APPENDIX B GEOPHYSICAL SURVEY REPORT

GEOPHYSICAL SURVEY 250 WATER STREET MANHATTAN, NEW YORK

Prepared for:

Langan 21 Penn Plaza 360 West 31st Street, 8th Floor New York, New York 10001-2727

Prepared by:

Hager-Richter Geoscience, Inc. 846 Main Street Fords, New Jersey 08863

File 20AM08 June 2020

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HAGER-RICHTER GEOSCIENCE, INC.

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June 25, 2020 File 20AM08

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RE: Geophysical Survey

250 Water Street Manhattan, New York

Dear Mr. Yanowitz:

In this report, we summarize the results of a geophysical survey conducted in June 2020 by Hager-Richter Geoscience, Inc., dba HR Geological Services in New York (HRGS), at 250 Water Street in Manhattan, New York for Langan. The scope of the project and area of interest were specified by Langan.

INTRODUCTION

The site is located at 250 Water Street (Block 98, Lot 1) in Manhattan, New York as shown on Figure 1. The site is bounded by Pearl Street to the North, Peck Slip to the East, Water Street to the South and Beekman Street to the West. Langan specified the area of interest (AOI) as the entire city block. The AOI comprises an active parking lot and adjacent sidewalks and is approximately 48,000 square feet in size. The site was formerly occupied by a thermometer factory and several other buildings that were demolished and paved over several decades ago. A portion of the site, located south of the entry gates, has developed a surface depression.

Langan requested a geophysical survey to determine whether sub-surface features such as underground storage tanks (USTs), utilities, former foundations, and voids are present in the accessible portions of the site. Langan was also interested in determining whether utilities were present at the proposed locations of 36 borings at the site.

OBJECTIVE

The objective of the geophysical survey was to detect, and if detected, to locate sub-surface features such as USTs, utilities, foundations and voids in the accessible portions of the AOI, and to clear utilities in the vicinity of 36 proposed boring locations.

THE SURVEY

Amanda Fabian, P.G., Alexis Martinez and Ariana Martinez, conducted the field operations on June 15 and 16, 2020. The project was coordinated with Mr. Joseph Yanowitz of Langan. Mr. Thomas Schiefer, also of Langan, specified the AOI and was present on site during the survey. Photos 1 and 2 show general site conditions within the parking lot.





Photo 1. General site conditions; looking northwest

Photo 2. Surface depression in western portion of site

The geophysical survey was conducted using three complementary geophysical methods: time domain electromagnetic induction (EM61), ground penetrating radar (GPR), and precision utility location (PUL). The EM61 data were acquired at approximately 8-inch intervals along lines spaced 5 feet apart in the accessible portions of the AOI. The EM survey detects and outlines areas containing buried metal. However, the EM method cannot provide information on the type of objects causing EM anomalies.

In order to aid in the identification of the objects, GPR data were acquired in two mutually perpendicular directions and spaced no more than 2 feet apart in one direction and 5 feet apart in a perpendicular direction across the accessible portions of the site. The GPR method is useful for detecting both metallic and non-metallic subsurface objects. The two-foot spacing was adequate to detect voids with a horizontal dimension of at least two feet with a high degree of confidence within the effective depth of GPR signal penetration.

The PUL system was used for tracking utilities in the AOI by connecting the transmitter to conductive surface features such as light poles, valves, and hydrants and by scanning the AOI for the presence of live electric lines.

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EQUIPMENT AND PROCEDURES

EM61. For the EM61 survey, we used a Geonics EM61-MK2 time domain electromagnetic induction metal detector. The EM61 is a time-domain electromagnetic induction type instrument designed specifically for detecting buried metal objects. An air-cored 1-meter by ½-meter transmitter coil generates a pulsed primary magnetic field in the earth, thereby inducing eddy currents in nearby metal objects. The decay of the eddy current produces a secondary magnetic field that is sensed by two receiver coils, one coincident with the transmitter and one positioned 40 cm above the main coil. By measuring the secondary magnetic field after the current in the ground has dissipated but before the current in metal objects has dissipated, the instrument responds only to the secondary magnetic field produced by metal objects. Four channels of secondary response are measured in mV and are recorded on a digital data logger. The system is generally operated by pushing the coils as a wagon with an odometer mounted on the axle to trigger the data logger automatically at approximately 8-inch intervals.

GPR. The GPR survey was conducted using a Geophysical Survey Systems, Inc. UtilityScan HS system using a Hyper Stacking antenna with central frequency of 350 MHz and a 100 ns time window. The system includes a survey wheel that triggers the recording of the data at fixed intervals, thereby increasing the accuracy of the locations of features detected along the survey lines.

GPR uses a high-frequency electromagnetic pulse (referred to herein as "radar signal") transmitted from a radar antenna to probe the subsurface. The transmitted radar signals are reflected from subsurface interfaces of materials with contrasting electrical properties. The travel times of the radar signal can be converted to approximate depth below the surface by correlation with targets of known depths, including stratigraphic horizons, pipes, cables, and other utilities, or by using handbook values of velocities for the materials in the subsurface. The acquisition of GPR data was monitored in the field on a graphic recorder and the real time images were immediately available for field use. The GPR data were also recorded digitally for subsequent processing. Interpretation of the records is based on the nature and intensity of the reflected signals and on the resulting patterns.

PUL. The PUL survey was conducted using a precision electromagnetic pipe and cable locator, Radiodetection RD7000 series. The RD7000 series consists of separate transmitter and receiver. The system can be used in "passive" and "active" modes to locate buried pipes by detecting electromagnetic signals carried by the pipes. In the "passive" mode, only the receiver unit is used to detect signals carried by the pipe from nearby power lines, live signals transmitted along underground power cables, or very low frequency radio signals resulting from long wave radio transmissions that flow along buried conductors. In the "active" mode of operation, the transmitter is used to induce a signal on a target pipe, and the receiver is used to trace the signal along the length of the pipe. Our system uses a 10W transmitter.

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Geophysical Survey 250 Water Street New York, New York File 20AM08 Page 4

LIMITATIONS OF THE METHODS

HAGER-RICHTER GEOSCIENCE, INC. MAKES NO GUARANTEE THAT ALL SUBSURFACE TARGETS OF INTEREST WERE DETECTED IN THIS SURVEY. HAGER-RICHTER GEOSCIENCE, INC. IS NOT RESPONSIBLE FOR DETECTING SUBSURFACE TARGETS THAT NORMALLY CANNOT BE DETECTED BY THE METHODS EMPLOYED OR THAT CANNOT BE DETECTED BECAUSE OF SITE CONDITIONS. GPR SIGNAL PENETRATION MAY NOT BE DEEP ENOUGH TO DETECT SOME TARGETS. HAGER-RICHTER GEOSCIENCE, INC. IS NOT RESPONSIBLE FOR MAINTAINING FIELD MARKOUTS AFTER LEAVING THE WORK AREA. THE CLIENT UNDERSTANDS THAT MARK-OUTS MADE DURING INCLEMENT WEATHER OR IN AREAS OF HIGH PEDESTRIAN OR VEHICULAR TRAFFIC MAY NOT LAST.

Field mark-outs. Utilities detected by the geophysical methods at the time of the survey are marked in the field, and the operator makes every attempt, field conditions permitting, to detect and mark as many utilities as possible at the time of survey. Adverse weather and site conditions (rain, snow, snow and soil piles, uneven surfaces, high traffic, etc.) can hamper in-field interpretation. Utility mark-outs made on wet pavement, snow, snow piles, gravel surfaces, or in active construction zones may not last. HRGS is not responsible for maintaining utility mark-outs after leaving the work area.

EM61. All electromagnetic geophysical methods, including the EM method used here, are affected by the presence of power lines and surface metal objects (steel sided buildings, dumpsters, vehicles, railroad tracks, reinforced concrete, etc.). Where such are present, the effects of materials in the subsurface may be masked, and firm conclusions about subsurface conditions cannot be made.

Detection and identification should be clearly differentiated. Detection is the recognition of the presence of a metal object, and the electromagnetic method is excellent for such purposes. Identification, on the other hand, is determination of the nature of the causative body (i.e., what is the body -- utilities, foundations, automobiles, white goods, etc.?). Although the EM61 data cannot be used to identify buried metal objects, they provide excellent guides to the identification of some objects. For example, buried metal utilities produce anomalies with lengths many times their widths.

GPR. There are limitations of the GPR technique as used to detect and/or locate targets such as those of the objectives of this survey: (1) surface conditions, (2) electrical conductivity of the ground, (3) contrast of the electrical properties of the target and the surrounding soil, and (4) spacing of the traverses. Of these restrictions, only the last is controllable by us.

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The condition of the ground surface can affect the quality of the GPR data and the depth of penetration of the GPR signal. Sites covered with snow piles, high grass, bushes, landscape structures, debris, obstacles, soil mounds, etc. limit the survey access and the coupling of the GPR antenna with the ground. In many cases, the GPR signal will not penetrate below concrete pavement, especially inside buildings, and a target may not be detectable. The GPR method also commonly does not provide useful data under canopies found at some facilities. GPR surveys inside buildings may be severely constrained by space limitations and interference from abovegrade structures.

The electrical conductivity of the ground determines the attenuation of the GPR signals, and thereby limits the maximum depth of exploration. For example, the GPR signal does not penetrate clay-rich soils, and targets buried in clay might not be detected.

A definite contrast in the electrical conductivities of the surrounding ground and the target material is required to obtain a reflection of the GPR signal. If the contrast is too small, possibly due to construction details or deeply corroded metal in the target, then the reflection may be too weak to recognize, and the target can be missed. In many cases, plastic, clay, asbestos concrete (transite), brick-lined, stone-lined, and other non-metallic utilities cannot be detected.

Spacing of the traverses is limited by access at many sites, but where flexibility of traverse spacing is possible, the spacing is adjusted to the size of the target. The GPR operator controls the spacing between lines, and the design of the survey is based on the dimensions of the smallest feature of interest. Targets with dimensions smaller than the spacing between GPR survey lines can be missed.

PUL. The PUL equipment cannot detect non-metallic utilities, such as pipes constructed of vitrified clay, transite, plastic, PVC, fiberglass, and unreinforced concrete, when used in passive mode alone. Such pipes can be detected if a wire tracer is installed with access to such tracer for transmission of a signal or where access (such as floor drains and clean-outs) permits insertion of a device on which a signal can be transmitted.

In some, but not all, cases, the subsurface utility designation equipment cannot detect metal utilities reliably under reinforced concrete because the signal couples onto the metal reinforcing in the concrete. Similarly, the method commonly cannot be used adjacent to grounded metal structures such as chain link fences and metal guardrails.

In congested areas, where several utilities are bundled or located within a short distance, the signal transmitted on one utility can couple onto adjacent utilities, and the accuracy of the location indicated by the instrument decreases.

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RESULTS

The geophysical survey was conducted using EM61, GPR and PUL methods across the accessible portions of the specified AOI. Figure 2 is a color contour plot of the EM61 survey, and Figure 3 shows the locations of the GPR traverses, the approximate location of the former structures, and an integrated interpretation of the geophysical data.

In addition to the site-wide survey, a more detailed GPR survey was conducted in the vicinity of 36 proposed boring locations within the limits of the site to detect subsurface utilities or other buried structures prior to drilling activities. The features detected with the GPR and PUL in the vicinity of the proposed boring locations were marked in the field at the time of the survey. We note that after the office data review of the GPR data, numerous utilities and other subsurface objects were detected that were not marked in the field at the time of the survey.

EM61. Interpretation of EM data is based on the relative response of the instrument in millivolts to local conditions. The instrument is not calibrated to provide an absolute measure of a particular property, such as the conductivity of the soil or the strength of the earth's magnetic field. Subsurface metal objects produce sharply defined positive anomalies when the EM61 is positioned directly over them. Acquiring data at short intervals along closely spaced lines, as was done at the subject site, provides high spatial resolution of the location and footprint of the targets. Thus, buried metal is recognized in contour plots of EM data by positive anomalies roughly corresponding to the dimensions of the buried metal.

Several high amplitude EM anomalies are evident in Figure 2. Surface metal objects typically produce high amplitude EM anomalies, and those EM anomalies attributed to the effects of surface metal structures such as the parking attendant booth, the fence, reinforced concrete pads, etc. are indicated as such in Figure 3. We note that the presence or absence of subsurface metal in such areas cannot be determined based on the EM data alone due to the anomaly caused by the surface metal object.

Many low to high amplitude anomalies with an EM response >100 mV, not associated with surface metal, are present throughout the site indicating the widespread presence of metal objects in the subsurface. We note that the 100-mV threshold was selected for this specific site based on the high background EM levels. In urban sites with fill such as the subject site, the threshold is typically higher than for undeveloped areas due to fill and other metal object present at the surface and subsurface at urban sites. These anomalies are attributed to buried metal and are shown as red hatched areas on Figure 3. The GPR records for such locations were carefully examined to determine the cause. Several low amplitude linear EM61 anomalies were detected and are attributed to possible metallic utilities. The EM detected utilities were also detected by the GPR and/or PUL methods.

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GPR. General. The locations of the GPR traverses and the integrated interpretation of the geophysical data are shown in Figure 3. Apparent GPR signal penetration was variable, with reflections received for about 25-45 nanoseconds. Based on velocity matching calibrations made for the area of interest, the GPR signal penetration is estimated to have been about 3-6 feet.

Subsurface Structures. GPR reflections typical for possible USTs were observed in the GPR records for the Site. Five possible USTs were detected, four of which were located under a portion of reinforced concrete pad near the fence along Peck Slip. The report for a previous geophysical survey at the site, conducted in 2015 by others, indicated the presence of a single tank at the same location. An additional UST was detected in the southwest portion of the site, but we note that there is no EM anomaly that coincides with the location of this possible UST and we therefore must conclude that this US is not of metal construction.

Numerous irregular reflections typical for widespread debris were present throughout the site making the GPR interpretation challenging by possibly obscuring potentially regularly shaped, deeper GPR reflections for former building foundations.

The GPR records exhibit linear reflections typical of utilities or former walls. Some of the alignments detected with the GPR in the parking lot coincide with walls from formers structures, and their location are shown with orange dashed lines on Figure 3. GPR reflections consistent with those expected for buried manhole covers were also identified. The GPR records corroborated the presence of steel in the concrete pads located at the entry on Pearl Street and along the fence adjacent to Peck Slip.

Whether buried structures such as USTs, utilities, foundations walls, etc. occur at a depth greater than the effective depth of investigation of the GPR (about 3-6 feet) or in areas inaccessible to the geophysical survey cannot be determined from the geophysical data.

Voids. The typical signature of air- or water-filled voids below an asphalt surface is a distinctive high-amplitude GPR reflection from the bottom of the pavement. The high-amplitude GPR reflection is due to the large contrast in dielectric properties between the pavement and the air gap. Moderate amplitude GPR reflections are interpreted to be caused by either thin air- or water filled voids, or poor coupling between the pavement and the soils below. Where good contact between the pavement and soils is present, there is typically no strong GPR reflector present.

Moderate- to high-amplitude GPR reflectors, indicating the presence of possible air-filled voids, were detected at several locations, primarily in the western portion of the site. Although possible voids were detected in the north-central portion of the parking lot, most of the possible voids were detected in and around the sunken section of the lot, including two small areas on the Water Street sidewalk. The locations of possible voids are shown in Figure 3.

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PUL. The PUL transmitter was attached to conduits located in and on the perimeter of the site such as light poles and fire hydrants, etc. We also conducted a PUL survey in "passive" mode to detect signals carried by utilities from nearby power lines. Several Electric utilities were detected in the parking lot and on the Pearl Street, Peck Slip and Beekman Street sidewalks. The locations of utilities detected by the PUL method were marked in the field at the time of the survey and are shown in Figure 3.

CONCLUSIONS

The geophysical survey was completed using a wide range of surveying techniques and instruments (EM61, GPR, and PUL) to identify significant subsurface anomalies. The EM survey can detect the presence of a metal object; however, it cannot be used to identify what the object is. The GPR survey is conducted over the same areas to identify reflections that may be typical of significant subsurface anomalies. The PUL is used to locate subsurface utility lines. The results of the EM, GPR, and PUL surveys are compared with each other in order to identify significant subsurface anomalies. Based on the geophysical survey performed by Hager-Richter Geoscience, Inc. at 250 Water Street, in New York, New York, we conclude the following significant subsurface anomalies were identified:

- Four possible USTs under a portion of reinforced concrete pad near the fence along Peck Slip
- One possible USTs near the corner of Beekman Street and Water Street
- Several possible utilities in the parking lot and in the adjacent sidewalks.

Additional findings:

- Multiple areas of moderate to high amplitude GPR reflectors, possibly indicating the
 presence of air-filled voids, were detected within the parking lot and on the Water Street
 sidewalk
- Multiple areas of low to high amplitude EM results (>100 mV) were detected in the parking lot attributed to buried metal
- Several possible buried manhole covers were detected in the parking lot
- Possible former building foundation walls

Whether buried structures such as USTs, utilities, foundations, etc. occur at a depth greater than the effective depth of investigation of the GPR (about 3-6 feet) or in areas inaccessible to the geophysical survey cannot be determined from the geophysical data.

LIMITATIONS ON USE OF THE REPORT

This letter report was prepared for the exclusive use of Langan Engineering & Environmental Services and its client (collectively, Client). No other party shall be entitled to rely on this Report, or any information, documents, records, data, interpretations, advice, or opinions given

to the Client by Hager-Richter Geoscience, Inc. (HRGS) in the performance of its work. The Report relates solely to the specific project for which HRGS has been retained and shall not be used or relied upon by the Client or any third party for any variation or extension of this project, any other project or any other purpose without the express written permission of HRGS. Any unpermitted use by the Client or any third party shall be at the Client's or such third party's own risk and without any liability to HRGS.

HRGS has used reasonable care, skill, competence, and judgment in the performance of its services for this project consistent with professional standards for those providing similar services at the same time, in the same locale, and under like circumstances. Unless otherwise stated, the work performed by HRGS should be understood to be exploratory and interpretational in character and any results, findings or recommendations contained in this Report or resulting from the work proposed may include decisions which are judgmental in nature and not necessarily based solely on pure science or engineering. It should be noted that our conclusions might be modified if subsurface conditions were better delineated with additional subsurface exploration including, but not limited to, test pits, soil borings with collection of soil and water samples, and laboratory testing.

Except as expressly provided in this limitations section, HRGS makes no other representation or warranty of any kind whatsoever, oral or written, expressed or implied; and all implied warranties of merchantability and fitness for a particular purpose, are hereby disclaimed.

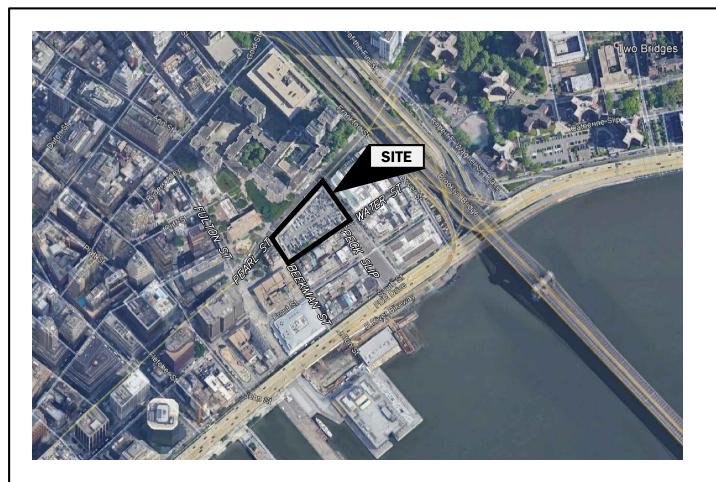
If you have any questions or comments on this letter report, please contact us at your convenience. It has been a pleasure to work with Langan on this project. We look forward to working with you again in the future.

Sincerely yours, Hager-Richter GEOSCIENCE, INC.

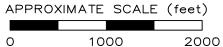
José Carlos Cambero Calzada, P.G. (NY 000899)

Senior Geophysicist

Attachments: Figures 1 - 3









NOTE:

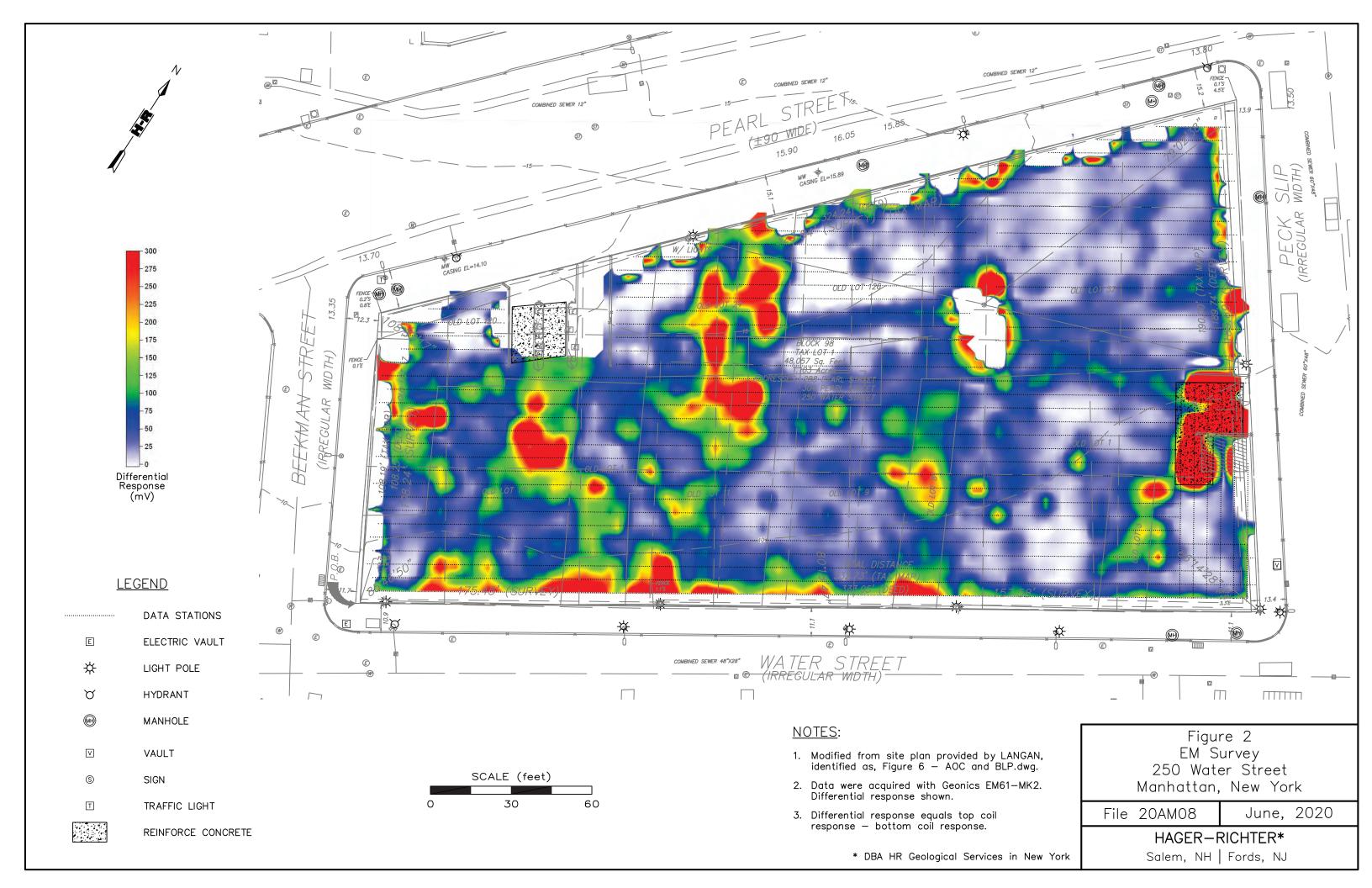
Modified from Google Earth Pro aerial photograph.

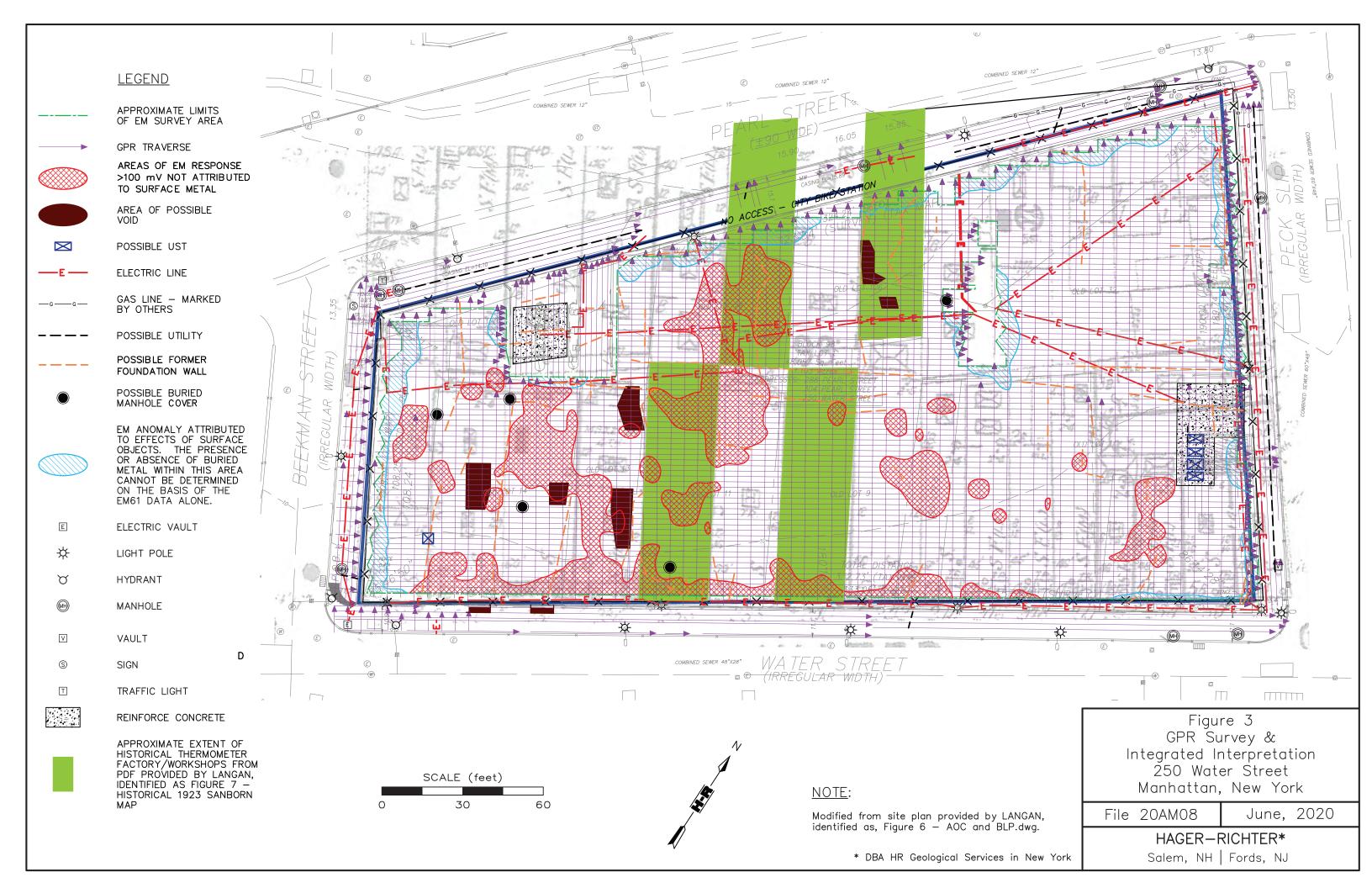
* DBA HR Geological Services in New York Figure 1 General Site Location 250 Water Street Manhattan, New York

File 20AM08

June, 2020

HAGER-RICHTER*
Salem, NH | Fords, NJ





APPENDIX C SOIL BORING LOGS

Log of Boring SB11/MW11 Sheet of 1 Project Project No. 170381202 250 Water Street Location Elevation and Datum 250 Water Street N/A Drilling Company Date Started Date Finished 8/19/20 AARCO Environmental Services, Corp. 8/19/20 **Drilling Equipment** Completion Depth Rock Depth Geoprobe 7822 DT 20 ft N/A Size and Type of Bit Disturbed Undisturbed Core Number of Samples 5 2-inch diameter closed point macro core N/A N/A Casing Diameter (in) Casing Depth (ft) Completion 24 HR. First Water Level (ft.) N/A N/A N/A N/A Drop (in) N/A Casing Hammer N/A Weight (lbs) Drilling Foreman N/A Rohn Dixon Sampler 4-foot long acetate liner Field Engineer Drop (in) NA Weight (lbs) Sampler Hammer NA Tyler Zorn Sample Data MATERIAL SYMBOL Remarks Elev PID (ppm) Depth Number (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) Sample Description (ft) Scale (ug/m³ (ppm) 0 Concrete 1.4 0.00 <LOD R1A (10"-30"): Grey to reddish brown medium SAND, 0.0 Collected SB11 0-2. MACROCORE some fine gravel, some fine sand, brick, concrete (dry) TM.GP. 0.0 [FILL] 꼰 0.0 0.00 <LOD 0.0 3 R2A (0"-26"): Grey to reddish brown medium SAND, 0.0 <LOD 0.00 some fine gravel, some fine sand, brick, concrete, wood 0.0 (moist) [FILL] 5 0.0 MACROCORE 48/48 0.0 ∇ 8 DISCIPLINE/ENVIRONMENTAL/GINTLOGS/170381202 იი R2B (26"-48"): Brown to dark brown fine SAND, trace <LOD 0.00 medium sand (wet) [FILL] 0.0 Collected SB11 6-8. 0.0 0.0 <LOD 0.00 0.0 0.0 R3A (12"-48"): Brown to grey fine SAND, some silt, MACROCORE trace medium sand, peat (wet) [SM] 0.0 83 0.0 <LOD 0.00 0.0 0.9 0.0 12 R4A (0"-48"): Grey to dark grey fine SAND, some silt, 0.0 0.00 <LOD trace clay, peat (wet) [SM] ILANGAN.COMIDATAINYIDATA2\170381202\PROJECT DATAI 0.0 13 0.0 MACROCORE 1.4 Ρ4 0.0 0.00 <LOD 0.0 15 0.0 0.0 R5A (0"-48"): Brown to grey fine SAND, some silt, trace 0.0 0.00 <LOD medium sand (wet) [SP] Collected SB11_18-20. 0.0 End of boring at 20 feet below 0.0 grade surface (bgs). Borehole 48/48 0.0 backfilled with soil cuttings to R5 18 0.0 15 feet bgs. Installed 0.00 <LOD monitoring well MW11 in 0.0 borehole to 15 feet bgs with 0.0 screen between 5 and 15 feet 0.0

DISCIPLINE/ENVIRONMENTAL/GINTLOGS/170381202

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Log of Boring **SB12** Sheet of 1 Project Project No. 250 Water Street 170381202 Elevation and Datum Location 250 Water Street N/A Drilling Company Date Started Date Finished AARCO Environmental Services, Corp. 8/20/20 8/20/20 **Drilling Equipment** Completion Depth Rock Depth Geoprobe 7822 DT 20 ft N/A Size and Type of Bit Disturbed Undisturbed Core Number of Samples 2-inch diameter closed point macro core 5 N/A N/A Casing Diameter (in) Casing Depth (ft) Completion 24 HR. First Water Level (ft.) N/A N/A 17 N/A N/A Drop (in) N/A Casing Hammer N/A Weight (lbs) Drilling Foreman N/A Rohn Dixon Sampler 4-foot long acetate liner Field Engineer Drop (in) NA Weight (lbs) Sampler Hammer NA Tyler Zorn Sample Data MATERIAL SYMBOL Remarks Elev Depth PID (ppm) Number XRF Sample Description (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) (ft) Scale (ppm) R1A (0"-34"): Grey to reddish brown fine SAND, some 0.0 <LOD fine gravel, some medium sand, brick, concrete (dry) 0.0 [FILL] 0.0 <LOD 0.0 Ξ Collected SB12 1-3. 0.0 <LOD 0.0 3 0.0 MACROCORE <LOD 0.0 0.0 <LOD 0.0 R2A (14"-48"): Grey to reddish brown fine SAND, some Collected SB12 6-8. fine gravel, some medium sand, brick, concrete (dry) 0.0 <LOD [FILL] 0.0 83 0.0 R3A (26"-36"): Grey to reddish brown fine SAND, some <LOD fine gravel, trace medium sand, brick, wood (dry) [FILL] 0.0 R3B (36"-48"): Brown to dark grey fine SAND, trace 0.0 <I OD medium sand, trace silt (moist) [SP-SM] 0.0 12 0.0 <LOD R4A (10"-48"): Brown fine SAND, trace medium sand 13 0.0 (moist) [SP] 0.0 <LOD 8 0.0 0.0 <LOD 15 Collected SB12_14-16. 0.0 0.0 <LOD 0.0 R5A (12"-48"): Brown fine SAND, trace medium sand 0.0 (wet) [SP] <LOD End of boring at 20 feet below 36/48 R5 grade surface. Borehole 0.0 18 backfilled with soil cuttings and 0.0 <LOD clean sand to grade and 0.0 19 sealed with concrete. 0.0 <LOD

Log of Boring **SB13** Sheet of 1 Project Project No. 250 Water Street 170381202 Elevation and Datum Location 250 Water Street N/A Drilling Company Date Started Date Finished 8/18/20 AARCO Environmental Services, Corp. 8/18/20 Drilling Equipment Completion Depth Rock Depth Geoprobe 7822 DT 20 ft N/A Size and Type of Bit Disturbed Undisturbed Core Number of Samples 2-inch diameter closed point macro core 5 N/A N/A Casing Diameter (in) Casing Depth (ft) Completion 24 HR. First Water Level (ft.) N/A N/A 16 N/A N/A Drop (in) N/A Casing Hammer N/A Drilling Foreman Weight (lbs) N/A Rohn Dixon Sampler 4-foot long acetate liner Field Engineer Drop (in) NA Weight (lbs) Sampler Hammer NA Thomas Schiefer Sample Data MATERIAL SYMBOL Remarks Elev Depth Number (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) Sample Description (ft) Scale (ug/m³ (ppm) R1A (3"-27"): Brown fine SAND, some fine gravel, brick, 0.0 0.00 <LOD wood, asphalt (dry) [FILL] 0.0 Collected SB13_0-2. MACROCORE 0.0 꼰 0.0 0.0 <LOD 0.00 3 5 Collected SB13_4-6. MACROCORE 0.0 R2A (0"-22"): Brown medum SAND, some fine gravel, 2.00 <LOD some fine sand, brick, wood (dry) [FILL] 0.0 0.0 0.0 0.00 <LOD 83 0.0 R3A (0"-22"): Brown fine SAND, some fine gravel, brick, 0.00 <LOD concrete, wood (dry) [FILL] 0.0 0.0 0.0 <LOD 12 ILANGAN.COMIDATAINYIDATA2\170381202\PROJECT DATAI 13 Collected SB13 12-14. 0.0 R4A (0"-30"): Brown fine to medium SAND, some fine Ρ4 gravel (dry) [SP] 0.0 0.00 <LOD 0.0 15 0.0 0.0 0.0 0.00 <LOD R5A (0"-48"): Brown fine SAND, some coarse sand, 0.0 some silt (wet) [SW] 17 0.0 0.0 End of boring at 20 feet below 48/48 R5 grade surface. Borehole 0.0 18 0.00 <LOD backfilled with soil cuttings and 0.0 clean sand to grade and 0.0 19 sealed with asphalt. 0.0 0.00 <LOD

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DISCIPLINE/ENVIRONMENTAL/GINTLOGS/170381202

\\LANGAN.COM\\DATA\\NY\\DATA2\170381202\\PROJECT DATA\\\

Log of Boring **SB14** Sheet of 1 Project Project No. 170381202 250 Water Street Elevation and Datum Location 250 Water Street N/A Drilling Company Date Started Date Finished AARCO Environmental Services, Corp. 8/19/20 8/19/20 **Drilling Equipment** Completion Depth Rock Depth Geoprobe 7822 DT 20 ft N/A Core Size and Type of Bit Disturbed Undisturbed Number of Samples 5 N/A 2-inch diameter closed point macro core N/A Casing Diameter (in) Casing Depth (ft) Completion 24 HR. First Water Level (ft.) N/A N/A N/A N/A Drop (in) N/A Casing Hammer N/A Weight (lbs) Drilling Foreman N/A Rohn Dixon Sampler 4-foot long acetate liner Field Engineer Drop (in) NA Weight (lbs) Sampler Hammer NA Tyler Zorn Sample Data MATERIAL SYMBOL Remarks Elev Depth XRF Sample Description (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) (ft) Scale (ug/m³ (ppm) R1A (0"-24"): Grey to reddish brown fine SAND, some 0.0 0.00 <LOD fine gravel, brick, concrete (moist) [FILL] 0.0 Collected SB14 0-2. 0.0 꼰 0.0 <LOD 3 5 R2A (24"-48"): Grey to reddish brown fine SAND, some <LOD 0.00 0.0 fine gravel, brick, concrete (moist) [FILL] 0.0 0.0 0.00 <LOD $\overline{\Delta}$ 0.0 Collected SB14 8-10. R3A (12"-48"): Light brown to brown fine SAND, some medium sand, trace coarse sand (wet) [SP] 0.0 83 0.0 0.00 <LOD 0.0 0.0 .0 12 R4A (0"-48"): Light brown to grey fine SAND, some 0.0 0.00 <LOD medium sand (wet) [SP] 0.0 13 0.0 0.0 Ρ4 0.0 0.00 <LOD 0.0 15 0.0 0.0 Collected SB14_18-20. R5A (0"-48"): Light brown to grey fine SAND, some 0.0 0.00 <LOD medium sand (wet) [SP] 0.0 0.0 End of boring at 20 feet below 48/48 0.0 R5 grade surface. Borehole 18 0.0 0.00 <LOD backfilled with soil cuttings and clean sand to grade and 0.0 sealed with concrete. 0.0

0.0

/25/2021 8:41:32 AN

DISCIPLINE/ENVIRONMENTAL/GINTLOGS/170381202

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Log of Boring SB15/MW15 Sheet of 1 1 Project Project No. 170381202 250 Water Street Location Elevation and Datum 250 Water Street N/A **Drilling Company** Date Started Date Finished 8/19/20 AARCO Environmental Services, Corp. 8/19/20 Drilling Equipment Completion Depth Rock Depth Geoprobe 7822 DT 20 ft N/A Size and Type of Bit Disturbed Undisturbed Core Number of Samples 2-inch diameter closed point macro core 5 N/A N/A Casing Diameter (in) Casing Depth (ft) Completion 24 HR. First Water Level (ft.) N/A 18 N/A N/A N/A Drop (in) N/A Casing Hammer N/A Weight (lbs) Drilling Foreman N/A Rohn Dixon Sampler 4-foot long acetate liner Field Engineer Drop (in) NA Weight (lbs) Sampler Hammer NA Tyler Zorn Sample Data MATERIAL SYMBOL Remarks Elev Depth PID (ppm) Number XRF Sample Description (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) (ft) Scale (ug/m³ (ppm) 0 R1A (0"-32"): Grey to reddsh brown medium SAND, 0.0 0.00 <LOD some fine gravel, some fine sand, brick, concrete (dry) 0.0 Collected SB15 0-2. 0.0 MACROCORE 0.00 <LOD 32/48 0.0 꼰 0.0 0.00 <LOD 0.0 3 5 MACROCORE 0.0 0.00 <LOD R2A (26"-48"): Grey to reddish brown medium SAND, some fine gravel, some fine sand, brick, concrete, wood 0.0 (dry) [FILL] 0.0 0.00 <LOD 0.0 0.0 0.00 <LOD R3A (10"-24"): Grey to reddish brown medium SAND, 0.0 Collected SB15 8-10. some fine gravel, some fine sand, brick, concrete (moist) MACROCORE 0.0 <LOD 0.00 [FILL] 83 0.0 R3B (24"-32"): Grey to black fine SAND, some fine gravel, brick, glass (mosit) [FILL] 0.0 <LOD 0.00 R3C (32"-48"): Light brown medium SAND, some 0.0 coarse SAND, trace fine sand (moist) [SP] 0.0 12 13 MACROCORE 8 R4B (24"-48"): Light brown medium SAND, some 0.0 0.97 <LOD coarse sand, trace fine sand (moist) [SP] 0.0 15 Collected SB15_14-16. 0.0 <LOD 0.58 0.0 16 R5A (0"-48"): Light brown to brown medium SAND, 0.0 0.00 <LOD some fine sand (moist) [SP] 0.0 0.0 0.00 <LOD End of boring at 22 feet below 48/48 0.0 ∇ R5 grade surface (bgs). 18 0.0 0.00 <LOD Monitoring well MW15 installed in borehole to 22 feet 0.0 bgs with screen between 12 0.0 0.00 <LOD and 22 feet bgs. 0.0

	VLJ/	1/V		Lo	og o	of B	oring			SB	16			Sheet	1	of	1
Project						Pro	ject No.										
Location	250 Water Street					Ele	vation a	nd Da	atum		381202	2					
Drilling Compa	250 Water Street					Dat	te Starte	d		N/A			Date	Finished			
Drilling Equipr	AARCO Environmenta	al Services, Corp.				Cor	mpletion	Dep	th	7.	/30/20		Rock	Depth	-	7/30/20	
	Geoprobe 7822 DT						•	·			10 ft			•		N/A	
Size and Type	2-inch diameter close	d point macro cor				Nur	mber of	Samı	ples	Dist	urbed	3		ndisturbed	N/A	Core	N/A
Casing Diame	N/A	_		Casing Depth (ft) N/A	ίI		ater Leve			First		N/A		ompletion <u> </u>	N/A	24 HR. <u>V</u>	N/A
Casing Hamm	^{ler} N/A	Weight (lbs)	N/A	Drop (in)	4	Dril	lling Fore	emar									
Sampler	4-foot long acetate line					Fie	ld Engin	eer	S	ergio	Magar	na					
Sampler Ham	mer NA	Weight (lbs)	NA	Drop (in)	<u> </u>				Α		Heath						
MATERIAL SYMBOL (tt)	Sa	ample Descripti	on		PII (ppi		Depth Scale	Number	Туре		Penetr. da resist ald BL/6in C	ata Jerome (ug/m³)	XRF (ppm)	(Drilling) Fluid Lo	Rem ng Fluid, D ss, Drilling		asing, ce. etc.)
Elev (ft)	Asphalt R1A (0-24"): Brown (dry) [FILL] R2A (0-28") Brown wood (dry) [FILL] R3A (0-24") Brown wood (dry) [FILL]	fine SAND, brick,	, concre	ete, coal,	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1	R3 R2 R1	MACROCORE MACROCORE MACROCORE	24/24 28/48 24/48 R	P. P	0.04 0.02 0.07 0.09	<loe< th=""><th>End o grade Boreh cutting</th><th>f boring surface ole back gs and c and sea</th><th>at 10 fee (refusal filled wit lean san</th><th>et below). h soil Id to</th></loe<>	End o grade Boreh cutting	f boring surface ole back gs and c and sea	at 10 fee (refusal filled wit lean san	et below). h soil Id to

	1	/V <i>L</i>	1/V		Lo	g of	Boring			SB1	16R			Sheet	1	of	1
Project		250 Water Street				Р	roject No			170	201202						
Location		250 Water Street				E	levation a	and D	atum	1700	381202						
Drilling Con	mpa	250 Water Street				D	ate Starte	ed		N/A			Date I	Finished			
		AARCO Environment	tal Services, Corp.							8	/18/20				8/1	8/20	
Drilling Equ	uipm	ent Geoprobe 7822 DT				C	ompletio	n Dep	oth		12 ft		Rock	Depth		N/A	
Size and Ty	уре	of Bit				- N	lumber of	Sam	ples	Dist	urbed		Un	disturbed		ore	N1/A
Casing Dia	met		ed point macro cor		asing Depth (ft)	1,4	Vater Lev			First	t	3		mpletion	24	HR.	N/A
Casing Han	nme	N/A PKI/A	Weight (lbs)	N/A	Drop (in)	, D	rilling Fo	•	•	Ι <u>¯</u>		N/A	Ì	N/A	\ <u>'</u>	Ţ I	N/A
Casing Han		4-foot long acetate lin	il ner	IN/A	IN/A		ield Engii	neer	F	Rohn I	Dixon						
Sampler Ha	amn		Weight (lbs)	NA	Drop (in) NA		ieiu Liigii	ICCI	Т	homa	as Schie	efer					
MATERIAL SYMBOL (†	ev.	_				PID	Depth	į.			mple Da			F	Remar	ks	
MATERIAL SYMBOL	ft)	S	ample Descripti	on		(ppm)			Type	Recov (in)	Penetr. resist BL/6in	lerome (ug/m³)	XRF (ppm)	(Drilling Fluid Loss, D	uid, Dept rilling Re	n of Casir sistance,	ng, , etc.)
MANGAN COMIDA LANY TUALACT 70381 ZUZIPROJECT DATAL DISCIPLINEEN VIRONMEN ALLGINI EGOST 70381 ZUZ EN TEKPRISE LA UPDA IED 1 MI GPJ 1725)		Asphalt R1A (3"-24"): Brow asphalt (dry) [FLL] R2A (0"-30"): Brow	n fine SAND, bric	k (dry) [F	FILL]	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	1 · · · · · · · · · · · · · · · · · · ·	R3 R2 R2 R1	ORE MACROCORE MACI	30/48 30/48 24/48		0.00 0.00 0.00 0.00 0.00	0.05 0.04 0.01 0.10 0.03	Collected Collected End of born grade surful backfilled clean sans sealed with	SB16_ ring at face (be with so	10-12. 12 feet gs). Bor oil cuttin ade and	rehole igs and
MLANGAN, COMIDA LANY NA LAZI 7038 LZOZIPK							16 - 17 - 18 - 19 - 19 - 19 - 19 - 19 - 19 - 19										



Log of Boring SB17/MW17 Sheet of 2 Project Project No. 250 Water Street 170381202 Elevation and Datum Location 250 Water Street N/A Drilling Company Date Started Date Finished AARCO Environmental Services, Corp. 7/31/20 7/31/20 **Drilling Equipment** Completion Depth Rock Depth Geoprobe 7822 DT 32 ft N/A Size and Type of Bit Disturbed Undisturbed Core Number of Samples N/A 2-inch diameter closed point macro core 8 N/A Casing Diameter (in) Casing Depth (ft) Completion 24 HR. First Water Level (ft.) N/A N/A N/A N/A 11 Drop (in) N/A Casing Hammer N/A Weight (lbs) Drilling Foreman N/A Sergio Magana Sampler 4-foot long acetate liner Field Engineer Drop (in) NA Weight (lbs) Sampler Hammer NA Adrian Heath Sample Data MATERIAL SYMBOL Remarks Elev PID (ppm) Depth Number Penetr. resist BL/6in XRF (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) Sample Description (ft) Scale (ug/m³ (ppm) 0 0.0 R1A (0"-31"): Reddish brown fine SAND, trace silt, 0.07 <LOD brick, concrete (dry) [FILL] 0.0 Collected SB17_0-2. MACROCORE 0.0 꼰 0.0 0.0 <LOD 0.09 3 5 MACROCORE DISCIPLINE/ENVIRONMENTAL/GINTLOGS/170381202 0.0 R2A (0"-15"): Light brown fine SAND, trace medium 0.10 <LOD sand, brick (dry) [FILL] 0.0 0.0 <LOD 0.08 9 MACROCORE 83 Petroleum-like odors and staining from 10 to 28 feet 6.4 <LOD 0.07 R3A (0"-4"): Light brown fine SAND, trace medium below grade surface (bgs). sand, brick (dry) [FILL]
R3B (4"-19"): Brown-grey fine SAND, some fine gravel 11.8 27 0.05 <LOD (wet) [SP] 12 13.4 0.14 <LOD \\LANGAN.COM\\DATA\\NY\\DATA2\170381202\\PROJECT DATA\\\ 13 MACROCORE Ρ4 57.1 R4A (0"-17"): Blackish grey fine SAND (wet) [SP] 0.09 <LOD 15 86 Collected SB17_14-16 6.0 16 4.5 0.12 <LOD 17 5.0 R5A (0"-35"): Greyish brown fine SAND (wet) [SP] 6.4 35/48 R5 18 3.9 <LOD 5.0 2.9 19 1.7



Log of Boring SB17/MW17 Sheet 2 of 2 Project Project No. 250 Water Street 170381202 Location Elevation and Datum 250 Water Street N/A Sample Data Remarks Elev PID (ppm) Depth Scale Sample Description Jerome (ug/m³) XRF (ppm) (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) (ft) 20 1.3 <LOD 21 1.1 R6A (0"-30"): Greyish brown fine SAND (wet) [SP] **R**6 1.0 22 <LOD 0.06 1.0 23 0.9 1/25/2021 8:41:38 AM 0.7 0.07 <LOD 24 25 1.0 R7A (0"-38"): Greyish brown fine SAND (wet) [SP] MACROCORE 1.1 R_7 0.8 26 0.06 <LOD ||LANGAN.COM||DATAINYIDATA2\170381202|PROJECT DATA|_DISCIPLINE.ENVIRONMENTAL\GINTLOGS\170381202_ENTERPRISE_LH_UPDATED_TM.GPJ 0.9 27 1.1 8.0 <LOD 0.09 28 29 MACROCORE 82 30 0.0 Collected SB17_30-32. 0.10 <LOD R8A (0"-24"): Greyish brown fine SAND (wet) [SP] 0.4 31 0.0 End of boring at 32 feet bgs. Monitoring well MW17 0.4 installed in borehole to 17 feet 32 0.0 bgs with screen between 7 and 17 feet bgs. 33 34 35 36 37 38 39 43

DISCIPLINE/ENVIRONMENTAL/GINTLOGS/170381202

\\LANGAN.COM\\DATA\\NY\\DATA2\170381202\\PROJECT DATA\\\

Log of Boring **SB18** Sheet of 1 Project Project No. 250 Water Street 170381202 Elevation and Datum Location 250 Water Street N/A **Drilling Company** Date Started Date Finished 7/30/20 7/30/20 AARCO Environmental Services, Corp. Drilling Equipment Completion Depth Rock Depth Geoprobe 7822 DT 20 ft N/A Size and Type of Bit Disturbed Undisturbed Core Number of Samples 2-inch diameter closed point macro core 5 N/A N/A Casing Diameter (in) Casing Depth (ft) Completion 24 HR. First Water Level (ft.) N/A 16.5 N/A N/A N/A Drop (in) N/A Casing Hammer N/A Weight (lbs) Drilling Foreman N/A Sergio Magana Sampler 4-foot long acetate liner Field Engineer Drop (in) NA Weight (lbs) Sampler Hammer NA Ashley Stappenbeck Sample Data MATERIAL SYMBOL Remarks Elev Depth Number resist BL/6in XRF (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) Sample Description (ft) Scale (ug/m³ (ppm) 0 0.0 R1A (0-20"): Brown fine SAND, trace coarse sand, trace 0.04 <LOD medium sand, brick (dry) [FILL] 0.0 0.09 <LOD Collected SB18 0-2. MACROCORE 0.0 꼰 3 5 MACROCORE R2A (0-18"): Brown fine SAND, trace coarse sand, trace 8 0.0 <LOD 0.10 medium sand, brick (dry) [FILL] 0.0 0.0 Collected SB18 7-8. R2B (18-27"): Light brown fine SAND, some medium 0.0 sand (dry) [SP] 8 0.0 <LOD 0.17 9 83 0.0 <LOD R3A (0-20"): Light brown fine SAND, some medium 0.21 0.0 sand (dry) [SP] 0.0 11 0.0 R3B (20-25"): Brown fine SAND (dry) [SP] 12 0.0 0.03 <LOD 13 R4A (0-21"): Brown fine SAND, trace silt, trace clay 0.0 (dry) Ρ4 0.0 <LOD 0.01 0.0 15 0.0 R4B (21-33"): Light brown fine SAND, trace medium sand (dry) [SP] 0.0 16 0.0 Clay lenses from 19 to 20 feet 0.05 <LOD R5A (0-32"): Brown fine SAND, trace medium sand below grade surface (bgs).
Collected SB18_18-20. 0.0 (wet) SP 17 0.0 0.0 End of boring at 20 feet below 43/48 R5 grade surface. Borehole 0.0 18 0.01 <LOD backfilled with soil cuttings and 0.0 clean sand to grade and 0.0 19 sealed with asphalt. R5B (32-43"): Brown fine SAND, trace medium sand, 0.0 trace clay (wet)

0.03

<LOD

Log of Boring Sheet of 1 Project Project No. 250 Water Street 170381202 Elevation and Datum Location 250 Water Street N/A Drilling Company Date Started Date Finished AARCO Environmental Services, Corp. 7/29/20 7/29/20 Drilling Equipment Completion Depth Rock Depth Geoprobe 7822 DT 20 ft N/A Size and Type of Bit Disturbed Undisturbed Core Number of Samples N/A 2-inch diameter closed point macro core 5 N/A Casing Diameter (in) Casing Depth (ft) Completion 24 HR. First Water Level (ft.) N/A N/A 16 N/A N/A Drop (in) N/A Casing Hammer N/A Drilling Foreman Weight (lbs) N/A Sergio Magana Sampler 4-foot long acetate liner Field Engineer Drop (in) NA Weight (lbs) Sampler Hammer NA Ashley Stappenbeck Sample Data MATERIAL SYMBOL Remarks Elev PID (ppm) Depth Number (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) Sample Description (ft) Scale (ppm) 0 Asphalt 0.0 R1A (0-21"): Brown fine SAND, trace coarse sand, brick, coal, metal (dry) [FILL] 0.0 0.02 <LOD Collected SB19 0-2. MACROCORE 0.0 꼰 0.0 <LOD 0.04 3 5 MACROCORE R2A (0-6"): Brown fine SAND, trace coarse sand, coal, DISCIPLINE/ENVIRONMENTAL/GINTLOGS/170381202 brick (dry) [FILL] 0.0 <LOD 0.05 R2B (6-28"): Light brown fine SAND, some medium 0.0 sand (dry) [SP] 0.0 Collected SB19 6-8. 0.0 8 0.0 0.05 <LOD 9 R3A (0-28"): Light brown fine SAND, some medium 83 0.0 <LOD 0.03 sand, trace clay (dry) 0.0 0.0 11 0.0 12 0.0 0.02 <LOD \\LANGAN.COM\\DATA\\NY\\DATA2\170381202\\PROJECT DATA\\\ 13 R4A (0-28"): Light brown fine SAND, some medium 8 0.0 0.03 <LOD sand, trace clay (dry) 0.0 15 0.0 0.0 0.0 0.10 <LOD R5A (0-48"): Brown fine SAND, some medium sand 0.0 (wet) [SP] 17 0.0 Collected SB19_18-20. 0.0 48/48 End of boring at 20 feet below R5 0.0 18 0.00 <LOD grade surface (bgs). Borehole 0.0 backfilled with soil cuttings and clean sand to grade and 0.0 19 sealed with asphalt. 0.0 <LOD 0.00

	IVL		1/V		Lo	g of	Bori	ng			SB	320			Sheet	1	of	:
Project						Р	rojec	t No.										
Location	250 Water Stre	et				E	levati	on ar	nd Da	atum		381202						
	250 Water Stre	et									N/A							
Orilling Comp	•					D	ate S	Starte	d					Date	Finished			
Drilling Equip	AARCO Enviror ment	ment	al Services, Cor	р.		С	compl	etion	Dep	th	7.	/30/20		Rock	Depth		7/30/20	
5 1 1	Geoprobe 7822	DT					·					32 ft			•		N/A	
Size and Type	e of Bit 2-inch diameter	close	d point macro co	ore		N	lumbe	er of S	Samp	oles	Dist	urbed	8	Ur		NI/A	Core	NI/A
Casing Diame	eter (in)	CIUSC	a point macro co	ле 	Casing Depth (ft		Vater	Leve	l (ft)		First				ompletion			
Casing Hamn	N/A ner		Weight (lbs)		Drop (in)	<u> </u>	rilling		` '		Ī	-	17	_	<u>Y</u>	N/A	Ī	N/A
Sampler				N/A	N/A	١	,	•			ergio	Magana	a					
Sampler Ham	4-foot long acet		er Weight (lbs)		Drop (in)		ield E	Engine	eer									
.	N N	Α	3 ()	NA	NA		1		1	A	shley. Saı	/ Stappe mple Dat	nbecl a	k	1			
SYMBOL (tt)		S	ample Descrip	tion		PID (ppm)		epth	per)e			erome	XRF	(Drilling			asina
MATE (ft)			p.o 2 000p			(ррііі)		cale	Number	Ţ	Rec (ir	Penetr. resist BL/6in	ıg/m³)	(ppm)	Fluid Los	s, Drillin	g Resistar	nce, etc.)
	Asphalt	Draw	fine CAND tra		as sand briek	0.0	E	0 -										
	(dry) [FILL]	orowr	n fine SAND, trad	ue coars	se sanu, drick	0.0	E	1 -		ļ.,			0.02	<lod< td=""><td>Collect</td><td>ed SR1</td><td>20 0-2</td><td></td></lod<>	Collect	ed SR1	20 0-2	
\bowtie						0.0	Ė	3		CORE	φ		J.02	LOD	00,1000	ou 02.	_0_0	
						0.0	E	2 -	조	MACROCORE	26/48							
						0.0	E	3 -		MA			0.00	<lod< td=""><td></td><td></td><td></td><td></td></lod<>				
							Ė	-										
							Ė	4 -	-									
							Ė	-							Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) Collected SB20_0-2. Petroleum-like odors and staining from 9.5 to 28 feet below grade surface (bgs). Collected SB20_10-12.			
							F	5 -		SE.								
		Browr	fine SAND, trac	ce coars	se sand, brick	0.0	Ė	6 -	22	MACROCORE	29/48							
\bowtie	(dry) [FILL]					0.0	Ė	-	"	ACR	29		0.00	<lod< td=""><td></td><td></td><td></td><td></td></lod<>				
						0.0	Ė	7 -	1	Σ								
						0.0	Ė	-										
						0.0	F	8 -					0.03	<lod< td=""><td></td><td></td><td></td><td></td></lod<>				
							E	9 -										
	R3A (0-14"): (dry) [FILL]	Browr	n fine SAND, trad	ce coars	se sand, brick	18.7	E	-		CORE	ω				Petrole	um-lik	e odors	and
		ا ماند : ا	hanner fine CAN	ID (-l i)	IODI	21.4	Ŀ	10 -	22	ROC	34/48		0.00	<lod< td=""><td>staining</td><td>g from</td><td>9.5 to 2</td><td>8 feet</td></lod<>	staining	g from	9.5 to 2	8 feet
	K3B (14-34)	Ligni	brown fine SAN	ND (ary)	[37]	26.4				MACRO	()							
						23.9	Е	11 -							Collect	ed SB2	20_10-1	2.
						24.5 16.7	L .	12 -					0.00	<lod< td=""><td></td><td></td><td></td><td></td></lod<>				
							F						5.00	~LUD	Ί			
							F	13 -	}	Ę,								
						25.5	E.	1.1	7.4 7.4 7.4	MACROCORE	26/48							
	R4A (0-26"): sand (dry) [SI		orown fine SANI	D, trace	medium	30.3 41.5		14 -	2	ACRC	26/		0.00	<lod< td=""><td></td><td></td><td></td><td></td></lod<>				
× × 1	Jana (ary) [O	1				37.7		15 -	1	Ž								
						53.5	E	-	1									
	R5A (0-48"):	Browr	n to dark grey fin	e SAND	O (wet) [SP]	162.6	E.	16 -					0.00	<lod< td=""><td></td><td></td><td></td><td></td></lod<>				
					$ar{\Sigma}$	2.7	Ė.	- 17 –										
					_	3.5 4.9	Ė	-		ORE								
						40.7	<u></u>	18 -	R5	MACROCORE	48/48		0.00	<lod< td=""><td></td><td></td><td></td><td></td></lod<>				
						190	-	=		MAC	4			_55				
						200.7	Е	19 -										
						170.4	‡ <u> </u>	-	1									



Log of Boring **SB20** Sheet 2 of 2 Project Project No. 250 Water Street 170381202 Location Elevation and Datum 250 Water Street N/A Sample Data Remarks Elev Depth Scale Sample Description Jerome (ug/m³ XRF (ppm) (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) (ft) (ppm) 20 223.1 <LOD 370.4 R6A (0-45"): Grey to dark grey fine SAND, some medium sand (wet) [SP] 266.7 21 Collected SB20_20-22. 299.1 225.1 22 0.00 10.3 337.6 23 286.5 1/25/2021 8:41:48 AM 88.9 24 64.6 0.00 8.9 R7A (0-48"): Grey brown fine SAND, trace medium sand (wet) [SP] 25 1.3 MACROCORE R_7 26 ||LANGAN.COM||DATAINYIDATA2\170381202|PROJECT DATA|_DISCIPLINE.ENVIRONMENTAL\GINTLOGS\170381202_ENTERPRISE_LH_UPDATED_TM.GPJ 27 1.7 0.00 <LOD 28 R8A (0-48"): Brown fine SAND, trace medium sand (wet) [SP] 29 1.7 0.00 <LOD 48/48 82 30 0.0 Collected SB20_30-32. 31 0.0 End of boring at 32 feet bgs. Borehole backfilled with soil cuttings and clean sand to 32 0.0 0.02 <LOD grade and sealed with asphalt. 33 34 35 36 37 38 39 43

	_/	4	/V <i>G</i> /	1/V		Lo	g of E	Boring			SB	321			Sheet	1	of	1
Pro	oject		250 Water Street				Pr	oject No	•		170	20420	,					
Lo	cation		250 Water Street				Ele	evation a	and D	atum		381202	<u> </u>					
Dri	illing C	omna	250 Water Street				Da	ate Starte	-d		N/A			Date I	Finished			
		-	AARCO Environmenta	al Services, Corp.							7	/30/20				7/	30/20	
Dri	illing E	quipn		·			Co	ompletio	n Dep	oth		40.64		Rock	Depth		NI/A	
Z Siz	ze and	Туре					Nı	ımber of	Sam	nlae	Dist	10 ft urbed		Un	disturbed		N/A Core	
NE Ca	sing D	iame	2-inch diameter close ter (in)	d point macro cor		asing Depth (ft)					First	t	3	Co	N/.		24 HR.	N/A
	sing H	amm	N/A	Weight (lbs)		N/A Drop (in) N/A	, VV Dr	ater Lev	` '			-	N/A]	<u> </u>	A	$ar{ar{\Lambda}}$	N/A
	mpler	amm			N/A	N/A					ergio	Magar	na					
: Sa	mpler	Hamr	4-foot long acetate lin	er Weight (lbs)	NA	Drop (in) NA		eld Engir	neer	٨	ablas	, Stann	onhoo	l,				
52 AM	L'A		INA		INA	INA					Sa	/ Stapp mple Da	ata	·K			rko	
8:41:	SYMBOL	Elev. (ft)	Sa	ample Descripti	on		PID (ppm)	Depth Scale		Type	ecov.	Penetr. resist BL/6in	Jerome (ug/m³)	XRF (ppm)	(Drilling F Fluid Loss, [Rema		ing,
1/25/2021 8:41:52 AM	≥"		Asphalt					<u> </u>	ž		æ	g = a	,	,	Tiulu Loss, I	Jilling 1	Constante	
\$ \$ \$	XX		R1A (0-24"): Dark b			arse sand,	0.0	Ė,	=									
			trace medium sand	, Drick, Coal (dry)	[FILL]		0.0	- 1 · -	3	ORE			0.04	4 00				
	XX						0.0	_ 2 -	₹ 2	MACROCORE	24/48		0.04	<lod< td=""><td></td><td></td><th></th><td></td></lod<>				
	XX						0.0	- 3 -	=	MAC			0.05	<lod< td=""><td></td><td></td><th></th><td></td></lod<>				
<u> </u>	\bowtie								=									
								- 4	╪									
	\bowtie							- - 5 -	Ē									
	\bowtie							- 3	=	ORE	_							
8	\bowtie		R2A (0-28"): Dark b				0.0	6 -	₹ 22 23	MACROCORE	28/48		0.07	<lod< td=""><td></td><td></td><th></th><td></td></lod<>				
	\bowtie		trace medium sand,	, trace silt, brick, o	coal (dry)	[FILL]	0.0	- - - 7 -	3	MAG								
\bigotimes	\bowtie						0.0	Ė '	=									
Ĭ₩							42.9	8 -]	Ж			0.04	<lod< td=""><td></td><td></td><th></th><td></td></lod<>				
2 2 2 2 3 3 4 3 4 3 4 3 4 3 4 3 4 3 4 3			R3A (0-15"): Brown	i fine SAND, trace	e medium	sand,	2.7	- - 9 -	33	ACROCORE	15/24							
	\bowtie		trace coarse sand, v	wood, brick (dry) [FILL]	·	0.0	-	₫"		15		0.08	<lod< td=""><td></td><td></td><th></th><td></td></lod<>				
	XXXX						0.0	10	1	≥			0.05	<lod< td=""><td>End of bo</td><td></td><th></th><td></td></lod<>	End of bo			
E) E) E)								<u>-</u> 11 -	=						grade sur Borehole	backfi	lled with	soil
Z Z									3						cuttings a grade and			
DISC								- 12 -	=									
)ATA								13	3									
ECT									=									
PROJ								<u> </u>	7									
1202\								15	=									
17038								Ė	-									
\TA2\								<u> </u>	7									
) N								17	-									
DATA									_									
OMI								- 18 ·	=									
JANGAN.COM/DATAANY/DATA2\170381202\PROJECT DATA_DISCIPLINEIENVIRONMENTALIGINTLOGS\170381202_ENTERPRISE_LH_UPDATED_TM.GF2								19	=									
NA L								<u> </u>	=									
								∠∪ -										

	NUL		Y	Lo	g of I	Boring			SB2	21R			Sheet 1	of	1
Project	050 W. t 0t				Pr	roject N	0.		470	204000					
Location	250 Water Stree	t			EI	levation	and D	atum		381202					
	250 Water Stree	t							N/A						
Drilling Comp	pany AARCO Environi	montal Sarvicas	Corp		Di	ate Star	ted		Ω	/18/20		Date	Finished	8/18/20	
Drilling Equip	oment	mental Services	s, согр.		C	ompletion	on Dep	oth	0	110/20		Rock	Depth	0/10/20	
Size and Typ	Geoprobe 7822 I	DT							Diet	11 ft urbed		Lle	ndisturbed	N/A Core	
GAI	2-inch diameter	closed point ma	cro core			umber o	of Sam	ples			3		N/A		N/A
Casing Diam	N/A			Casing Depth (ft)		/ater Le	vel (ft.))	First	t	N/A		ompletion N/A	24 HR.	N/A
Casing Hamr	^{mer} N/A	Weight (I	bs) N/A	Drop (in) N/A	, Di	rilling F	orema							-	
Sampler	4-foot long aceta				Fi	ield Eng	ineer	R	lohn I	Dixon					
Sampler Han	nmer NA	Weight (I	bs) NA	Drop (in) NA				Т	yler Z						
1:53 A BOL SOL	,.				PID	Dept	h a			mple Da		VDE		narks	
MATERIAL SYMBOL (tt)		Sample De	escription		(ppm)			Type	Reco (in)		erome ug/m³)	XRF (ppm)	(Drilling Fluid, I Fluid Loss, Drillin	Depth of Car g Resistanc	sing, e, etc.)
MATERIAL SYMBOL (B)	R1A (0"-36"): I	Light brown to I	ight grey fine	SAND, some		± 0	+								
	medium sand, [FILL]	some fine grav	el, brick, con	crete (dry)	0.0	<u> </u>	4				0.00	<lod< td=""><td></td><td>240 0 2</td><td></td></lod<>		240 0 2	
Par Service Se					0.0	Ė	=	ORE	∞		0.00	<lod< td=""><td>Collected SB:</td><td>21R_0-2.</td><td></td></lod<>	Collected SB:	21R_0-2.	
IXXXXXI					0.0	2	35	MACROCORE	36/48						
LH UPDATED					0.0	- 3	=	MA			0.00	<lod< td=""><td></td><td></td><td></td></lod<>			
5					0.0	ŧ ĭ	=								
						- 4	+								
ENTERPRISE	some medium	: Light brown to sand, some fin				- 5	3								
	(dry) [FILL]	·				<u> </u>	=	ORE	_						
IIX X X X X X 1					0.0	6	48	MACROCORE	28/48		0.00	<lod< td=""><td>Collected SB</td><td>21R_6-8.</td><td></td></lod<>	Collected SB	21R_6-8.	
	DOD (24! 40!)	. 1 : 4 1	I!: 6: CAN	ID same fine	0.0	F ,	=	MAC							
§ XXX	gravel (dry) [FI	: Light grey to b ILL]	iack line sar	ND, Some line	55.6	F 7	=				0.00	<lod< td=""><td>Petroleum-lik 8 feet below</td><td></td><td></td></lod<>	Petroleum-lik 8 feet below		
NMENTALIGINTLOGS/170361202					68.2	8	+						(bgs).		
						Ē,	=	RE							
						- 9	R3	ROCORE	12/36				Collected SB	21R_9-11	-
	R3A (36"-48"):	: Light brown to	liaht arev fin	e SAND.	0.0	10	4	MACF	1,		0.00	<lod< td=""><td>End of boring</td><td>at 11 fee</td><td>t bgs</td></lod<>	End of boring	at 11 fee	t bgs
	some medium wood (moist) [l	sand, some fin	e gravel, bric	k, concrete,	0.0	F	=				0.00	<lod< td=""><td>(refusal-wood backfilled with</td><td></td><td></td></lod<>	(refusal-wood backfilled with		
N N	wood (moist) [i	ı iccj				F 11	1						clean sand to	grade an	
OISCIE						12	=						Sealed Willi C	Jiloi ete.	
						Ė	=								
AD TO						13	7								
OJEC						E 14	=								
)2/PR						Ė	=								
3812(15	7								
2/17(16	=								
DAT						Ė	=								
						17	7								
MDAT						18	4								
LANGAN.COMIDATAINYIDATA2/170381202/PROJECT DATA _DISCIPLINEENVIRO						E	=								
NGA						19	7								
4						<u> </u>	<u> </u>								

L	, F	4	Nb/	1/V		Lo	og of	fΒ	oring			SE	322			Sheet	1	of	1
Proje	ct		050 Matan Otro at				F	Proj	ject No.			470	00400	,					
Loca	tion		250 Water Street 250 Water Street				E	Elev	vation a	nd Da	atum		381202	2					
Drillir	ng Co						-	Date	e Starte	d		14/74			Date	e Finished			
Drillir	na Fai	ıinm	AARCO Environmenta	al Services, Corp.				Con	npletion	Den	th	7	7/30/20		Roc	k Depth		7/30/20	
	ig Eq	шрп	Geoprobe 7822 DT				ľ	COI	прісцоп	Бер			10 ft		1100	к Бериі		N/A	
Size	and T	уре	of Bit 2-inch diameter closed	d point macro core	<u> </u>		١	Nun	nber of	Samı	ples	Dist	urbed	3	U	Indisturbed	N/A	Core	N/A
Very Casir	ng Dia		ter (in) N/A	a point macro core	- (Casing Depth (ft	۱۱ ۱	Wa	ter Leve	l (ft.)		Firs		N/A		Completion		24 HR.	N/A
Casir	ng Ha			Weight (lbs)	N/A	Drop (in)	<u> </u>	Drill	ling Fore	emar	1	1 -	_	14// (<u> </u>	14// (<u> </u>	14// (
Casir Samı			4-foot long acetate line	er		14/2		Fiel	d Engin	eer	S	Sergio	Maga	na					
: Sami	oler H	amn		Weight (lbs)	NA	Drop (in)		1 101	u Engin	001	Α	shle	y Stapp	enbec	k				
:55 AI	; [_	lev.		•		•			Donth	_		Sa	mple D				Rem	narks	
1/25/2021 8:41:55 AM MATERIAL SYMBOL	[[ft)	Sa	imple Description	on		PID (ppm		Depth Scale	Number	Type	Recov.	Penetr. resist BL/6in	Jerome (ug/m³)	XRF (ppm	(Drilli Drilli Fluid Lo		Depth of Ca Resistan	asing, ce, etc.)
7202/			_ Asphalt					+	<u> </u>	Z		ш.	<u> </u>						
	\otimes		R1A (0-35"): Brown		coarse	sand, trace	0.0	- 1		1									
ā 💥	\otimes		medium sand, brick	, coai (dry) [FILL]			0.0		- 1 -	}	ORE			0.00	.1.01				
	\otimes						0.0	- 1	- 2 -	Σ	MACROCORE	35/48		0.09	<loi< td=""><td></td><td></td><td></td><td></td></loi<>				
	\boxtimes						0.0)			MAC	က							
	\otimes						0.0)	- 3 -					0.14	<lo< td=""><td>D</td><td></td><td></td><td></td></lo<>	D			
⋾	\otimes							Ė	- 4 -	_									
	\otimes							Ē											
	\boxtimes							Ē	5 -		щ								
	\boxtimes							Ē		7	COR	48							
							0.0	, F	6 -	22	MACROCORE	21/48				_			
\mathbb{E}	\otimes		R2A (0-21"): Brown medium sand, brick,	fine SAND, trace , coal (dry) [FILL]	coarse	sand, trace	0.0	⊢	- 7 -	}	Š			0.10	<loi< td=""><td>D</td><td></td><td></td><td></td></loi<>	D			
§ ₩	\otimes		,	, , , , , , , ,			0.0) [
ž XXX	XX	-	No Recovery				0.0)	- 8 -		ORE			0.08	<lo< td=""><td>D</td><td></td><td></td><td></td></lo<>	D			
TALIG								Ė	- 9 -	83	ACROCOR	0/24							
Z		-					-	Ē		┝	MAG					End c	of boring	at 9.5 fe	et below
NO NO								F	- 10 -	1						grade	surface	(refusal).
NEN S								E		}						cuttin	gs and d	lean sar	id to
ENE								E	- 11 -	}						grade	and sea	aled with	asphalt.
ISCIE								E	- 12 -	1									
<u> </u>								Ė											
T DA								Ė	- 13 -	1									
DEC.								Ė	: - 14 -										
PRC								Ė	. ' .										
31202								Ė	15 -										
17038								Ē		1									
TA2								F	- 16 -	1									
								F	- 17 -	1									
ATA								E		1									
OW/D								E	- 18 -	1									
LANGAN.COMIDATAINYIDATAI/170381202/PROJECT DATA_DISCIPLINE/ENVIRONMENTAL/GINTLOGS/170381202_ENTERPRISE_LH_UPDATED_TM.GPJ								E	- 19 -										
ANG/								þ	. IO .										
∦ L									- 20 -	<u> </u>									

		4	/VLJ/	4/V		Lo	g of E	Boring			SB	22R			Sheet	1	of	1
Pr	oject		250 Motor Street				Pr	oject No			170	204202						
Lo	cation		250 Water Street				El	evation a	and D	atum	170.	381202	:					
Dr	rilling C	ompa	250 Water Street				D	ate Starte	-d		N/A			Date	Finished			
		•	AARCO Environmen	tal Services, Corp	-						8	/18/20				8	3/18/20	
Dr	rilling E	quipn					Co	ompletio	n Dep	oth		10 ft		Rock	Depth		NI/A	
Z Siz	ze and	Туре					Nı	umber of	Sam	nles	Dist	10 ft urbed		Un	disturbed		N/A Core	
NAD Ca	asing D	iamet		ed point macro co		asing Depth (ft)		ater Leve			Firs	t	3	Co	mpletion	I/A	24 HR.	N/A
	asing H	amm	N/A er	Weight (lbs)		Drop (in)	. VV Dr	illing For	` '		$ \overline{\Delta}$		N/A	İ		I/A	$ar{ar{ar{\Lambda}}}$	N/A
Report: Log	ampler				N/A	' ` 'N/A				F	Rohn	Dixon						
: Sa	ampler	Hamr	4-foot long acetate lin	Neight (lbs)	NA	Drop (in) NA		eld Engir	neer	т	homa	as Schie	ofor					
56 AM	Z Z		INA		INA	INA		Ī	Ţ.,	<u>'</u>	Sa	mple Da				Rem	arke	
:5/2021 8:41:56 AM	MATERIAL SYMBOL	Elev. (ft)	S	ample Descript	ion		PID (ppm)	Depth Scale		Туре	(in)	Penetr. resist BL/6in	Jerome (ug/m³)	XRF (ppm)	(Drilling Fluid Loss,			asing,
/2021	2		_ Asphalt					<u> </u>	ž	H	<u>«</u>	g - m			Tidia 2000,	, Dilling	rtoolotan	
1/2			R1A (3"-32"): Brow asphalt (dry) [FILL]		ne fine gr	avel, brick,	0.0	Ē,]									
TM.GPJ			aspirait (dry) [i ille]				0.0	<u> </u>	=	ORE	m		0.00	0.005	Collecte	d SB2	2_0-2.	
							0.0	_ 2 -	3 5	MACROCORE	32/48		0.00	0.000				
							0.0	3 -	₫	MA			0.00		0.114.	1.000	0.04	
								F	=						Collecte	0 SB2	Z_Z - 4.	
IJ 								- 4	1									
ENTERPRISE LH								5 -	=						Collecte	d SB3	2 4-6	
			R2A (0"-30"): Brow	vn fine SAND, son	ne fine gr	avel, brick,	0.0		∄	MACROCORE	ထ္				Collecte	u SDZ	Z_ 4- 0.	
<u>8</u>			wood, asphalt (dry)	[FILL]	3	, ,	0.0	6 -	38	CROC	30/48		0.00	0.01				
\mathbb{X}							0.0	7 -	4	MA			0.00					
MENTAL/GINTLOGS/170381202							0.0]				0.00					
								- 8 -	+	뮖								
			R3A (0"-12"): Brow	un fine SAND son	ne fine ar	avel brick	0.0	_ 9 -	38	ACROCORE	12/24				Collecte	d SB2	2 8-10	
			(dry) [FILL]	WITHING OAND, 301	ne mie gi	avei, briok	0.0		=	MACI	~		0.00	0.12				
N N							0.0	10 -	=						End of b			
								11 -	=						concrete with soil	e). Bor	ehole ba	ackfilled
SPLI								10	=						sand to	grade		
DIS								<u> </u>	3						asphalt.			
DAT								13 -	=									
JECT								- - 14 -	3									
PRO								- 14	=									
81202								15 -	7									
2/1708								- - 16 -	=									
OATA:								Ē	=									
ANA Y								17 -	=									
NDAT.								18 -	=									
- CO								_	-									
LANGAN.COM DATAINY/DATAZ/170381202/PROJECT DATA _DISCIPLINE\ENVIRON								_ 19 -	=									
<u> </u>								E 20 -	-									

Log of Boring **SB23** Sheet of 2 Project Project No. 250 Water Street 170381202 Elevation and Datum Location 250 Water Street N/A Drilling Company Date Started Date Finished 7/31/20 AARCO Environmental Services, Corp. 7/31/20 Drilling Equipment Completion Depth Rock Depth Geoprobe 7822 DT 28 ft N/A Size and Type of Bit Disturbed Undisturbed Core Number of Samples 2-inch diameter closed point macro core N/A N/A Casing Diameter (in) Casing Depth (ft) Completion 24 HR. First Water Level (ft.) N/A N/A 12 N/A N/A Drop (in) N/A Casing Hammer N/A Drilling Foreman Weight (lbs) N/A Sergio Magana Sampler 4-foot long acetate liner Field Engineer Drop (in) NA Weight (lbs) Sampler Hammer NA Adrian Heath Sample Data MATERIAL SYMBOL Remarks Elev PID (ppm) Depth Number XRF (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) Sample Description (ft) Scale (ug/m³ (ppm) 1.0 Creosote-like odor from 0.25 <LOD 0.01 R1A (0"-24"): Brown fine SAND, trace medium sand, to 6 feet below grade surface 0.0 brick, coal, wood (dry) [FILL] (bgs). 0.0 MACROCORE 0.0 0.04 <LOD 꼰 Collected SB23 0-2. 3 5 MACROCORE DISCIPLINE/ENVIRONMENTAL/GINTLOGS/170381202 Petroleum-like odors and R2A (0"-24"): Brown to black fine SAND, trace silt, brick, <LOD 0.01 13.8 staining at 6.5 feet bgs. wood (dry) [FILL] 0.5 Black tar-like substance at 7 0.0 feet bgs. 0.0 0.01 <LOD R3A(0"-18"): Brown fine SAND, trace silt, brick, wood 44.3 (dry) [FILL] Petroleum-like odors and MACROCORE sheen from 9 feet to 24 feet 51.3 83 bgs. 54.7 R3B(18"-42"): White to light grey fine SAND, some <LOD 0.01 93 gravel, trace silt (moist) 87 Collected SB23_9-11. 4.3 0.01 <LOD ∇ 12 \\LANGAN.COM\\DATA\\NY\\DATA2\170381202\\PROJECT DATA\\\ 13 3.0 R4A(0"-36"): Grey-brown fine SAND (wet) [SP] 2.3 Ρ4 1.6 <LOD 0.03 1.2 15 1.4 1.3 0.05 <LOD 0.5 R5A(0"-42"): Grey-brown fine SAND, trace medium 17 sand (wet) [SP] 0.5 0.5 42/48 R5 18 0.4 0.03 <LOD 0.0 0.0 19 0.0

LANGAN Log of Boring **SB23** Sheet 2 of 2 Project Project No. 250 Water Street 170381202 Location Elevation and Datum 250 Water Street N/A Sample Data Remarks Elev Depth Scale Sample Description Jerome (ug/m³) XRF (ppm) (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) (ft) (ppm) 20 0.0 0.03 <LOD R6A (0"-42"): Grey-brown fine SAND, trace medium 21 sand (wet) [SP] 0.0 0.0 42/48 **R**6 0.0 22 <LOD 0.03 0.0 23 0.0 1/25/2021 8:41:58 AM 0.0 0.00 <LOD 24 0.0 R7A (0"-42"): Grey-brown fine SAND, trace medium sand (wet) [SP] 25 0.0 MACROCORE 0.0 42/48 R^{7} 0.0 26 0.02 <LOD Collected SB23_26-28. ||LANGAN.COM|DATAINYIDATA2\170381202|PROJECT DATA|_DISCIPLINE\ENVIRONMENTAL\GINTLOGS\170381202_ENTERPRISE_LH_UPDATED_TM.GPJ 0.0 0.0 27 0.0 End of boring at 28 feet bgs. Borehole backfilled with soil 0.0 28 0.04 <LOD cuttings and clean sand to grade and sealed with asphalt. 29 30 31 32 33 34 35 36 37 38 39 43

	M /		1 / V		Lo	-	Boring			SB	324	_	Sheet 1		of	:
Project						Pı	roject No.									
	250 V	Nater Street								170	381202					
Location	_					I ^{EI}	levation ar	nd D								
D=:III: 0		Nater Street					ata Oto 1	<u>م</u>		N/A		ID.	o Finial d			
Drilling Con							ate Starte	a				Date	e Finished			
Deillia a E		CO Environmenta	al Services, Corp.				omel-!	D:	.+l-	7	/29/20	Г	ole Donth	7/29	/20	
Drilling Equ	•						ompletion	Dep	otn			Roc	k Depth			
Cize and Tu		robe 7822 DT				_				Diet	30 ft urbed	Ι.,	Indiaturbad	Cor	√A_	
Size and Ty		h diameter close	d point macro core			N	umber of	Sam	ples	Dist	urbea 8		Jndisturbed N/A	Con		N/A
Casing Diar			<u>. po</u>	Casing D	Depth (ft)	1,4	/	1 /£t)		Firs	t		Completion	24 F	HR.	. 4,7 1
	N/A		1		N/A		ater Leve	` '		∇	. 18		▼ N/A	$ar{ar{\Lambda}}$		N/A
Casing Han	nmerN/A		Weight (lbs)	I/A Drop	o (in) N/A	D	rilling Fore	ema								
Sampler		t long acetate line	•						N	ick T	urro					
Sampler Ha			Weight (lbs)	Dror	o (in)	⊣⊦י	ield Engin	eer								
Jampiel Ma		NA	1 3 (120)	VA BIOF	NA NA	\perp			A		/ Stappenbed	ck	1			
L. CE	- V					P	Donth	_			mple Data		Re	marks	3	
SYMBOL (f		Sa	ample Description			PID (ppm)	Depth Scale	Number	Type	in)	Penetr. RESist (ng/m³)	XR	F (Drilling Fluid			ng,
¥ (v								Ž	T-,	, Re	S = E (ug/m) (ppn	"/ Fluid Loss, Drill	ıng Resi	stance,	etc.)
XXXX		ohalt					E 0 -									
$\Rightarrow \Rightarrow \Rightarrow$	R1	A (0-32"): Brown	fine SAND, trace co	arse sand,		0.0	‡ , :	1								
	brid	ck, concrete (dry)	[FILL]			0.0	F 1 -	1	SE.				Collected SI	324_0	-2.	
XXX						0.0	<u> </u>	1_	COF	48	0.14	<lo< td=""><td>DD</td><td></td><td></td><td></td></lo<>	DD			
						0.0	2 -	조	MACROCORE	32/48						
						0.0	E :	}	MAC	Ĭ .						
*****						0.0	3 -	1			0.10	257	.0			
							F :	1								
							- 4 -	1	+							
							E :									
							5 -	1								
							Ē :	1	MACROCORE							
							6 -	22	000	20/48						
						0.0	ļ " :	ן "ר	CR	20						
$\otimes \otimes $			ine SAND, trace coa	rse sand, br	rick		7 -		×		0.19	6.0				
		y) [FILL] B (6.20"): Brown	fine SAND, some m	adium aand	,	0.0	E ' :						Collected SI	324_6	-8.	
>>>>	trac	ce coarse sand (Time Sand, some m drv) [FILL]	ledium sand	^{1,}	0.0	† , :	†								
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			fine SAND, trace me	edium sand		0.0	10 -	22	MACROCORE	27/4	0.18	<lo< td=""><td>DO</td><td></td><td></td><td></td></lo<>	DO			
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							13 -	1								
	R4	A (0-32") [.] I iaht h	orown fine SAND, so	me medium	,	0.0	E	1	JRE							
		nd (dry) [SP]		o modium	.	0.0	14	8	MACROCORE	32/48			_			
. (0.0	ļ ' :	 	4CR	32	0.25	<lo< td=""><td>טי</td><td></td><td></td><td></td></lo<>	טי			
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							† . :	1								
	R5	A (0-36"): Brown	fine SAND, trace me	edium sand.	,	0.0	17 -	1	Щ							
		ce coarse sand (0.0	E	1	MACROCORE	œ						
					∇	0.0	18 -	R5	ROC	36/48	0.25	<lo< td=""><td>DO</td><td></td><td></td><td></td></lo<>	DO			
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||LANGAN.COM||DATAINYIDATA2\170381202|PROJECT DATA|_DISCIPLINE.ENVIRONMENTAL\GINTLOGS\170381202_ENTERPRISE_LH_UPDATED_TM.GPJ

LANGAN Log of Boring **SB24** Sheet 2 of 2 Project Project No. 250 Water Street 170381202 Location Elevation and Datum 250 Water Street N/A Sample Data Remarks Elev Depth Scale Sample Description Jerome (ug/m³ XRF (ppm) (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) (ft) (ppm) 20 0.0 <LOD 21 22 R6A (0-22"): Brown fine SAND, trace medium sand, 0.39 <LOD 0.0 trace coarse sand (wet) [SP] 23 0.0 0.0 24 0.0 0.09 <LOD 25 0.0 R7A (0-32"): Brown fine SAND, trace medium sand, R_7 0.0 26 trace coarse sand (wet) [SP] 0.54 2.0 0.0 27 0.0 0.0 0.0 28 0.04 <LOD R8A (0-24"): Brown fine SAND, trace medium sand, MACROCORE 0.0 trace coarse sand (wet) [SP] 24/24 88 29 0.0 0.0 0.0 30 0.08 <LOD End of boring at 30 feet below grade surface (bgs). Borehole backfilled with soil cuttings and 31 clean sand to grade and sealed with asphalt. 32 33 34 35 36 37 38 39 43

Project							oring ect No.	_			MW25			Sheet		
:	250 Water Street									1703	381202					
Location					E	Eleva	ation ar	nd Da	atum							
	250 Water Street									N/A						
Drilling Compar					10	Date	Starte	d					Date	Finished		
D. III.	AARCO Environmen	tal Services, Corp.			1			_		7.	/28/20		<u> </u>	D	7/28/	20
Drilling Equipme					- 1	Jom	pletion	рер	ın		00.5		Rock	Depth		
Size and Type o	Geoprobe 7822 DT				-					Diet	30 ft urbed		Hr	ndisturbed	Core	/A
	2-inch diameter close	ed point macro core)		1	Num	ber of	Samp	oles	Dist	urbed	8	01	N/A	Core	N/.
Casing Diamete	er (in)	•		asing Depth (ft)		N ate	er Leve	l (ft)		First	t			ompletion	24 H	R.
0	N/A	Weight (lbs)		N/A	, I,		ng Fore	` ′		∇		15	_ _ !	▼ N/A	Ī	N/
Casing Hamme	Ñ/A	Weight (ibs)	N/A	Drop (in)	`∐	וווווכ	ng r ore	illal		:_I, T						
Sampler	4-foot long acetate lir	ner				ielo	l Engine	eer	IN	ick T	urro					
Sampler Hamm		Weight (lbs)	NA	Drop (in)		.010	9	٠.	Δ	shlev	Stappe	nhec	k			
	IVA	1	11/7	111/-		Т					mple Dat					
SYMBOL (tt)	9	sample Descriptio	nn.		PID	, [Depth	Ser	Φ			erome	XRF		marks	
MATE (ft)	3	ample Describito	711		(ppm	1)	Scale	Number	Type	Rec(Penetr. resist BL/6in	ig/m³)	(ppm)	(Drilling Fluid Fluid Loss, Dril	i, Depth o ling Resis	tance, et
	Asphalt					+	- 0 -	É		H	-					
XXX	R1A (0-36"): Light	brown fine SAND,	trace me	edium	0.0	Ė	-	1								
XXX	sand, trace coarse	sand, brick (dry) [F	FILL]		0.0	F	1 -	1	ш					Collected S	B25 0-	2.
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						þ		1					_00			
						E	4 -	1								
						F		1								
						Ė	5 -	1								
		rown fine SAND, tr	ace coar	rse sand,	0.0	Ę			MACROCORE	8						
××××	brick (dry) [FILL]	brown fire CAND	trac = :::	a di una	0.0	-	6 -	22	30C	33/48	.	1.72	<lod< td=""><td></td><td></td><td></td></lod<>			
	R2B (9-33"): Light sand (dry) [SP]	brown fine SAND,	trace me	eulum	0.0	Г	=	1	IACF	က်		2	-200			
	-2 (2.)/[0.]				0.0	E	7 -	1	2					Collected S	B25 6-	8
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						E	-	1			'	10	-200			
						F	9 -	1								
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		brown fine SAND,	some me	edium	0.0	,	10 -	83	MACROCO	28/48	,	0.23	<lod< td=""><td></td><td></td><td></td></lod<>			
	sand (dry) [SP]				0.0]	ACF	8	'	J.2J	~LUD	<u> </u>		
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						E					'	J.U4	~LUD	<u> </u>		
	D44 (0.00ll) 1:1:	h		II	0.0	,	13 -	1								
	R4A (0-28"): Light sand (dry) [SP]	brown fine SAND,	some me	ealum	0.0	Г		1	ORE	_						
	53.14 (S. y) [OI]				0.0	- 1	14 -	72	SOC	38/48	,	202	~I OD			
					0.0	г		1	MACROCORE	38	'	0.02	<lod< td=""><td><u>'</u></td><td></td><td></td></lod<>	<u>'</u>		
				$\overline{\Delta}$	0.0	- 1	15 -	1	Z							
	R4B (28-38"): Ligh	t brown fine SAND	, some n		0.0	Г		1								
	sand (wet) [SP]				0.0	-	16 -	_			Ш.					
					0.0	` 		1			(3.08	<lod< td=""><td><u>'</u></td><td></td><td></td></lod<>	<u>'</u>		
						E	17 -	}								
	R5A (0-34"): Brow	n fine SAND, some	medium	n sand,	00	F	17	1	낊							
	trace coarse sand	(wet) [SP]			0.0	-	18 -	R5	MACROCORE	34/48						
					0.0		18 -	LEC.	CR	34	(0.12	<lod< td=""><td></td><td></td><td></td></lod<>			
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					0.0		19 -	1								
					0.0	1 L	_	J			i			1		



Log of Boring SB25/MW25 Sheet 2 2 of Project Project No. 250 Water Street 170381202 Location Elevation and Datum 250 Water Street N/A Sample Data Remarks Elev Depth Scale Sample Description Jerome (ug/m³) XRF (ppm) (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) (ft) (ppm) 20 0.0 <LOD 0.0 R6A (0-43"): Brown fine SAND, some medium sand, trace coarse sand (wet) [SP] 0.0 21 0.0 0.0 22 0.06 <LOD 0.0 23 0.0 0.0 24 0.0 R7A (0-48"): Brown fine SAND, some medium sand, 0.01 <LOD trace coarse sand (wet) [SP] 0.0 25 0.0 MACROCORE 0.0 R_7 0.0 26 0.04 <LOD ||LANGAN.COM|DATAINYIDATA2\170381202|PROJECT DATA|_DISCIPLINE.ENVIRONMENTAL\GINTLOGS\170381202_ENTERPRISE_LH_UPDATED_TM.GPJ 0.0 27 0.0 0.0 0.0 28 0.05 <LOD R8A (0-24"): Brown fine SAND, some medium sand, MACROCORE 0.0 trace coarse sand (wet) [SP] 24/24 88 29 0.0 Collected SB25_28-30. 0.0 0.0 30 0.0 <LOD End of boring at 30 feet below grade surface (bgs). Monitoring well MW25 31 installed in borehole to 22 feet bgs with screen between 12 32 and 22 feet bgs. 33 34 35 36 37 38 39 43

1		4		U/	4/V		Lo	og of	Boring			SB	26			Sheet 1		of	1
F	Project		OEO Wata	r Ctroot				Pı	roject No			170	20120	,					
ī	ocation		250 Wate	r Street				El	levation a	and D	atum		381202	<u> </u>					
	Orilling C	omna	250 Wate	r Street				D:	ate Start	ed e		N/A			Date F	Finished			
			AARCO E	nvironmen	tal Services, Corp	L						8	/17/20				8/17/2	20	
[Orilling E	quipn		7000 DT				С	ompletio	n Dep	oth		6 ft		Rock	Depth		/ ^	
y S	Size and	Туре						N	umber of	Sam	nles	Dist	urbed		Un	disturbed	Core		
- Langan	Casing D	iame	er (in)	meter close	ed point macro co		asing Depth (ft	\ 	ater Lev			First	i	2	Co	N/A mpletion	24 H		
	Casing F	lamm	N/A er		Weight (lbs)		Drop (in)	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	rilling Fo			$ \bar{\Delta} $		N/A]	N/A	$ar{ar{ar{\Lambda}}}$	N/	A
	Sampler			a acatata lin		N/A	· · · /N/A				R	ohn	Dixon						
: 5	Sampler	Hamr		g acetate lir NA	Weight (lbs)	NA	Drop (in)		eld Engi	neer	T	yler Z	orn.						
10 AM	J. K			INA		INA	I IV		Τ			Sa	mple D	ata		Po	marks		
1/25/2021 8:42:10 AM	MATERIAL SYMBOL	Elev. (ft)		S	ample Descript	ion		PID (ppm)	Depth Scale		Туре	(in)	Penetr. resist BL/6in	Jerome (ug/m³)	XRF (ppm)	(Drilling Fluid Fluid Loss, Drill			tc.)
%2021 XX	×××		R1A (0"	-48"): Light	t brown to reddish	grey med	dium	0.0	 0 -	Ž		ď	<u> </u>			Tidia 2000, Billi	ing reosic		
1/2/			SANĎ,	some fine g	gravel, brick, conc	rete (moi	st) [FILL]	0.0	E,	3				0.00	<lod< td=""><td></td><td></td><td>_</td><td></td></lod<>			_	
TM.GPJ								0.0	Ė '	=	ORE	m				Collected SI	326_0-	2.	
<u>₽</u> { 								0.0	2	3 5	MACROCORE	48/48		0.00	<lod< td=""><td></td><td></td><td></td><td></td></lod<>				
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<u>-</u> X					0.0	E]												
		R2A (0"-24"): Light brown to reddish grey medium SAND, some fine gravel, brick (moist) [FILL]							4	+	RE			0.00	<lod< td=""><td></td><td></td><td></td><td></td></lod<>				
ERPR XXX			SAND,	some fine g	gravei, brick (mois	t) [FILL]		0.0	5	₹ <u>₹</u>	MACROCORE	24/24		0.10	<lod< td=""><td></td><td></td><td></td><td></td></lod<>				
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Log of Boring **SB26R/MW26** Sheet of 1 Project Project No. 250 Water Street 170381202 Elevation and Datum Location 250 Water Street N/A Drilling Company Date Started Date Finished 8/24/20 AARCO Environmental Services, Corp. 8/24/20 **Drilling Equipment** Rock Depth Completion Depth AMS Power Probe 9580-VTR 20 ft N/A Size and Type of Bit Disturbed Undisturbed Core Number of Samples N/A 2-inch diameter closed point macro core 5 N/A Casing Diameter (in) Casing Depth (ft) Completion 24 HR. First Water Level (ft.) N/A N/A 13 N/A N/A Drop (in) N/A Casing Hammer N/A Weight (lbs) Drilling Foreman N/A Rohn Dixon Sampler 4-foot long acetate liner Field Engineer Drop (in) NA Weight (lbs) Sampler Hammer NA Lexi Haley Sample Data MATERIAL SYMBOL Remarks Elev PID (ppm) Depth Number XRF Sample Description (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) (ft) Scale (ppm) R1A (0"-44"): Reddish brown fine SAND, some fine 0.0 <LOD gravel, concrete, brick (dry) [FILL] 0.0 Collected SB26 0-2. 0.0 MACROCORE <LOD 0.0 꼰 0.0 <LOD 0.0 3 0.0 <LOD 0.0 5 MACROCORE 0.0 <I OD R2A (24"-48"): Reddish brown fine SAND, some fine 0.0 gravel, concréte, brick (dry) [FILL] 0.0 Collected SB26 6-8. <I OD 0.0 8 9 83 0.0 <LOD R3A (42"-48"): Reddish brown fine SAND, some fine gravel, concrete, brick (dry) [FILL] R4A (8"-48"): Light brown fine SAND, trace medium 0.0 13 sand (wet) [SP] 0.0 <LOD 0.0 Ρ4 Collected SB26 13-15, 0.0 <LOD SODUP05_08242020. 0.0 15 0.0 <LOD 0.0 R5A (3"-48"): Brown fine SAND, trace medium sand 0.0 <LOD (wet) [SP] 0.0 0.0 <LOD End of boring at 20 feet below 45/48 R5 grade surface (bgs). 0.0 18 Monitoring well MW26 0.0 <LOD installed in borehole to 20 feet 0.0 19 bgs with screen between 10 and 20 feet bgs. 0.0

roject						Pr	oject No.										
ocation		250 Water Street				FI	evation a	nd D	atum		381202	2					
.544011		250 Water Street				'	o raudii a	u D	aculli	N/A							
illing C	Compa					Da	ate Starte	ed		14,71			Date F	inished			
:II:		AARCO Environmenta	al Services, Corp.	-				. D	41-	8	/20/20		DI-			8/20/20	
illing E	Equipm	Geoprobe 7822 DT					ompletior	ı Dep	oth		24 ft		Rock [Jepth		N/A	
ze and	Туре	of Bit				-	umber of	Com	nloo	Dist	urbed		Und	disturbed		Core	
sina F	Diamet	2-inch diameter closed	d point macro cor		sing Depth (ft)	IN	umber or	Sam	pies	First	+	6	Cor	mpletion	N/A	24 HR.	N/A
		N/A			NI/A		ater Leve	` ′		Σ		12		- '	N/A	<u>T</u>	N/A
asing H	Hamme	N/A	Weight (lbs)	N/A	Drop (in) N/A	Dr	illing For	emai									
ampler		4-foot long acetate line	er				eld Engir	neer	R	ohn I	Dixon						
ampler	Hamn	ner NA	Weight (lbs)	NA	Drop (in) NA		3		T	yler Z	Zorn						
Z Z			•		•					Sar	mple D				Ren	narks	
MATERIAL SYMBOL	Elev. (ft)	Sa	mple Descripti	ion		PID (ppm)	Depth Scale	Number	Туре	cov.	Penetr. resist BL/6in	Jerome (ug/m³)	XRF (ppm)	(Drillin		Depth of Ca g Resistanc	sing,
ΣW		D4A (0" 40"); D	analish to	cours fire :	CAND		├ o -	₹	-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	교	9)	(F.411)	FIUID LO	ss, Drillin	y resistand	e, etc.)
XX		R1A (0"-48"): Dark of some fine gravel, so				0.0	E	=					<lod< td=""><td></td><td></td><td></td><td></td></lod<>				
\ggg		(dry) [FILL]				0.0	- 1 -	}	ш					Collec	ted SB	27_0-2.	
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XX						0.0	- 3 -	₫	MA				202				
\bowtie						0.0	E	=					<lod< td=""><td>Collec</td><td>ted SB</td><td>27_2-4.</td><td></td></lod<>	Collec	ted SB	27_2-4.	
						0.0	- 4 -	‡									
XX							F	=									
XXX							- 5 -	=	щ								
XX		R2A (16"-42"): Redo gravel, some mediui	dish brown fine S	SAND, son	ne fine	0.0	Ē.,		MACROCORE	48			<lod< td=""><td></td><td></td><td></td><td></td></lod<>				
XX		graver, some mediui	in sailu, brick (ur	y) [[- LL]		0.0	6 -	38	CRO	32/48							
XX						0.0	F 7 -	=	MA				<lod< td=""><td></td><td></td><td></td><td></td></lod<>				
$\times\!\!\times\!\!\times$		DOD (40" 40"), Drove	un to arou foe CA	ND trace	oilt	0.0	Ė '	=					<lod< td=""><td></td><td></td><td></td><td></td></lod<>				
		R2B (42"-48"): Brow (moist) [SP-SM]	vn to grey the SA	IND, trace	SIII		- 8 -	 					\LOD				
							-	=									
							- 9 -	=	묎								
		R3A (16"-48"): Brow sand, trace silt (mois	vn to grey fine SA st) [SP-SM]	AND, trace	e medium	0.0	_ 10 -	33	\sim	32/48							
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		R4A (12"-48"): Brow		AND, some	e medium	0.0	13 -	Ŧ	RE				<lod< td=""><td></td><td></td><td></td><td></td></lod<>				
		sand, trace silt (wet)	(SP-SM)			0.0	14 -	- - 42	MACROCORE	36/48			<lod< td=""><td></td><td></td><td></td><td></td></lod<>				
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		R5A (0"-48"): Browr			some	0.0	_ 16 -	}	+				<1.0D				
		medium sand, trace				0.0	F	=					<lod< td=""><td></td><td></td><td></td><td></td></lod<>				
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						0.8	Ė 10	∃"	MACROCORE	48			<1.0D				
							- 19 -	=	Σ				<lod< td=""><td>Collec</td><td>ted SR</td><td>27_18-20</td><td>)_</td></lod<>	Collec	ted SR	27_18-20)_
						1.0	F	4					<lod< td=""><td>35,100</td><td>.54 50</td><td></td><td>-</td></lod<>	35,100	.54 50		-



Log of Boring **SB27** Sheet 2 of 2 Project Project No. 250 Water Street 170381202 Location Elevation and Datum 250 Water Street N/A Sample Data Remarks Elev (ft) Depth Scale PID (ppm) Sample Description Jerome (ug/m³) XRF (ppm) (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) 20 R6A (0"-48"): Brown to grey fine SAND, trace medium sand, trace silt (wet) [SP-SM] 0.7 21 3.0 Petroleum-like odors from 19 <LOD to 22 feet below grade surface 0.6 48/48 (bgs). 1.4 22 <LOD 0.0 23 0.0 Collected SB27_22-24. <LOD ILANGAN.COMIDATAINYIDATA2/170381202/PROJECT DATA_DISCIPLINEIENVIRONMENTAL/GINTLOGS/170381202_ENTERPRISE_LH_UPDATED_TM.GPJ ... 1/25/2021 8:42:15 AM. 0.0 <LOD 24 End of boring at 24 feet bgs. Borehole backfilled with soil cuttings and clean sand to 25 grade and sealed with concrete. 26 27 28 29 30 31 32 33 34 35 36 37 38 39 43

Log of Boring SB28/MW28 Sheet of 1 Project Project No. 250 Water Street 170381202 Location Elevation and Datum 250 Water Street N/A Drilling Company Date Started Date Finished AARCO Environmental Services, Corp. 8/18/20 8/18/20 **Drilling Equipment** Completion Depth Rock Depth Geoprobe 7822 DT 20 ft N/A Size and Type of Bit Disturbed Undisturbed Core Number of Samples N/A 2-inch diameter closed point macro core 5 N/A Casing Diameter (in) Casing Depth (ft) Completion 24 HR. First Water Level (ft.) N/A N/A N/A N/A Drop (in) N/A Casing Hammer N/A Weight (lbs) Drilling Foreman N/A Rohn Dixon Sampler 4-foot long acetate liner Field Engineer Drop (in) NA Weight (lbs) Sampler Hammer NA Thomas Schiefer Sample Data MATERIAL SYMBOL Remarks Elev Depth PID (ppm) Number resist BL/6in (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) Sample Description (ft) Scale 0 0.0 R1A (3"-36"): Dark brown fine to medium SAND, trace fine gravel, brick, asphalt (dry) [FILL] 0.0 Collected SB28 0-2. MACROCORE 0.0 0.00 <LOD 꼰 0.0 0.0 3 0.0 0.00 <LOD 5 Collected SB28_4-6. MACROCORE 0.0 R2A (0"-7"): Dark brown fine to medium SAND, some 8 DISCIPLINE/ENVIRONMENTAL/GINTLOGS/170381202 fine gravel, asphalt (dry) [FILL] 0.0 <LOD 0.00 R2B (7"-15"): White to tan coarse SAND, glass (dry) 0.0 0.0 R2C (15"-30"): Dark brown to black fine SAND, some 0.0 silt (wet) [FILL] 8 0.0 <LOD 0.00 9 MACROCORE 83 0.0 0.00 <LOD R3A (0"-19"): Dark brownish black fine SAND, trace fine 0.0 gravel, wood (wet) [FILL] 0.0 0.0 0.00 <LOD 12 ILANGAN.COMIDATAINYIDATA2\170381202\PROJECT DATAI 13 Collected SB28 12-14. 0.0 R4A (0"-29"): Dark brown fine SAND, trace fine gravel, 8 trace silt, trace clay (wet) [SP-SM] 0.0 <LOD 0.00 0.0 0.0 15 0.0 0.0 <LOD R5A (0"-48"): Light brown fine SAND, trace fine gravel 0.00 0.0 (wet) 17 0.0 0.0 End of boring at 20 feet below 48/48 R5 grade surface (bgs). Borehole 0.0 18 <LOD 0.00 backfilled with soil cuttings to 0.0 14 feet bgs. Monitoring well 0.0 19 MW28 installed in borehole to 14 feet bgs with screen 0.0 0.00 <LOD

between 4 and 14 feet bgs

	4	/V <i>L</i> J	AIV			Log		Boring _.			SB	29		-	Sheet 1	of	1
Project		250 Water Street					Pr	roject No.			170	38120	2				
Location		250 Water Street					Ele	evation an	d Da	atum		30 1202	<u> </u>				
Drilling C		250 Water Street						ate Started			N/A			Data	Finished		
Drilling C		AARCO Environm	ental Services Con	1			ا	ale Started			8	/17/20		Date	rinished	8/17/20	
Drilling E			orital oci vioco, coi	<i>.</i>			Co	ompletion	Dep	th		711720	<u>'</u>	Rock	Depth	0/11/20	
Size and		Geoprobe 7822 D	Γ				L				Diet	15 ft urbed		Lun	ndisturbed	N/A Core	
		2-inch diameter clo	osed point macro co	re			Νι	umber of S	amı	oles			3		N/A		N/A
Casing D		er (in) N/A			Casing Depth	λì/Á	w	ater Level	(ft.)		First	İ	N/A	Co	empletion N/A	24 HR.	N/A
Casing F	łamme	Ñ/A	Weight (lbs)	N/A	Drop (in)	N/A	Dr	rilling Fore	mar		_				_	 -	
Sampler		4-foot long acetate	liner] Fie	eld Engine	er	R	lohn I	Dixon					
Sampler	Hamm	ner NA	Weight (lbs)	NA	Drop (in)	NA		3		Т	yler Z	Zorn					
ilAL OL	Elev.						N.D.	Depth	_			mple D	ata		Rer	narks	
MATERIAL SYMBOL	(ft)		Sample Descrip	tion			PID pm)		Number	Туре	(in)	Penetr. resist BL/6in	Jerome (ug/m³)	XRF (ppm)	(Drilling Fluid	Depth of Ca	asing, ce, etc.)
××××		R1A (0"-16"): Lic	ght brown to brown	fine SA	ND, some			 0 →	z		LL.	ш			,		. ,
\ggg			avel, concrete (moi				0.0	F , =							Collected SB	29_0-2.	
XXX		R2A (16"-42")· [Dark grey to black fi	ne SAN	ID some silt		0.0						0.00	<lod< td=""><td></td><td></td><td></td></lod<>			
XXX		brick, concrete,	wood (moist) [FILL]	iic OAIV	D, SOITIC SIII,).0	F 2 =		ORE					Petroleum-lik	e adors f	rom 2 t
						1	62		쮼	MACROCORE	42/60				4 feet below		
\ggg						31	F 3 =		MAC	7		0.00	<lod< td=""><td>(bgs).</td><td></td><td></td></lod<>	(bgs).			
						4	14	E 4 =							Collected SB	29_2-4.	
>>>>								F ' =									
XXX								5 =									
>>>>								F , =									
XXX								6 =									
XXX								F 7 -		ORE	0						
XXX									R 2	MACROCOR	22/60						
		R2A (38"-60"): L	ight brown to grey	ine SAI	ND. some silt.	0	0.0	8 =		MAC			0.00	<lod< td=""><td>Collected SB</td><td>29_7-9.</td><td></td></lod<>	Collected SB	29_7-9.	
XXX			concrete, brick (m				0.0	E 9 =					0.00	-202			
XXX							0.0	F =									
XXX						0	0.0	10					0.00	<lod< td=""><td></td><td></td><td></td></lod<>			
XXX								F ,]									
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>>>>								12		ORE	0						
								E =	R3	MACROCORE	16/60						
								13		MAC							
			ight brown to light		e SAND,	0	0.0	14					0.00	<lod< td=""><td>Collected CD</td><td>20 42 4</td><td>-</td></lod<>	Collected CD	20 42 4	-
XXX		trace fine gravel	concrete (moist) [F	FILL]			0.0	F							Collected SB	29_13-1	J .
XXXXX	-					\dashv	0.0	E 15					0.00	<lod< td=""><td>End of boring</td><td></td><td></td></lod<>	End of boring		
								16							(refusal). Bor with soil cutti	ngs and	clean
								F 10 =							sand to grade concrete.		
								17							CONTORECT.		
								F = 1									
								18									
								19									
								F =									
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Log of Boring SB30/MW30 Sheet of 2 1 Project Project No. 250 Water Street 170381202 Location Elevation and Datum 250 Water Street N/A Drilling Company Date Started Date Finished AARCO Environmental Services, Corp. 8/20/20 8/20/20 **Drilling Equipment** Rock Depth Completion Depth Geoprobe 7822 DT 32 ft N/A Core Size and Type of Bit Disturbed Undisturbed Number of Samples N/A 2-inch diameter closed point macro core 8 N/A Casing Diameter (in) Casing Depth (ft) Completion 24 HR. First Water Level (ft.) N/A N/A 14 N/A N/A Drop (in) N/A Casing Hammer N/A Weight (lbs) Drilling Foreman N/A Rohn Dixon Sampler 4-foot long acetate liner Field Engineer Drop (in) NA Weight (lbs) Sampler Hammer NA Tyler Zorn Sample Data MATERIAL SYMBOL Remarks Elev Depth Number XRF Sample Description (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) (ft) Scale (ppm) R1A (0"-36"): Grey to reddish brown fine SAND, some 0.0 <LOD fine gravel, some medium sand, brick, concrete, wood 0.0 (dry) [FILL] Collected SB30 0-2. 0.0 MACROCORE <LOD 0.0 꼰 0.0 <LOD 0.0 3 0.0 <LOD R2A (8"-48"): Grey to reddish brown fine SAND, some 0.0 medium sand, trace fine gravel, brick, concrete (moist) 0.0 MACROCORE <LOD [FILL] 40/48 0.0 8 DISCIPLINE/ENVIRONMENTAL/GINTLOGS/170381202 0.0 <LOD 0.0 0.0 <LOD 0.0 0.0 <LOD R3A (18"-48"): Light tan to reddish brown fine SAND, 83 some fine gravel, brick, concrete (moist) [FILL] 0.0 0.0 <LOD 0.0 0.0 <LOD 12 \\LANGAN.COM\\DATA\\NY\\DATA2\170381202\\PROJECT DATA\\\ 13 R4A (18"-48"): Dark grey to black fine SAND, trace 8 medium sand, trace silt (wet) [SP-SM] 3.6 361.0 Petroleum-like odors and <LOD staining from 13 to 28 feet 1500 below grade surface (bgs). 1300 <LOD R5A (0"-48"): Dark grey to balck fine SAND, trace medium sand, trace silt (wet) [SP-SM] 315.0 15000 <LOD 15000 48/48 R5 15000 18 <LOD Collected SB30 16-18. 15000 15000 <LOD 15000



Log of Boring SB30/MW30 Sheet 2 of 2 Project Project No. 250 Water Street 170381202 Location Elevation and Datum 250 Water Street N/A Sample Data Remarks Depth Scale Elev Sample Description Jerome (ug/m³) XRF (ppm) (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) (ft) (ppm) 20 R6A (0"-48"): Dark grey to balck fine SAND, trace medium sand, trace silt (wet) [SP-SM] 15000 <LOD 21 15000 15000 <LOD 15000 22 15000 <LOD 23 15000 1825.0 <LOD 24 R7A (0"-48"): Grey fine SAND, some medium sand (wet) [SP] 1.7 25 5.8 <LOD MACROCORE 1.4 R_7 6.8 26 <LOD ||LANGAN.COM|DATAINYIDATA2\170381202|PROJECT DATA|_DISCIPLINE\ENVIRONMENTAL\GINTLOGS\170381202_ENTERPRISE_LH_UPDATED_TM.GPJ 8.0 27 8.0 <LOD 8.6 28 R8A (0"-48"): Brown to light grey fine SAND, some medium sand (wet) [SP] 2.4 <LOD 29 3.1 MACROCORE 4.0 <LOD 82 30 6.8 0.3 <LOD 31 1.2 Collected SB30_30-32. 2.0 <LOD 32 End of boring at 32 feet bgs. Monitoring well MW30 installed in borehole to 22 feet 33 bgs with screen between 12 and 22 feet bgs. 34 35 36 37 38 39 43



Log of Boring SB31/MW31 Sheet of 2 Project Project No. 250 Water Street 170381202 Elevation and Datum Location 250 Water Street N/A **Drilling Company** Date Started Date Finished AARCO Environmental Services, Corp. 8/24/20 8/24/20 Drilling Equipment Completion Depth Rock Depth AMS Power Probe 9580-VTR 32 ft N/A Core Size and Type of Bit Disturbed Undisturbed Number of Samples N/A 2-inch diameter closed point macro core 8 N/A Casing Diameter (in) Casing Depth (ft) Completion 24 HR. First Water Level (ft.) N/A N/A N/A N/A 11 Drop (in) N/A Casing Hammer N/A Drilling Foreman Weight (lbs) N/A Rohn Dixon Sampler 4-foot long acetate liner Field Engineer Drop (in) NA Weight (lbs) Sampler Hammer NA Lexi Haley Sample Data MATERIAL SYMBOL Remarks Elev Depth Number (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) Sample Description (ft) Scale Concrete 0.0 R1A (8"-41"): Reddish-brown fine SAND, some fine 0.0 Collected SB31 0-2. gravel, brick, concrete (dry) [FILL] 0.0 <LOD 꼰 0.0 0.0 <LOD 3 0.0 0.1 <I OD 5 MACROCORE 0.0 <LOD 29/48 R2A (19"-48"): Reddish brown fine SAND, some fine DISCIPLINE/ENVIRONMENTAL/GINTLOGS/170381202 0.0 gravel, brick, concrete (dry) [FILL] 0.0 <LOD 22.6 0.2 <LOD R3A (14"-39"): Reddish brown fine SAND, some fine 11.3 <LOD gravel, brck, concrete (dry) [FILL] 83 11.8 Petroleum-like odors and staining from 10 to 32 feet 1202 <LOD below grade surface (bgs). R3B (39"-42"): Concrete 734 2 <LOD R3C (42"-48"): Black fine SAND, trace fine gravel 12 (moist) [SP] \\LANGAN.COM\\DATA\\NY\\DATA2\170381202\\PROJECT DATA\\\ 13 333.2 <LOD R4A (18"-48"): Balck fine SAND, trace medium sand Ρ4 (wet) [SP] 15 R5 18 R5A (34"-48"): Dark grey to black fine SAND, trace 978.2 Collected SB31_18-20. <LOD medium sand (wet) [SP] 945.0 <LOD



Log of Boring SB31/MW31 Sheet 2 of 2 Project Project No. 250 Water Street 170381202 Location Elevation and Datum 250 Water Street N/A Sample Data Remarks Elev Depth Scale Sample Description Jerome (ug/m³) XRF (ppm) (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) (ft) (ppm) 20 21 12/48 86 22 23 450.0 <LOD R6A (36"-48"): Dark grey fine SAND, trace medium 1/25/2021 8:42:26 AM 310.0 sand (wet) [SP] 294.0 <LOD 24 R7A (0"-48"): Dark grey fine SAND, some medium sand (wet) SP 36.0 25 32.0 <LOD MACROCORE 24.0 R_7 54.0 26 <LOD ||LANGAN.COM|DATAINYIDATA2\170381202|PROJECT DATA|_DISCIPLINE\ENVIRONMENTAL\GINTLOGS\170381202_ENTERPRISE_LH_UPDATED_TM.GPJ 30.0 27 8.0 <LOD 2.8 28 29 MACROCORE R8A (28"-48"): Dark grey fine SAND, some medium 82 30 sand (wet) [SP] 23.0 <LOD 31 18.0 Collected SB31_30-32. 14.0 <LOD 32 End of boring 32 feet bgs. Borehole backfilled to 18 feet bgs with soil cuttings. 33 Monitoring well MW31 installed in borehole to 18 feet bgs with screen between 8 and 34 18 feet bgs. 35 36 37 38 39 43



Log of Boring SB32/MW32 Sheet of 2 Project Project No. 250 Water Street 170381202 Location Elevation and Datum 250 Water Street N/A Drilling Company Date Started Date Finished AARCO Environmental Services, Corp. 8/21/20 8/21/20 Drilling Equipment Completion Depth Rock Depth Geoprobe 7822 DT 28 ft N/A Core Size and Type of Bit Disturbed Undisturbed Number of Samples 2-inch diameter closed point macro core N/A N/A Casing Diameter (in) Casing Depth (ft) Completion 24 HR. First Water Level (ft.) N/A N/A 12 N/A N/A Drop (in) N/A Casing Hammer N/A Weight (lbs) Drilling Foreman N/A Rohn Dixon Sampler 4-foot long acetate liner Field Engineer Drop (in) N/A Weight (lbs) Sampler Hammer N/A N/A Tyler Zorn Sample Data MATERIAL SYMBOL Remarks Elev Depth Number Sample Description (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) (ft) Scale (ppm) R1A (0"-34"): Grey to reddish brown fine SAND, some fine gravel, trace medium sand, brick, concrete (dry) 0.0 <LOD [FILL] 0.0 Collected SB32 0-2. MACROCORE 0.0 <LOD 꼰 0.0 0.0 <LOD 3 5 MACROCORE DISCIPLINE/ENVIRONMENTAL/GINTLOGS/170381202 0.0 R2A (33"-48"): Grey to reddish brown fine SAND, some fine gravel, brick, concrete (dry) [FILL] 0.0 <LOD 0.0 9 R3A (28"-48"): Grey to black fine SAND, trace medium 83 Petroleum-like odors and sand, trace silt (moist) [SP-SM] 198.9 <LOD staining from 10 to 24 feet 10.7 below grade surface (bgs). 2.8 <LOD ∇ 3.4 12 \\LANGAN.COM\\DATA\\NY\\DATA2\170381202\\PROJECT DATA\\\ 13 8 R4A (24"-48"): Grey to black fine SAND, some medium 130.8 sand, trace silt (wet) [SP-SM] <LOD 62.3 Collected SB32_14-16. 126.8 <LOD 441.8 R5A (0"-48"): Brown to dark grey fine SAND, some medium sand (wet) [SP] 441.0 <LOD 740.1 365.2 <LOD 48/48 R5 57.8 18 330.9 <LOD 54.7 10.8 <LOD



Log of Boring SB32/MW32 Sheet 2 of 2 Project Project No. 250 Water Street 170381202 Location Elevation and Datum 250 Water Street N/A Sample Data Remarks Elev (ft) Depth Scale PID (ppm) Sample Description Jerome (ug/m³) XRF (ppm) (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) 20 R6A (0"-48"): Brown to grey medium SAND, some fine 4.6 sand (wet) [SP] 21 7.2 <LOD 86 3.4 22 2.1 <LOD 23 1/25/2021 8:42:30 AM . 1.9 24 R7A (0"-48"): Brown to grey medium SAND, some fine sand (wet) [SP] 2.3 <LOD 25 0.2 MACROCORE 48/48 0.0 <LOD R_7 26 0.0 ||LANGAN.COM|DATAINYIDATA2\170381202|PROJECT DATA|_DISCIPLINE\ENVIRONMENTAL\GINTLOGS\170381202_ENTERPRISE_LH_UPDATED_TM.GPJ 0.0 <LOD 27 Collected SB32 26-28. 0.0 0.0 <LOD 28 End of boring at 28 feet bgs. Monitoring well MW32 installed in borehole to 19 feet 29 bgs with screen between 9 and 19 feet bgs. 30 31 32 33 34 35 36 37 38 39 43

DISCIPLINE/ENVIRONMENTAL/GINTLOGS/170381202

\\LANGAN.COM\\DATA\\NY\\DATA2\170381202\\PROJECT DATA\\\

Log of Boring SB33/MW33 Sheet of 1 Project Project No. 250 Water Street 170381202 Location Elevation and Datum 250 Water Street N/A Drilling Company Date Started Date Finished AARCO Environmental Services, Corp. 8/21/20 8/21/20 Drilling Equipment Completion Depth Rock Depth Geoprobe 7822 DT 20 ft N/A Size and Type of Bit Disturbed Undisturbed Core Number of Samples 5 2-inch diameter closed point macro core N/A N/A Casing Diameter (in) Casing Depth (ft) Completion 24 HR. First Water Level (ft.) N/A N/A 12 N/A N/A Drop (in) N/A Casing Hammer N/A Weight (lbs) Drilling Foreman N/A Rohn Dixon Sampler 4-foot long acetate liner Field Engineer Drop (in) N/A Weight (lbs) Sampler Hammer N/A N/A Tyler Zorn Sample Data MATERIAL SYMBOL Remarks Elev Depth Number Sample Description (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) (ft) Scale (ppm) R1A (0"-24"): Grey to reddish brown fine SAND, some fine gravel, some medium sand, brick, concrete (dry) 0.0 <LOD [FILL] 0.0 Collected SB33 0-2. MACROCORE 0.0 <LOD 꼰 0.0 3 5 MACROCORE 0.0 R2A (23"-48"): Brownish grey to reddish brown fine <LOD SAND, some fine gravel, some medium sand, brick, 0.0 concrete (dry) [FILL] 0.0 <LOD 0.0 0.0 R3A (18"-48"): Brown to black fine SAND, trace silt <LOD 83 (moist) [SP-SM] 0.0 0.0 <LOD Petroleum-like odors from 10.5 to 14 feet below grade surface 2.2 (bgs). 6.6 <LOD ∇ 12 Collected SB33_11-13. 13 0.7 R4A (20"-48"): Brown to grey fine SAND, trace silt (wet) 8 [SP-SM] 1.5 <LOD 1.6 8.0 <LOD R5A (0"-48"): Grey to dark grey fine SAND, some silt 0.0 (wet) [SP-SM] 0.0 <LOD 0.0 48/48 0.0 R5 <LOD 18 End of boring at 20 feet bgs. 0.0 Monitoring well MW33 0.0 installed in borehole to 19 feet <LOD bgs with screen between 9 and 0.0 19 feet bgs.

0.0

1/25/2021 8:42:36 AM

DISCIPLINE/ENVIRONMENTAL/GINTLOGS/170381202 ENTERPRISE LH UPDATED TM.GPJ ...

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Log of Boring SB34/MW34 Sheet of 1 Project Project No. 250 Water Street 170381202 Location Elevation and Datum 250 Water Street N/A Drilling Company Date Started Date Finished 8/25/20 AARCO Environmental Services, Corp. 8/25/20 **Drilling Equipment** Completion Depth Rock Depth AMS Power Probe 9580-VTR 20 ft N/A Size and Type of Bit Disturbed Undisturbed Core Number of Samples 5 2-inch diameter closed point macro core N/A N/A Casing Diameter (in) Casing Depth (ft) Completion 24 HR. First Water Level (ft.) N/A N/A N/A N/A 11 Drop (in) N/A Casing Hammer N/A Weight (lbs) Drilling Foreman N/A Rohn Dixon Sampler 4-foot long acetate liner Field Engineer Drop (in) N/A Weight (lbs) Sampler Hammer N/A N/A Tyler Zorn Sample Data MATERIAL SYMBOL Remarks Elev Depth XRF (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) Sample Description (ft) Scale No Recovery 꼰 3 5 Collected SB34_4-6. MACROCORE R2A (26"-48"): Reddish brown to dark brown fine SAND, 0.0 <LOD some gravel, some silt, brick, concrete (dry) [FILL] 0.0 0.1 <LOD R3A (0"-32"): Reddish brown to greenish brown fine SAND, some gravel, some silt, brick, concrete (dry) 0.0 [FILL] 0.0 <LOD 0.1 83 R3B (32"-48"): Brown to grey fine SAND, trace medium \square 0.2 <LOD Collected SB34_10-12. sand (wet) [SP] 0.0 R4A (4"-48"): Light brown to grey fine SAND, some 2.6 <LOD medium sand (wet) [SP] 13 Collected SB34 12-14. 4.2 Ρ4 3.8 <LOD Petroleum-like odors from 14 1.0 to 16 feet below grade surface (bgs). Collected SB34_18-20. 13/48 R5 18 End of boring at 20 feet bgs. 0.2 <LOD Monitoring well MW34 0.2 installed in borehole to 19 feet 19 R5A (35"-48"): Grey fine SAND, some medium sand bgs with screen between 9 and (wet) [SP] 0.2 19 feet bgs.

•								roje	ect No.										
Location		250 Water Street						=levs	ation ar	nd Da		1703	381202	2					
Location		250 Water Street					ľ	LICVA	alion ai	iu Da		N/A							
Orilling (Compa							Date	Starte	<u> </u>		IN/A			Date I	Finished			
		AARCO Environment	al Services, Corp	ο.								8	/25/20					8/25/20	
Orilling E	Equipm	nent						Com	pletion	Dept	th				Rock	Depth			
		AMS Power Probe 95	80-VTR									D: 1	28 ft					N/A	
Size and	гуре	2-inch diameter close	d point macro co	ore			١	Num	ber of	Samp	oles	DIST	ırbed	7	Un	disturbed	N/A	Core	N/A
Casing [Diamet	er (in)			Casi	ing Depth (ft)	1 \	Nate	er Leve	(ft)		First				mpletion		24 HR.	
211		N/A	Weight (lbs)		 	N/A			ng Fore	` ,		∇		7.5	1		N/A	$ar{ar{ar{\Lambda}}}$	N/
Casing I		^e N/A	Weight (ibs)	N/A	'	Drop (in) N/A	'	JI IIIII	ing i ore	illai		ohn [Dixon						
Sampler		4-foot long acetate lin					F	ield	Engine	eer	- 11	OHITE	ווטאוכ						
Sampler	Hamn	ner N/A	Weight (lbs)	N/A	[Drop (in) N/A	.				T	yler Z	orn.						
L'A	[•										nple Da	ata			Rem	arke	
MATERIAL SYMBOL	Elev. (ft)	Sa	ample Descrip	tion			PID (ppm		Depth Scale	Number	Type	cov.	Penetr. resist BL/6in	Jerome	XRF	(Drillir		epth of Car Resistanc	sing,
ĕώ	`		<u> </u>					Ш	- 0 —	Ž	F	Re	Pe BL	(ug/m³)	(ppm)	Fluid Lo	ss, Drilling	Resistanc	e, etc
		R1A (0"-26"): Redd fine gravel, brick, as				, some	0.0	F	U	_					<lod< td=""><td></td><td>-</td><td></td><td></td></lod<>		-		
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\ggg							0.0	L		1	ORE	_			<lod< td=""><td>Collec</td><td>ted SB3</td><td>J_U-2.</td><td></td></lod<>	Collec	ted SB3	J_U-2.	
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>>>>								F		7	MACROCORE	48							
\ggg								E	6 -	22	CRC	18/48							
>>>>		R2A (30"-41"): Red	dish brown to gr	ey fine S	SANE	D, some	0.0	-	7 -		MA								
$\times\!\!\times\!\!\times$		fine gravel, brick, co			0 050	<u> </u>	0.0		′ -						<lod< td=""><td></td><td></td><td></td><td></td></lod<>				
		trace silt (wet) [SP-	MITTINE SAND, S SM]	ome me	e gra	ivei,	0.0	E	8 -										
	1	R3A (2"-18"): Brow	n to grey fine SA	ND, sor	me si	ilt, trace	6.0	E							<lod< td=""><td></td><td></td><td></td><td></td></lod<>				
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/×		13 7 74 (10 -34). 11111	oo!					Ł	14 -	R4	000	32/48				(bgs).	. DOIOW	grade su	
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/ X	1	R4B (34"-48"): Ligh	t brown to grey f	ine SAN	ND, s	ome	20.0	E	15 -	1	≥								
		wood, trace mediun	n sand (wet) [ŚP]	•		18.0	5 E	=						<lod< td=""><td></td><td></td><td></td><td></td></lod<>				
]	R5A (0"-42"): Light	brown to arev fir	ne SANI	D tra	ace	3.0	ŀ	16 -	_					_00				
]	medium sand (wet)	[SP]	.5 5/3/11	_,a		0.8	Ė	=	1					<lod< td=""><td></td><td></td><td></td><td></td></lod<>				
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	1	R5B (42"-48"): Ligh		ine SAN	ND, s	ome	0.8	F	19 -	1									
		medium sand (wet)	ומסו						-	1			I						



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SB35 Log of Boring Sheet 2 of 2 Project Project No. 250 Water Street 170381202 Location Elevation and Datum 250 Water Street N/A Sample Data Remarks Elev (ft) Depth Scale PID (ppm) Sample Description Jerome (ug/m³) XRF (ppm) (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) 20 R6A (0"-48"): Brown fine SAND, some medium sand 0.3 <LOD (wet) [SP] 0.4 21 1.5 <LOD 1.5 22 4.7 <LOD 1.4 23 3.3 <LOD 24 25 MACROCORE 18/48 R_7 26 0.0 R7A (30-48"): Brown fine SAND, some medium snad 0.0 27 (wet) SP Collected SB35 26-28. 0.0 28 End of boring at 28 feet bgs (refusal). Borehole backfilled with soil cuttings and clean sand to grade and sealed with 29 30 31 32 33 34 35 36 37 38 39 43

Log of Boring **SB36** Sheet of 2 Project Project No. 250 Water Street 170381202 Location Elevation and Datum 250 Water Street N/A Drilling Company Date Started Date Finished 8/24/20 AARCO Environmental Services, Corp. 8/24/20 Drilling Equipment Completion Depth Rock Depth AMS Power Probe 9580-VTR 24 ft N/A Size and Type of Bit Disturbed Undisturbed Core Number of Samples 2-inch diameter closed point macro core 6 N/A N/A Casing Diameter (in) Casing Depth (ft) Completion 24 HR. First Water Level (ft.) 16 N/A N/A N/A N/A Drop (in) N/A Casing Hammer N/A Weight (lbs) Drilling Foreman N/A Rohn Dixon Sampler 4-foot long acetate liner Field Engineer Drop (in) N/A Weight (lbs) Sampler Hammer N/A N/A Lexi Haley Sample Data MATERIAL SYMBOL Remarks Elev Depth PID (ppm) Number XRF Sample Description (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) (ft) Scale (ppm) R1A (0"-35"): Light brown to black fine SAND, some fine 0.0 gravel, trace medium sand, brick, concrete, glass (dry) [FILL] <LOD 0.2 Collected SB36 0-2. 0.7 MACROCORE <LOD \overline{x} 3.5 <LOD 26.2 3 Collected SB36 2-4. R2A (2"-14"): Black fine SAND, some fine gravel, brick, 3.2 <LOD concrete, lumber (dry) [FILL] 4.2 5 Petroleum-like odors from 2 to 4.0 MACROCORE <LOD R2B (14"-26"): Concrete 6 feet below grade surface 46/48 42 (bgs). 8 1.8 R2C (26"-32"): Reddish brown to black fine SAND, <LOD some fine gravel, brick, concrete, lumber (dry) [FILL] 0.7 R2D (32"-36"): Concrete DISCIPLINE/ENVIRONMENTAL/GINTLOGS/ 0.3 <LOD R2E (36"-48"): Light brown to dark brown fine SAND, 0.2 some fine gravel, concrete, wood, brick, glass (dry) [FILL] 9 83 R3A (30"-48"): Light brown to grey fine SAND, some 0.2 <LOD fine gravel, brick, concrete (dry) [FILL] 0.0 12 ILANGAN.COMIDATAINYIDATA2\170381202\PROJECT DATAI 13 Ρ4 R4A (30"-48"): Light grey to dark brown fine SAND, 3.2 <LOD some fine gravel, lumber (moist) [FILL] 4.0 ∇ R5A (2"-48"): Brown to grey fine SAND, trace fine 0.7 <LOD gravel, trace medium sand (wet) [SP] Collected SB36 16-18. 17.9 46/48 7.4 R5 <LOD 18 3.0 Petroleum-like odors from 17 5.7 to 22 feet bgs



SB36 Log of Boring Sheet 2 of 2 Project Project No. 250 Water Street 170381202 Location Elevation and Datum 250 Water Street N/A Sample Data Remarks Elev (ft) Depth Scale PID (ppm) Sample Description Jerome (ug/m³) XRF (ppm) (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) 20 R6A (0"-48"): Brown to grey fine SAND, some medium sand (wet) [SP] 3.3 21 8.0 48/48 <LOD 86 2.6 22 5.7 <LOD 23 3.6 Collected SB36_22-24. NLANGAN.COMIDATANYIDATA2/170381202/PROJECT DATA_DISCIPLINEIENVIRONMENTAL\GINTLOGS\170381202_ENTERPRISE_LH_UPDATED_TM.GPJ ... 1/25/2021 8:42:42 AM . 1.3 <LOD 24 End of boring at 24 feet bgs. Borehole backfilled with soil cuttings and clean sand to 25 grade and sealed with concrete. 26 27 28 29 30 31 32 33 34 35 36 37 38 39 43

Log of Boring **SB37** Sheet of 1 Project Project No. 250 Water Street 170381202 Location Elevation and Datum 250 Water Street N/A Drilling Company Date Started Date Finished 8/20/20 AARCO Environmental Services, Corp. 8/20/20 **Drilling Equipment** Completion Depth Rock Depth Geoprobe 7822 DT 20 ft N/A Size and Type of Bit Disturbed Undisturbed Core Number of Samples 2-inch diameter closed point macro core 5 N/A N/A Casing Diameter (in) Casing Depth (ft) Completion 24 HR. First Water Level (ft.) N/A N/A N/A N/A Drop (in) N/A Casing Hammer N/A Drilling Foreman Weight (lbs) N/A Rohn Dixon Sampler 4-foot long acetate liner Field Engineer Drop (in) N/A Weight (lbs) Sampler Hammer N/A N/A Tyler Zorn Sample Data MATERIAL SYMBOL Remarks Elev Depth XRF (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) Sample Description (ft) Scale (ppm) R1A (0"-12"): Dark grey to black medium SAND, 0.0 <LOD concrete, asphalt (dry) [FILL] 0.0 R1B (12"-26"): Reddish brown fine SAND, some 0.0 <LOD medium sand, trace fine gravel, trace silt, brick (moist) [FILL] 꼰 0.0 <LOD 3 Collected SB37 2-4. 5 MACROCORE DISCIPLINE/ENVIRONMENTAL/GINTLOGS/170381202 R2A (32"-48"): Light tan to reddish brown fine SAND, 0.0 Collected SB37 6-8. some fine gravel, trace medium sand, trace silt, brick 0.0 <LOD (moist) [FILL] 0.0 0.0 R3A (20"-42"): Light grey to reddish brown fine SAND, 83 <LOD some fine gravel, trace medium sand, trace silt, brick 0.0 (moist) [FILL] 0.0 <I OD 0.0 R3B (42"-48"): Brown to grey fine SAND, some medium 0.0 <LOD sand, trace silt (mosit) [SP-SM] ILANGAN.COMIDATAINYIDATA2\170381202\PROJECT DATAI R4A (10"-48"): Brown to grey fine SAND, some medium 13 0.0. Collected SB37 12-14. sand, trace silt (wet) [SP-SM] 0.0 <LOD Ρ4 0.0 15 0.0 <LOD 0.0 R5A (0"-48"): Brown to grey medium SAND, some fine sand, trace silt (wet) [SP-SM] 0.0 <LOD 0.0 0.0 <LOD End of boring at 20 feet below 48/48 R5 grade surface. Borehole 0.0 18 backfilled with soil cuttings and 0.0 <LOD clean sand to grade and 0.0 19 sealed with concrete. 0.0

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Drilling Com						l _D	ate Starte	d				Date	e Finished		
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		ong acetate lin			Dron (in)	F	ield Engin	eer							
Sampler Har	nmer	N/A	Weight (lbs)	N/A	Drop (in)	\			A		Heath				
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	R3A	19"-48"): Bro	wn fine SAND, tr	ace clay	, trace silt	0.0	10 -	22	000	/48					
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		7"-25"): Brow	n fine SAND, tra	ce clay,	trace silt	0.0	‡ <u>, </u> :	1							
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	R5B	23"-48"): Brov	wn fine SAND, tr	ace med	lium sand	0.0	18 -	R3	RO	43/48					
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LANGAN Log of Boring **SB38** Sheet 2 of 2 Project Project No. 250 Water Street 170381202 Location Elevation and Datum 250 Water Street N/A Sample Data Remarks Elev (ft) Depth Scale PID (ppm) Sample Description Jerome (ug/m³) XRF (ppm) (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) 20 0.0 R6A (0"-23"): Brown fine SAND, trace medium sand 0.0 (wet) [SP] 21 0.0 Collected SB38_22-24. 0.0 46/48 86 0.0 22 <LOD R6B (25"-48"): Brown fine SAND, trace clay (wet) 0.39 0.0 23 0.0 0.0 24 0.0 End of boring at 24 feet below grade surface. Borehole <LOD 0.05 backfilled with soil cuttings and 25 clean sand to grade and sealed with concrete. 26 27 28 29 30 31 32 33 34 35 36 37 38 39 43

Log of Boring **SB39** Sheet of 2 Project Project No. 250 Water Street 170381202 Elevation and Datum Location 250 Water Street N/A Drilling Company Date Started Date Finished 8/3/20 8/3/20 AARCO Environmental Services, Corp. **Drilling Equipment** Completion Depth Rock Depth Geoprobe 7822 DT 24 ft N/A Size and Type of Bit Disturbed Undisturbed Core Number of Samples N/A 2-inch diameter closed point macro core 6 N/A Casing Diameter (in) Casing Depth (ft) Completion 24 HR. First Water Level (ft.) N/A N/A N/A N/A 17.5 Drop (in) N/A Casing Hammer N/A Drilling Foreman Weight (lbs) N/A Sergio Magana Sampler 4-foot long acetate liner Field Engineer Drop (in) N/A Weight (lbs) Sampler Hammer N/A N/A Adrian Heath Sample Data MATERIAL SYMBOL Remarks Elev PID (ppm) Depth (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) Sample Description (ft) Scale 0 0.0 0.0 R1A (3"-48"): Brown fine SAND, trace coarse sand, trace medium sand, brick, ceramics (dry) [FILL] 0.0 Collected SB39 0-2. 0.0 꼰 0.0 0.27 <LOD 0.0 0.0 3 0.0 0.0 0.19 <LOD 5 MACROCORE 0.0 R2A (0"-27"): Brown fine SAND, trace coarse sand, trace medium sand, brick, ceramics (dry) [FILL] 0.0 0.40 <LOD 0.0 0.0 0.0 0.57 22.0 Collected SB39 8-10. 0.0 R3A (0"-28"): Brown fine SAND, trace coarse sand, 83 0.0 trace medium sand, brick, ceramics (dry) [FILL] 0.29 24.0 0.0 0.0 0.0 0.21 <LOD 12 ILANGAN.COMIDATAINYIDATA2\170381202\PROJECT DATAI 13 Ρ4 0.0 <LOD R4A (0"-24"): Brown fine SAND, trace coarse sand, 0.36 trace medium sand, brick, ceramics (dry) [FILL] 0.0 15 0.0 0.0 0.0 <LOD 0.10 0.0 R5A (0"-9"): Brown fine SAND, trace coarse sand, trace 17 medium sand, brick, ceramics (dry) [FILL] 0.0 R5B (9"-20"): Brown fine SAND, some medium sand, 0.0 42/48 trace coarse sand (wet) [SP] R5 0.0 18 0.12 <LOD R5C (20"-42"): Brown fine SAND, trace medium sand, 0.0 trace silt (wet) 0.0 19 Collected SB39_18-20. 0.0



Log of Boring **SB39** Sheet 2 of 2 Project Project No. 250 Water Street 170381202 Location Elevation and Datum 250 Water Street N/A Sample Data Remarks Elev (ft) Depth Scale PID (ppm) Sample Description Jerome (ug/m³) XRF (ppm) (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) 20 R6A (0"-48"): Brown fine SAND, some medium sand, 0.0 <LOD 0.0 trace coarse sand (wet) [SP] 21 0.0 0.0 48/48 0.0 22 <LOD 0.28 0.0 23 0.0 Collected SB39_22-24. ILANGAN.COMIDATAINYIDATA2/170381202/PROJECT DATA_DISCIPLINEIENVIRONMENTAL/GINTLOGS/170381202_ENTERPRISE_LH_UPDATED_TM.GPJ ... 1/25/2021 8:42:53 AM. 0.0 24 0.0 <LOD End of boring at 24 feet below 0.00 grade surface. Borehole backfilled with soil cuttings and 25 clean sand to grade and sealed with concrete. 26 27 28 29 30 31 32 33 34 35 36 37 38 39 43

Project			4/V					Boring _ oject No.			SB4				Sheet	1	of	:
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	AARCO) Environmer	ntal Services, Corp).							7/	/27/20					7/27/20	
Drilling Equ		ho 7000 DT					Coi	mpletion D	ept	h		20 f		Rock	Depth		NI/A	
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	R4A	(0"-18"): Tan	to brown fine SAN sand, coal, brick	ND, trac		0.0	Г	[]		MACI	2		5.20	200				
	Sanu	, uaut uuaise	, Janu, OJai, DNCK	(ury) [F	ILL] <u>Z</u>	0	Г	15										
XXXX	R4R	(18"-21")· Br	own fine SAND, tr	ace me	dium sand	0.0	H	16										
	(wet)			300 m	a.a.ii Juilu	0.0	Г						80.0	<lod< td=""><td></td><td></td><td></td><td></td></lod<>				
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			yish brown fine SA	AND, tra	ace medium	0.0	.0			MACROCORE	<u>ھ</u>							
	sand	, uace coarse	e sand (wet) [SP]			0.0		18 = 1	R5	CROC	33/48		0.07	<lod< td=""><td></td><td></td><td></td><td></td></lod<>				
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Log of Boring **SB4E1** Sheet 2 of 2 Project No. 250 Water Street 170381202 Location Elevation and Datum 250 Water Street N/A Sample Data Remarks Elev Depth Scale Sample Description Jerome (ug/m³ XRF (ppm) (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) (ft) (ppm) 20 0.0 <LOD R6A (0"-45"): Greyish brown fine SAND, trace medium 0.0 sand, trace coarse sand (wet) [SP] 0.0 21 0.0 0.0 22 <LOD 0.04 0.0 23 0.0 1/25/2021 8:42:56 AM 0.0 24 R7A (0"-38"): Greyish brown fine SAND, trace medium 25 0.0 <LOD 0.01 sand, trace coarse sand (wet) [SP] 0.0 R_7 0.0 26 ||LANGAN.COM|DATAINYIDATA2\170381202|PROJECT DATA|_DISCIPLINE.ENVIRONMENTAL\GINTLOGS\170381202_ENTERPRISE_LH_UPDATED_TM.GPJ 0.0 27 0.0 <LOD 0.0 28 R8A (0-22"): Greyish brown fine SAND, trace medium sand, trace coarse sand (wet) [SP] 22/24 88 29 0.0 0.11 <LOD 0.0 0.0 30 End of boring at 30 feet below grade surface. Borehole backfilled with soil cuttings and 31 clean sand to grade and sealed with asphalt. 32 33 34 35 36 37 38 39 43

Project	/VLJ/	_		•		oring	_			4E2			Sheet	1	of	
-	250 Water Street			[. 5	,			170	381202						
Location				Ī	Ele	vation a	nd Da	atum								
	250 Water Street								N/A							
Drilling Compa				Ţ	Dat	te Starte	d _				T	Date	Finished			
Daillia - E - 1	AARCO Environmen	tal Services, Corp.		4			_	41-	7	/28/20	_	<u> </u>	D "	7	/28/20	
Drilling Equipm				[Cor	mpletion	υер	th		00.5		Kock	Depth			
Size and Type	Geoprobe 7822 DT			\perp					Diet	30 ft urbed		Hr	ndisturbed	1	N/A Core	
	อเ ธเเ 2-inch diameter close	ed point macro core		ļ	Nur	mber of	Sam	ples	ואוטן	urbeu	8			N/A	COIE	N/A
Casing Diamete	er (in)		Casing Depth (ft		Wء	ater Leve	l (ft \		Firs	t			mpletion		24 HR.	
0	N/A	Weight (lbs)	Drop (in)	\		lling For	` '		∇		15	1.	<u> </u>	N/A	<u>Ā</u>	N/A
Casing Hamme	N/A	N/A	Drop (in)	<u> </u>	וווט	iiiig Fuli	undi		ت بادا	iurro						
Sampler	4-foot long acetate lir	ner		_ L	Fiel	ld Engin	eer	N	ick T	umo						
Sampler Hamm		Weight (lbs)	Drop (in)	\square		9///		Δ	shla	/ Stappen	hecl	,				
٠ . ا	IW/A	IN/A	IN/F		П		L	^		mple Data		_		_		
MATERIAL SYMBOL (tt)	9	ample Description		PID	D	Depth	ber	φ			ome	XRF	(D.::III:	Rema		in-
SYM (ft)	3	ampic Description		(ppn	m)	Scale	Number	Type	Rec (ii)	Penetr. resist BL/6in Jer		(ppm)	Fluid Los	s, Drilling	epth of Cas Resistance	e, etc
	_ Asphalt				\dashv	_ 0 _	Ť			-	+					
XXX	R1A (0-35"): Brown	n fine SAND, trace medi		0.0	۱ ۱	_ :	1									
XXX		ics, concrete (dry) [FILL		0.0	o E	_ 1 -	1	ш								
XXXX				0.0	0	- :	1	30R	œ	0.	.07	<lod< td=""><td></td><td></td><td></td><td></td></lod<>				
₩				0.0	o F	_ 2 -	쮼	MACROCORE	35/48							
₩				0.0	0	- :	1	MAC	(1)							
⋙ ∣				0.0	0	_ 3 -	}	_		0	.06	<lod< td=""><td></td><td></td><td></td><td></td></lod<>				
XXXX					þ	Ξ :	1									
XXX					E	4 -	1	+								
XXX					þ	_ :	1									
XXX	R2A (0-36"): Brown	n fine SAND, trace medi	um sand	0.0	o E	_ 5 -	1	LI I								
XXXX		ics, concrete (dry) [FILL		0.0	0	_ :	1	MACROCORE	_∞							
XXXX	<i>,</i>	. ,,,	-	0.0	0	6 -	22	ROC	36/48	n	.13	<lod< td=""><td></td><td></td><td></td><td></td></lod<>				
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₩					F	- :	1			"	.57	,LOD				
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XXXX	D3A (0.30"), Dec	n fina CAND trace	um cand	0.0	o E	-	1	ORE	~							
₩	brick, glass. ceram	n fine SAND, trace medi ics, concrete (dry) [FILL	um sanu,]	0.0	H	10 -	23	MACROCO	32/48		.12	<lod< td=""><td></td><td></td><td></td><td></td></lod<>				
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XXXX				0.0	- 1	- - 11 -	1	2								
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₩					F	_ :	1					_00				
*****	PAA (0.26"): Provi	n fine SAND, trace medi	um sand	0.0	o þ	_ 13 -	1	ļ								
₩	brick, glass, ceram	ics, concrete (dry) [FILL	um sanu,]	0.0		_ :	1	MACROCORE	σ.							
XXXX	, 5 ., 2	, (), [-	0.0	H	_ 14 -	8	30C	38/48		.12	<lod< td=""><td></td><td></td><td></td><td></td></lod<>				
XXXX				0.0	Г		1	1ACF	ကိ	"	. 12	-LOD				
XXXX	DAR (26 20"\- D	un fino SAND same :	dium sand	0.0	- 1	- - 15 -	1	2								
	(wet) [SP]	wn fine SAND, some me	uium sand	0.0		- -	1									
	(, [- ·]			0.0	H	_ _ 16 -	_	+	_	<u> </u>	.10	<lod< td=""><td>]</td><td></td><td></td><td></td></lod<>]			
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					F	- 17 -	†									
					Ė	- · · · ·	1	ORE								
	DEA (0.00E) D	CAND "		0.0	o F	18	R5	MACROCORE	28/48			41 OF				
	R5A (0-28") Brown (wet) [SP]	fine SAND, some medi	um sand	0.0		- · · · ·] _	ACF	28		.02	<lod< td=""><td></td><td></td><td></td><td></td></lod<>				
	() [01]			0.0	- 1	19	1	Ž								
				0.0			1									
. /: /: L				0.0	ĭÞ	_	1						1			



Log of Boring **SB4E2** Sheet 2 of 2 Project Project No. 250 Water Street 170381202 Location Elevation and Datum 250 Water Street N/A Sample Data Remarks Elev Depth Scale Sample Description XRF (ppm) (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) (ft) (ppm) (ug/m³ 20 0.0 <LOD 0.0 R6A (0-44") Brown fine SAND, some medium sand (wet) [SP] 0.0 21 0.0 **R**6 0.0 22 0.06 <LOD 0.0 23 0.0 1/25/2021 8:43:00 AM 0.0 24 0.0 0.08 <LOD R7A (0-40"): Brown fine SAND, some medium sand 25 (wet) [SP] 0.0 MACROCORE 0.0 R^{7} 0.0 26 0.06 <LOD ||LANGAN.COM|DATAINYIDATA2\170381202|PROJECT DATA|_DISCIPLINE.ENVIRONMENTAL\GINTLOGS\170381202_ENTERPRISE_LH_UPDATED_TM.GPJ 0.0 27 0.0 0.0 0.0 28 0.06 <LOD R8A (0-24"): Brown fine SAND, some medium sand MACROCORE 0.0 (wet) [SP] 24/24 88 29 0.0 0.06 <LOD 0.0 0.0 30 0.02 <LOD End of boring at 30 feet below grade surface. Borehole backfilled with soil cuttings and 31 clean sand to grade and sealed with asphalt. 32 33 34 35 36 37 38 39 43

Project					F	Project No.										
Location	250 Water Street				- I	Elevation ar	nd Da	atum		381202						
	250 Water Street								N/A							
Orilling Compa						Date Started	t					Date F	Finished			
Orilling Equipm	AARCO Environmenta	al Services, Corp	p.			Completion	Den	oth	7	/28/20		Rock	Depth	7	//28/20	
Jiming Equipm	Geoprobe 7822 DT				`	Sompletion	Бор			30 ft		I took	Борин		N/A	
Size and Type	of Bit	.1				Number of S	Samı	ples	Dist	urbed		Un	disturbed		Core	N1/A
Casing Diamet	2-inch diameter close ter (in)	a point macro co		Casing Depth (ft)	-				First		8	Co	mpletion	N/A	24 HR.	N/A
2	N/A	Weight (lbs)		N/A	, v	Water Level			∇	-	18	Ī	<u></u>	N/A	$ar{ar{\Lambda}}$	N/A
Casing Hamme	^e N/A	Weight (ibs)	N/A	Drop (in)	_ '	Jilling i ore	illai		lick T	urro						
· .	4-foot long acetate lin	er Weight (lbs)		Dron (in)	F	Field Engine	eer		iioit i	uno						
Sampler Hamn	ner N/A	vveigni (ibs)	N/A	Drop (in)	\perp			Α		/ Stappe		k				
SYMBOL (tt)	0.	I- Di-	4:		PID	Depth	ē	0		mple Dat		XRF		Rema		
MATE (ft)	58	ample Descrip	tion		(ppm) Scale	Number	Туре	Recov.	Penetr. resist BL/6in	ig/m³)	(ppm)	(Drillir Fluid Lo	ng Fluid, De ss, Drilling	epth of Cas Resistanc	sing, e, etc.
XXXX	Asphalt				-	 0 -	Ė									
XXX	R1A (0-34"): Dark b), trace co	parse sand,	0.0											
XXX	brick, coal, coriciete	; (ury) [FILL]			0.0			SRE								
XXX					0.0		꼰	MACROCORE	34/48		0.23	63.0				
XXX					0.0	F 3		MACF	κ'n							
>>> 					0.0	<u> </u>		_			0.00	<lod< td=""><td></td><td></td><td></td><td></td></lod<>				
XXX					0.0	E ₄ =										
XXX						F 4 =										
>>>> 						E 5 -										
	R2A (0-3"): Dark br		trace coa	rse sand,	0.0	F 3		SORE	8							
	brick, coal, concrete R2B (3-10"): Brown	fine SAND, trad	ce silt (dry	<u>')</u>	0.0	<u> </u>	R2	MACROCORE	30/48		0.06	<lod< td=""><td></td><td></td><td></td><td></td></lod<>				
	R2C (10-30"): Brow				0.0	⊢		MAC								
	(dry) [SP]				0.0											
					0.0						0.00	<lod< td=""><td></td><td></td><td></td><td></td></lod<>				
						Ė :					0.00					
	D2A (0.24"), Drove	fine CAND see	ma madiuu	d		9 -		믮								
	R3A (0-34"): Brown (dry) [SP]	TITIE SAIND, SOF	ne mediui	n sanu	0.0		33	()	34/48							
					0.0		E E	MACROCO	34	'	80.0	<lod< td=""><td></td><td></td><td></td><td></td></lod<>				
					0.0			Ž								
					0.0	· E = 3										
					0.0	- 12 -					0.02	<lod< td=""><td></td><td></td><td></td><td></td></lod<>				
						13 -										
						13		JRE								
	R4A (0-24"): Brown	fine SAND sor	me mediu	m sand	0.0	14	R 4	MACROCORE	28/48		0.00	<lod< td=""><td></td><td></td><td></td><td></td></lod<>				
	(dry) [SP]	IIIIE SAIND, SUI	ne meului	ıı sanu	0.0			MACF	2		0.00					
					0.0	Г -										
					0.0	F										
	DEA (0.04E) 5	E. CANE			0.0						0.00	<lod< td=""><td></td><td></td><td></td><td></td></lod<>				
	R5A (0-24") Brown [SP]	tine SAND, som	ne mediun	n sand (dry)	0.0											
				\	0.0	L _		MACROCORE	<u>∞</u>							
				$\bar{\Delta}$	0.0		R5	CROC	44/48		0.06	<lod< td=""><td></td><td></td><td></td><td></td></lod<>				
	R5B (24-44"): Brow	n fine SAND, so	ome medi	um sand,	0.0	-	1	MAC	-							
	trace coarse sand (wet) [SP]			0.0											
					0.0	F	1									



Log of Boring **SB4N1** Sheet 2 of 2 Project Project No. 250 Water Street 170381202 Location Elevation and Datum 250 Water Street N/A Sample Data Remarks Elev Depth Scale Sample Description Jerome (ug/m³ XRF (ppm) (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) (ft) (ppm) 20 <LOD R6A (0-39") Brown fine SAND, some medium sand, 21 0.0 trace coarse sand (wet) [SP] 0.0 0.0 22 <LOD 0.02 0.0 23 0.0 1/25/2021 8:43:04 AM 0.0 24 0.0 0.00 0.1 0.0 R7A (0-42"): Brown fine SAND, trace medium sand, 25 0.0 trace coarse sand (wet) [SP] MACROCORE 0.0 R_7 0.0 26 0.07 <LOD ||LANGAN.COM|DATAINYIDATA2\170381202|PROJECT DATA|_DISCIPLINE\ENVIRONMENTAL\GINTLOGS\170381202_ENTERPRISE_LH_UPDATED_TM.GPJ 0.0 27 0.0 0.0 0.0 28 0.00 <LOD MACROCORE 0.0 R8A (0-20"): Brown fine SAND, trace medium sand, 20/24 88 29 trace coarse sand (wet) [SP] 0.0 0.0 0.0 30 0.00 <LOD End of boring at 30 feet below grade surface. Borehole backfilled with soil cuttings and 31 clean sand to grade and sealed with asphalt. 32 33 34 35 36 37 38 39 43

L	_/	4		G F	4/V		Lo	g of E	3oring			SB	4N3			Sheet	1	of	1
Pro	oject		05014/ /	O				Pr	oject N	0.		470	00400	_					
Lo	cation		250 Water	Street				Ele	evation	and D	Datun	170 1	381202	2					
	::::	·	250 Water	Street						41		N/A			D-4- I	-:-:			
Dri	illing C	ompa	-	vironmen	tal Services, Corp	1		Da	ate Star	tea		8	/26/20		Date	inished	8/2	6/20	
Dri	illing E	quipn	nent			•		Co	ompletio	on De	pth		720720		Rock	Depth	0/2	0/20	
– Siz	ze and	Type	AMS Powe	r Probe 95	580-VTR							Dist	12 ft urbed		Un	disturbed	Co	N/A ore	
B B			2-inch dian	neter close	ed point macro co				ımber c	of San	nples			3		N/A	A	1	N/A
	sing D		N/A				asing Depth (ft)	I VV	ater Le	•	,	Firs		N/A		mpletion N/		HR. ▼ 1	N/A
	sing H	lamm	er N/A		Weight (lbs)	N/A	Drop (in)	Dr	illing Fo	orema			D:						
	mpler		4-foot long	acetate lir				L.	eld Eng	ineer		Konn	Dixon						
.: Sa ⊵	mpler	Hamr	mer	N/A	Weight (lbs)	N/A	Drop (in)	\perp			7	yler Z	Zorn	_4_		T			
1/25/2021 8:43:07 AM	MATERIAL SYMBOL	Elev.		0	ample Descript	ion		PID	Depti	h ja	Φ		mple D		XRF		Remarl		
21 8:4	SYN	(ft)		3	ample Descript	IOH		(ppm)	Scale	Number	Туре	Recc (jr)	Penetr. resist BL/6in	(ug/m ³)	(ppm)	(Drilling FI Fluid Loss, D	uid, Dept Drilling Re	h of Casin sistance,	ng, etc.)
$\mathbb{Z}_{\mathbb{Z}}$			R1A (0"-	28"): Redo	dish brown to grey nedium sand, bricl	fine SAI	ND, some	0.0	0	=									
\mathbb{R}^{\times}	\bowtie		[FILL]	ei, ii ace ii	ieulum sanu, biici	t, concre	le (ury)	0.0	_ 1	4	ļ.,,								
	\bowtie							0.0	_	4_	MACROCORE	84							
								0.0	- 2	35	ACRO	28/48							
₹X	XX							0.0	_ 3	4	W/								
5 = X	\bowtie								E	=									
<u>"</u> ₩	XX								- 4	1									
	\bowtie								5	4									
	XX									=	ORE	∞							
<u>§</u> ₩	\bowtie		R2A (26'	'-48"): Lial	ht brown to brown	fine SAN	JD some	0.0	6	72	MACROCORE	22/48							
7038				sand (moi		TITIC OAI	VD, Some	0.0	- 7	3	MAG								
)GS/1								0.0	Ė '	=									
Ĕ.									- 8	+	+								
AL/G								0.0	- - 9]									
MEN.					ht brown to brown	fine SAN	ND, some	0.0	_ 9	=	ORE	_							
NON:			mealum	sand (moi	St) [SP]			0.0	10	- ₹ 22		34/48							
NEN.								0.0	F 44	=	MAC								
								0.0	- 11 -	3									
SCIF								- 0.0	12	+						End of bo	ring at	12 feet l	below
<u> </u>									Ė ,,	=						grade sur backfilled	face. B	orehole	
T DA									- 13 -	7						clean san	d to gra	ade and	go una
OPEC									14	4						sealed wi	in conc	rete.	
2/PR									E	=									
38120									_ 15	\exists									
2/170.									16	=									
JATA.									Ę.	=									
NY.									17	=									
DAT									- - 18	=									
OO O									10	=									
IANGAN.COMIDATANYYDATA2/170381202/PROJECT DATA_DISCIPLINE/ENVIRONMENTAL/GINTLOGS/170381202_ENTERPRISE_LH_UPDATED_TM.GFJ									19	7									
A L									E 20	1									
					<u> </u>				_ 20										

Log of Boring SB4NE3 Sheet of 1 1 Project No. 250 Water Street 170381202 Location Elevation and Datum 250 Water Street N/A Drilling Company Date Started Date Finished AARCO Environmental Services, Corp. 8/26/20 8/26/20 Drilling Equipment Completion Depth Rock Depth AMS Power Probe 9580-VTR 16 ft N/A Core Size and Type of Bit Disturbed Undisturbed Number of Samples N/A 2-inch diameter closed point macro core N/A Casing Diameter (in) Casing Depth (ft) Completion 24 HR. First Water Level (ft.) N/A N/A 12 N/A N/A Drop (in) N/A Casing Hammer N/A Drilling Foreman Weight (lbs) N/A Rohn Dixon Sampler 4-foot long acetate liner Field Engineer Drop (in) N<u>/A</u> Weight (lbs) Sampler Hammer N/A N/A Tyler Zorn /25/2021 8:43:09 AM Sample Data MATERIAL SYMBOL Remarks Elev Depth Number XRF Sample Description (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) (ft) Scale 0 R1A (0"-44"): Tan to dark brownish grey fine SAND, some fine gravel, some medium sand, brick, concrete 0.0 (dry) [FILL] 0.0 0.0 꼰 0.0 0.0 0.0 3 0.0 0.0 0.0 R2A (10"-48"): Brown to dark grey fine SAND, some fine 0.0 MACROCORE gravel, some medium sand, brick, concrete (dry) [FILL] 0.0 DISCIPLINE/ENVIRONMENTAL/GINTLOGS/170381202 0.0 0.0 0.0 0.0 9 R3A (18"-48"): Light brown to grey fine SAND, some fine gravel, some medium sand, brick, concrete (moist) [FILL] 83 ∇ 12 Petroleum-like odors from 12 to 13.5 feet below grade 6.3 \\LANGAN.COM\DATA\\\Y\DATA2\170381202\PROJECT DATA\ surface (bgs). 13 8.2 R4A (12"-48"): Brown fine SAND, some medium sand MACROCORE (moist) [SP] 0.6 36/48 Ρ4 0.0 15 0.0 0.0 End of boring at 16 feet bgs. Borehole backfilled with soil cuttings and clean sand to grade and sealed with concrete. 18 19

Log of Boring SB4NW3 Sheet of 1 1 Project Project No. 170381202 250 Water Street Location Elevation and Datum 250 Water Street N/A Drilling Company Date Started Date Finished 8/26/20 AARCO Environmental Services, Corp. 8/26/20 **Drilling Equipment** Rock Depth Completion Depth AMS Power Probe 9580-VTR 16 ft N/A Size and Type of Bit Disturbed Undisturbed Core Number of Samples 2-inch diameter closed point macro core N/A N/A Casing Diameter (in) Casing Depth (ft) Completion 24 HR. First Water Level (ft.) N/A N/A N/A N/A N/A Drop (in) N/A Casing Hammer N/A Drilling Foreman Weight (lbs) N/A Rohn Dixon Sampler 4-foot long acetate liner Field Engineer Drop (in) N<u>/A</u> Weight (lbs) Sampler Hammer N/A N/A Lexi Haley Sample Data MATERIAL SYMBOL Remarks Elev Depth Number XRF (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) Sample Description (ft) Scale 0 Asphalt 0.0 R1A (6"-32"): Red to greyish brown fine SAND, some 0.0 fine gravel, brick, concrete (dry) [FILL] MACROCORE 0.0 32/48 꼰 0.0 0.0 3 ENTERPRISE 0.0 R2A (6"-12"): Red to greyish brown fine SAND, some 5 fine gravel, brick, concrete (dry) [FILL] 0.0 MACROCORE R2B (12"-27"): Brown fine SAND, trace silt (dry) 0.0 42/48 8 DISCIPLINE/ENVIRONMENTAL/GINTLOGS/170381202 0.0 R2C (27"-48"): Light brown fine SAND, trace medium 0.0 sand (dry) [SP] 0.0 0.0 0.0 R3A (12"-28"): Grey medium sand, trace fine sand (dry) MACROCORE [SP] 0.0 83 0.0 R3B (16"-48"): Grey fine SAND, trace medium sand 0.0 (dry) [SP] 0.0 0.0 12 0.0 \\LANGAN.COM\DATA\NY\DATA2\170381202\PROJECT DATA_ R4A (6"-29"): Grey medium SAND, trace fine sand (dry) 13 [SP] 0.0 MACROCORE 0.0 42/48 Ρ4 0.0 0.0 R4B (29"-48"): Grey fine SAND, trace medium sand (dry) [SP] 0.0 15 0.0 16 End of boring at 16 feet below grade surface. Borehole backfilled with soil cuttings and 17 clean sand to grade and sealed with concrete. 18 19

			IVE	a /	A/W		Lo	g of	Boring			SB	4R			Sheet	1	of	2
Pr	oject		250 Water Str	oot				Р	Project No.			1703	381202)					
Lo	cation		250 Water Str	eel				E	levation an	d Da	atum		00 1202	<u> </u>					
Dr	illing C	ompa	250 Water Str	eet				D	ate Started			N/A			Date	Finished			
				onment	al Services, Corp				\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	_		7	/27/20		Б. І	D 11	-	7/27/20	
Dr	illing E	quipn	nent Geoprobe 782	2 DT					Completion	υер	tn		30 ft		Rock	Depth		N/A	
Siz	ze and	Туре		er close	ed point macro cor	e.		N	lumber of S	am	oles	Dist	urbed	8	Ur	ndisturbed	N/A	Core	N/A
NABAN Ca	asing D	iame		or 0,000	a point maoro con		Casing Depth (ft) N/A	I۷	Vater Level	(ft.)		First		15.5		ompletion	N/A	24 HR.	N/A
	asing H	lamm	eŊ/A		Weight (lbs)	N/A	Drop (in)		rilling Fore	mar		_		10.0	_ -	<u>¥</u>	14/73	<u> </u>	11//
Sa Sa	ampler		4-foot long ace	etate lin				-	ield Engine	er	N	ick T	urro						
: Sa	ampler	Hamr	ner N	I/A	Weight (lbs)	N/A	Drop (in) N/A	\perp			Α		Stapp		k				
1/25/2021 8:43:14 AM	MATERIAL SYMBOL	Elev.		S	ample Descript	ion		PID	Depth	per	e e		nple Da چنونچنچ	Jerome	XRF	(Drillin	Rem	arks	sing
021 8:	SYI	(ft)			атріс Безопрі			(ppm)	Scale 0 —	Number	Type	Rec (ir	Penetr. resist BL/6in	(ug/m³)	(ppm)) Fluid Los	ss, Drilling	epth of Cas Resistanc	e, etc.)
1/25/2			Asphalt R1A (0"- 40'	"): Brov	vn (plus yellow an	d reddisl	h brown	317 287.5	E d										
: XX	XX			é SAN	D, trace coarse s			262.7			RE								
2 0	\bowtie		()/					473.4	2 =	۲ ₂	MACROCORE	40/48							
	\bowtie							360			MACF	4		0.00	0.43				
3								333.3 189	3 - 3 -							Gold a	nd rust	colored f	lecks
# XX								288.5	5 4 =					0.00	1.17				
ENTERPRISE LH UPDATED TM.GPJ	\bowtie							492.6 109.6	+ _ +										
	\bowtie							498.9	Г		ORE	ω		0.00	3.34				
	\bowtie		R2A (0"-32" sand (dry) [F): Brow FILL]	n to black fine SA	ND, trac	ce coarse		6 -	R 2	MACROCORE	32/48							
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	XX				o black fine SANI				F 11 -		_								
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70381): Brow	n medium SAND	, some fi	ne sand,												
TA2\1			trace coarse	sand (wet) [SP]				16										
A L									17										
MATAN										ı٥	MACROCORE	48							
OMIC			R5A (0"-25"): Brow	n fine SAND, trac	e mediu	m sand,		18 -	R5	ACRO	25/48							
%LANGAN COMDATANYYDATA2/170381202/PROJECT DATA;			trace coarse	sand (wet) [SP]				19		Ň								
Ĭ P									<u> </u>										



Log of Boring SB4R Sheet 2 of 2 Project Project No. 250 Water Street 170381202 Location Elevation and Datum 250 Water Street N/A Sample Data Remarks Depth Scale Elev Sample Description Jerome (ug/m³) XRF (ppm) (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) (ft) 20 R6A (0"-43"): Brown fine SAND, trace medium sand, trace coarse sand (wet) [SP] 21 86 22 23 1/25/2021 8:43:14 AM 24 R7A (0"-31"): Brown fine SAND, trace medium sand, trace coarse sand (wet) [SP] 25 26 ||LANGAN.COM|DATAINYIDATA2\170381202|PROJECT DATA|_DISCIPLINE\ENVIRONMENTAL\GINTLOGS\170381202_ENTERPRISE_LH_UPDATED_TM.GPJ 27 28 MACROCORE R8A (0"-20"): Brown fine SAND, trace medium sand, 20/24 trace coarse sand (wet) [SP] 88 29 30 End of boring at 30 feet below grade surface. Borehole backfilled with soil cuttings and 31 clean sand to grade and sealed with asphalt. 32 33 34 35 36 37 38 39 43

Project								Pro	ject No.										
	:	250 Water Stree	t									1703	381202						
Location								Ele	vation an	d Da	atum								
		250 Water Stree	t									N/A							
Drilling C								Dat	e Started	1					Date	Finished			
			menta	al Services, Corp								7.	/29/20				7	7/29/20	
Drilling E	quipme	ent						Cor	mpletion	Dept	th				Rock	Depth			
0		Geoprobe 7822 I	DT									I 5 · ·	30 ft					N/A	
Size and			close	d point macro cor	-			Nur	mber of S	Samp	oles	Dist	urbed	8	Ur	ndisturbed N/		Core	N/A
Casing D	Diamete	r (in)	CIUSCI	a point macro coi		Casing Depth ((ft)					First	t		Co	ompletion		24 HR.	1 1//
		V/A				N	/Á		iter Level	` '		∇	· -	16		<u>▼</u> N/	Α	Ā	N/A
Casing F	lamme	V/A		Weight (lbs)	N/A	Drop (in)	/A	Dril	ling Fore	man									
Sampler			to lin	or							N	ick T	urro						
Sampler		1-foot long aceta ≏r		Weight (lbs)		Drop (in)		Fiel	ld Engine	er									
Samplei	I Iaiiiiii	N/A	١	11 o.g.n (120)	N/A	N	/A				Α		/ Stappe		k				
OF !!AL	Elev.							_	Depth	_			mple Dat			-	Rema	arks	
MATERIAL SYMBOL	(ft)		Sa	ample Descript	ion		PII (ppi		Scale	Number	Туре	in)	Penetr. resist BL/6in	erome	XRF (ppm)	(Drilling F			sing,
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	-	Asphalt	.		4		0.0	ہ ا											
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		R3A (0_12"\· 🖪	Srown	fine SAND, trace	e mediur	n sand	0.0	0	=		ORE	œ							
$\times\!\!\times\!\!\times$				orick (dry) [FILL]	o modiul	oa.ia,	0.0	0	10 -	R3	300	29/48		0.76	<lod< td=""><td></td><td></td><td></td><td></td></lod<>				
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			Brown	fine SAND, som	e mediui	m sand	0.0	۰ŀ	- - 14 -	R 4	MACROCORE	26/48		0.07	/I OD				
		(dry) [SP]					0.0	Г		_	ACF	26		0.27	<lod< td=""><td><u>'</u></td><td></td><td></td><td></td></lod<>	<u>'</u>			
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		R4B (23-26"):	Brow	n fine SAND, sor	me medi	um sand	∑ '.' 1.:	- 1	- - 16 -						,				
		(wet) [SP]					_ '	'	- '0 -				'	0.23	<lod< td=""><td>)</td><td></td><td></td><td></td></lod<>)			
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		sand (wet) [SP	']				16		- '' -		뀖								
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		R5B (23 32"\-	Dark	arev fine SAND	trace m	adim cand	27		- 18 -	2	MACROCORE	42/		0.00	<lod< td=""><td></td><td></td><td></td><td></td></lod<>				
		(wet) [SP]	⊔aiK	grey fine SAND,	u ace me	zuiiii Sailu	42	- 1			MA								
			Brow	n fine SAND, tra	ce mediu	ım sand	14	4	- 19 -										
		(wet) [SP]		,			1	.7	_	1		_	1 1			1			



Log of Boring **SB4S2** Sheet 2 of 2 Project Project No. 250 Water Street 170381202 Location Elevation and Datum 250 Water Street N/A Sample Data Remarks Elev Depth Scale Sample Description Jerome (ug/m³) XRF (ppm) (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) (ft) (ppm) 20 <LOD 10 R6A (0-40"): Brown fine SAND, trace medium sand 21 (wet) [SP] 3.9 0.0 **R**6 0.6 22 <LOD 0.00 0.0 23 0.0 1/25/2021 8:43:18 AM . 0.0 24 0.0 0.02 <LOD 25 0.0 R7A (0-36"): Brown fine SAND, trace medium sand MACROCORE (wet) [SP] 0.0 R_7 0.0 26 0.00 <LOD ||LANGAN.COM|DATAINYIDATA2\170381202|PROJECT DATA|_DISCIPLINE.ENVIRONMENTAL\GINTLOGS\170381202_ENTERPRISE_LH_UPDATED_TM.GPJ 0.0 27 0.0 0.0 0.0 28 0.00 <LOD R8A (0-24"): Brown fine SAND, trace medium sand MACROCORE 0.0 (wet) [SP] 24/24 88 29 0.0 0.0 0.0 30 0.00 1.0 End of boring at 30 feet below grade surface. Borehole backfilled with soil cuttings and 31 clean sand to grade and sealed with asphalt. 32 33 34 35 36 37 38 39 43

Log of Boring **SB4S3** Sheet of 1 1 Project No. 250 Water Street 170381202 Location Elevation and Datum 250 Water Street N/A Drilling Company Date Started Date Finished 8/26/20 AARCO Environmental Services, Corp. 8/26/20 **Drilling Equipment** Rock Depth Completion Depth AMS Power Probe 9580-VTR 16 ft N/A Core Size and Type of Bit Disturbed Undisturbed Number of Samples N/A 2-inch diameter closed point macro core N/A Casing Diameter (in) Casing Depth (ft) Completion 24 HR. First Water Level (ft.) N/A N/A 12 N/A N/A Drop (in) N/A Casing Hammer N/A Weight (lbs) Drilling Foreman N/A Rohn Dixon Sampler 4-foot long acetate liner Field Engineer Drop (in) N/A Weight (lbs) Sampler Hammer N/A N/A Tyler Zorn Sample Data MATERIAL SYMBOL Remarks Elev Depth Number XRF Sample Description (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) (ft) Scale 0 R1A (0"-36"): Reddish brown to grey fine SAND, some fine gravel, trace medium sand, brick, concrete (dry) 0.0 [FILL] 0.0 MACROCORE 0.0 꼰 0.0 0.0 3 0.0 0.0 5 0.0 R2A (12"-48"): Reddish brown to grey fine SAND, some MACROCORE fine gravel, trace medium sand, brick, concrete (dry) 0.0 [FILL] 8 DISCIPLINE/ENVIRONMENTAL/GINTLOGS/170381202 0.0 0.0 0.0 0.0 R3A (0"-20"): Reddish brown to grey fine SAND, some 0.0 fine gravel, trace medium sand, brick, concrete (dry) 0.0 0.0 0.0 R3B (20"-48"): Light brown to brown fine SAND, some 83 medium sand (moist) [SP] 1.2 1.7 0.6 ∇ 0.0 \\LANGAN.COM\DATA\\NY\DATA2\170381202\PROJECT DATA\ R4A (10"-48"): Brown to dark grey fine SAND, some 13 0.0 MACROCORE medium sand (wet) [SP] 0.0 38/48 Ρ4 Pertroleum-like odors and 18.6 staining from 14 to 16 feet below grade surface (bgs). 15 56.2 102.8 16 End of boring at 16 feet bgs. Borehole backfilled with soil cuttings and clean sand to grade and sealed with concrete. 18 19

Log of Boring SB4SE3 Sheet of 1 Project No. 250 Water Street 170381202 Location Elevation and Datum 250 Water Street N/A Drilling Company Date Started Date Finished 8/26/20 AARCO Environmental Services, Corp. 8/26/20 **Drilling Equipment** Completion Depth Rock Depth AMS Power Probe 9580-VTR 16 ft N/A Core Size and Type of Bit Disturbed Undisturbed Number of Samples N/A 2-inch diameter closed point macro core N/A Casing Diameter (in) Casing Depth (ft) Completion 24 HR. First Water Level (ft.) N/A N/A 12 N/A N/A Drop (in) N/A Casing Hammer N/A Drilling Foreman Weight (lbs) N/A Rohn Dixon Sampler 4-foot long acetate liner Field Engineer Drop (in) N/A Weight (lbs) Sampler Hammer N/A N/A Tyler Zorn Sample Data MATERIAL SYMBOL Remarks Elev Depth Number XRF Sample Description (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) (ft) Scale 0 R1A (0"-42"): Light brown to grey fine SAND, some fine gravel, trace medium sand, brick, concrete (dry) [FILL] 0.0 0.0 0.0 \overline{x} 0.0 0.0 0.0 3 0.0 R2A (0"-48"): Reddish brown to grey fine SAND, some 0.0 fine gravel, trace medium sand, brick, concrete (dry) 0.0 [FILL] 5 0.0 MACROCORE 48/48 0.0 0.0 0.0 0.0 0.0 0.0 R3A (7"-48"): Reddish brown to light grey fine SAND, 0.0 some fine gravel, trace medium sand, brick, concrete 0.0 (moist) [FILL] 0.0 83 0.0 0.0 0.0 0.0 41.1 \\LANGAN.COM\DATA\\NY\DATA2\170381202\PROJECT DATA\ R4A (8"-48"): Brown to dark grey fine SAND, some 13 62.0 medium sand (wet) [SP] MACROCORE Ρ4 Petroleum-like odors and 218.0 staining from 12 to 16 feet below grade surface (bgs). 11.7 9.1 End of boring at 16 feet bgs. Borehole backfilled with soil cuttings and clean sand to grade and sealed with concrete. 18 19

Log of Boring SB4SW3 Sheet of 1 Project Project No. 250 Water Street 170381202 Elevation and Datum Location 250 Water Street N/A Drilling Company Date Started Date Finished AARCO Environmental Services, Corp. 8/26/20 8/26/20 **Drilling Equipment** Completion Depth Rock Depth AMS Power Probe 9580-VTR 12 ft N/A Size and Type of Bit Disturbed Undisturbed Core Number of Samples 3 N/A N/A 2-inch diameter closed point macro core Casing Diameter (in) Casing Depth (ft) Completion 24 HR. First Water Level (ft.) N/A N/A 12 N/A N/A Drop (in) N/A Casing Hammer N/A Drilling Foreman Weight (lbs) N/A Rohn Dixon Sampler 4-foot long acetate liner Field Engineer Drop (in) N/A Weight (lbs) Sampler Hammer N/A N/A Tyler Zorn Sample Data MATERIAL SYMBOL Remarks Elev Depth Number XRF Sample Description (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) (ft) Scale 0 R1A (0"-10"): Reddish brown to grey fine SAND, some fine gravel, some medium sand, brick, concrete (dry) 0.0 [FILL] 0.0 R1B (10"-38"): Brown to dark brown fine SAND, trace MACROCORE 0.0 38/48 medium sand (dry) [FILL] 꼰 0.0 0.0 3 0.0 0.0 R2A (0"-36"): Brown to dark brown fine SAND, trace 0.0 medium sand (dry) [FILL] 0.0 5 0.0 MACROCORE 48/48 0.0 "ILANGAN.COMIDATA\INY\DATA2\170381202\PROJECT DATA_DISCIPLINE\ENVIRONMENTAL\GINTLOGS\170381202_ 0.0 0.0 R2B (36"-48"): Light brown medium sand (dry) [SP] 0.0 0.0 R3A (0"-48"): Light brown medium sand (dry) [SP] 0.0 0.0 0.0 MACROCORE 48/48 0.0 83 0.0 0.0 0.0 0.0 12 End of boring at 12 feet below grade surface. Borehole backfilled with soil cuttings and 13 clean sand to grade and sealed with concrete. 15 16 18 19

Project							Bori					IW1						
	250 \	Vater Street				ľ	. 0,00				1703	381202						
Location						E	levati	on ar	nd Da	atum								
		Vater Street									N/A							
Drilling Co	mpany						Date S	Starte	d					Date	Finished			
5 ···· -		CO Environmenta	al Services, Corp).					_		7	/27/20			5 "	7	7/27/20	
Drilling Eq						١	Compl	etion	Dep	th				Rock	Depth			
Size and T	Geop	robe 7822 DT				_					Dict	30 ft urbed		He	ndisturbed		N/A Core	
Size and i		n diameter close	d point macro co	re		١	Numbe	er of S	Samp	oles	וסוסנו	uibeu	8	01		N/A	Core	N/A
Casing Dia	ameter (in)		'		Casing Depth (ft		Vater	ם עם ו	I /ft \		First	t			mpletion		24 HR.	
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SYN ((ft)	36	ampie Describt	.1011		(ppm) S	cale	Number	Type	Recc (in)	Penetr. resist BL/6in	ug/m³)	(ppm)	Fluid Los	y ⊢iuid, D∈ s, Drilling	epth of Cas Resistanc	sing, e, etc
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	brid	k, concrete (dry)) [FILL]			0.0	F	1 -	}	ш								
	R1	3 (15"-30"): Ligh	t brown fine SAN	ND (dry) [I	FILL]	0.0	F	=	1	MACROCORE	ω							
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	R2	A (0-10"): Light b	prown fine SAND	(dry) [SF	?]	0.0	E	6 -	R2	300	28/48							
	R2	3 (10"-28"): Grev	y brown fine SAN	ID some	medium	0.0	-	-	1	MAC	2		0.09	<lod< td=""><td>1</td><td></td><td></td><td></td></lod<>	1			
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	R3	A (0"-32"): Grey	brown fine SANE	D, some r	medium	0.0	F	=	1	ORE	8							
	sar	id (dry) [ŚP]				0.0	F.	10 -	83	ROC	32/48		0.02	<lod< td=""><td>,</td><td></td><td></td><td></td></lod<>	,			
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	R4	A (0"-32"): Grey	brown fine SANE	D, some r	medium	0.0	Ė	=	1	MACROCORE	œ							
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	R5	4 (0"-24"): Grev	brown fine SAND) some r	medium	0.0	F .	18 -	85	ROC	48/48		0.06	<lod< td=""><td>, [</td><td></td><td></td><td></td></lod<>	, [
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						0.0		19 –	1									



Log of Boring **SB4W1** Sheet 2 of 2 Project Project No. 250 Water Street 170381202 Location Elevation and Datum 250 Water Street N/A Sample Data Remarks Depth Scale Elev Sample Description Jerome (ug/m³) XRF (ppm) (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) (ft) (ppm) 20 0.0 <LOD 0.0 R6A (0"-42"): Brown medium SAND, some fine sand 21 (wet) [SP] 0.0 0.0 0.0 22 <LOD 0.06 0.0 23 0.0 1/25/2021 8:43:28 AM 0.0 24 0.0 0.03 <LOD 25 0.0 R7A (0"-36"): Brown medium SAND, some fine sand MACROCORE (wet) [SP] 0.0 R_7 0.0 26 0.02 <LOD ||LANGAN.COM|DATAINYIDATA2\170381202|PROJECT DATA|_DISCIPLINE\ENVIRONMENTAL\GINTLOGS\170381202_ENTERPRISE_LH_UPDATED_TM.GPJ 0.0 27 0.0 0.0 0.0 28 0.00 <LOD MACROCORE 12/24 88 29 0.0 R8A (0"-12"): Brown medium SAND, some fine sand 0.0 (wet) [SP] 0.0 30 0.05 <LOD End of boring at 30 feet below grade surface. Borehole backfilled with soil cuttings and 31 clean sand to grade and sealed with asphalt. 32 33 34 35 36 37 38 39 43

Log of Boring **SB4W2** Sheet of 2 Project Project No. 250 Water Street 170381202 Elevation and Datum Location 250 Water Street N/A Drilling Company Date Started Date Finished AARCO Environmental Services, Corp. 7/29/20 7/29/20 Drilling Equipment Completion Depth Rock Depth Geoprobe 7822 DT 30 ft N/A Core Size and Type of Bit Disturbed Undisturbed Number of Samples N/A 2-inch diameter closed point macro core 8 N/A Casing Diameter (in) Casing Depth (ft) Completion 24 HR. First Water Level (ft.) N/A N/A 15.5 N/A N/A Drop (in) N/A Casing Hammer N/A Weight (lbs) Drilling Foreman N/A Nick Turro Sampler 4-foot long acetate liner Field Engineer Drop (in) N/A Weight (lbs) Sampler Hammer N/A N/A Ashley Stappenbeck Sample Data MATERIAL SYMBOL Remarks Elev PID (ppm) Depth Number (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) Sample Description (ft) Scale 0 Asphalt 0.0 R1A (0-31"): Brown fine SAND, trace coarse sand, brick, concrete, coal (dry) [FILL] 0.0 MACROCORE 0.0 1.15 61.0 꼰 0.0 0.0 1.79 179.0 3 0.0 1.00 <LOD R2A (0-6"): Brown fine SAND, trace medium sand, coal, 5 brick (dry) [FILL] 0.0 MACROCORE R2B (6-40"): Light brown fine medium SAND, some fine 0.0 40/48 sand (dry) [SP] 8 DISCIPLINE/ENVIRONMENTAL/GINTLOGS/170381202 0.0 <LOD 1.46 0.0 0.0 0.0 8 0.0 0.32 <LOD R3A (0-26"): Brown fine SAND, trace clay (dry) 0.0 83 0.0 0.0 0.0 11 R3B (26-29"): Light brown medium SAND, trace fine 0.0 sand (dry) [SP] 12 0.0 0.30 <LOD R3C (29-34"): Brown fine SAND, trace medium sand (dry) [SP] \\LANGAN.COM\\DATA\\NY\\DATA2\170381202\\PROJECT DATA\\\ 13 R4A (0-31"): Light brown fine SAND, trace medium sand (wet) [SP] 0.0 Ρ4 0.0 <LOD 1.26 0.0 15 0.0 ∇ 0.0 0.0 16 1.0 1.72 R5A (0-34"): Brown fine SAND, trace medium sand, trace coarse sand (wet) [SP] 0.0 R5 0.0 18 0.10 <LOD 0.0 0.0 19 0.0



Log of Boring **SB4W2** Sheet 2 of 2 Project Project No. 250 Water Street 170381202 Location Elevation and Datum 250 Water Street N/A Sample Data Remarks Elev Depth Scale Sample Description XRF (ppm) (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) (ft) (ppm) (ug/m³ 20 0.0 <LOD 21 R6A (0-27"): Brown fine SAND, trace medium sand, **R**6 22 <LOD 0.11 trace coarse sand (wet) [SP] 0.0 23 0.0 1/25/2021 8:43:32 AM 0.0 24 0.0 0.34 <LOD 0.0 R7A (0-40"): Brown fine SAND, trace medium sand, 25 0.0 trace coarse sand (wet) [SP] MACROCORE 0.0 R_7 0.0 26 0.41 <LOD ||LANGAN.COM|DATAINYIDATA2\170381202|PROJECT DATA|_DISCIPLINE.ENVIRONMENTAL\GINTLOGS\170381202_ENTERPRISE_LH_UPDATED_TM.GPJ 0.0 27 0.0 0.0 0.0 28 0.06 <LOD R7A (0-24"): Brown fine SAND, trace medium sand, MACROCORE 0.0 trace coarse sand (wet) [SP] 24/24 88 29 0.0 0.0 0.0 30 0.02 <LOD End of boring at 30 feet below grade surface. Borehole backfilled with soil cuttings and 31 clean sand to grade and sealed with asphalt. 32 33 34 35 36 37 38 39 43

Log of Boring **SB4W3** Sheet of 1 Project Project No. 250 Water Street 170381202 Elevation and Datum Location 250 Water Street N/A Drilling Company Date Started Date Finished 8/26/20 AARCO Environmental Services, Corp. 8/26/20 Drilling Equipment Completion Depth Rock Depth AMS Power Probe 9580-VTR 12 ft N/A Size and Type of Bit Disturbed Undisturbed Core Number of Samples N/A 2-inch diameter closed point macro core 3 N/A Casing Diameter (in) Casing Depth (ft) Completion 24 HR. First Water Level (ft.) N/A N/A N/A N/A N/A Drop (in) N/A Casing Hammer N/A Drilling Foreman Weight (lbs) N/A Rohn Dixon Sampler 4-foot long acetate liner Field Engineer Drop (in) N/A Weight (lbs) Sampler Hammer N/A N/A Tyler Zorn Sample Data MATERIAL SYMBOL Remarks Elev Depth Number Sample Description (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) (ft) Scale 0 R1A (0"-42"): Reddish brown to grey fine SAND, some fine gravel, trace medium sand, brick, concrete (dry) 0.0 [FILL] 0.0 MACROCORE 0.0 꼰 0.0 0.0 3 0.0 0.0 ENTERPRISE 0.0 R2A (2"-10"): Reddish brown to grey fine sand, some fine gravel, some fine sand, trace medium sand, 0.0 concrete, brick, shells (dry) [FILL] 5 0.0 MACROCORE R2B (10"-36"): Brown fine SAND, trace medium sand 0.0 (dry) [SP] "ILANGAN.COMIDATA\INY\DATA2\170381202\PROJECT DATA_DISCIPLINE\ENVIRONMENTAL\GINTLOGS\170381202_ 0.0 0.0 R2C (36"-48"): Light brown medium sand (dry) [SP] 0.0 0.0 R3A (0"-48"): Light brown medium sand (dry) [SP] 0.0 0.0 0.0 MACROCORE 48/48 0.0 83 0.0 0.0 0.0 0.0 12 End of boring at 12 feet below grade surface. Borehole backfilled with soil cuttings and 13 clean sand to grade and sealed with concrete. 14 15 16 18 19

APPENDIX D MONITORING WELL CONSTRUCTION LOGS

Well No. MW11

PROJECT		PROJECT NO.					
250 Water Street		170381202					
LOCATION		ELEVATION AND DATUM					
New York, New York			N/A				
DRILLING AGENCY		DATE STARTED	DATE FINISHED				
AARCO Environmental Services Cor	p.	8/19/2020	8/19/2020				
DRILLING EQUIPMENT		DRILLER					
Geoprobe® 7822 DT		Rohn Dixon					
SIZE AND TYPE OF BIT		INSPECTOR					
2-inch Direct Push		Tyler Zorn					
BOREHOLE DIAMETER		TYPE OF WELL (OVERBURDEN / BEDROCK)					
2-inch		Overburden					
RISER MATERIAL	DIAMETER	TYPE OF BACKFILL MATERIAL					
PVC	2-inch	No. 2 Sand					
TYPE OF SCREEN	DIAMETER	TYPE OF WELL PACK	TYPE OF SEAL MATERIAL				
PVC No. 20 Slot	2-inch	No. 2 Sand	Bentonite				
METHOD OF INSTALLATION							

A Geoprobe® 7822 DT was used to advance the boring to approximately 20 feet below grade surface (bgs). The borehole was backfilled with clean sand to about 15 feet bgs and a 2-inch PVC monitoring well was installed, which consisted of 10 feet of 20-slot (0.020-inch) well screen between 5 and 15 feet bgs and a solid 2-inch riser to grade surface. The annulus was filled with sand to one foot above the screened interval and sealed with bentonite to grade. The well was developed by

AARCO Environmental Services, Corp. on 08/20/2020.

WELL DEVELOPMENT DA SURGE BLOCK DIAMETER		N/A	TYPE PUMP			Whale Pump	DEVELOPMENT CONFIRMATION	ON.	
	1	Driller					Confirmed by Langan on 08/2	-	
DRILLER OR LANGAN			MAX PUMP RAT			2.2 gpm			
NUMBER OF SURGE CYC	-	N/A	TOTAL VOLUME			5 gallons			
TOP OF CASING	ELEVATION		DEPTH (ft)						
			0		WELL	DETAILS	SUMMARY SOIL	DEPTH (FT)	
			0			1	CLASSIFICATION		
TOP OF SEAL	ELEVATION		DEPTH (ft)	Cover —				0.00	
	N/A		0						
TOP OF FILTER	ELEVATION		DEPTH (ft)						
	N/A		4	Riser					
TOP OF SCREEN	ELEVATION		DEPTH (ft)						
	N/A		5						
BOTTOM OF BORING	ELEVATION		DEPTH (ft)						
	N/A		15						
SCREEN LENGTH									
			10'						
SLOT SIZE						Seal			
		No. 20 Slot; (0.020 Inches						
GR	OUNDWATER EL	EVATIONS						5.00	
ELEVATION	DATE	DEPTH TO WATE	R						
	9/3/2020	9.62							
ELEVATION	DATE	DEPTH TO WATE	R	PVC		← Sand			
				Screen					
ELEVATION	DATE	DEPTH TO WATE	R	1					
ELEVATION	DATE	DEPTH TO WATE	R	1					
ELEVATION	DATE	DEPTH TO WATE	R	1					
								15.00	
*MEASURED FROM TOP (OF MONITORING WELL C	ASING		1 -		 -			
LA	ANGAN Engineerin	ng, Environme	ntal, Survevi	ng, Lanc	Iscap	e Architecture	and Geology, D.P.C.	1	
	_	Penn Plaza,	-	-	-				

Well No. MW17

PROJECT		PROJECT NO.	
250 Water Street		170381202	
LOCATION		ELEVATION AND DATUM	
New York, New York			N/A
DRILLING AGENCY		DATE STARTED	DATE FINISHED
AARCO Environmental Services Co	orp.	7/31/2020	7/31/2020
DRILLING EQUIPMENT		DRILLER	
Geoprobe® 7822 DT		Sergio Magana	
SIZE AND TYPE OF BIT		INSPECTOR	
2-inch Direct Push		Ashley Stappenbeck	
BOREHOLE DIAMETER		TYPE OF WELL (OVERBURDEN / E	BEDROCK)
2-inch		Overburden	
RISER MATERIAL	DIAMETER	TYPE OF BACKFILL MATERIAL	
PVC	2-inch	No. 2 Sand	
TYPE OF SCREEN	DIAMETER	TYPE OF WELL PACK	TYPE OF SEAL MATERIAL
PVC No. 20 Slot	2-inch	No. 2 Sand	Bentonite
METHOD OF INSTALLATION			

A Geoprobe® 7822 DT was used to advance the boring to approximately 30 feet below grade surface (bgs). The borehole was backfilled with clean sand to about 17 feet bgs and a 2-inch PVC monitoring well was installed, which consisted of 10 feet of 20-slot (0.020-inch) well screen between 7 and 17 feet bgs and a solid 2-inch riser to grade surface. The annulus was filled with clean sand to one foot above the screened interval, followed by a with a two-foot thick bentonite layer, and clean sand to grade. The well was developed by AARCO Environmental Services, Corp. on August 3, 2020.

WELL DEVELOPMENT DA SURGE BLOCK DIAMETER		N/A	TYPE PUMP			Whale Pump	DEVELOPMENT CONFIRMATION	ON
	1	Driller		_			Confirmed by Langan on 8/3/	
<u>DRILLER</u> OR LANGAN			MAX PUMP RAT			2.2 gpm	Committee by Langari on 6/3/	2020
NUMBER OF SURGE CYC	LES	N/A	TOTAL VOLUME			5 gallons		
TOP OF CASING	ELEVATION		DEPTH (ft)					
I			0		WEL	L DETAILS	SUMMARY SOIL	DEPTH (FT)
			0		ı		CLASSIFICATION	
TOP OF SEAL	ELEVATION		DEPTH (ft)	Cover —				0.00
	N/A		4			├		
TOP OF FILTER	ELEVATION		DEPTH (ft)					
	N/A		6	Riser				
TOP OF SCREEN	ELEVATION		DEPTH (ft)					
	N/A		7					
BOTTOM OF BORING	ELEVATION		DEPTH (ft)					
	N/A		17					
SCREEN LENGTH								
			10'					
SLOT SIZE						Seal		4.00
İ		No. 20 Slot; (0.020 Inches					
GR	OUNDWATER EL	EVATIONS						7.00
ELEVATION	DATE	DEPTH TO WATE	R	1				
	9/3/2020	9.53						
ELEVATION	DATE	DEPTH TO WATE	R	PVC		Sand		
				Screen				
ELEVATION	DATE	DEPTH TO WATE	R	1				
ELEVATION	DATE	DEPTH TO WATE	R	1				
ELEVATION	DATE	DEPTH TO WATE	R	1				
						•		17.00
*MEASURED FROM TOP	OF MONITORING WELL O	ASING		1	ı			
L/A	ANGAN Engineerii	ng, Environme	ntal, Survey	ng, Laı	ndscar	e Architecture	and Geology, D.P.C.	l.
	-	Penn Plaza, 3	-	-	-			

Well No.

MW15

PROJECT		PROJECT NO.	
250 Water Street		170381202	
LOCATION		ELEVATION AND DATUM	
New York, New York			N/A
DRILLING AGENCY		DATE STARTED	DATE FINISHED
AARCO Environmental Services Cor	p.	8/19/2020	8/19/2020
DRILLING EQUIPMENT		DRILLER	
Geoprobe® 7822 DT		Rohn Dixon	
SIZE AND TYPE OF BIT		INSPECTOR	
2-inch Direct Push		Tyler Zorn	
BOREHOLE DIAMETER		TYPE OF WELL (OVERBURDEN / BEDRO	OCK)
2-inch		Overburden	
RISER MATERIAL	DIAMETER	TYPE OF BACKFILL MATERIAL	
PVC	2-inch	No. 2 Sand	
TYPE OF SCREEN	DIAMETER	TYPE OF WELL PACK	TYPE OF SEAL MATERIAL
PVC No. 20 Slot	2-inch	No. 2 Sand	Bentonite

METHOD OF INSTALLATION

A Geoprobe® 7822 DT was used to advance the boring to approximately 20 feet below grade surface (bgs). The borehole was advanced to about 22 feet bgs and a 2-inch PVC monitoring well was installed, which consisted of 10 feet of 20-slot (0.020-inch) well screen between 12 and 22 feet bgs and a solid 2-inch riser to grade surface. The annulus was filled with clean sand to one foot above the screened interval, followed by a with a two-foot thick bentonite layer, and clean sand to grade. The well was developed by AARCO Environmental Services, Corp. on 08/20/2020.

WELL DEVELOPMENT DA		N/A	TVDE DUMP			Whale Pump	DEVELOPMENT CONCERNA	ON
SURGE BLOCK DIAMETER	1	Driller	TYPE PUMP					
DRILLER OR LANGAN			MAX PUMP RAT			2.2 gpm	Confirmed by Langan on 08/	20/2020
NUMBER OF SURGE CYC	LES	N/A	TOTAL VOLUME			5 gallons		
TOP OF CASING	ELEVATION		DEPTH (ft)					
I			_		WEL	L DETAILS	SUMMARY SOIL	DEPTH (FT)
			0				CLASSIFICATION	
TOP OF SEAL	ELEVATION		DEPTH (ft)	Cover —	<u> </u>			0.00
	N/A		9			├		
TOP OF FILTER	ELEVATION		DEPTH (ft)					
	N/A		11	Riser				
TOP OF SCREEN	ELEVATION		DEPTH (ft)					
	N/A		12					
BOTTOM OF BORING	ELEVATION		DEPTH (ft)					
	N/A		22					
SCREEN LENGTH								
			10'					
SLOT SIZE						Seal		9.00
		No. 20 Slot; (0.020 Inches					
GR	OUNDWATER EL	EVATIONS						12.00
ELEVATION	DATE	DEPTH TO WATE	R					
	9/3/2020	15.39						
ELEVATION	DATE	DEPTH TO WATE	R	PVC		Sand		
I				Screen				
ELEVATION	DATE	DEPTH TO WATE	R					
ELEVATION	DATE	DEPTH TO WATE	R	1				
ELEVATION	DATE	DEPTH TO WATE	R					
						-		22.00
*MEASURED FROM TOP	OF MONITORING WELL O	ASING						
L/	ANGAN Engineerii	ng, Environme	ntal, Surveyi	ng, Laı	ndscap	e Architectur	e and Geology, D.P.C.	
	-	Penn Plaza, 3	-	_	-			

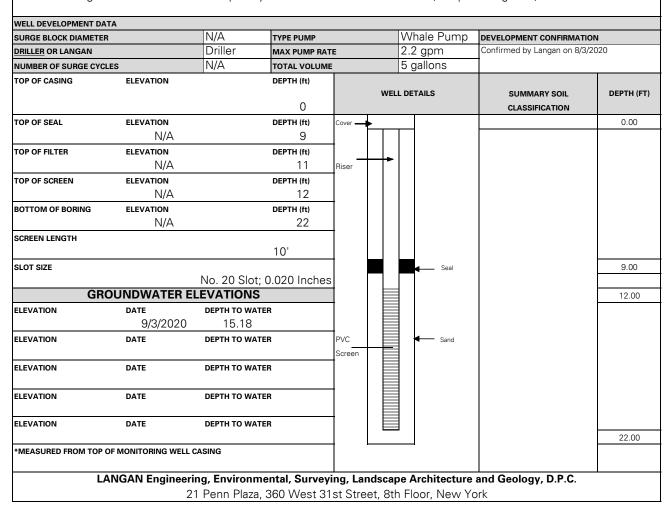
Well No.

MW25

PROJECT		PROJECT NO.	
250 Water Street		170381202	
LOCATION		ELEVATION AND DATUM	
New York, New York			N/A
DRILLING AGENCY		DATE STARTED	DATE FINISHED
AARCO Environmental Services Co	rp.	7/28/2020	7/28/2020
DRILLING EQUIPMENT		DRILLER	
Geoprobe® 7822 DT		Nick Turro	
SIZE AND TYPE OF BIT		INSPECTOR	
2-inch Direct Push		Ashley Stappenbeck	
BOREHOLE DIAMETER		TYPE OF WELL (OVERBURDEN / BEDRO	OCK)
2-inch		Overburden	
RISER MATERIAL	DIAMETER	TYPE OF BACKFILL MATERIAL	
PVC	2-inch	No. 2 Sand	
TYPE OF SCREEN	DIAMETER	TYPE OF WELL PACK	TYPE OF SEAL MATERIAL
PVC No. 20 Slot	2-inch	No. 2 Sand	Bentonite

METHOD OF INSTALLATION

A Geoprobe® 7822 DT was used to advance the boring to approximately 30 feet below grade surface (bgs). The borehole was backfilled with clean sand to about 22 feet bgs and a 2-inch PVC monitoring well was installed, which consisted of 10 feet of 20-slot (0.020-inch) well screen between 12 and 22 feet bgs and a solid 2-inch riser to grade surface. The annulus was filled with clean sand to one foot above the screened interval, followed by a with a two-foot thick bentonite layer, and clean sand to grade. The well was developed by AARCO Environmental Services, Corp. on August 3, 2020.



Well No. MW26

PROJECT		PROJECT NO.	
250 Water Street		170381202	
LOCATION		ELEVATION AND DATUM	
New York, New York			N/A
DRILLING AGENCY		DATE STARTED	DATE FINISHED
AARCO Environmental Services Co	p.	8/24/2020	8/24/2020
DRILLING EQUIPMENT		DRILLER	
AMS Power Probe 9580-VTR		Rohn Dixon	
SIZE AND TYPE OF BIT		INSPECTOR	
2-inch Direct Push		Lexi Haley	
BOREHOLE DIAMETER		TYPE OF WELL (OVERBURDEN / BEDR	OCK)
2-inch		Overburden	
RISER MATERIAL	DIAMETER	TYPE OF BACKFILL MATERIAL	
PVC	2-inch	No. 2 Sand	
TYPE OF SCREEN	DIAMETER	TYPE OF WELL PACK	TYPE OF SEAL MATERIAL
PVC No. 20 Slot	2-inch	No. 2 Sand	Bentonite
METHOD OF INSTALLATION			

An AMS Power Probe 9580-VTR was used to advance the boring to approximately 20 feet below grade surface (bgs). The borehole was advanced to about 21 feet bgs and a 2-inch PVC monitoring well was installed, which consisted of 10 feet of 20-slot (0.020-inch) well screen between 11 and 21 feet bgs and a solid 2-inch riser to grade surface. The annulus was filled with clean sand to one foot above the screened interval, followed by a with a two-foot thick bentonite layer, and clean sand to grade. The well was developed by AARCO Environmental Services, Corp. on 08/26/2020.

WELL DEVELOPMENT DA SURGE BLOCK DIAMETER		N/A	TVDE DUMP			Whale Pump	DEVELOPMENT CONFIRMATION	ON
	1	Driller	TYPE PUMP					-
<u>DRILLER</u> OR LANGAN		_	MAX PUMP RAT			2.2 gpm	Confirmed by Langan on 08/2	20/2020
NUMBER OF SURGE CYCI	-	N/A	TOTAL VOLUME			5 gallons		
TOP OF CASING	ELEVATION		DEPTH (ft)					
			0		WEL	L DETAILS	SUMMARY SOIL	DEPTH (FT)
			0			<u> </u>	CLASSIFICATION	
TOP OF SEAL	ELEVATION		DEPTH (ft)	Cover —	<u> </u>	, <u> </u>		0.00
	N/A		8			├		
TOP OF FILTER	ELEVATION		DEPTH (ft)					
	N/A		10	Riser				
TOP OF SCREEN	ELEVATION		DEPTH (ft)					
	N/A		11					
BOTTOM OF BORING	ELEVATION		DEPTH (ft)					
	N/A		21					
SCREEN LENGTH								
			10'					
SLOT SIZE						Seal		8.00
		No. 20 Slot; (0.020 Inches					
GRO	OUNDWATER EI	EVATIONS						11.00
ELEVATION	DATE	DEPTH TO WATE	R					
	9/3/2020	12.24						
ELEVATION	DATE	DEPTH TO WATE	R	PVC		Sand		
				Screen				
ELEVATION	DATE	DEPTH TO WATE	R					
ELEVATION	DATE	DEPTH TO WATE	R					
ELEVATION	DATE	DEPTH TO WATE	R					
								21.00
*MEASURED FROM TOP (OF MONITORING WELL O	ASING		1 '				
L/A	NGAN Engineerii	ng, Environme	ntal, Survevi	ng, Lan	dscap	e Architecture	and Geology, D.P.C.	
	_	Penn Plaza,	-	_	-			

Well No.

MW28

PROJECT		PROJECT NO.					
250 Water Street		170381202					
LOCATION		ELEVATION AND DATUM					
New York, New York			N/A				
DRILLING AGENCY		DATE STARTED	DATE FINISHED				
AARCO Environmental Services Cor	p.	8/18/2020	8/18/2020				
DRILLING EQUIPMENT		DRILLER					
Geoprobe® 7822 DT		Rohn Dixon					
SIZE AND TYPE OF BIT		INSPECTOR					
2-inch Direct Push		Thomas Schiefer					
BOREHOLE DIAMETER		TYPE OF WELL (OVERBURDEN / BEDRO	OCK)				
2-inch		Overburden					
RISER MATERIAL	DIAMETER	TYPE OF BACKFILL MATERIAL					
PVC	2-inch	No. 2 Sand					
TYPE OF SCREEN	DIAMETER	TYPE OF WELL PACK	TYPE OF SEAL MATERIAL				
PVC No. 20 Slot	2-inch	No. 2 Sand	Bentonite				

METHOD OF INSTALLATION

A Geoprobe® 7822 DT was used to advance the boring to approximately 20 feet below grade surface (bgs). The borehole was backfilled with clean sand to about 14 feet bgs and a 2-inch PVC monitoring well was installed, which consisted of 10 feet of 20-slot (0.020-inch) well screen between 4 and 14 feet bgs and a solid 2-inch riser to grade surface. The annulus was filled with sand to one foot above the screened interval and sealed with bentonite to grade. The well was developed by AARCO Environmental Services, Corp. on 08/20/2020

SURGE BLOCK DIAMETER	1	N/A	TYPE PUMP		۱۸۸	hale Pump	DEVELOPMENT CONFIRMATION	ON
DRILLER OR LANGAN	1	Driller	MAX PUMP RAT			2 gpm	Confirmed by Langan on 08/2	-
		N/A	-				Committee by Earligan on 00/2	20/2020
NUMBER OF SURGE CYCI	-	IN/A	TOTAL VOLUME	! 	5	5 gallons		
TOP OF CASING	ELEVATION		DEPTH (ft)	WELL DETAILS				DEDT!! (ET)
			0			IAILS	SUMMARY SOIL	DEPTH (FT)
						T	CLASSIFICATION	0.00
TOP OF SEAL	ELEVATION		DEPTH (ft)	Cover —				0.00
	N/A		0	_		←		
TOP OF FILTER	ELEVATION		DEPTH (ft)		→			
	N/A		3	Riser				
TOP OF SCREEN	ELEVATION		DEPTH (ft)					
	N/A		4					
BOTTOM OF BORING	ELEVATION		DEPTH (ft)					
	N/A		14					
SCREEN LENGTH								
			10'					
SLOT SIZE						← Seal		
		No. 20 Slot;	0.020 Inches					
GRO	OUNDWATER EI	EVATIONS						4.00
ELEVATION	DATE	DEPTH TO WATE	R					
	9/3/2020	8.12						
ELEVATION	DATE	DEPTH TO WATE	R	PVC		Sand		
				Screen				
ELEVATION	DATE	DEPTH TO WATE	R					
ELEVATION	DATE	DEPTH TO WATE	R					
ELEVATION	DATE	DEPTH TO WATE	R					
								14.00
*MEASURED FROM TOP OF MONITORING WELL CASING						→		
LA	NGAN Engineerii	ng, Environme	ental, Survey	ng, Lands	scape /	Architecture	and Geology, D.P.C.	
	_	Penn Plaza, 3	-	-	-			

Well No.

MW30

PROJECT		PROJECT NO.					
250 Water Street		170381202					
LOCATION		ELEVATION AND DATUM					
New York, New York		N/A					
DRILLING AGENCY		DATE STARTED	DATE FINISHED				
AARCO Environmental Services Co	rp.	8/26/2020	8/26/2020				
DRILLING EQUIPMENT	DRILLER						
AMS Power Probe 9580-VTR		Rohn Dixon					
SIZE AND TYPE OF BIT		INSPECTOR					
2-inch Direct Push		Tyler Zorn					
BOREHOLE DIAMETER		TYPE OF WELL (OVERBURDEN / BEDRO	DCK)				
2-inch		Overburden					
RISER MATERIAL	DIAMETER	TYPE OF BACKFILL MATERIAL					
PVC	2-inch	No. 2 Sand					
TYPE OF SCREEN	DIAMETER	TYPE OF WELL PACK	TYPE OF SEAL MATERIAL				
PVC No. 20 Slot	2-inch	No. 2 Sand Bentonite					

METHOD OF INSTALLATION

An AMS Power Probe 9580-VTR was used to advance the boring to approximately 32 feet below grade surface (bgs). The borehole was backfilled with clean sand to about 22 feet bgs and a 2-inch PVC monitoring well was installed, which consisted of 10 feet of 20-slot (0.020-inch) well screen between 12 and 22 feet bgs and a solid 2-inch riser to grade surface. The annulus was filled with clean sand to one foot above the screened interval, followed by a with a two-foot thick bentonite layer, and clean sand to grade. The well was developed by AARCO Environmental Services, Corp. on 08/26/2020.

SURGE BLOCK DIAMETER		N/A	TYPE PUMP			Whale Pump	DEVELOPMENT CONFIRMATION	DNI .	
	1	Driller		_			Confirmed by Langan on 08/2		
DRILLER OR LANGAN		N/A	MAX PUMP RAT			2.2 gpm	- Committee by Languit on 00,20,2020		
NUMBER OF SURGE CYCL	-	IN/A	TOTAL VOLUME			5 gallons			
TOP OF CASING	ELEVATION		DEPTH (ft)		\A/F1 1	DETAILO		DEDT!! (ET)	
			0	WELL DETAILS		LDETAILS	SUMMARY SOIL	DEPTH (FT)	
			0				CLASSIFICATION		
TOP OF SEAL	ELEVATION		DEPTH (ft)	Cover —	· ·	. 		0.00	
	N/A		9	<u> </u>		├			
TOP OF FILTER	ELEVATION		DEPTH (ft)						
	N/A		11	Riser					
TOP OF SCREEN	ELEVATION		DEPTH (ft)						
	N/A		12						
BOTTOM OF BORING	ELEVATION		DEPTH (ft)						
	N/A		22						
SCREEN LENGTH									
			10'						
SLOT SIZE						Seal		9.00	
		No. 20 Slot; (0.020 Inches						
GRO	DUNDWATER EL	EVATIONS						12.00	
ELEVATION	DATE	DEPTH TO WATE	R	1 1					
	9/3/2020	12.52							
ELEVATION	DATE	DEPTH TO WATE	R	PVC		Sand			
				Screen					
ELEVATION	DATE	DEPTH TO WATE	R	1					
ELEVATION	DATE	DEPTH TO WATE	R	1 1					
ELEVATION	DATE	DEPTH TO WATE	R	1					
						!		22.00	
*MEASURED FROM TOP (OF MONITORING WELL C	ASING							
LA	NGAN Engineerin	na. Environme	ntal. Survevi	ng. Land	dscan	e Architecture	and Geology, D.P.C.	1	
	-	Penn Plaza,	=	-	-				

Well No. MW31

PROJECT		PROJECT NO.				
250 Water Street		170381202				
LOCATION		ELEVATION AND DATUM				
New York, New York		N/A				
DRILLING AGENCY		DATE STARTED	DATE FINISHED			
AARCO Environmental Services Cor	p.	8/24/2020 8/24/2020				
DRILLING EQUIPMENT		DRILLER				
AMS Power Probe 9580-VTR		Rohn Dixon				
SIZE AND TYPE OF BIT		INSPECTOR				
2-inch Direct Push		Lexi Haley				
BOREHOLE DIAMETER		TYPE OF WELL (OVERBURDEN / BEDROCK)				
2-inch		Overburden				
RISER MATERIAL	DIAMETER	TYPE OF BACKFILL MATERIAL				
PVC	2-inch	No. 2 Sand				
TYPE OF SCREEN	DIAMETER	TYPE OF WELL PACK TYPE OF SEAL MATERIAL				
PVC No. 20 Slot	2-inch	No. 2 Sand Bentonite				
METHOD OF INSTALLATION						

An AMS Power Probe 9580-VTR was used to advance the boring to approximately 32 feet below grade surface (bgs). The borehole was backfilled with clean sand to about 18 feet bgs and a 2-inch PVC monitoring well was installed, which consisted of 10 feet of 20-slot (0.020-inch) well screen between 8 and 18 feet bgs and a solid 2-inch riser to grade surface. The annulus was filled with clean sand to one foot above the screened interval, followed by a with a two-foot thick bentonite layer, and clean sand to grade. The well was developed by AARCO Environmental Services, Corp. on 08/26/2020.

SURGE BLOCK DIAMETER	,	N/A	TYPE PUMP			Whale Pump	DEVELOPMENT CONFIRMATION	ON
	1	Driller		-			Confirmed by Langan on 08/2	
DRILLER OR LANGAN		N/A	MAX PUMP RAT			2.2 gpm 5 gallons	Committee by Languit off 00/2	_0,2020
NUMBER OF SURGE CYCI	-	IN/A	TOTAL VOLUME			o gallons		
TOP OF CASING	ELEVATION		DEPTH (ft)	WELL DETAILS				DEDT!! (ET)
			0			L DETAILS	SUMMARY SOIL	DEPTH (FT)
						1	CLASSIFICATION	
TOP OF SEAL	ELEVATION		DEPTH (ft)	Cover —	>	, 		0.00
	N/A		5	_				
TOP OF FILTER	ELEVATION		DEPTH (ft)		—			
	N/A		7	Riser				
TOP OF SCREEN	ELEVATION		DEPTH (ft)					
	N/A		8					
BOTTOM OF BORING	ELEVATION		DEPTH (ft)					
	N/A		18					
SCREEN LENGTH								
			10'					
SLOT SIZE						Seal		5.00
		No. 20 Slot; (0.020 Inches					
GRO	OUNDWATER EI	LEVATIONS						8.00
ELEVATION	DATE	DEPTH TO WATE	R					
	9/3/2020	10.21						
ELEVATION	DATE	DEPTH TO WATE	R	PVC		Sand		
				Screen				
ELEVATION	DATE	DEPTH TO WATE	R					
ELEVATION	DATE	DEPTH TO WATE	R					
ELEVATION	DATE	DEPTH TO WATE	R					
						<u> </u>		18.00
*MEASURED FROM TOP OF MONITORING WELL CASING								
1								
LA	NGAN Engineeri	ng, Environme	ntal, Survey	ng, Lar	ndscap	e Architecture	and Geology, D.P.C.	•
	21	i Penn Plaza :	360 West 31	st Stre	et 8th	n Floor, New Y	'ork	

Well No. MW32

PROJECT			PROJECT NO.				
250 Water Street			170381202				
LOCATION			ELEVATION AND DATUM				
New York, New York			N/A				
DRILLING AGENCY			DATE STARTED	DATE FINISHED			
AARCO Environmental Services Co	orp.		8/21/2020 8/21/2020				
DRILLING EQUIPMENT			DRILLER				
Geoprobe® 7822 DT			Rohn Dixon				
SIZE AND TYPE OF BIT			INSPECTOR				
2-inch Direct Push			Tyler Zorn				
BOREHOLE DIAMETER			TYPE OF WELL (OVERBURDEN / BEDROCK)				
2-inch			Overburden				
RISER MATERIAL	DIAMETER		TYPE OF BACKFILL MATERIAL				
PVC	2-inch		No. 2 Sand				
TYPE OF SCREEN	DIAMETER		TYPE OF WELL PACK	TYPE OF SEAL MATERIAL			
PVC No. 20 Slot	2-inch		No. 2 Sand Bentonite				
METHOD OF INSTALLATION							

A Geoprobe® 7822 DT was used to advance the boring to approximately 28 feet below grade surface (bgs). The borehole was backfilled with clean sand to about 19 feet bgs and a 2-inch PVC monitoring well was installed, which consisted of 10 feet of 20-slot (0.020-inch) well screen between 9 and 19 feet bgs and a solid 2-inch riser to grade surface. The annulus was filled with clean sand to one foot above the screened interval, followed by a with a two-foot thick bentonite layer, and clean sand to grade. The well was developed by AARCO Environmental Services, Corp. on 08/26/2020.

SURGE BLOCK DIAMETER		N/A	TYPE PUMP			Whale Pump	DEVELOPMENT CONFIRMATION		
DRILLER OR LANGAN		Driller	MAX PUMP RAT	E		2.2 gpm	Confirmed by Langan on 08/26/2020		
NUMBER OF SURGE CYCL	ES	N/A	TOTAL VOLUME			5 gallons			
TOP OF CASING	ELEVATION	DEPTH (ft)		WELL		DETAILS	SUMMARY SOIL	DEPTH (FT)	
			0			T	CLASSIFICATION		
TOP OF SEAL	ELEVATION		DEPTH (ft)	Cover —				0.00	
	N/A		6			—			
TOP OF FILTER	ELEVATION		DEPTH (ft)		→				
	N/A		8	Riser					
TOP OF SCREEN	ELEVATION		DEPTH (ft)						
	N/A		9						
BOTTOM OF BORING	ELEVATION		DEPTH (ft)						
	N/A		19						
SCREEN LENGTH			10'						
SLOT SIZE			10		- 1	4		6.00	
SLUT SIZE		No. 20 Slot; (0 020 Inches			Seal		6.00	
GRO	DUNDWATER EL	<u>'</u>	0.020 11101100					9.00	
ELEVATION	DATE	DEPTH TO WATE	R						
	9/3/2020	8.65							
ELEVATION	DATE	DEPTH TO WATE	R	PVC		Sand			
				Screen					
ELEVATION	DATE	DEPTH TO WATE	R						
ELEVATION	DATE	DEPTH TO WATE	R						
ELEVATION	DATE	DEPTH TO WATE	R					19.00	
*MEASURED FROM TOP C	F MONITORING WELL C	ASING		<u>L</u>				19.00	
LA	NGAN Engineerir	ng, Environme	ental, Surveyi	l ng, Land	scap	e Architecture	and Geology, D.P.C.		
	21	Penn Plaza,	360 West 31:	st Street	8th	Floor, New Yo	ork		

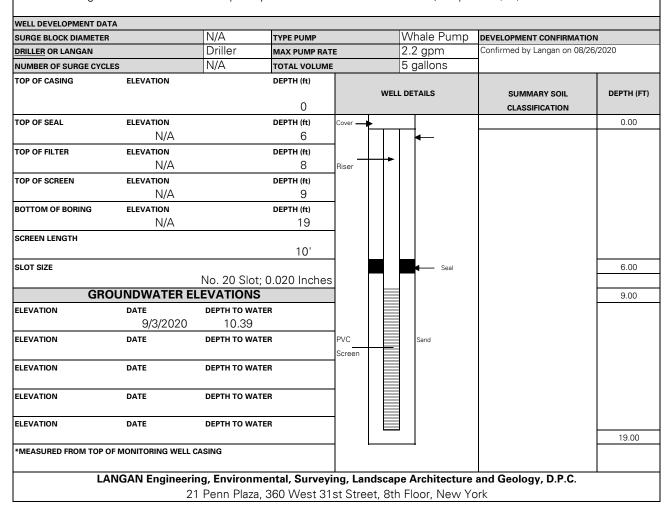
Well No.

MW33

PROJECT		PROJECT NO.					
250 Water Street		170381202					
LOCATION		ELEVATION AND DATUM					
New York, New York		N/A					
DRILLING AGENCY		DATE STARTED	DATE FINISHED				
AARCO Environmental Services Cor	p.	8/21/2020	8/21/2020				
DRILLING EQUIPMENT	DRILLER						
Geoprobe® 7822 DT		Rohn Dixon					
SIZE AND TYPE OF BIT		INSPECTOR					
2-inch Direct Push		Tyler Zorn					
BOREHOLE DIAMETER		TYPE OF WELL (OVERBURDEN / BEDRO	DCK)				
2-inch		Overburden					
RISER MATERIAL	DIAMETER	TYPE OF BACKFILL MATERIAL					
PVC	2-inch	No. 2 Sand	·				
TYPE OF SCREEN	DIAMETER	TYPE OF WELL PACK	TYPE OF SEAL MATERIAL				
PVC No. 20 Slot	2-inch	No. 2 Sand Bentonite					

METHOD OF INSTALLATION

A Geoprobe® 7822 DT was used to advance the boring to approximately 20 feet below grade surface (bgs). The borehole was backfilled with clean sand to about 19 feet bgs and a 2-inch PVC monitoring well was installed, which consisted of 10 feet of 20-slot (0.020-inch) well screen between 9 and 19 feet bgs and a solid 2-inch riser to grade surface. The annulus was filled with clean sand to one foot above the screened interval, followed by a with a two-foot thick bentonite layer, and clean sand to grade. The well was developed by AARCO Environmental Services, Corp. on 08/26/2020.



Well No.

MW34

PROJECT		PROJECT NO.					
250 Water Street		170381202					
LOCATION		ELEVATION AND DATUM					
New York, New York		N/A					
DRILLING AGENCY		DATE STARTED	DATE FINISHED				
AARCO Environmental Services Cor	p.	8/25/2020 8/25/2020					
DRILLING EQUIPMENT		DRILLER					
AMS Power Probe 9580-VTR		Rohn Dixon					
SIZE AND TYPE OF BIT		INSPECTOR					
2-inch Direct Push		Tyler Zorn					
BOREHOLE DIAMETER		TYPE OF WELL (OVERBURDEN / BEDRO	OCK)				
2-inch		Overburden					
RISER MATERIAL	DIAMETER	TYPE OF BACKFILL MATERIAL					
PVC	2-inch	No. 2 Sand					
TYPE OF SCREEN	DIAMETER	TYPE OF WELL PACK TYPE OF SEAL MATERIAL					
PVC No. 20 Slot	2-inch	No. 2 Sand Bentonite					

METHOD OF INSTALLATION

An AMS Power Probe 9580-VTR was used to advance the boring to approximately 20 feet below grade surface (bgs). The borehole was backfilled with clean sand to about 19 feet bgs and a 2-inch PVC monitoring well was installed, which consisted of 10 feet of 20-slot (0.020-inch) well screen between 9 and 19 feet bgs and a solid 2-inch riser to grade surface. The annulus was filled with clean sand to one foot above the screened interval, followed by a with a two-foot thick bentonite layer, and clean sand to grade. The well was developed by AARCO Environmental Services, Corp. on 08/26/2020.

WELL DEVELOPMENT DA		N/A	TVDE DUIME			Whale Pump	DELICE ORMENT CONFIDENCE	n
SURGE BLOCK DIAMETER	t		TYPE PUMP				DEVELOPMENT CONFIRMATION	
DRILLER OR LANGAN		Driller	MAX PUMP RAT			2.2 gpm	Confirmed by Langan on 08/2	26/2020
NUMBER OF SURGE CYCI	LES	N/A	TOTAL VOLUME			5 gallons		
TOP OF CASING	ELEVATION		DEPTH (ft)	WELL DETAILS		DETAILS	SUMMARY SOIL	DEPTH (FT)
			0		WEEL DETAILS		CLASSIFICATION	DEI III (I I)
TOP OF SEAL	ELEVATION		DEPTH (ft)	Cover —				0.00
	N/A		6			←		
TOP OF FILTER	ELEVATION		DEPTH (ft)					
	N/A		8	Riser	→			
TOP OF SCREEN	ELEVATION		DEPTH (ft)					
	N/A		9					
BOTTOM OF BORING	ELEVATION		DEPTH (ft)					
	N/A		19					
SCREEN LENGTH								
			10'					
SLOT SIZE						← Seal		6.00
		No. 20 Slot; (0.020 Inches					
GRO	OUNDWATER EL	EVATIONS						9.00
ELEVATION	DATE	DEPTH TO WATE	R					
	9/3/2020	9.43						
ELEVATION	DATE	DEPTH TO WATE	R	PVC		Sand		
				Screen				
ELEVATION	DATE	DEPTH TO WATE	R					
ELEVATION	DATE	DEPTH TO WATE	R	-				
ELEVATION	DATE	DEPTH TO WATE	R			l		19.00
*MEASURED FROM TOP (*MEASURED FROM TOP OF MONITORING WELL CASING							13.00
1.4	NGAN Engineerir	na. Environme	ental. Survevi	ng. Land	dscan	e Architecture	and Geology, D.P.C.	
	-	Penn Plaza,	-	-	-			

APPENDIX E GROUNDWATER SAMPLING LOGS

Project Name:	250 Water Street	Well No:		Water Qua	lity Device Model:	Horiba U52		Weather:	dy, 70s, wind ESE	- Cumpmig	MW11_090120	
Project Number:	170381202	Well Depth:	15'		Pine Number:	21356	Back	ground PID (ppm):	0.0	Sample(s):		
Site Location:	New York	Well Diameter:	2"	Pump	Make and Model:			n Inner Cap (ppm):				
Sampling	Lexi Haley	Well Screen	5'-15'		Pine Number:	24459		ımp Intake Depth:		Sample Date:	9/1/2020	
Personnel:		Interval:			Tubing Diameter:	1/4" ID x 3/8" OD	Depth to W	ater Before Purge:		Sample Time:	11:30	
				ABILIZATION = 3 st								
	TEMP	PH	ORP	CONDUCTIVITY	TURBIDITY	DO	DTW	Flow Rate	Cumulative	NOTES		
	°Celsius		mV	mS/cm	ntu	mg/l	ft	(gpm)	Discharge		Stabilized?	
					(+/- 10%) above		Drawdown <		Volume (Gal)		Stabilizeur	
TIME	(+/- 3%)	(+/- 0.1)	(+/- 10mV)	(+/- 3%)	5 NTU	0.5 mg/l	0.33 ft	<0.13 gpm)	Volume (Gai)	color, odor etc.		
BEGIN PURGING												
11:05	24.18	7.37	-89	0.672	227.0	0.15	0.00		0.3	light brown color	N/A	
11:10	23.84	7.74	-121	0.667	5.5	0.00	0.00	0.05	0.55	clear , sultur-like	N/A	
										odor		
11:15	23.71	7.96	-138	0.673	0.0	0.00	0.00	0.09	1.0		N	
11:20	23.66	8.00	-144	0.679	0.0	0.00	0.00	0.1	1.5		N	
11:25	23.66	8.05	-147	0.680	0.0	0.00	0.00	0.3			Y	
11:30											N	
11:35											N	
11:40											N	
11:45											N	
11:50											N	
11:55 12:00											N N	
12:05											N	
12:10											N	
12:15											N	
12:10											N	
12:25											N	
12:30											N	
											N	
											N	
											N	
											N	
											N	
											N	
											N	
											N	
			·						, 		N	
											N	
											N	

Sampling Conditions

Sampling Information

<u>Notes</u>

- 1. Well depths and groundwater depths were measured in feet below the top of well casing.
- 2. Well and tubing diameters are measured in inches.

Project Information

- 3. PID = Photoionization Detector
- 4. PPM = Parts per million
- 5. pH = Hydrogen ion concentration
- 6. ORP = Oxidation-reduction potential, measured in millivolts (mV)
- 7. DO = Dissolved Oxygen, measured in milligrams per liter (mg/L)
- 8. DTW = Depth to water
- 9. mS/cm = milli-Siemans per centimeter
- 10. NTU = Nephelometric Turbidity Unit

	t illioilliation		illation		aipinione inionnae		•	ampling Condition		Oumpling ii	
Project Name:		Well No:		Water Qua	lity Device Model:				dy, 70s, wind ESE 5		MW15_090120
Project Number:	170381202	Well Depth:	22'		Pine Number:			ground PID (ppm):		Sample(s):	
Site Location:	New York	Well Diameter:	2"	Pump	Make and Model:			n Inner Cap (ppm):			
Sampling	Tyler Zorn	Well Screen	12'-22'		Pine Number:		Pu	ımp Intake Depth:	18'	Sample Date:	9/1/2020
Personnel:		Interval:			Tubing Diameter:		Depth to W	ater Before Purge:		Sample Time:	13:15
			STA	ABILIZATION = 3 st	uccessive readings	within limits					
	TEMP	PH	ORP	CONDUCTIVITY	TURBIDITY	DO	DTW	Flow Rate	Cumulative	NOTES	
	°Celsius		mV	mS/cm	ntu	mg/l	ft	(gpm)			04 - 1-111 12
					(+/- 10%) above	(+/- 10%) above	Drawdown <	,51 ,	Discharge		Stabilized?
TIME	(+/- 3%)	(+/- 0.1)	(+/- 10mV)	(+/- 3%)	5 NTU	0.5 mg/l	0.33 ft	<0.13 gpm)	Volume (Gal)	color, odor etc.	
	(11 272)	((11 1011117	(11 272)	BEGIN PURG			ionio gipini,			
12:50	24.79	7.54	93	1.350	10.4	0.00		0.0	0		N/A
12:55	24.70	7.58	80	1.440	18.8	0.00		0.2	1	•	N/A
13:00	24.74	7.54	73	1.570	7.3	0.00		0.1	1.5	clear, no odors	N
13:05	24.76	7.52	71	1.600	1.5	0.00		0.15	2.25		N
13:10	24.81	7.51	71	1.610	0.6	0.00		0.15	3		N
13:15	24.88	7.51	72	1.610	0.4	0.00		0.1	3.5		Y
13:20	2.100	7.01	, -		0	0.00		0.7	0.0		N
13:25								2			N
13:30											N
13:35											N
13:40											N
13:45											N
13:50											N
13:55											N
14:00											N
14:05											N
14:10											N
14:15											N
											N
											N
											N
											N
											N
											N
											N
											N
											N
											N
											N

Sampling Conditions

Sampling Information

Notes:

- 1. Well depths and groundwater depths were measured in feet below the top of well casing.
- 2. Well and tubing diameters are measured in inches.

Project Information

- 3. PID = Photoionization Detector
- 4. PPM = Parts per million
- 5. pH = Hydrogen ion concentration
- 6. ORP = Oxidation-reduction potential, measured in millivolts (mV)
- 7. DO = Dissolved Oxygen, measured in milligrams per liter (mg/L)
- 8. DTW = Depth to water
- 9. mS/cm = milli-Siemens per centimeter
- 10. NTU = Nephelometric Turbidity Unit

	05014/ + 01		A 4) A /4 7		iii D : Ma i i			amping Condition		Cumping	
Project Name:		Well No:		Water Qua	lity Device Model:				dy, 70s, wind ESE!		MW17_090120
Project Number:	170381202	Well Depth:			Pine Number:			ground PID (ppm):		Sample(s):	
Site Location:	New York	Well Diameter:	2"	Pump	Make and Model:			n Inner Cap (ppm):			
Sampling	Tyler Zorn	Well Screen	7'-17'		Pine Number:			ımp Intake Depth:	12'	Sample Date:	9/1/2020
Personnel:		Interval:				1/4" ID x 3/8" OD	Depth to W	ater Before Purge:		Sample Time:	10:35
			ST	ABILIZATION = 3 st	uccessive readings	s within limits					
	TEMP	PH	ORP	CONDUCTIVITY	TURBIDITY	DO	DTW	Flow Rate	C	NOTES	
	°Celsius		mV	mS/cm	ntu	mg/l	ft	(gpm)	Cumulative		
						(+/- 10%) above		(3)/	Discharge		Stabilized?
TIME	(+/- 3%)	(+/- 0.1)	(+/- 10mV)	(+/- 3%)	5 NTU	0.5 mg/l	0.33 ft	<0.13 gpm)	Volume (Gal)	color, odor etc.	
	(17 670)	(17 0.17	(17 1011117)	(17 070)	BEGIN PURG		0.0010	to ito gpiiii)		001017 0001 010.	
9.40	9:40 22.91 6.14 152 1.250 151.0 0.00 0.0 0										N/A
9:45	23.64	6.41	48	1.200	26.3	0.00		0.0	1		N/A
9:50	22.62	6.53	25	1.190	27.3	0.00		0.1	1.5	slightly yellow, no	N
9:55	22.57	6.58	8	1.180	28.1	0.00		0.15	2.25	odors	N
10:00	22.57	6.59	0	1.180	26.6	0.00		0.15	3		N
10:05	22.59	6.60	-6	1.180	27.0	0.00		0.13	3.5		N
10:10	22.57	6.65	-11	1.170	27.8	0.00		0.1	4	1	N
10:15	22.54	6.67	-18	1.180	23.3	0.00		0.1	4.5	1	N
10:15	22.54	6.68	-16 -21	1.200	20.0	0.00		0.15	5.25	clear, no odors	N
						0.00			6	-	N N
10:25	22.53	6.68	-24	1.200	17.0			0.15		-	
10:30	22.59	6.69	-25	1.210	17.5	0.00		0.3	7.5		N
10:35	22.61	6.69	-28	1.230	15.9	0.00		0.15	8.25		Y
10:40								1.65			N
10:45											N
10:50											N
10:55											N
11:00											N
11:05											N
											N
											N
											N
											N
											N
											N
											N
											N
											N
											N
											N

Sampling Conditions

Sampling Information

Notes:

- 1. Well depths and groundwater depths were measured in feet below the top of well casing.
- 2. Well and tubing diameters are measured in inches.

Project Information

- 3. PID = Photoionization Detector
- 4. PPM = Parts per million
- 5. pH = Hydrogen ion concentration
- 6. ORP = Oxidation-reduction potential, measured in millivolts (mV)
- 7. DO = Dissolved Oxygen, measured in milligrams per liter (mg/L)
- 8. DTW = Depth to water
- 9. mS/cm = milli-Siemens per centimeter
- 10. NTU = Nephelometric Turbidity Unit

Project Name:	250 Water Street	Well No:	MW-25	Water Qua	lity Device Model:				dy, 70s, wind ESE		MW25_090120	
Project Number:	170381202	Well Depth:	22'		Pine Number:			round PID (ppm):		Sample(s):		
Site Location:	New York	Well Diameter:	2"	Pump	Make and Model:			Inner Cap (ppm):				
Sampling	Lexi Haley	Well Screen	12'-22'		Pine Number:		Pu	ımp Intake Depth:	18'	Sample Date:	9/1/2020	
Personnel:		Interval:			Tubing Diameter:		Depth to Wa	ater Before Purge:		Sample Time:	15:40	
•				ABILIZATION = 3 s		within limits						
	TEMP	PH	ORP	CONDUCTIVITY	TURBIDITY	DO	DTW	Flow Rate	Commentations	NOTES		
	°Celsius		mV	mS/cm	ntu	mg/l	ft	(gpm)	Cumulative		01.1.11112	
					(+/- 10%) above	(+/- 10%) above	Drawdown <		Discharge		Stabilized?	
TIME	(+/- 3%)	(+/- 0.1)	(+/- 10mV)	(+/- 3%)	5 NTU	0.5 mg/l	0.33 ft	<0.13 gpm)	Volume (Gal)	color, odor etc.		
BEGIN PURGING												
14:35	31.00	7.59	94	1.060	800.0	0.44			0.25	light brown color	N/A	
14:40	31.10	7.65	101	1.050	443.0	0.15		0.2	1.25	clear	N/A	
14:45	31.21	7.69	99	1.040	252.0	0.06		0.05	1.5		N	
14:50	31.21	7.73	96	1.030	129.0	0.00		0.1	2		N	
14:55	31.21	7.76	94	1.020	63.2	0.00		0.1	2.5		N	
15:00	30.98	7.75	94	1.030	53.3	0.00		0.08	2.9		N	
15:05	30.89	7.72	92	1.020	32.4	0.00		0.12	3.5		N	
15:10	30.84	7.77	91	1.010	23.9	0.00		0.08	3.9		N	
15:15	30.87	7.77	90	0.998	21.5	0.00		0.07	4.25		N	
15:20	30.96	7.80	90	0.991	15.7	0.00		0.15	5		N	
15:25	31.04	7.84	88	0.986	15.4	0.00		0.1	5.5		N	
15:30	31.12	7.92	87	0.982	14.6	0.00		0.14	6.2		N	
15:35	31.11	8.26	85	0.868	14.5	0.00		0.1	6.7		N	
											N	
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Sampling Conditions

Sampling Information

Notes

- 1. Well depths and groundwater depths were measured in feet below the top of well casing.
- 2. Well and tubing diameters are measured in inches.

Project Information

- 3. PID = Photoionization Detector
- 4. PPM = Parts per million
- 5. pH = Hydrogen ion concentration
- 6. ORP = Oxidation-reduction potential, measured in millivolts (mV)
- 7. DO = Dissolved Oxygen, measured in milligrams per liter (mg/L)
- 8. DTW = Depth to water
- 9. mS/cm = milli-Siemans per centimeter
- 10. NTU = Nephelometric Turbidity Unit

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Project Name:	250 Water Street	Well No:		Water Qua	lity Device Model:			Weather:	//rainy, 70s, wind S		MW26_090220
Project Number:	170381202	Well Depth:	21'		Pine Number:	21356	Back	ground PID (ppm):	0.0	Sample(s):	
Site Location:	New York	Well Diameter:	2"	Pump	Make and Model:	Peri pump	PID Beneatl	n Inner Cap (ppm):	12.7		
Sampling	Tyler Zorn	Well Screen	11'-21'		Pine Number:	A01785		ump Intake Depth:		Sample Date:	9/2/2020
Personnel:	,	Interval:			Tubing Diameter:	1/4" ID x 3/8" OD	Depth to W	ater Before Purge:		Sample Time:	13:00
			ST	ABILIZATION = 3 se	uccessive readings	within limits					
	TEMP	PH	ORP	CONDUCTIVITY		DO	DTW	Flow Rate		NOTES	
	°Celsius		mV	mS/cm	ntu	mg/l	ft	(gpm)	Cumulative		
	00.0.00			11107 0111	(+/- 10%) above		Drawdown <	(96)	Discharge		Stabilized?
TIME	(+/- 3%)	(+/- 0.1)	(+/- 10mV)	(+/- 3%)	5 NTU	0.5 mg/l	0.33 ft	<0.13 gpm)	Volume (Gal)	color, odor etc.	
IIIVIL	(+7-370)	(+/- 0.1)	(T /- IOIIIV)	(+7-3/0)	BEGIN PURG		0.55 11	Co. 15 gpiii/		color, odor etc.	
12:10	24.39	8.03	-76	1.740	133.0	0.55		0.0	0		N/A
12:15	24.04	7.95	-70 -92	1.770	114.0	0.00		0.15	0.75		N/A
12:10	24.07	7.92	-95	1.740	71.6	0.00		0.13	1.25	yellowish color, no	N
12:25	24.11	7.93	-94	1.740	33.7	0.00		0.1	1.75	odors	N
12:30	24.15	7.94	-94 -91	1.680	20.0	0.00		0.1	2.25		N
12:35	24.15	7.88	-88	1.650	12.9	0.00		0.05	2.5		N
12:40	24.25	7.82	-00 -86	1.650	9.1	0.00		0.05	3		N
12:45		7.79	-85		7.5	0.00					
	24.30			1.630				0.1	3.5	clear, no odors	N
12:50	24.36	7.79	-84	1.630	4.1	0.00		0.1	4		N
12:55	24.45	7.80	-84	1.610	3.6	0.00		0.1	4.5		N
13:00	24.45	7.74	-84	1.600	1.4	0.00		0.1	5		Υ
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Sampling Conditions

Sampling Information

Notes:

- 1. Well depths and groundwater depths were measured in feet below the top of well casing.
- 2. Well and tubing diameters are measured in inches.

Project Information

- 3. PID = Photoionization Detector
- 4. PPM = Parts per million
- 5. pH = Hydrogen ion concentration
- 6. ORP = Oxidation-reduction potential, measured in millivolts (mV)
- 7. DO = Dissolved Oxygen, measured in milligrams per liter (mg/L)
- 8. DTW = Depth to water
- 9. mS/cm = milli-Siemens per centimeter
- 10. NTU = Nephelometric Turbidity Unit

Project Name:	250 Water Street	Well No:	MW28	Water Qua	lity Device Model:	Horiba U-52		Weather:	dy, 70s, wind ESE		MW28_090120
Project Number:	170381202	Well Depth:	14'		Pine Number:			ground PID (ppm):		Sample(s):	
Site Location:	New York	Well Diameter:	2"	Pump	Make and Model:		PID Beneath	Inner Cap (ppm):	0.0		
Sampling	Tyler Zorn	Well Screen	4'-14'		Pine Number:	A01785	Pι	ımp Intake Depth:	10'	Sample Date:	9/1/2020
Personnel:		Interval:			Tubing Diameter:	1/4" ID x 3/8" OD	Depth to Wa	ater Before Purge:		Sample Time:	15:55
			STA	ABILIZATION = 3 s	uccessive readings	within limits					
	TEMP	PH	ORP	CONDUCTIVITY	TURBIDITY	DO	DTW	Flow Rate	Cumulative	NOTES	
	°Celsius		mV	mS/cm	ntu	mg/l	ft	(gpm)	Discharge		Stabilized?
					(+/- 10%) above	(+/- 10%) above	Drawdown <		Volume (Gal)		Stabilized?
TIME	(+/- 3%)	(+/- 0.1)	(+/- 10mV)	(+/- 3%)	5 NTU	0.5 mg/l	0.33 ft	<0.13 gpm)	volume (Gai)	color, odor etc.	
					BEGIN PURG	ING					
14:50	27.04	7.23	-60	1.620	210.0	0.00		0.0	0		N/A
14:55	24.50	6.92	-82	1.630	367.0	0.00		0.1	0.5	slightly brown, no	N/A
15:00	23.76	6.85	-91	1.750	443.0	0.00		0.15	1.25	odors	N
15:05	23.65	6.76	-91	1.840	283.0	0.00		0.1	1.75		N
15:10	23.53	6.74	-91	1.840	105.0	0.00		0.15	2.5		N
15:15	23.62	6.72	-91	1.840	109.0	0.00		0.1	3		N
15:20	23.64	6.71	-90	1.850	50.2	0.00		0.1	3.5		N
15:25	23.87	6.72	-91	1.850	39.4	0.00		0.1	4	clear, no odors	N
15:30	23.96	6.74	-93	1.840	36.1	0.00		0.1	4.5	clear, no odors	N
15:35	24.15	6.75	-93	1.840	28.4	0.00		0.1	5		N
15:40	24.15	6.75	-94	1.840	16.8	0.00		0.1	5.5		N
15:45	24.05	6.74	-94	1.840	19.2	0.00		0.1	6		N
15:50	24.00	6.77	-94	1.840	15.0	0.00		0.1	6.5		N
15:55	23.86	6.75	-95	1.830	12.9	0.00		0.1	7		N
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Sampling Conditions

Sampling Information

Notes:

- 1. Well depths and groundwater depths were measured in feet below the top of well casing.
- 2. Well and tubing diameters are measured in inches.

Project Information

- 3. PID = Photoionization Detector
- 4. PPM = Parts per million
- 5. pH = Hydrogen ion concentration
- 6. ORP = Oxidation-reduction potential, measured in millivolts (mV)
- 7. DO = Dissolved Oxygen, measured in milligrams per liter (mg/L)
- 8. DTW = Depth to water
- 9. mS/cm = milli-Siemens per centimeter
- 10. NTU = Nephelometric Turbidity Unit

MW30_090220		/Rainy, 70s, wind V				lity Device Model:	Water Qua	MW-32	Well No:	250 Water Street	Project Name:		
	Sample(s):	0.0	round PID (ppm):	Backg	21418	Pine Number:		22'	Well Depth:	170381202	Project Number:		
			Inner Cap (ppm):			Make and Model:	Pump	2"	Well Diameter:	New York	Site Location:		
9/2/2020	Sample Date:	18'	mp Intake Depth:			Pine Number:		12-22'	Well Screen	Lexi Haley	Sampling		
14:05	Sample Time:		ter Before Purge:	Depth to Wa		Tubing Diameter:			Interval:		Personnel:		
							ABILIZATION = 3 s						
	NOTES	Cumulative	Flow Rate	DTW	DO	TURBIDITY	CONDUCTIVITY	ORP	PH	TEMP			
Stabilized?		Discharge	(gpm)	ft	mg/l	ntu	mS/cm	mV		°Celsius			
Stabilizeur		Volume (Gal)		Drawdown <	(+/- 10%) above	(+/- 10%) above							
	color, odor etc.	volume (Gai)	<0.13 gpm)	0.33 ft	0.5 mg/l	5 NTU	(+/- 3%)	(+/- 10mV)	(+/- 0.1)	(+/- 3%)	TIME		
	BEGIN PURGING												
BL/A	petroleum-like	0.05			0.00	1.0	0.000	00	7.47	20.04	10.55		
N/A	odors	0.25			0.00	1.3	2.090	-69	7.47	30.04	12:55		
N/A	grey color	0.7	0.09		0.00	77.6	1.790	-145	7.54	30.16	13:00		
N		0.9	0.03		0.00	60.9	1.650	-163	7.59	30.15	13:05		
N		1	0.03		0.00	48.6	1.600	-175	7.61	30.12	13:10		
N		1.25	0.05		0.00	41.9	1.540	-186	7.63	30.07	13:15		
N		1.5	0.05		0.00	28.3	1.480	-196	7.66	30.15	13:20		
N		1.7	0.04		0.00	21.7	1.410	-205	7.69	30.26	13:25		
N		1.85	0.03		0.00	19.0	1.380	-212	7.71	30.24	13:30		
N		2.1	0.05		0.00	15.4	1.330	-220	7.74	30.22	13:35		
N		2.3	0.04		0.00	12.2	1.290	-227	7.76	30.18	13:40		
N		2.75	0.09		0.00	12.0	1.240	-233	7.78	30.13	13:45		
N		3	0.05		0.00	10.2	1.210	-238	7.80	30.17	13:50		
N		3.2	0.04		0.00	7.8	1.210	-242	7.80	30.17	13:55		
N		3.45	0.05		0.00	6.8	1.200	-245	7.81	30.19	14:00		
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Sampling Conditions

Sampling Information

<u>Notes</u>

- 1. Well depths and groundwater depths were measured in feet below the top of well casing.
- 2. Well and tubing diameters are measured in inches.

Project Information

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- 4. PPM = Parts per million
- 5. pH = Hydrogen ion concentration
- 6. ORP = Oxidation-reduction potential, measured in millivolts (mV)
- 7. DO = Dissolved Oxygen, measured in milligrams per liter (mg/L)
- 8. DTW = Depth to water
- 9. mS/cm = milli-Siemans per centimeter
- 10. NTU = Nephelometric Turbidity Unit

Site Location: New York Well Diameter: 2" Pump Make and Model: Peristaltic PID Beneath Inner Cap (ppm): 360.3 Sampling Lexi Haley Well Screen 8-18' Pine Number: 24459 Pump Intake Depth: 15' San	e Date: 9/2/2020 e Time: 9:20												
Sampling Lexi Haley Well Screen 8-18' Pine Number: 24459 Pump Intake Depth: 15' San Personnel: Tubing Diameter: 1/4" ID x 3/8" OD Depth to Water Before Purge: Sam	9:20												
Personnel: Tubing Diameter: 1/4" ID x 3/8" OD Depth to Water Before Purge: Sam	9:20												
STABILIZATION = 3 successive readings within limits	S												
TEMP PH ORP CONDUCTIVITY TURBIDITY DO DTW Flow Rate NOTES													
TEMP PH ORP CONDUCTIVITY TURBIDITY DO DTW Flow Rate Cumulative													
°Celsius mV mS/cm ntu mg/l ft (gpm) Discharge	Canbilland												
(±/- 10%) above (±/- 10%) above Drawdown <	Stabilized												
TIME (+/- 3%) (+/- 10mV) (+/- 3%) 5 NTU 0.5 mg/l 0.33 ft <0.13 gpm) Volume (Gal) color, 4	or etc.												
BEGIN PURGING													
Out Out Out Out Out Out Out Out Out Out	n-like												
8:15 24.18 6.77 -93 2.190 0.0 0.00 0.00 0.3 perior	I Ν/Δ												
8:20 24.04 7.40 -89 2.080 0.0 0.00 0.06 0.6	N/A												
8:25 24.06 7.53 -103 2.050 0.0 0.00 0.08 1.0	N												
8:30 24.07 7.57 -122 2.050 0.0 0.00 0.08 1.4	N												
8:35 24.07 7.58 -131 2.030 0.0 0.00 0.07 1.75	N												
8:40 24.07 7.60 -140 2.050 0.0 0.00 0.05 2	N												
8:45 24.09 7.61 -151 2.070 0.0 0.00 0.08 2.4	N												
8:50 24.05 7.62 -159 2.060 0.0 0.00 0.04 2.6	N												
8:55 23.99 7.63 -169 2.070 0.0 0.00 0.08 3	N												
9:00 24.01 7.64 -182 2.090 0.0 0.00 0.08 3.4	N												
9:05 24.03 7.64 -185 2.100 0.0 0.00 0.06 3.7	N												
9:10 24.04 7.64 -194 2.110 0.0 0.00 0.06 4	N												
9:15 24.03 7.65 -201 2.120 0.0 0.00 0.05 4.25	N												
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Sampling Conditions

Sampling Information

<u>Notes</u>

- 1. Well depths and groundwater depths were measured in feet below the top of well casing.
- 2. Well and tubing diameters are measured in inches.

Project Information

- 3. PID = Photoionization Detector
- 4. PPM = Parts per million
- 5. pH = Hydrogen ion concentration
- 6. ORP = Oxidation-reduction potential, measured in millivolts (mV)
- 7. DO = Dissolved Oxygen, measured in milligrams per liter (mg/L)
- 8. DTW = Depth to water
- 9. mS/cm = milli-Siemans per centimeter
- 10. NTU = Nephelometric Turbidity Unit

Project Name:	250 Water Street	Well No:	MW-32		lity Device Model:			Weather:	Rainy, 70s, wind W	- Cumping ii	MW32_090220
Project Number:	170381202	Well Depth:	19'	Water Que	Pine Number:		Backo	round PID (ppm):		Sample(s):	
Site Location:	New York	Well Diameter:	2"	Pumr	Make and Model:		PID Reneath	Inner Cap (ppm):	32.0	Jampie(3).	
Sampling	Lexi Haley	Well Screen	9'-19'	i dili	Pine Number:			mp Intake Depth:	15'	Sample Date:	9/2/2020
Personnel:	Lexi Haley	Interval:	3-13		Tubing Diameter:			ter Before Purge:	10	Sample Time:	11:15
reisonnei.		ilitei vai.	ST.	ΔRII IZΔTION – 3 c	uccessive readings	within limits	Deptil to wa	iter belore rurge.		Sample Time.	11.15
	TEMP	PH	ORP	CONDUCTIVITY	TURBIDITY	DO	DTW	Flow Rate		NOTES	
		rn e							Cumulative	INOTES	
	°Celsius		mV	mS/cm	ntu	mg/l	ft	(gpm)	Discharge		Stabilized?
							Drawdown < 0.33		Volume (Gal)		
TIME	(+/- 3%)	(+/- 0.1)	(+/- 10mV)	(+/- 3%)	NTU	0.5 mg/l	ft	<0.13 gpm)	Totalilo (Gail)	color, odor etc.	
					BEGIN PURG	ing					
petroleum-like											
10:35	23.09	7.47	-80	2.600	2.8	0.00			0.3	· ·	N/A
										odors	
10:40	23.10	7.40	-106	2.570	11.0	0.00		0.06	0.6		N/A
10:45	23.19	7.39	-125	2.420	14.6	0.00		0.03	0.8		N
10:50	23.27	7.39	-140	2.550	15.3	0.00		0.05	1		N
10:55	23.30	7.37	-146	2.570	5.7	0.00		0.05	1.25		N
11:00	23.29	7.37	-147	2.570	3.2	0.00		0.05	1.5		N
11:05	23.34	7.35	-148	2.590	0.4	0.00		0.05	1.75		N
11:10	23.33	7.34	-149	2.600	0.0	0.00		0.05	2		Υ
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Sampling Conditions

Sampling Information

Notes

- 1. Well depths and groundwater depths were measured in feet below the top of well casing.
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Project Information

- 3. PID = Photoionization Detector
- 4. PPM = Parts per million
- 5. pH = Hydrogen ion concentration
- 6. ORP = Oxidation-reduction potential, measured in millivolts (mV)
- 7. DO = Dissolved Oxygen, measured in milligrams per liter (mg/L)
- 8. DTW = Depth to water
- 9. mS/cm = milli-Siemans per centimeter
- 10. NTU = Nephelometric Turbidity Unit

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Project Name:	250 Water Street	Well No:	MW33	Water Qua	lity Device Model:			Weather:	/rainy, 70s, wind S		MW33_090220
Project Number:	170381202	Well Depth:	19'		Pine Number:	21356	Backg	ground PID (ppm):	0.0	Sample(s):	
Site Location:	New York	Well Diameter:	2"	Pump	Make and Model:	Peri pump	PID Beneath	Inner Cap (ppm):	0.0		
Sampling	Tyler Zorn	Well Screen	9'-19'		Pine Number:	A01785		imp Intake Depth:	15'	Sample Date:	9/2/2020
Personnel:	,	Interval:			Tubing Diameter:	1/4" ID x 3/8" OD	Depth to W	ater Before Purge:		Sample Time:	8:50
			ST	ABILIZATION = 3 se	uccessive readings	within limits		U			
	TEMP	PH	ORP	CONDUCTIVITY		DO	DTW	Flow Rate		NOTES	
	°Celsius		mV	mS/cm	ntu	mg/l	ft	(gpm)	Cumulative		
	Ocisias		•	111070111	(+/- 10%) above		Drawdown <	(9011)	Discharge		Stabilized?
TIME	(+/- 3%)	(+/- 0.1)	(+/- 10mV)	(+/- 3%)	5 NTU	0.5 mg/l	0.33 ft	<0.13 gpm)	Volume (Gal)	color, odor etc.	
IIIVIL	(+7 - 3 /0)	(+/- 0.1)	(T /- IOIIIV)	(T /- 3 /0)	BEGIN PURG		0.33 11	Co. 13 gpiii)		color, odor etc.	
8:05	22.87	6.55	-122	2.260	94.0	0.31		0.0	0	slightly yellow,	N/A
8:10	22.75	7.95	-204	2.220	26.9	0.00		0.15	0.75	strong petroleum-	N/A
8:15	22.74	8.34	-214	2.170	18.7	0.00		0.15	1.25	like odors	N N
										like odors	N
8:20 8:25	22.73 22.70	8.42 8.44	-216 -217	2.140 2.110	22.5 18.4	0.00 0.00		0.1 0.1	1.75 2.25		N
										alaar atrana	
8:30	22.70	8.44	-217	2.110	10.9	0.00		0.15	3	clear, strong	N
8:35	22.71	8.47	-218	2.090	5.2	0.00		0.1	3.5	petroleum-like	N
8:40	22.70	8.50	-218	2.060	3.0	0.00		0.1	4	odors	N
8:45	22.70	8.50	-217	2.030	1.9	0.00		0.1	4.5		N
8:50	22.68	8.50	-216	2.010	0.0	0.00		0.1	5		Υ
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Sampling Conditions

Sampling Information

Notes:

- 1. Well depths and groundwater depths were measured in feet below the top of well casing.
- 2. Well and tubing diameters are measured in inches.

Project Information

- 3. PID = Photoionization Detector
- 4. PPM = Parts per million
- 5. pH = Hydrogen ion concentration
- 6. ORP = Oxidation-reduction potential, measured in millivolts (mV)
- 7. DO = Dissolved Oxygen, measured in milligrams per liter (mg/L)
- 8. DTW = Depth to water
- 9. mS/cm = milli-Siemens per centimeter
- 10. NTU = Nephelometric Turbidity Unit

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Project Name:		Well No:		Water Qua	lity Device Model:				y/rainy, 70s, wind S		MW34_090220
Project Number:	170381202	Well Depth:	19'		Pine Number:	21356	Backg	ground PID (ppm):	0.0	Sample(s):	
Site Location:	New York	Well Diameter:	2"	Pump	Make and Model:	Peri pump	PID Beneath	Inner Cap (ppm):	0.0		
Sampling	Tyler Zorn	Well Screen	9'-19'		Pine Number:		Pı	ımp Intake Depth:	15'	Sample Date:	9/2/2020
Personnel:	,	Interval:			Tubing Diameter:	1/4" ID x 3/8" OD	Depth to W	ater Before Purge:		Sample Time:	10:35
1		l .	STA	ABILIZATION = 3 se	uccessive readings	within limits				•	
	TEMP	PH	ORP	CONDUCTIVITY		DO	DTW	Flow Rate		NOTES	
	°Celsius		mV	mS/cm	ntu	mg/l	ft	(gpm)	Cumulative		
	Ceisius		111 V	1113/6111		(+/- 10%) above		(gpiii)	Discharge		Stabilized?
TINAT	(- (00/)	1.1.04	1.1.4010	1.1.00/\	5 NTU			.0.40	Volume (Gal)		
TIME	(+/- 3%)	(+/- 0.1)	(+/- 10mV)	(+/- 3%)		0.5 mg/l	0.33 ft	<0.13 gpm)		color, odor etc.	
10.00			1=0	1 100	BEGIN PURG					1	
10:00	22.29	8.67	-170	1.420	69.4	1.00		0.0	0	slightly yellow,	N/A
10:05	22.00	8.86	-216	1.400	30.0	0.00		0.1	0.5	strong petroleum-	N/A
10:10	22.01	8.94	-222	1.320	49.0	0.00		0.15	1.25	like odors	N
10:15	22.03	8.98	-224	1.160	49.1	0.00		0.15	2	like odors	N
10:20	22.05	8.98	-225	1.110	48.2	0.00		0.05	2.25	clear, strong	N
10:25	22.09	9.01	-225	1.060	43.2	0.00		0.05	2.5	petroleum-like	N
10:30	22.07	8.96	-226	1.080	39.9	0.00		0.1	3	'	N
10:35	22.06	9.04	-225	1.080	40.0	0.00		0.1	3.5	odors	Υ
											N
											N
											N
											N
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				-							N
				-							N
											IV

Sampling Conditions

Sampling Information

Notes:

- 1. Well depths and groundwater depths were measured in feet below the top of well casing.
- 2. Well and tubing diameters are measured in inches.

Project Information

- 3. PID = Photoionization Detector
- 4. PPM = Parts per million
- 5. pH = Hydrogen ion concentration
- 6. ORP = Oxidation-reduction potential, measured in millivolts (mV)
- 7. DO = Dissolved Oxygen, measured in milligrams per liter (mg/L)
- 8. DTW = Depth to water
- 9. mS/cm = milli-Siemens per centimeter
- 10. NTU = Nephelometric Turbidity Unit

APPENDIX F SOIL VAPOR CONSTRUCTION AND SAMPLE LOGS

SOIL VAPOR SAMPLING LOG SHEET

Sample Number: AA02

PROJECT:		PROJECT NO.:								
250 Water Street		170381202								
LOCATION: New York, New York		N/A	TION AND DATUM:							
DRILLING FIRM OR LANGAN INSTALLER:		INSTALLATION D	ATE STARTED:		DATE FINISHED:					
N/A		INGTALLATION	N/A		N/A					
INSTALLATION FOREMAN:		SAMPLE DATE S	TARTED:		DATE FINISHED:					
N/A		7/	/9/2020		7/9/2020					
INSTALLATION EQUIPMENT:			TYPE OF SAMPLING DEVICE: 6-Liter Summa Canister; Sorbent Tube							
N/A INSPECTOR:		6-Liter Sumn	na Canister; Sorbe	ent lube						
Thomas Schiefer		Thomas Schi	iefer							
POTENTIAL SAMPLE INTERFERENCES:				PRESS., WIND SPEED AND DIR.)	:					
Vehicle exhaust from on and off-site traffic		Temp:	Temp: 76-80 °F							
		Wind: SE 0-10 mph								
		Precipitation: N/A Pressure: 30.07 in Ha								
METHOD OF INSTALLATION:		Pressure:	30.07 in. Hg							
N/A										
TUBING TYPE/DIAMETER:		TYPE OF MATERI	AL ABOVE SEAL:							
N/A		N/A								
IMPLANT SCREEN TYPE/LENGTH/DIAMETER:		SEAL MATERIAL	SEAL MATERIAL (Bentonite, Beeswax, Modeling Clay, etc.):							
N/A		N/A								
BOREHOLE DIAMETER: N/A		N/A	TERIAL (Sand or Glass	Beads):						
PURGE VOLUME (L):		IMPLANT	/PROBE DETAILS	DEPTH	NOTES					
PURGE FLOW RATE (ML/MIN):		(SEAL	., FILTER, ETC.)	(FEET FROM						
PID AFTER PURGE (PPM): HELIUM TESTS	N/A	SURFACE	SURFACE	SURFACE)						
HELIUM TEST IN BUCKET(%):										
HELIUM TEST IN TUBE (PPM):										
SORBENT TUBE			N/A							
SAMPLE START DATE/TIME - SORBENT TUBE:	11:47									
SAMPLE STOP DATE/TIME - SORBENT TUBE:	13:47									
TOTAL SAMPLE TIME - SORBENT TUBE (MIN):	120									
FLOW RATE - SORBENT TUBE (L/MIN):	0.20152									
VOLUME OF SAMPLE - SORBENT TUBE (LITERS):	24.1872									
SUMMA CANISTER										
SAMPLE START DATE/TIME - SUMMA:	11:47									
SAMPLE STOP DATE/TIME - SUMMA:	13:47 120									
TOTAL SAMPLE TIME - SUMMA (MIN):	0.05									
FLOW RATE - SUMMA (L/MIN): VOLUME OF SAMPLE - SUMMA (LITERS):	6									
PID AFTER SAMPLE (PPM):	N/A	 								
SAMPLE MOISTURE CONTENT:	N/A									
CAN SERIAL NUMBER:	1942									
REGULATOR SERIAL NUMBER:	426									
CAN START VACUUM PRESS. (" HG):	-29.95									
CAN STOP VACUUM PRESS. (" HG):	-6.28									
SAMPLE LOCATION SKET	СН			NOTES						
See Sample Location Map Langan Engineering, Envi		nd Landscape Arc	chitecture, D.P.C							
Langan Engineering, Envi 21 Penn Plaza, 360 West										

Sample Number: SV12

PROJECT:	PROJECT NO.:	
250 Water Street	170381202	
LOCATION:	SURFACE ELEVATION AND DATUM:	
New York, New York	N/A	
DRILLING FIRM OR LANGAN INSTALLER:	INSTALLATION DATE STARTED:	DATE FINISHED:
AARCO Environmental Services, Corp.	7/9/2020	7/9/2020
INSTALLATION FOREMAN:	SAMPLE DATE STARTED:	DATE FINISHED:
Nick Turro	7/9/2020	7/9/2020
INSTALLATION EQUIPMENT:	TYPE OF SAMPLING DEVICE:	
Geoprobe 7720 DT	6-Liter Summa Canister; Sorbent Tube	
INSPECTOR:	SAMPLER:	
Thomas Schiefer	Thomas Schiefer	
POTENTIAL SAMPLE INTERFERENCES:	WEATHER CONDITIONS (PRECIP., TEMP., PRESS., WIND SPEED AND	D DIR.):
N/A	Temp: 76-80 °F	
	Wind: SE 0-10 mph	
	Precipitation: N/A	
	Pressure: 30.07 in. Hg	

METHOD OF INSTALLATION:

A expendable point was advanced to 8 feet below grade surface (bgs) with a Geoprobe 7720 DT and a 2-inch soil vapor pore was installed. The annulus was backfilled with one foot of No. 2 sand and sealed to surface with hydrated bentonite. Initial mercury vapor concentrations above background levels were not observed. Sample consisted of a 6L Summa canister fitted with an 2-hour flow control valve and a sorbent tube connected to a SKC air sampling pump with a flow rate of 0.22808 L/min. The flow controller was zeroed and valve opened to initiate the 2-hour sample collection. The summa canister sample and flow controller were checked each hour during sampling to ensure proper operation. Sorbent tube sample collection took place over a period of 2 hours with a total volume of 24.378 L passing through the tube.

3/16-inch ID, 1/4-inch OD Teflon-Lined Polyethylene IMPLANT SCREEN TYPE/LENGTH/DIAMETER: 2-Inch Polyethylene Probe BOREHOLE DIAMETER: 2-inch PURGE VOLUME (L): PURGE FLOW RATE (ML/MIN): PID AFTER PURGE (PPM): HELIUM TEST IN BUCKET(%): HELIUM TEST IN TUBE (PPM): SORBENT TUBE SAMPLE START DATE/TIME - SORBENT TUBE:	0.80 200 0.0 Pre-sampling 12.9% 0.0%	Bentonite FILTER PACK M No. 2 Sand IMPLAN	IL (Bentonite, Beeswax, Mo IATERIAL (Sand or Glass Bo IT/PROBE DETAILS AL, FILTER, ETC.) SURFACE Top of Seal		NOTES
2-Inch Polyethylene Probe BOREHOLE DIAMETER: 2-inch PURGE VOLUME (L): PURGE FLOW RATE (ML/MIN): PURGE FLOW RATE (ME/MIN): HELIUM TESTS HELIUM TEST IN BUCKET(%): HELIUM TEST IN TUBE (PPM): SORBENT TUBE SAMPLE START DATE/TIME - SORBENT TUBE:	200 0.0 Pre-sampling 12.9% 0.0%	Bentonite FILTER PACK M No. 2 Sand IMPLAN (SEA	IATERIAL (Sand or Glass Be IT/PROBE DETAILS AL, FILTER, ETC.) SURFACE	DEPTH (FEET FROM SURFACE)	NOTES
BOREHOLE DIAMETER: 2-inch PURGE VOLUME (L): PURGE FLOW RATE (ML/MIN): PID AFTER PURGE (PPM): HELIUM TESTS HELIUM TEST IN BUCKET(%): HELIUM TEST IN TUBE (PPM): SORBENT TUBE SAMPLE START DATE/TIME - SORBENT TUBE:	200 0.0 Pre-sampling 12.9% 0.0%	FILTER PACK M No. 2 Sand IMPLAN	IT/PROBE DETAILS AL, FILTER, ETC.) SURFACE	DEPTH (FEET FROM SURFACE)	NOTES
2-inch PURGE VOLUME (L): PURGE FLOW RATE (ML/MIN): PUB AFTER PURGE (PPM): HELIUM TESTS HELIUM TEST IN BUCKET(%): HELIUM TEST IN TUBE (PPM): SORBENT TUBE SAMPLE START DATE/TIME - SORBENT TUBE:	200 0.0 Pre-sampling 12.9% 0.0%	No. 2 Sand IMPLAN (SEA	IT/PROBE DETAILS AL, FILTER, ETC.) SURFACE	DEPTH (FEET FROM SURFACE)	NOTES
PURGE VOLUME (L): PURGE FLOW RATE (ML/MIN): PURGE FLOW RATE (ML/MIN): PID AFTER PURGE (PPM): HELIUM TESTS HELIUM TEST IN BUCKET(%): HELIUM TEST IN TUBE (PPM): SORBENT TUBE SAMPLE START DATE/TIME - SORBENT TUBE:	200 0.0 Pre-sampling 12.9% 0.0%	IMPLAN (SEA	AL, FILTER, ETC.) SURFACE	(FEET FROM SURFACE)	NOTES
PURGE FLOW RATE (ML/MIN): PID AFTER PURGE (PPM): HELIUM TESTS HELIUM TEST IN BUCKET(%): HELIUM TEST IN TUBE (PPM): SORBENT TUBE SAMPLE START DATE/TIME - SORBENT TUBE:	200 0.0 Pre-sampling 12.9% 0.0%	(SEA	AL, FILTER, ETC.) SURFACE	(FEET FROM SURFACE)	NOTES
PID AFTER PURGE (PPM): HELIUM TESTS HELIUM TEST IN BUCKET(%): HELIUM TEST IN TUBE (PPM): SORBENT TUBE SAMPLE START DATE/TIME - SORBENT TUBE: SAMPLE STOP DATE/TIME - SORBENT TUBE:	0.0 Pre-sampling 12.9% 0.0%		SURFACE	SURFACE)	
HELIUM TESTS HELIUM TEST IN BUCKET(%): HELIUM TEST IN TUBE (PPM): SORBENT TUBE SAMPLE START DATE/TIME - SORBENT TUBE: SAMPLE STOP DATE/TIME - SORBENT TUBE:	Pre-sampling 12.9% 0.0%	SURFACE			
HELIUM TEST IN BUCKET(%): HELIUM TEST IN TUBE (PPM): SORBENT TUBE SAMPLE START DATE/TIME - SORBENT TUBE: SAMPLE STOP DATE/TIME - SORBENT TUBE:	12.9% 0.0%		Top of Seal	U	
SORBENT TUBE SAMPLE START DATE/TIME - SORBENT TUBE: SAMPLE STOP DATE/TIME - SORBENT TUBE:	0.0%			1	
SORBENT TUBE SAMPLE START DATE/TIME - SORBENT TUBE: SAMPLE STOP DATE/TIME - SORBENT TUBE:					
SAMPLE START DATE/TIME - SORBENT TUBE: SAMPLE STOP DATE/TIME - SORBENT TUBE:	13.52				
SAMPLE STOP DATE/TIME - SORBENT TUBE:	13.52				
TOTAL CAMPLE TIME CORPORE TURE (MIN)	17:52				
TOTAL SAMPLE TIME - SORBENT TUBE (MIN):	120				
FLOW RATE - SORBENT TUBE (L/MIN):	0.22808				
VOLUME OF SAMPLE - SORBENT TUBE (LITERS):	27.366				
SUMMA CANISTER					
SAMPLE START DATE/TIME - SUMMA:	13:52				
SAMPLE STOP DATE/TIME - SUMMA:	17:52		Top of Pack	7	
TOTAL SAMPLE TIME - SUMMA (MIN):	120				
FLOW RATE - SUMMA (L/MIN):	0.05				
VOLUME OF SAMPLE - SUMMA (LITERS):	6				
PID AFTER SAMPLE (PPM):	0.0				
SAMPLE MOISTURE CONTENT:	N/A				
CAN SERIAL NUMBER:	1942				
REGULATOR SERIAL NUMBER:	426				
CAN START VACUUM PRESS. (" HG):	-30.06	 \	₹	8	
CAN START VACOUM PRESS. (" HG):	-3.25		 		
SAMPLE LOCATION SKETCH	5.20			NOTES	

Sample Number: SV14

PROJECT:	PROJECT NO.:	
250 Water Street	170381202	
LOCATION:	SURFACE ELEVATION AND DATUM:	
New York, New York	N/A	
DRILLING FIRM OR LANGAN INSTALLER:	INSTALLATION DATE STARTED:	DATE FINISHED:
AARCO Environmental Services, Corp.	7/9/2020	7/9/2020
INSTALLATION FOREMAN:	SAMPLE DATE STARTED:	DATE FINISHED:
Nick Turro	7/9/2020	7/9/2020
INSTALLATION EQUIPMENT:	TYPE OF SAMPLING DEVICE:	
Geoprobe 7720 DT	6-Liter Summa Canister; Sorbent Tube	
INSPECTOR:	SAMPLER:	
Thomas Schiefer	Thomas Schiefer	
POTENTIAL SAMPLE INTERFERENCES:	WEATHER CONDITIONS (PRECIP., TEMP., PRESS., WIND SPEED AND	DIR.):
N/A	Temp: 76-80 °F	
	Wind: SE 0-10 mph	
	Precipitation: N/A	
	Pressure: 30.07 in. Hg	

METHOD OF INSTALLATION:

A expendable point was advanced to 7 feet below grade surface (bgs) with a Geoprobe 7720 DT and a 2-inch soil vapor pore was installed. The annulus was backfilled with one foot of No. 2 sand and sealed to surface with hydrated bentonite. A maxiumum initial mercury vapor concentration of 0.55 micrograms per cubic meter (µg/m3) was observed. Sample consisted of a 6L Summa canister fitted with an 2-hour flow control valve and a sorbent tube connected to a SKC air sampling pump with a flow rate of 0.17217L/min. The flow controller was zeroed and valve opened to initiate the 2-hour sample collection. The summa cannister sample and flow controller were checked each hour during sampling to ensure proper operation. Sorbent tube sample collection took place over a period of 2 hours with a total volume of 20.6604 L passing through the tube.

TUBING TYPE/DIAMETER: B/16-inch ID, 1/4-inch OD Teflon-Lined Polyethy	lene Tubing	TYPE OF MATE	ERIAL ABOVE SEAL:		
MPLANT SCREEN TYPE/LENGTH/DIAMETER:		SEAL MATERIA	AL (Bentonite, Beeswax, Mo	deling Clay, etc.):	
2-Inch Polyethylene Probe		Bentonite			
SOREHOLE DIAMETER:			/IATERIAL (Sand or Glass Be	ads):	
2-inch		No. 2 Sand	<u> </u>		
PURGE VOLUME (L):	0.80	IMPLAI	NT/PROBE DETAILS	DEPTH	NOTES
PURGE FLOW RATE (ML/MIN):	200	(SE	AL, FILTER, ETC.)	(FEET FROM	
PID AFTER PURGE (PPM):	0.0	SURFACE	SURFACE	SURFACE)	
IELIUM TESTS	Pre-sampling		Top of Seal	0	
HELIUM TEST IN BUCKET(%):	14.2%				
IELIUM TEST IN TUBE (PPM):	0.0%				
SORBENT TUBE					
SAMPLE START DATE/TIME - SORBENT TUBE:	13:03				
SAMPLE STOP DATE/TIME - SORBENT TUBE:	15:03				
OTAL SAMPLE TIME - SORBENT TUBE (MIN):	120				
LOW RATE - SORBENT TUBE (L/MIN):	0.17217				
OLUME OF SAMPLE - SORBENT TUBE (LITERS):	20.660				
SUMMA CANISTER					
SAMPLE START DATE/TIME - SUMMA:	15:20				
SAMPLE STOP DATE/TIME - SUMMA:	17:20		Top of Pack	6	
OTAL SAMPLE TIME - SUMMA (MIN):	120				
ELOW RATE - SUMMA (L/MIN):	0.05				
/OLUME OF SAMPLE - SUMMA (LITERS):	6				
PID AFTER SAMPLE (PPM):	0.0				
SAMPLE MOISTURE CONTENT:	N/A				
CAN SERIAL NUMBER:	638				
REGULATOR SERIAL NUMBER:	1453				
CAN START VACUUM PRESS. (" HG):	-30.28		Y	7	
CAN STOP VACUUM PRESS. (" HG):	-2.48		''		
SAMPLE LOCATION SKETO	`H			NOTES	

Sample Number: SV17

PROJECT:	PROJECT NO.:					
250 Water Street	170381202					
LOCATION:	SURFACE ELEVATION	N AND DATUM:				
New York, New York	N/A					
DRILLING FIRM OR LANGAN INSTALLER:	INSTALLATION DATE	STARTED:	DATE FINISHED			
AARCO Environmental Services, Corp.	7/9/2	7/9/2020				
INSTALLATION FOREMAN:	SAMPLE DATE STAR	SAMPLE DATE STARTED:				
Nick Turro	7/9/2	7/9/2020				
INSTALLATION EQUIPMENT:	TYPE OF SAMPLING	TYPE OF SAMPLING DEVICE:				
Geoprobe 7720 DT	6-Liter Summa (6-Liter Summa Canister; Sorbent Tube				
INSPECTOR:	SAMPLER:	SAMPLER:				
Thomas Schiefer	Thomas Schiefe	Thomas Schiefer				
POTENTIAL SAMPLE INTERFERENCES:	WEATHER CONDITIO	NS (PRECIP., TEMP., PRESS., WIND SPEED AN	D DIR.):			
N/A	Temp:	76-80 °F				
	Wind:	SE 0-10 mph				
	Precipitation:	N/A				
	Pressure:	30.07 in. Hg				

A expendable point was advanced to 7 feet below grade surface (bgs) with a Geoprobe 7720 DT and a 2-inch soil vapor pore was installed. The annulus was backfilled with one foot of No. 2 sand and sealed to surface with hydrated bentonite. A maximum initial mercury vapor concentration of 0.17 micrograms per cubic meter (µg/m3) was observed. Sample consisted of a 6L Summa canister fitted with an 2-hour flow control valve and a sorbent tube connected to a SKC air sampling pump with a flow rate of 0.19415 L/min. The flow controller was zeroed and valve opened to initiate the 2-hour sample collection. The summa cannister sample and flow controller were checked each hour during sampling to ensure proper operation. Sorbent tube sample collection took place over a period of 2 hours and 2 minutes with a total volume of 23.248 L passing through the tube.

Bentonite FILTER PACK No. 2 San	MATERIAL	L (Sand or Glass	DEPTH (FEET FROM SURFACE)	NOTES
Bentonite FILTER PACK No. 2 San IMPLA	MATERIAL d NT/PROBE	L (Sand or Glass E DETAILS , ETC.) SURFACE	Beads): DEPTH (FEET FROM SURFACE)	NOTES
FILTER PACK No. 2 San IMPLA	d NT/PROBE	E DETAILS , ETC.) SURFACE	DEPTH (FEET FROM SURFACE)	NOTES
No. 2 San	d NT/PROBE	E DETAILS , ETC.) SURFACE	DEPTH (FEET FROM SURFACE)	NOTES
IMPLA (S	NT/PROBE	, ETC.) SURFACE	(FEET FROM SURFACE)	NOTES
(S		, ETC.) SURFACE	(FEET FROM SURFACE)	NOTES
		SURFACE	SURFACE)	
SAN POL				
		rop or cour		
		Top of Pack	6	
1	1 1		7	
		_		
		N	NOTES	
	Sorbent tube a	Sorbent tube and summa		NOTES Sorbent tube and summa cannister samples for DUP01_070920

Sample Number: SV19

PROJECT:	PROJECT NO.:	
250 Water Street	170381202	
LOCATION:	SURFACE ELEVATION AND DATUM:	
New York, New York	N/A	
DRILLING FIRM OR LANGAN INSTALLER:	INSTALLATION DATE STARTED:	DATE FINISHED:
AARCO Environmental Services, Corp.	7/8/2020	7/8/2020
INSTALLATION FOREMAN:	SAMPLE DATE STARTED:	DATE FINISHED:
Nick Turro	7/9/2020	7/9/2020
INSTALLATION EQUIPMENT:	TYPE OF SAMPLING DEVICE:	
Geoprobe 7720 DT	6-Liter Summa Canister; Sorbent Tube	
INSPECTOR:	SAMPLER:	
Thomas Schiefer	Thomas Schiefer	
POTENTIAL SAMPLE INTERFERENCES:	WEATHER CONDITIONS (PRECIP., TEMP., PRESS., WIND SPEED AND	DIR.):
N/A	Temp: 76-80 °F	
	Wind: SE 0-10 mph	
	Precipitation: N/A	
	Pressure: 30.07 in. Hg	

METHOD OF INSTALLATION:

A expendable point was advanced to 7 feet below grade surface (bgs) with a Geoprobe 7720 DT and a 2-inch soil vapor pore was installed. The annulus was backfilled with one foot of No. 2 sand and sealed to surface with hydrated bentonite. Initial mercury vapor concentrations above background levels were not observed. Sample consisted of a 6L Summa canister fitted with an 2-hour flow control valve and a sorbent tube connected to a SKC air sampling pump with a flow rate of 0.18900 L/min. The flow controller was zeroed and valve opened to initiate the 2-hour sample collection. The summa cannister sample and flow controller were checked each hour during sampling to ensure proper operation. Sorbent tube sample collection took place over a period of 2 hours and 4 minutes with a total volume of 23.426 L passing through the tube.

3/16-inch ID, 1/4-inch OD Teflon-Lined Polyethyle IMPLANT SCREEN TYPE/LENGTH/DIAMETER: 2-Inch Polyethylene Probe BOREHOLE DIAMETER: 2-inch PURGE VOLUME (L): PURGE FLOW RATE (ML/MIN): PID AFTER PURGE (PPM): HELIUM TESTS HELIUM TEST IN BUCKET(%): HELIUM TEST IN TUBE (PPM):	0.80 200 0.0 Pre-sampling	Bentonite FILTER PACK M No. 2 Sand IMPLAN	NT/PROBE DETAILS AL, FILTER, ETC.)		NOTES
2-Inch Polyethylene Probe BOREHOLE DIAMETER: 2-inch PURGE VOLUME (L): PURGE FLOW RATE (ML/MIN): PID AFTER PURGE (PPM): HELIUM TESTS HELIUM TEST IN BUCKET(%):	200 0.0 Pre-sampling	Bentonite FILTER PACK M No. 2 Sand IMPLAN (SEA	NT/PROBE DETAILS	eads):	NOTES
BOREHOLE DIAMETER: 2-inch PURGE VOLUME (L): PURGE FLOW RATE (ML/MIN): PID AFTER PURGE (PPM): HELIUM TESTS HELIUM TEST IN BUCKET(%):	200 0.0 Pre-sampling	FILTER PACK M No. 2 Sand IMPLAN	NT/PROBE DETAILS AL, FILTER, ETC.)	DEPTH	NOTES
2-inch PURGE VOLUME (L): PURGE FLOW RATE (ML/MIN): PID AFTER PURGE (PPM): HELIUM TESTS HELIUM TEST IN BUCKET(%):	200 0.0 Pre-sampling	No. 2 Sand IMPLAN (SEA	NT/PROBE DETAILS AL, FILTER, ETC.)	DEPTH	NOTES
PURGE VOLUME (L): PURGE FLOW RATE (ML/MIN): PID AFTER PURGE (PPM): HELIUM TESTS HELIUM TEST IN BUCKET(%):	200 0.0 Pre-sampling	IMPLAN (SEA	NT/PROBE DETAILS AL, FILTER, ETC.)		NOTES
PURGE FLOW RATE (ML/MIN): PID AFTER PURGE (PPM): HELIUM TESTS HELIUM TEST IN BUCKET(%):	200 0.0 Pre-sampling	(SEA	AL, FILTER, ETC.)		NOTES
PID AFTER PURGE (PPM): HELIUM TESTS HELIUM TEST IN BUCKET(%):	0.0 Pre-sampling			(FEET FROM	
HELIUM TESTS HELIUM TEST IN BUCKET(%):	Pre-sampling	SURFACE		i l	
HELIUM TEST IN BUCKET(%):			SURFACE	SURFACE)	
	12.2%	─ 	Top of Seal	0	
TELIUWI TEST IN TUDE (FFIVI):	0.0%	─ │ 			
000000000000000000000000000000000000000	U.U 70	─ ■			
SORBENT TUBE	16.01				
SAMPLE START DATE/TIME - SORBENT TUBE:	16:21				
SAMPLE STOP DATE/TIME - SORBENT TUBE:	18:24				
TOTAL SAMPLE TIME - SORBENT TUBE (MIN):	124	 ■			
FLOW RATE - SORBENT TUBE (L/MIN):	0.189				
VOLUME OF SAMPLE - SORBENT TUBE (LITERS):	23.436				
SUMMA CANISTER		 			
SAMPLE START DATE/TIME - SUMMA:	16:20				
SAMPLE STOP DATE/TIME - SUMMA:	18:21		Top of Pack	6	
TOTAL SAMPLE TIME - SUMMA (MIN):	120				
FLOW RATE - SUMMA (L/MIN):	0.05				
VOLUME OF SAMPLE - SUMMA (LITERS):	6				
PID AFTER SAMPLE (PPM):	0.0				
SAMPLE MOISTURE CONTENT:	N/A				
CAN SERIAL NUMBER:	2637				
REGULATOR SERIAL NUMBER:	1078				
CAN START VACUUM PRESS. (" HG):	-30.15][7	
CAN STOP VACUUM PRESS. (" HG):	-7.74		-		
SAMPLE LOCATION SKETCH	1			NOTES	

Page 5 of 18

SOIL VAPOR SAMPLING LOG SHEET Sample Number: SV21

PROJECT:		PROJECT NO.:				
250 Water Street		170381202				
LOCATION:		SURFACE ELEVAT	ION AND DATIIM:			
New York, New York		N/A				
DRILLING FIRM OR LANGAN INSTALLER:		INSTALLATION DA	ATE STARTED:		DATE FINISHE	
AARCO Environmental Services, Corp.			/2020		7/8/202	
INSTALLATION FOREMAN:		SAMPLE DATE ST			DATE FINISHE	
Nick Turro			/2020		7/9/202	
INSTALLATION EQUIPMENT:		TYPE OF SAMPLIN				
Geoprobe 7720 DT		6-Liter Summ	a Canister; Sorb	ent Tube		
INSPECTOR:		SAMPLER:				
Thomas Schiefer		Thomas Schie	efer			
POTENTIAL SAMPLE INTERFERENCES:		WEATHER CONDIT	TIONS (PRECIP., TEMP.,	PRESS., WIND SI	PEED AND DIR.):	
N/A		Temp:	76-80 °F			
		Wind:	SE 0-10 m	ph		
		Precipitation:	N/A			
		Pressure:	30.07 in. H	lg		
METHOD OF INSTALLATION:						
A expendable point was advanced to 7 feet below installed. The annulus was backfilled with one for concentrations above background levels were not control valve and a sorbent tube connected to a series and valve opened to initiate the 2-hour sampling to ensure proper operation.	oot of No. 2 sand and ot observed. Sample SKC air sampling pum mple collection. The	sealed to surface consisted of a 6 ap with a flow resumma cannist	ce with hydrated L Summa canis ate of 0.16265 L er sample and fl	I bentonite. ter fitted wi /min. The f ow controll	Initial mercury vapor ith an 2-hour flow flow controller was er were checked each	
of 19.518 L passing through the tube.		I				
TUBING TYPE/DIAMETER: 3/16-inch ID, 1/4-inch OD Teflon-Lined Polyethyle	ane Tuhing	TYPE OF MATERIAL ABOVE SEAL: N/A				
MPLANT SCREEN TYPE/LENGTH/DIAMETER:		SEAL MATERIAL (Bentonite, Beeswax, Modeling Clay, etc.):				
2-Inch Polyethylene Probe		Bentonite	bentonite, beeswax,	viodeling Glay,	etc.).	
BOREHOLE DIAMETER:			ERIAL (Sand or Glass	Reade).		
2-inch		No. 2 Sand	LINAL (Dana of Glass	Deads).		
PURGE VOLUME (L):	0.80	+	ROBE DETAILS	DEPTH	NOTES	
PURGE FLOW RATE (ML/MIN):	200	-	LTER, ETC.)	(FEET FROM		
PID AFTER PURGE (PPM):	0.0	SURFACE	SURFACE	SURFACE)		
HELIUM TESTS	Pre-sampling		Top of Seal	0		
HELIUM TEST IN BUCKET(%):	15.2%		100			
HELIUM TEST IN TUBE (PPM):	0.0%					
SORBENT TUBE						
SAMPLE START DATE/TIME - SORBENT TUBE:	10:19					
SAMPLE STOP DATE/TIME - SORBENT TUBE:	12:19					
TOTAL SAMPLE TIME - SORBENT TUBE (MIN):	120					
FLOW RATE - SORBENT TUBE (L/MIN):	0.16265					
VOLUME OF SAMPLE - SORBENT TUBE (LITERS):	19.518	-				
	13.310	_				
SUMMA CANISTER	10.00	- 🔳				
SAMPLE START DATE/TIME - SUMMA:	10:29	- ■				
SAMPLE STOP DATE/TIME - SUMMA:	12:29	_	Top of Pack	6		
TOTAL SAMPLE TIME - SUMMA (MIN):	120	4				
FLOW RATE - SUMMA (L/MIN):	0.05	4				
VOLUME OF SAMPLE - SUMMA (LITERS):	6	_				
PID AFTER SAMPLE (PPM):	0.0	_				
SAMPLE MOISTURE CONTENT:	N/A	_				
CAN SERIAL NUMBER:	1554					
REGULATOR SERIAL NUMBER:	938]],				
CAN START VACUUM PRESS. (" HG):	-30.48	1 '	M	7		
CAN STOP VACUUM PRESS. (" HG):	-5.45	1 -	<u>-</u>			
SAMPLE LOCATION SKETCH			Ŋ	OTES	•	
See Sample Location Map			r	IOTES		
Langan Engineering, Environmenta 21 Penn Plaza, 360 West 31st Str		•		,		

Sample Number: SV23

PROJECT:	PROJECT NO.:				
250 Water Street	170381202				
LOCATION:	SURFACE ELEVATIO	N AND DATUM:			
New York, New York	N/A				
DRILLING FIRM OR LANGAN INSTALLER:	INSTALLATION DAT	E STARTED: DATE FINISH			
AARCO Environmental Services, Corp.	7/9/2	020 7/9/203			
INSTALLATION FOREMAN:	SAMPLE DATE STAR	TED: DATE FINISH			
Nick Turro	7/9/2	020 7/9/203			
INSTALLATION EQUIPMENT:	TYPE OF SAMPLING	TYPE OF SAMPLING DEVICE:			
Geoprobe 7720 DT	6-Liter Summa	6-Liter Summa Canister; Sorbent Tube			
INSPECTOR:	SAMPLER:	SAMPLER:			
Thomas Schiefer	Thomas Schiefe	er			
POTENTIAL SAMPLE INTERFERENCES:	WEATHER CONDITION	ONS (PRECIP., TEMP., PRESS., WIND SPEED AND DIR.):			
N/A	Temp:	76-80 °F			
	Wind:	SE 0-10 mph			
	Precipitation:	N/A			
	Pressure:	30.07 in. Hg			

METHOD OF INSTALLATION:

A expendable point was advanced to 7 feet below grade surface (bgs) with a Geoprobe 7720 DT and a 2-inch soil vapor pore was installed. The annulus was backfilled with one foot of No. 2 sand and sealed to surface with hydrated bentonite. A maxiumum initial mercury vapor concentration of 0.23 micrograms per cubic meter (µg/m3) was observed. Sample consisted of a 6L Summa canister fitted with an 2-hour flow control valve and a sorbent tube connected to a SKC air sampling pump with a flow rate of 0.21170 L/min. The flow controller was zeroed and valve opened to initiate the 2-hour sample collection. The summa cannister sample and flow controller were checked each hour during sampling to ensure proper operation. Sorbent tube sample collection took place over a period of 2 hours with a total volume of 25.404 L passing through the tube.

TUBING TYPE/DIAMETER:		TYPE OF MATERIAL ABOVE SEAL:				
3/16-inch ID, 1/4-inch OD Teflon-Lined Polyethyle	ene Tubing	N/A				
MPLANT SCREEN TYPE/LENGTH/DIAMETER:			Bentonite, Beeswax, N	/lodeling Clay, etc.):		
2-Inch Polyethylene Probe		Bentonite				
BOREHOLE DIAMETER:		FILTER PACK MATERIAL (Sand or Glass Beads): No. 2 Sand				
2-inch	0.80					
PURGE VOLUME (L):			ROBE DETAILS	DEPTH	NOTES	
PURGE FLOW RATE (ML/MIN):	200		ILTER, ETC.)	(FEET FROM		
PID AFTER PURGE (PPM):	0.0	SURFACE	SURFACE	SURFACE)		
HELIUM TESTS	Pre-sampling 10.8%		Top of Seal	0		
HELIUM TEST IN BUCKET(%):	-					
HELIUM TEST IN TUBE (PPM):	0.0%					
SORBENT TUBE	45.40			1		
SAMPLE START DATE/TIME - SORBENT TUBE:	15:48			1		
SAMPLE STOP DATE/TIME - SORBENT TUBE:	17:48					
TOTAL SAMPLE TIME - SORBENT TUBE (MIN):	120					
FLOW RATE - SORBENT TUBE (L/MIN):	0.2117					
VOLUME OF SAMPLE - SORBENT TUBE (LITERS):	25.404			1		
SUMMA CANISTER						
SAMPLE START DATE/TIME - SUMMA:	15:48					
SAMPLE STOP DATE/TIME - SUMMA:	17:48		Top of Pack	6		
TOTAL SAMPLE TIME - SUMMA (MIN):	120					
FLOW RATE - SUMMA (L/MIN):	0.05					
VOLUME OF SAMPLE - SUMMA (LITERS):	6					
PID AFTER SAMPLE (PPM):	0.0					
SAMPLE MOISTURE CONTENT:	N/A					
CAN SERIAL NUMBER:	2886					
REGULATOR SERIAL NUMBER:	1924					
CAN START VACUUM PRESS. (" HG):	-30.28			7		
CAN STOP VACUUM PRESS. (" HG):	-9.44		~	1		
SAMPLE LOCATION SKETCH	****		N	OTES		

Sample Number: SV24

PROJECT:		PROJECT I	VO :			
250 Water Street		170381				
LOCATION:		_		AND DATUM:		
New York, New York		N/A	ELEVATION	AND DATON.		
DRILLING FIRM OR LANGAN INSTALLER:			TION DATE S	TARTED:		DATE FINISHED
AARCO Environmental Services, Corp.		INSTALLA	7/8/202			7/8/202
INSTALLATION FOREMAN:		SAMPLED	ATE STARTE			DATE FINISHEI
Nick Turro		SAIVII LL D	7/9/202			7/9/202
INSTALLATION EQUIPMENT:		TYPE OF S	AMPLING DE			7,0,202
Geoprobe 7720 DT				anister; Sorb	ent Tube	
INSPECTOR:		SAMPLER:		31.1101017 001.01		
Thomas Schiefer		_	Schiefer			
POTENTIAL SAMPLE INTERFERENCES:				S (PRECIP., TEMP.,	PRESS., WIND SPEE	D AND DIR.):
N/A		Temp:		76-80 °F		
. 4		Wind:		SE 0-10 mg	oh	
		Precipita	ation:	N/A		
		Pressur	e:	30.07 in. H	g	
METHOD OF INSTALLATION:				•		
A expendable point was advanced to 7 feet belowinstalled. The annulus was backfilled with one for concentrations above background levels were not control valve and a sorbent tube connected to a zeroed and valve opened to initiate the 2-hour solution to during sampling to ensure proper operation	oot of No. 2 sand an ot observed. Sampl SKC air sampling pu ample collection. Th	d sealed to e consisted imp with a e summa	surface of of a 6L S flow rate cannister	with hydrate Summa canis of 0.19632 L sample and f	d bentonite. ster fitted wit ./min. The fl flow controlle	Initial mercury vapor th an 2-hour flow ow controller was er were checked each
of 23.558 L passing through the tube.						
TUBING TYPE/DIAMETER:		TYPE OF MATERIAL ABOVE SEAL:				
3/16-inch ID, 1/4-inch OD Teflon-Lined Polyethylene Tubing		N/A				
IMPLANT SCREEN TYPE/LENGTH/DIAMETER:				onite, Beeswax, M	Modeling Clay, et	c.):
2-Inch Polyethylene Probe		Bentoni				
BOREHOLE DIAMETER:				L (Sand or Glass	Beads):	
2-inch	0.00	No. 2 Sa				
PURGE VOLUME (L):	0.80	IMP	LANT/PROB	_	DEPTH	NOTES
PURGE FLOW RATE (ML/MIN):	200		(SEAL, FILTER		(FEET FROM	
PID AFTER PURGE (PPM):	0.0	SURFACE		SURFACE	SURFACE)	
HELIUM TESTS	Pre-sampling			Top of Seal	0	
HELIUM TEST IN BUCKET(%):	14.6%					
HELIUM TEST IN TUBE (PPM):	0.0%	_				
SORBENT TUBE	10.55					
SAMPLE START DATE/TIME - SORBENT TUBE:	10:57					
SAMPLE STOP DATE/TIME - SORBENT TUBE:	12:57					
TOTAL SAMPLE TIME - SORBENT TUBE (MIN):	120					
FLOW RATE - SORBENT TUBE (L/MIN):	0.19632					
VOLUME OF SAMPLE - SORBENT TUBE (LITERS):	23.558					
SUMMA CANISTER						
SAMPLE START DATE/TIME - SUMMA:	11:01					
SAMPLE STOP DATE/TIME - SUMMA:	13:01			Top of Pack	6	
TOTAL SAMPLE TIME - SUMMA (MIN):	120					
FLOW RATE - SUMMA (L/MIN):	0.05					
VOLUME OF SAMPLE - SUMMA (LITERS):	6					
PID AFTER SAMPLE (PPM):	0.0	-				
	N/A	\dashv				
SAMPLE MOISTURE CONTENT:		-				
CAN SERIAL NUMBER:	905					
REGULATOR SERIAL NUMBER:	1532	_			_	
CAN START VACUUM PRESS. (" HG):	-30.16	_		_	7	
CAN STOP VACUUM PRESS. (" HG):	-7.47			_		
SAMPLE LOCATION SKETCH				<u>N</u>	IOTES	
See Sample Location Map						

Sample Number: SV28

PROJECT:	PROJECT NO.:			
250 Water Street	170381202	170381202		
LOCATION:	SURFACE ELEVATION	N AND DATUM:		
New York, New York	N/A			
DRILLING FIRM OR LANGAN INSTALLER:	INSTALLATION DATE	STARTED:	DATE FINISHED:	
AARCO Environmental Services, Corp.	7/9/2020		7/9/2020	
INSTALLATION FOREMAN:	SAMPLE DATE STARTED:		DATE FINISHED:	
Nick Turro	7/9/2020		7/9/2020	
INSTALLATION EQUIPMENT:	TYPE OF SAMPLING	DEVICE:		
Geoprobe 7720 DT	6-Liter Summa	Canister; Sorbent Tube		
INSPECTOR:	SAMPLER:			
Thomas Schiefer	Thomas Schiefe	ır		
POTENTIAL SAMPLE INTERFERENCES:	WEATHER CONDITIO	NS (PRECIP., TEMP., PRESS., WIND SPEED AND DIR.):		
N/A	Temp:	76-80 °F		
	Wind:	SE 0-10 mph		
	Precipitation:	N/A		
	Pressure:	30.07 in. Hg		

METHOD OF INSTALLATION:

A expendable point was advanced to 7 feet below grade surface (bgs) with a Geoprobe 7720 DT and a 2-inch soil vapor pore was installed. The annulus was backfilled with one foot of No. 2 sand and sealed to surface with hydrated bentonite. A maxiumum initial mercury vapor concentration of 0.16 micrograms per cubic meter (µg/m3) was observed. Sample consisted of a 6L Summa canister fitted with an 2-hour flow control valve and a sorbent tube connected to a SKC air sampling pump with a flow rate of 0.18567 L/min. The flow controller was zeroed and valve opened to initiate the 2-hour sample collection. The summa cannister sample and flow controller were checked each hour during sampling to ensure proper operation. Sorbent tube sample collection took place over a period of 2 hours and 1 minute with a total

,	UBING TYPE/DIAMETER: I/16-inch ID, 1/4-inch OD Teflon-Lined Polyethylene Tubing		TYPE OF MATERIAL ABOVE SEAL:				
PLANT SCREEN TYPE/LENGTH/DIAMETER:		N/A SEAL MATERIAL (Portorito Possurar Medeling Clay etc.):					
		SEAL MATERIAL (Bentonite, Beeswax, Modeling Clay, etc.):					
2-Inch Polyethylene Probe		Bentonite					
BOREHOLE DIAMETER: 2-inch		FILTER PACK MATERIAL (Sand or Glass Beads): No. 2 Sand					
PURGE VOLUME (L):	0.80		PROBE DETAILS	DEPTH	NOTES		
PURGE FLOW RATE (ML/MIN):	200		FILTER, ETC.)	(FEET FROM	NOTES		
PID AFTER PURGE (PPM):	0.0	SURFACE (SEAL,	SURFACE	SURFACE)			
HELIUM TESTS	Pre-sampling	SUNFACE	Top of Seal	()			
HELIUM TEST IN BUCKET(%):	16.2%		Top of ocui	Ŭ			
HELIUM TEST IN TUBE (PPM):	0.0%						
SORBENT TUBE							
SAMPLE START DATE/TIME - SORBENT TUBE:	16:06						
SAMPLE STOP DATE/TIME - SORBENT TUBE:	18:07						
TOTAL SAMPLE TIME - SORBENT TUBE (MIN):	121						
LOW RATE - SORBENT TUBE (L/MIN):	0.18567						
/OLUME OF SAMPLE - SORBENT TUBE (LITERS):	22.466						
SUMMA CANISTER							
SAMPLE START DATE/TIME - SUMMA:	16:06						
SAMPLE STOP DATE/TIME - SUMMA:	18:06		Top of Pack	6			
TOTAL SAMPLE TIME - SUMMA (MIN):	120						
LOW RATE - SUMMA (L/MIN):	0.05						
/OLUME OF SAMPLE - SUMMA (LITERS):	6						
PID AFTER SAMPLE (PPM):	0.0						
SAMPLE MOISTURE CONTENT:	N/A						
CAN SERIAL NUMBER:	2950						
REGULATOR SERIAL NUMBER:	341						
CAN START VACUUM PRESS. (" HG):	-30.22	- `	M	7			
CAN STOP VACUUM PRESS. (" HG):	-5.49						
SAMPLE LOCATION SKETCH				NOTES			

Sample Number: SV29

PROJECT:		PROJECT NO.:				
250 Water Street		170381202				
LOCATION:		SURFACE ELEVATION AND DATUM:				
New York, New York		N/A				
DRILLING FIRM OR LANGAN INSTALLER:			DATE STARTED:		DATE FINISHED	
AARCO Environmental Services, Corp.		7/9/2020			7/9/2020	
INSTALLATION FOREMAN:		SAMPLE DATE STARTED: DATE FINI				
Nick Turro		7/9/2020 7/9/20				
INSTALLATION EQUIPMENT:		TYPE OF SAMPI		ala a sa A. Ta ala a		
Geoprobe 7720 DT			ma Canister; So	rbent Tube		
INSPECTOR:		SAMPLER: Thomas Sch	iofor			
Thomas Schiefer POTENTIAL SAMPLE INTERFERENCES:			DITIONS (PRECIP., TEM	D DDESS WIND SD	EED AND DIP).	
N/A		Temp:	76-80 °F	r., FRESS., WIND SF	EED AND DIR.J.	
N/A		Wind:	SE 0-10	mnh		
		Precipitation		Прп		
		Pressure:	30.07 in.	На		
METHOD OF INSTALLATION:						
A expendable point was advanced to 8 feet bel	ow grade surface (b	gs) with a Geo	orobe 7720 DT	and a 2-inch s	oil vapor pore was	
installed. The annulus was backfilled with one	•	•				
mercury vapor concentration of 0.08 microgram			•			
fitted with an 2-hour flow control valve and a sc	·	-	-			
The flow controller was zeroed and valve open						
controller were checked each hour during samp					'	
period of 2 hours with a total volume of 25.161			ornerit tane sall	ible collection	i took place over a	
TUBING TYPE/DIAMETER:	O L Dassing miloudii		RIAL ABOVE SEAL:			
3/16-inch ID, 1/4-inch OD Teflon-Lined Polyethy	lene Tubing	N/A				
MPLANT SCREEN TYPE/LENGTH/DIAMETER:	-	SEAL MATERIAL	(Bentonite, Beeswa	x, Modeling Clay,	etc.):	
2-Inch Polyethylene Probe		Bentonite				
BOREHOLE DIAMETER:		FILTER PACK MA	ATERIAL (Sand or Gla	ass Beads):		
2-inch		No. 2 Sand				
PURGE VOLUME (L):	0.80	IMPLANT	PROBE DETAILS	DEPTH	NOTES	
PURGE FLOW RATE (ML/MIN):	200	(SEAL	, FILTER, ETC.)	(FEET FROM		
PID AFTER PURGE (PPM):	0.0	SURFACE	SURFACE	SURFACE)		
HELIUM TESTS	Pre-sampling		Top of Se	al 0		
HELIUM TEST IN BUCKET(%):	13.1%					
HELIUM TEST IN TUBE (PPM):	0.0%					
SORBENT TUBE						
SAMPLE START DATE/TIME - SORBENT TUBE:	14:37					
SAMPLE STOP DATE/TIME - SORBENT TUBE:	16:37					
TOTAL SAMPLE TIME - SORBENT TUBE (MIN):	120					
FLOW RATE - SORBENT TUBE (L/MIN):	0.20968					
VOLUME OF SAMPLE - SORBENT TUBE (LITERS):	25.1616					
SUMMA CANISTER		_				
SAMPLE START DATE/TIME - SUMMA:	14:32					
-		_	Top of Bo	ck 7		
SAMPLE STOP DATE/TIME - SUMMA:	16:35 123	⊣	Top of Pa	/ /		
TOTAL SAMPLE TIME - SUMMA (MIN):		- 				
FLOW RATE - SUMMA (L/MIN):	0.048	-				
VOLUME OF SAMPLE - SUMMA (LITERS):	5.904	⊣ ∣				
PID AFTER SAMPLE (PPM):	0.0	-				
SAMPLE MOISTURE CONTENT:	N/A	⊣ ∣				
CAN SERIAL NUMBER:	2252	_				
REGULATOR SERIAL NUMBER:	1746	_	↓			
CAN START VACUUM PRESS. (" HG):	-30.51	_		8		
CAN STOP VACUUM PRESS. (" HG):	-6.52					
SAMPLE LOCATION SKETCH				NOTES		
CAN STOP VACUUM PRESS. (" HG):						

Sample Number: SV30

PROJECT:	PROJECT NO.:	
250 Water Street	170381202	
LOCATION:	SURFACE ELEVATIO	N AND DATUM:
New York, New York	N/A	
DRILLING FIRM OR LANGAN INSTALLER:	INSTALLATION DAT	E STARTED: DATE FINISHI
AARCO Environmental Services, Corp.	7/9/2	020 7/9/202
INSTALLATION FOREMAN:	SAMPLE DATE STAF	RTED: DATE FINISHI
Nick Turro	7/9/2	020 7/9/202
INSTALLATION EQUIPMENT:	TYPE OF SAMPLING	DEVICE:
Geoprobe 7720 DT	6-Liter Summa	Canister; Sorbent Tube
INSPECTOR:	SAMPLER:	
Thomas Schiefer	Thomas Schiefe	er
POTENTIAL SAMPLE INTERFERENCES:	WEATHER CONDITION	DNS (PRECIP., TEMP., PRESS., WIND SPEED AND DIR.):
N/A	Temp:	76-80 °F
	Wind:	SE 0-10 mph
	Precipitation:	N/A
	Pressure:	30.07 in. Hg

METHOD OF INSTALLATION:

A expendable point was advanced to 7 feet below grade surface (bgs) with a Geoprobe 7720 DT and a 2-inch soil vapor pore was installed. The annulus was backfilled with one foot of No. 2 sand and sealed to surface with hydrated bentonite. Initial mercury vapor concentrations above background levels were not observed. Sample consisted of a 6L Summa canister fitted with an 2-hour flow control valve and a sorbent tube connected to a SKC air sampling pump with a flow rate of 0.17218 L/min. The flow controller was zeroed and valve opened to initiate the 2-hour sample collection. The summa cannister sample and flow controller were checked each hour during sampling to ensure proper operation. Sorbent tube sample collection took place over a period of 2 hours and 1 minute with a total volume of 20.833 L passing through the tube.

N/A SEAL MATERIAL (Bent Bentonite FILTER PACK MATERIA NO. 2 Sand IMPLANT/PROB (SEAL, FILTER SURFACE	AL (Sand or Glass		NOTES
Bentonite FILTER PACK MATERIA NO. 2 Sand IMPLANT/PROB (SEAL, FILTER	AL (Sand or Glass BE DETAILS R, ETC.) SURFACE	Beads): DEPTH (FEET FROM SURFACE)	NOTES
FILTER PACK MATERIA No. 2 Sand IMPLANT/PROB	BE DETAILS R, ETC.) SURFACE	DEPTH (FEET FROM SURFACE)	NOTES
No. 2 Sand IMPLANT/PROB (SEAL, FILTEF	BE DETAILS R, ETC.) SURFACE	DEPTH (FEET FROM SURFACE)	NOTES
IMPLANT/PROB	R, ETC.) SURFACE	(FEET FROM SURFACE)	NOTES
(SEAL, FILTER	R, ETC.) SURFACE	(FEET FROM SURFACE)	NOTES
— —	SURFACE	SURFACE)	
SURFACE			
	Top of Seal	0	
	Top of Pack	6	
┨ ∦		7	
	-	,	
		NOTES	
			Top or task of the second of t

Sample Number: SV32

PROJECT:		PROJEC	T NO.:			
250 Water Street		17038				
LOCATION:		SURFACE ELEVATION AND DATUM:				
New York, New York		N/A				
DRILLING FIRM OR LANGAN INSTALLER:		INSTALI	ATION DATE	DATE FINISHED		
AARCO Environmental Services, Corp.			7/9/20:	20		7/9/202
INSTALLATION FOREMAN:		SAMPLE DATE STARTED: DATE				
Nick Turro			7/9/20:	20		7/9/202
INSTALLATION EQUIPMENT:		TYPE OF	SAMPLING D	EVICE:		
Geoprobe 7720 DT		6-Liter	· Summa C	anister; Sorb	ent Tube	
INSPECTOR:		SAMPLE				
Thomas Schiefer			as Schiefer			
POTENTIAL SAMPLE INTERFERENCES:				S (PRECIP., TEMP.,	PRESS., WIND SP	EED AND DIR.):
N/A		Temp:		76-80 °F		
		Wind:		SE 0-10 m	oh	
			itation:	N/A	_	
METIOD OF MOTALLATION		Pressi	ire:	30.07 in. H	g	
METHOD OF INSTALLATION: A expendable point was advanced to 7 feet b	alauranaala - ee = = = = = = = = = = = = = = = = =	L \ · · · · ·	h - C	b = 7700 DT		:
vapor concentrations above background level flow control valve and a sorbent tube connec was zeroed and valve opened to initiate the 2 checked each hour during sampling to ensure	ted to a SKC air samp -hour sample collecti	oling pur ion. The	mp with a f summa ca	low rate of 0 annister samp	.19249 L/m ble and flow	in. The flow controller controller were
and 4 minutes with a total volume of 23.099			abo oampi		oon place e	70. a ponoa o. 2 noa.o
TUBING TYPE/DIAMETER:	L bassina tillodan till		MATERIAL AI	BOVE SEAL:		
3/16-inch ID, 1/4-inch OD Teflon-Lined Polyet	hylene Tubing	N/A				
IMPLANT SCREEN TYPE/LENGTH/DIAMETER:		SEAL M	ATERIAL (Bent	onite, Beeswax, I	Modeling Clay,	etc.):
2-Inch Polyethylene Probe		Bento	nite			
BOREHOLE DIAMETER:				L (Sand or Glass	Beads):	
2-inch		No. 2	Sand			
PURGE VOLUME (L):	0.80	II	/IPLANT/PROB		DEPTH	NOTES
PURGE FLOW RATE (ML/MIN):	200		(SEAL, FILTER	R, ETC.)	(FEET FROM	
PID AFTER PURGE (PPM):	0.0	SURFACE		SURFACE	SURFACE)	
HELIUM TESTS	Pre-sampling			Top of Seal	0	
HELIUM TEST IN BUCKET(%):	13.8%					
HELIUM TEST IN TUBE (PPM):	0.0%					
SORBENT TUBE						
SAMPLE START DATE/TIME - SORBENT TUBE:	15:33					
SAMPLE STOP DATE/TIME - SORBENT TUBE:	17:33					
TOTAL SAMPLE TIME - SORBENT TUBE (MIN):	120					
FLOW RATE - SORBENT TUBE (L/MIN):	0.19249	1				
VOLUME OF SAMPLE - SORBENT TUBE (LITERS):	23.099					
SUMMA CANISTER						
SAMPLE START DATE/TIME - SUMMA:	15:33					
SAMPLE STOP DATE/TIME - SUMMA:	17:33	1		Top of Pack	6	
TOTAL SAMPLE TIME - SUMMA (MIN):	120	1				
FLOW RATE - SUMMA (L/MIN):	0.05	-				
VOLUME OF SAMPLE - SUMMA (LITERS):	6	-				
	0.0	-				
PID AFTER SAMPLE (PPM):	0.0 N/A	-				
SAMPLE MOISTURE CONTENT:		-				
CAN SERIAL NUMBER:	629	-				
REGULATOR SERIAL NUMBER:	1195	-			7	
CAN START VACUUM PRESS. (" HG):	-29.97	4			7	
CAN STOP VACUUM PRESS. (" HG):	-6.1					
SAMPLE LOCATION SKETCH				N	IOTES	

Sample Number: SV37

PROJECT:	PROJECT NO.:			
250 Water Street	170381202			
LOCATION:	SURFACE ELEVATION	N AND DATUM:		
New York, New York	N/A			
DRILLING FIRM OR LANGAN INSTALLER:	INSTALLATION DATE	STARTED: DATE FINISHE		
AARCO Environmental Services, Corp.	7/9/20	020 7/9/202		
INSTALLATION FOREMAN:	SAMPLE DATE STAR	TED: DATE FINISHE		
Nick Turro	7/9/20	020 7/9/202		
INSTALLATION EQUIPMENT:	TYPE OF SAMPLING	TYPE OF SAMPLING DEVICE:		
Geoprobe 7720 DT	6-Liter Summa (Canister; Sorbent Tube		
INSPECTOR:	SAMPLER:			
Thomas Schiefer	Thomas Schiefe	er		
POTENTIAL SAMPLE INTERFERENCES:	WEATHER CONDITIO	NS (PRECIP., TEMP., PRESS., WIND SPEED AND DIR.):		
N/A	Temp:	76-80 °F		
	Wind:	SE 0-10 mph		
	Precipitation:	N/A		
	Pressure:	30.07 in. Hg		

METHOD OF INSTALLATION:

A expendable point was advanced to 7 feet below grade surface (bgs) with a Geoprobe 7720 DT and a 2-inch soil vapor pore was installed. The annulus was backfilled with one foot of No. 2 sand and sealed to surface with hydrated bentonite. A maxiumum initial mercury vapor concentration of 1.13 micrograms per cubic meter (µg/m3) was observed; however subsequent readings after purging, and prior to sampling, were not observed above background. Sample consisted of a 6L Summa canister fitted with an 2-hour flow control valve and a sorbent tube connected to a SKC air sampling pump with a flow rate of 0.2205 L/min. The flow controller was zeroed and valve opened to initiate the 2-hour sample collection. The summa cannister sample and flow controller were checked each hour during sampling to ensure proper operation. Sorbent tube sample collection took place over a period of 2 hours with a total

artomici id. 174-ilich OD Telloli-Lilled Folvet	rubing type/diameter: 3/16-inch ID, 1/4-inch OD Teflon-Lined Polyethylene Tubing		TYPE OF MATERIAL ABOVE SEAL:				
MPLANT SCREEN TYPE/LENGTH/DIAMETER:	inviene rubing	SEAL MATERIAL (Bentonite, Beeswax, Modeling Clay, etc.):					
2-Inch Polyethylene Probe		Bentonite					
BOREHOLE DIAMETER:		FILTER PACK MATERIAL (Sand or Glass Beads):					
2-inch		No. 2 Sand					
PURGE VOLUME (L):	0.80		PROBE DETAILS	DEPTH	NOTES		
PURGE FLOW RATE (ML/MIN):	200	(SEAL,	FILTER, ETC.)	(FEET FROM			
PID AFTER PURGE (PPM):	0.0	SURFACE	SURFACE	SURFACE)			
HELIUM TESTS	Pre-sampling		Top of Seal	0			
HELIUM TEST IN BUCKET(%):	12.0%						
HELIUM TEST IN TUBE (PPM):	0.0%						
SORBENT TUBE							
SAMPLE START DATE/TIME - SORBENT TUBE:	13:20						
SAMPLE STOP DATE/TIME - SORBENT TUBE:	15:20						
TOTAL SAMPLE TIME - SORBENT TUBE (MIN):	120						
FLOW RATE - SORBENT TUBE (L/MIN):	0.2205						
VOLUME OF SAMPLE - SORBENT TUBE (LITERS):	26.460						
SUMMA CANISTER							
SAMPLE START DATE/TIME - SUMMA:	13:20						
SAMPLE STOP DATE/TIME - SUMMA:	15:20		Top of Pack	6			
TOTAL SAMPLE TIME - SUMMA (MIN):	120						
FLOW RATE - SUMMA (L/MIN):	0.05						
VOLUME OF SAMPLE - SUMMA (LITERS):	6						
PID AFTER SAMPLE (PPM):	0.0		\mathbb{L}				
SAMPLE MOISTURE CONTENT:	N/A		\mathbb{L}				
CAN SERIAL NUMBER:	925		<u> </u>				
REGULATOR SERIAL NUMBER:	1794						
CAN START VACUUM PRESS. (" HG):	-29.88		<u> </u>	7			
CAN STOP VACUUM PRESS. (" HG):	-6.99		~~				
SAMPLE LOCATION SKETCH				IOTES			

Langan Engineering, Environmental, Surveying and Landscape Architecture, D.P.C.

Sample Number: SV38

PROJECT:	PROJECT NO.:				
250 Water Street	170381202				
LOCATION:	SURFACE ELEVATION AN	D DATUM:			
New York, New York	N/A				
DRILLING FIRM OR LANGAN INSTALLER:	INSTALLATION DATE STA	RTED: DATE FINISHED:			
AARCO Environmental Services, Corp.	8/3/3030	8/3/2020			
INSTALLATION FOREMAN:	SAMPLE DATE STARTED:	DATE FINISHED:			
Sergio Magana	8/3/2020	8/3/2020			
INSTALLATION EQUIPMENT:	TYPE OF SAMPLING DEVI	CE:			
Geoprobe® 7822 DT	2.7-Liter Summa Ca	2.7-Liter Summa Canister			
NSPECTOR:	SAMPLER:				
Adrian Heath	Adrian Heath				
POTENTIAL SAMPLE INTERFERENCES:	WEATHER CONDITIONS (F	PRECIP., TEMP., PRESS., WIND SPEED AND DIR.):			
N/A	Temp:	_ow to Mid 90s °F			
	Wind:	SW 0-20 mph			
	Precipitation:	V/A			
	Pressure: 3	30.07 in. Hg			

METHOD OF INSTALLATION:

Soil boring SB38 was advanced to 24 feet below grade surface (bgs) with a Geoprobe 7822 DT. The annulus was backfilled to 15 feet bgs and a 2-inch soil vapor probe was installed. No. 2 sand was backfilled to 10 feet bgs, a one-foot hydrated bentonite seal was installed and the boring was backfill with No. 2 sand to 1 foot bgs. The surface was sealed with hydrated bentonite. Sample consisted of 2.7L Summa canister fitted with an 2-hour flow control valve. The flow controller was zeroed and valve opened to initiate the 2-hour sample collection. The sample and flow controller were checked each hour during sampling to ensure proper operation.

0.80 200 0.9 Pre-sampling 29.4% 0.0%	Bentonite FILTER PACK MA No. 2 Sand IMPLANTA	ATERIAL (Sand or Glass /PROBE DETAILS , FILTER, ETC.) SURFACE		NOTES
200 0.9 Pre-sampling 29.4% 0.0%	Bentonite FILTER PACK MA No. 2 Sand IMPLANTA (SEAL,	ATERIAL (Sand or Glass /PROBE DETAILS .FILTER, ETC.)	DEPTH (FEET FROM SURFACE)	NOTES
200 0.9 Pre-sampling 29.4% 0.0%	FILTER PACK MA No. 2 Sand IMPLANTA (SEAL,	/PROBE DETAILS , FILTER, ETC.)	DEPTH (FEET FROM SURFACE)	NOTES
200 0.9 Pre-sampling 29.4% 0.0%	No. 2 Sand IMPLANTA (SEAL,	/PROBE DETAILS , FILTER, ETC.)	DEPTH (FEET FROM SURFACE)	NOTES
200 0.9 Pre-sampling 29.4% 0.0%	IMPLANT/	, FILTER, ETC.)	(FEET FROM SURFACE)	NOTES
200 0.9 Pre-sampling 29.4% 0.0%	(SEAL,	, FILTER, ETC.)	(FEET FROM SURFACE)	NOTES
0.9 Pre-sampling 29.4% 0.0%		П	SURFACE)	
Pre-sampling 29.4% 0.0%	SURFACE	SURFACE		
29.4%			1 0 1	
0.0%	-	11 1		
14:09				
16:09				
120				
0.23996				
28.795		Top of Seal	9	
11:35				
13:56		Top of Pack	10	
141				
0.02				
2.7				
0.0		<u> </u>		
N/A		X		
232		M. I		
808		Y .		
-30.32		\mathbb{M}	15	
-8.59				
	1		NOTES	
	0.23996 28.795 11:35 13:56 141 0.02 2.7 0.0 N/A 232 808 -30.32	0.23996 28.795 11:35 13:56 141 0.02 2.7 0.0 N/A 232 808 -30.32	0.23996 28.795 Top of Seal 11:35 13:56 141 0.02 2.7 0.0 N/A 232 808 -30.32 -8.59	0.23996 28.795 Top of Seal 9 11:35 13:56 141 0.02 2.7 0.0 N/A 232 808 -30.32

Sample Number: SV39

PROJECT:	PROJECT NO.:	
250 Water Street	170381202	
LOCATION:	SURFACE ELEVATION	AND DATUM:
New York, New York	N/A	
DRILLING FIRM OR LANGAN INSTALLER:	INSTALLATION DATE S	STARTED: DATE FINISHED:
AARCO Environmental Services, Corp.	8/3/303	30 8/3/2020
INSTALLATION FOREMAN:	SAMPLE DATE START	ED: DATE FINISHED:
Sergio Magana	8/3/203	20 8/3/2020
INSTALLATION EQUIPMENT:	TYPE OF SAMPLING D	EVICE:
Geoprobe® 7822 DT	2.7-Liter Summa	Canister
INSPECTOR:	SAMPLER:	
Adrian Heath	Adrian Heath	
POTENTIAL SAMPLE INTERFERENCES:	WEATHER CONDITION	S (PRECIP., TEMP., PRESS., WIND SPEED AND DIR.):
N/A	Temp:	Low to Mid 90s °F
	Wind:	SW 0-20 mph
	Precipitation:	N/A
	Pressure:	30.07 in. Hg

METHOD OF INSTALLATION:

Soil boring SB39 was advanced to 28 feet below grade surface (bgs) with a Geoprobe 7822 DT. The annulus was backfilled to 15 feet bgs and a 2-inch soil vapor probe was installed. No. 2 sand was backfilled to 10 feet bgs, a one-foot hydrated bentonite seal was installed and the boring was backfill with No. 2 sand to 1 foot bgs. The surface was sealed with hydrated bentonite. Sample consisted of 2.7L Summa canister fitted with an 2-hour flow control valve. The flow controller was zeroed and valve opened to initiate the 2-hour sample collection. The sample and flow controller were checked each hour during sampling to ensure proper operation.

3/16-inch ID, 1/4-inch OD Teflon-Lined Polyet	TUBING TYPE/DIAMETER:		TYPE OF MATERIAL ABOVE SEAL:				
		No. 2 Sand					
MPLANT SCREEN TYPE/LENGTH/DIAMETER:		SEAL MATERIAL (Bentonite, Beeswax, Modeling Clay, etc.):					
2-Inch Polyethylene Probe		Bentonite					
BOREHOLE DIAMETER:			ATERIAL (Sand or Glas	ss Beads):			
2-inch	0.00	No. 2 Sand					
PURGE VOLUME (L):	0.80 200		T/PROBE DETAILS	DEPTH	NOTES		
PURGE FLOW RATE (ML/MIN):	2.5		L, FILTER, ETC.)	(FEET FROM			
PID AFTER PURGE (PPM):		SURFACE	SURFACE	SURFACE)			
HELIUM TESTS	Pre-sampling 29.0%			0			
HELIUM TEST IN TUBE (PRM):	0.0%	_					
HELIUM TEST IN TUBE (PPM):	0.0%						
SORBENT TUBE	14.04	_					
SAMPLE START DATE/TIME - SORBENT TUBE:	14:04	_					
SAMPLE STOP DATE/TIME - SORBENT TUBE:	16:04						
TOTAL SAMPLE TIME - SORBENT TUBE (MIN):	120						
FLOW RATE - SORBENT TUBE (L/MIN):	0.21742						
/OLUME OF SAMPLE - SORBENT TUBE (LITERS):	26.090		Top of Sea	9			
SUMMA CANISTER							
SAMPLE START DATE/TIME - SUMMA:	11:51						
SAMPLE STOP DATE/TIME - SUMMA:	13:48		Top of Pac	k 10			
TOTAL SAMPLE TIME - SUMMA (MIN):	117						
FLOW RATE - SUMMA (L/MIN):	0.02						
OLUME OF SAMPLE - SUMMA (LITERS):	2.7][]				
PID AFTER SAMPLE (PPM):	0.0						
SAMPLE MOISTURE CONTENT:	N/A						
CAN SERIAL NUMBER:	332		X. I				
REGULATOR SERIAL NUMBER:	1534						
CAN START VACUUM PRESS. (" HG):	-30.45		M. I	15			
	-5.98						
CAN STOP VACUUM PRESS. (" HG):	1			NOTES			

Langan Engineering, Environmental, Surveying and Landscape Architecture, D.P.C.

Sample Number: V1

PROJECT:	PROJECT NO.:		
250 Water Street	170381202		
LOCATION:	SURFACE ELEVATION AND DATUM:		
New York, New York	N/A		
DRILLING FIRM OR LANGAN INSTALLER:	INSTALLATION DATE STARTED: DA		
AARCO Environmental Services, Corp.	7/9/2	7/9/2020	
INSTALLATION FOREMAN:	SAMPLE DATE STARTED:		DATE FINISHED
Nick Turro	7/9/2020		7/9/2020
INSTALLATION EQUIPMENT:	TYPE OF SAMPLING DEVICE:		
Bosch RH540M Hammer Drill	Sorbent Tube		
INSPECTOR:	SAMPLER:		
Thomas Schiefer	Thomas Schiefer		
POTENTIAL SAMPLE INTERFERENCES:	WEATHER CONDITIONS (PRECIP., TEMP., PRESS., WIND SPEED AND DIR.):		
N/A	Temp:	76-80 °F	
	Wind:	SE 0-10 mph	
	Precipitation:	N/A	
	Pressure:	30.07 in. Hg	

Sub-slab vapor point V1 was advanced to 1.5 feet below grade surface (bgs) with a Bosch RH540M Hammer Drill. A 2-inch soil vapor probe was installed in the voids space and the surafce was sealed with hydrated bentonite. A maximum initial mercury vapor concentration of 0.23 micrograms per cubic meter (µg/m3) was observed. Sample consisted of a sorbent tube connected to a SKC air sampling pump with a flow rate of 0.20315 L/min. Sample collection took place over a period of 2 hours with a total volume of 24.378 L passing through the tube.

TUBING TYPE/DIAMETER:		TYPE OF MATERIAL ABOVE SEAL:				
3/16-inch ID, 1/4-inch OD Teflon-Lin	ed Polyethylene					
Tubing IMPLANT SCREEN TYPE/LENGTH/DIAMETER: 2-Inch Polyethylene Probe		N/A				
		SEAL MATERIA	AL (Bentonite, Beeswax	, Modeling Clay, etc.):		
		Bentonite				
BOREHOLE DIAMETER:		FILTER PACK MATERIAL (Sand or Glass Beads):				
2-inch		N/A				
PURGE VOLUME (L):	0.80	IMPLANT/PROBE DETAILS		DEPTH	NOTES	
PURGE FLOW RATE (ML/MIN):	200	(SEA	AL, FILTER, ETC.)	(FEET FROM		
PID AFTER PURGE (PPM):	0.3	SURFACE	SURFACE	SURFACE)		
IELIUM TESTS	Pre-sampling		Top of Sea	0		
HELIUM TEST IN BUCKET(%):	16.0%					
HELIUM TEST IN TUBE (PPM):	0.0%					
SAMPLE START DATE/TIME:	14:07					
SAMPLE STOP DATE/TIME:	16:07					
TOTAL SAMPLE TIME (MIN):	120					
FLOW RATE (L/MIN):	0.20315					
OLUME OF SAMPLE (LITERS):	24.378					
PID AFTER SAMPLE (PPM):	N/A					
SAMPLE MOISTURE CONTENT:	N/A					
CAN SERIAL NUMBER:	N/A					
REGULATOR SERIAL NUMBER:	N/A					
CAN START VACUUM PRESS. (" HG):	N/A					
CAN STOP VACUUM PRESS. (" HG):	N/A					
SAMPLE LOCATION SKE	TCH					
				1.5		
						
See Sample Location Map		NOTES				
See Sample Location Map						

Sample Number: V3

PROJECT:	PROJECT NO.:			
250 Water Street	170381202			
LOCATION:	SURFACE ELEVATION AND DATUM:			
New York, New York	N/A			
DRILLING FIRM OR LANGAN INSTALLER:	INSTALLATION DATE STARTED:		DATE FINISHED	
AARCO Environmental Services, Corp.	7/9/2020		7/9/2020	
INSTALLATION FOREMAN:	SAMPLE DATE STARTED:		DATE FINISHED	
Nick Turro	7/9/2020		7/9/2020	
INSTALLATION EQUIPMENT:	TYPE OF SAMPLING DEVICE:			
Bosch RH540M Hammer Drill	Sorbent Tube			
INSPECTOR:	SAMPLER:			
Thomas Schiefer	Thomas Schiefer			
POTENTIAL SAMPLE INTERFERENCES:	WEATHER CONDITIONS (PRECIP., TEMP., PRESS., WIND SPEED AND DIR.):			
N/A	Temp:	76-80 °F		
	Wind:	SE 0-10 mph		
	Precipitation:	N/A		
	Pressure:	30.07 in. Hg		

METHOD OF INSTALLATION:

Sub-slab vapor point V3 was advanced to 1.5 feet below grade surface (bgs) with a Bosch RH540M Hammer Drill. A 2-inch soil vapor probe was installed in the voids space and the surafce was sealed with hydrated bentonite. Mercury vapor concentrations above background levels were not observed. Sample consisted of a sorbent tube connected to a SKC air sampling pump with a flow rate of 0.17628 L/min. Sample collection took place over a period of 2 hours with a total volume of 21.154 L passing through the tube.

TUBING TYPE/DIAMETER: 3/16-inch ID, 1/4-inch OD Teflon-Lined Polyethylene IMPLANT SCREEN TYPE/LENGTH/DIAMETER: 2-Inch Polyethylene Probe BOREHOLE DIAMETER:		TYPE OF MATERIAL ABOVE SEAL:					
		N/A					
		SEAL MATERIA	L (Bentonite, Beeswax,	Modeling Clay, etc.):			
		Bentonite					
		FILTER PACK M	IATERIAL (Sand or Glass	s Beads):			
2-inch			N/A				
PURGE VOLUME (L):	0.80	IMPLANT/PROBE DETAILS DEP		DEPTH	NOTES		
PURGE FLOW RATE (ML/MIN):	200	(SEA	L, FILTER, ETC.)	(FEET FROM			
PID AFTER PURGE (PPM):	0.3	SURFACE	SURFACE	SURFACE)			
HELIUM TESTS	Pre-sampling		Top of Seal	0			
HELIUM TEST IN BUCKET(%):	18.3%						
HELIUM TEST IN TUBE (PPM):	0.0%						
SAMPLE START DATE/TIME:	12:20						
SAMPLE STOP DATE/TIME:	14:20						
TOTAL SAMPLE TIME (MIN):	120						
FLOW RATE (L/MIN):	0.17628						
VOLUME OF SAMPLE (LITERS):	21.154						
PID AFTER SAMPLE (PPM):	N/A						
SAMPLE MOISTURE CONTENT:	N/A						
CAN SERIAL NUMBER:	N/A						
REGULATOR SERIAL NUMBER:	N/A						
CAN START VACUUM PRESS. (" HG):	N/A						
CAN STOP VACUUM PRESS. (" HG):	N/A						
SAMPLE LOCATION SKE	TCH						
		-					
			Y	1.5			
See Sample Location Map		NOTES					
coo campio Ecoution ivi	~~~	-					
Langan Engineering, E							

Sample Number: V5

PROJECT:	PROJECT NO.:			
250 Water Street	170381202			
LOCATION:	SURFACE ELEVATION AND DATUM:			
New York, New York	N/A			
DRILLING FIRM OR LANGAN INSTALLER:	INSTALLATION DATE STARTED:		DATE FINISHED:	
AARCO Environmental Services, Corp.	7/8/2020		7/8/2020	
INSTALLATION FOREMAN:	SAMPLE DATE STARTED:		DATE FINISHED:	
Nick Turro	7/9/2020		7/9/2020	
INSTALLATION EQUIPMENT:	TYPE OF SAMPLING DEVICE:			
Bosch RH540M Hammer Drill	Sorbent Tube			
INSPECTOR:	SAMPLER:			
Thomas Schiefer	Thomas Schiefer			
POTENTIAL SAMPLE INTERFERENCES:	WEATHER CONDITIONS (PRECIP., TEMP., PRESS., WIND SPEED AND DIR.):			
N/A	Temp:	76-80 °F		
	Wind:	SE 0-10 mph		
	Precipitation:	N/A		
	Pressure:	30.07 in. Hg		

METHOD OF INSTALLATION:

Sub-slab vapor point V5 was advanced to 1.5 feet below grade surface (bgs) with a Bosch RH540M Hammer Drill. A 2-inch soil vapor probe was installed in the voids space and the surafce was sealed with hydrated bentonite. A maxiumum initial mercury vapor concentration of 0.12 micrograms per cubic meter (µg/m3) was observed. Sample consisted of a sorbent tube connected to a SKC air sampling pump with a flow rate of 0.20315 L/min. Sample collection took place over a period of 2 hours and 2 minutes with a total volume of 30.40 L passing through the tube.

TUBING TYPE/DIAMETER: 3/16-inch ID, 1/4-inch OD Teflon-Lined Polyethylene IMPLANT SCREEN TYPE/LENGTH/DIAMETER: 2-Inch Polyethylene Probe BOREHOLE DIAMETER:		TYPE OF MATERIAL ABOVE SEAL: N/A				
		Bentonite				
		FILTER PACK MA	ATERIAL (Sand or Glas	ss Beads):		
		2-inch		N/A		
PURGE VOLUME (L):	0.80	IMPLANT	/PROBE DETAILS	DEPTH	NOTES	
PURGE FLOW RATE (ML/MIN):	200	(SEAL	, FILTER, ETC.)	(FEET FROM		
PID AFTER PURGE (PPM):	0	SURFACE	SURFACE	SURFACE)		
HELIUM TESTS	Pre-sampling		Top of Sea	0		
HELIUM TEST IN BUCKET(%):	16.0%					
HELIUM TEST IN TUBE (PPM):	0.0%					
SAMPLE START DATE/TIME:	14:07					
SAMPLE STOP DATE/TIME:	1:40					
TOTAL SAMPLE TIME (MIN):	122					
FLOW RATE (L/MIN):	0.24921					
VOLUME OF SAMPLE (LITERS):	30.40					
PID AFTER SAMPLE (PPM):	N/A					
SAMPLE MOISTURE CONTENT:	N/A					
CAN SERIAL NUMBER:	N/A					
REGULATOR SERIAL NUMBER:	N/A					
CAN START VACUUM PRESS. (" HG):	N/A					
CAN STOP VACUUM PRESS. (" HG):	N/A					
SAMPLE LOCATION SKE	ТСН					
			M	1.5		
		_				
		NOTES				
See Sample Location Ma	ар					
Langan Engineering, E	nvironmental, Sur	veying and Lar	ndscape Archite	cture, D.P.C.		