.4
08.12.2022 15:30:00	0	3.1	0	4.3
08.12.2022 15:45:00			0	5.5
09.12.2022 08:15:00	0.45	5.8	1.63	5.3
09.12.2022 08:30:00	0.01	6.2	0.07	5.7

09.12.2022 08:45:00	0	6.3	0	5.7
09.12.2022 09:00:00	0	5.9	0	4.6
09.12.2022 09:15:00	0	5.3	0	4.5
09.12.2022 09:30:00	0	4.5	0	4
09.12.2022 09:45:00	0	4	0	3.6
09.12.2022 10:00:00	0	3.7	0	3.4
09.12.2022 10:15:00	0	3	0	2.9
09.12.2022 10:30:00	0	2.5	0	2.4
09.12.2022 10:45:00	0	2.8	0	2.5
09.12.2022 11:00:00	0	2.8	0	2.4
09.12.2022 11:15:00	0	2.3	0	2.1
09.12.2022 11:30:00	0	2.2	0	2.1
09.12.2022 11:45:00	0	2.1	0	2
09.12.2022 12:00:00	0	2	0	1.9
09.12.2022 12:15:00	0	1.2	0	1.9
09.12.2022 12:30:00	0	1.3	0	2.2
09.12.2022 12:45:00	0	1.2	0	2.3
09.12.2022 13:00:00	0	1.2	0	2.2
09.12.2022 13:15:00	0	1.1	0	2.1
09.12.2022 13:30:00	0	1.1	0	2.1
09.12.2022 13:45:00	0	1.1	0	2
09.12.2022 14:00:00	0	1.1	0	2
09.12.2022 14:15:00	0	0.9	0	2
09.12.2022 14:30:00	0	0.9	0	1.6
09.12.2022 14:45:00	0	1	0	1.7
09.12.2022 15:00:00	0	1.1	0	1.5
09.12.2022 15:15:00	0	1.4	0	1.8
09.12.2022 15:30:00			0	2.1
12.12.2022 08:15:00		6.3		
12.12.2022 08:30:00	0	7.9		8.4
12.12.2022 08:45:00	0	10.3		10.6
12.12.2022 09:00:00	0.01	15.3	1.67	13.7
12.12.2022 09:15:00	0	13.4	0.12	12.4
12.12.2022 09:30:00	0	12.5	0.24	11.7
12.12.2022 09:45:00	0	13.2	0.29	12.6
12.12.2022 10:00:00	0	11.6	0.27	11.4
12.12.2022 10:15:00	0	12.8	0.24	11.8
12.12.2022 10:30:00	0	11.4	0.22	10.6
12.12.2022 10:45:00	0	11.4	0.19	11.2
12.12.2022 11:00:00	0	10.2	0.17	10.2
12.12.2022 11:15:00	0	9.6	0.15	9.2
12.12.2022 11:30:00	0	8.7	0.11	8.4
12.12.2022 11:45:00	0	8.5	0.07	8.2
12.12.2022 12:00:00	0	8.3	0.07	8
12.12.2022 12:15:00	0	7.8	0.02	7.2
12.12.2022 12:30:00	0	7.8	0	7.5
12.12.2022 12:45:00	0	8.4	0	8.4

12.12.2022 13:00:00	0	6.8	0	7.5
12.12.2022 13:15:00	0	5.8	0	5.9
12.12.2022 13:30:00	0	5.5	0	5.1
12.12.2022 13:45:00	0	5.2	0	4.7
12.12.2022 14:00:00	0	4.2	0	4.1
12.12.2022 14:15:00	0	3.9	0	3.6
12.12.2022 14:30:00	0	3.7	0	3.7
12.12.2022 14:45:00	0	3.3	0	3.5
12.12.2022 15:00:00	0	3	0	3.5
12.12.2022 15:15:00	0	3.1	0	3.2
12.12.2022 15:30:00	0	3.6	0	3.5
12.12.2022 15:45:00	0	3.3	0	3.5
13.12.2022 08:15:00	0.03	10.2	0.12	8.4
13.12.2022 08:30:00	0.24	11.1	0.68	10.3
13.12.2022 08:45:00	0	12.5	0.05	11.8
13.12.2022 09:00:00	0	17	0.09	14.4
13.12.2022 09:15:00	0	19.2	0.25	23.9
13.12.2022 09:30:00	0	16.9	0.29	29.9
13.12.2022 09:45:00	0	14	0.28	18.6
13.12.2022 10:00:00	0	13.9	0.38	18.5
13.12.2022 10:15:00	0	10.5	0.24	12.8
13.12.2022 10:30:00	0	5.7	0.03	14.2
13.12.2022 10:45:00	0	2.8	0	6.8
13.12.2022 11:00:00	0	1.5	0	3.4
13.12.2022 11:15:00	0	1.5	0	3.1
13.12.2022 11:30:00	0	1.2	0	2.9
13.12.2022 11:45:00	0	1.2	0	3
13.12.2022 12:00:00	0	1.4	0	2.8
13.12.2022 12:15:00	0	1.8	0	3.1
13.12.2022 12:30:00	0	2.4	0	3.5
13.12.2022 12:45:00	0	1.8	0	3.2
13.12.2022 13:00:00	0	2	0	3.2
13.12.2022 13:15:00	0	2	0	3.4
13.12.2022 13:30:00	0	2.3	0	3.7
13.12.2022 13:45:00	0	2.6	0	4.2
13.12.2022 14:00:00	0	3.3	0	4.7
13.12.2022 14:15:00	0	4	0	4.5
13.12.2022 14:30:00	0	4.5	0	4.9
13.12.2022 14:45:00	0	3.5	0	3.7
13.12.2022 15:00:00	0	4.1	0	4.1
13.12.2022 15:15:00	0	3.8	0	3.9
13.12.2022 15:30:00	0	3.5	0	3.6
13.12.2022 15:45:00	0	3.6	0	3.5
13.12.2022 16:00:00	0	3.3	0	3.8
13.12.2022 16:15:00			0	3.9
14.12.2022 08:00:00				2.4
14.12.2022 08:15:00	0	2	0	52.2

14.12.2022 08:30:00	0.59	1.8	0.57	2
14.12.2022 08:45:00	0	1.7	0.47	1.9
14.12.2022 09:00:00	0	2.1	0.49	2.2
14.12.2022 09:15:00	0	2.2	0.47	2.1
14.12.2022 09:30:00	0	1.7	0.45	1.9
14.12.2022 09:45:00	0	1.6	0.41	1.7
14.12.2022 10:00:00	0	1.4	0.31	1.7
14.12.2022 10:15:00	0	1.8	0.27	3.1
14.12.2022 10:30:00	0	1.8	0.23	2.1
14.12.2022 10:45:00	0	1.6	0.2	1.8
14.12.2022 11:00:00	0	1.8	0.18	1.8
14.12.2022 11:15:00	0	2.1	0.1	4.1
14.12.2022 11:30:00	0	1.6	0.03	1.5
14.12.2022 11:45:00	0	1.4	0	1.3
14.12.2022 12:00:00	0	1.1	0	1.8
14.12.2022 12:15:00	0	0.9	0	1.2
14.12.2022 12:30:00	0	0.4	0	1.1
14.12.2022 12:45:00	0	0.7	0	1.1
14.12.2022 13:00:00	0	0.8	0	1
14.12.2022 13:15:00	0	0.8	0	1.1
14.12.2022 13:30:00	0	0.7	0	1.2
14.12.2022 13:45:00	0	1.1	0.01	1.4
14.12.2022 14:00:00	0	1.1	0.03	2
14.12.2022 14:15:00			0.04	1.7