PRE-DESIGN SUBSURFACE INVESTIGATION SUMMARY REPORT

AT

FORMER IMPERIAL CLEANERS SITE 218 LAKEVILLE ROAD LAKE SUCCESS, NEW YORK 11042 NYSDEC BCP SITE #C130225

OCTOBER 2019

PREPARED FOR:

MR. JOSEPH JONES PROJECT MANAGER NYS DEPARTMENT OF ENVIRONMENTAL CONSERVATION REMEDIAL BUREAU A, 11TH FLOOR 625 BROADWAY ALBANY, NEW YORK 12233

WALDEN ENVIRONMENTAL ENGINEERING, PLLC

Industry Leader in Environmental Engineering Consulting

PROACTIVE SOLUTIONS SINCE 1995

WALDEN ENVIRONMENTAL ENGINEERING

Sent via email to joseph.jones@dec.ny.gov

October 17, 2019 IMPL0115.6

Mr. Joseph Jones New York State Department of Environmental Conservation Division of Environmental Remediation 625 Broadway, 12th Floor Albany, New York 12233-7015

> Re: Pre-Design Subsurface Investigation Report Former Imperial Cleaners Site (BCP #C130225) 218 Lakeville Road, Lake Success, NY

Dear Mr. Jones:

Walden Environmental Engineering, PLLC (Walden) is submitting the attached *Pre-Design Subsurface Investigation Summary Report* for the above referenced site on behalf of the property owner, 218 Lakeville Acquisition LLC. This report summarizes the results of the May 2019 SVI soil and perched groundwater investigation completed in accordance with the NYSDEC approved *Remedial Work Plan* (Walden, February 2019). Please call me if you have any questions.

Very truly yours, Walden Environmental Engineering, PLLC

Nora moren

Nora M. Brew, P.E. Senior Project Manager

- cc: R. Corcoran, NYSDEC
 - A. Tamuno, Esq., NYSDEC
 - C. Bethoney, NYSDOH
 - S. McLaughlin, NYSDOH
 - G. Bowitch, Esq., Bowitch & Coffey
 - N. Weisfeld, 218 Lakeville Aquisition LLC

Z:\IMPL0115 (Imperial Cleaners)\IMPL0115.6 - 2019 Pre-Design Investigation\Pre-Design Subsurface Investigation May 2019\Report\Transmittal Letter 10.17.2019.doc

LONG ISLAND: 16 SPRING STREET • OYSTER BAY, NEW YORK 11771 • P: (516) 624-7200 • F: (516) 624-3219 HUDSON VALLEY: 200 NORTH DRIVE #108 • HOPEWELL JUNCTION, NEW YORK 12533 • P: (845) 253-8025 CAPITAL DISTRICT: 11 HERBERT DRIVE • LATHAM, NEW YORK 12110 • P: (518) 698-3012 WWW.WALDENENVIRONMENTALENGINEERING.COM

Professional Engineer Certification

I certify that I am currently a professional engineer licensed to practice in New York State in accordance with New York State Education Law, Article 145, Section 7200 et seq. I have completed accredited university courses and degrees in engineering and have sufficient training and experience in remediation, groundwater hydrology, and related fields that enable me to make sound professional judgments with regards to engineering design.

I further certify that this submittal, *Pre-Design Subsurface Investigation Summary Report*, dated October 17, 2019, was prepared under my direction.

Nora M. Brew, P.E. Walden Environmental

10/17/19

Date

TABLE OF CONTENTS

1	IN	TRODUCTION	1
	1.1	Site History and Previous Investigations/Remediation	1
	1.2	May 2019 Soil and Groundwater Sampling Objectives	3
2	SU	BSURFACE INVESTIGATION FIELDWORK	5
	2.1	Soil Investigation	5
	2.2	Groundwater Investigation	6
3	EV	ALUATION OF SOIL AND GROUNDWATER INVESTIGATION SAMPLING RESULTS	9
	3.1	Summary of Soil Sampling Results	9
	3.2	Summary of Groundwater Sampling Results	9
	3.2	.1 VOC Analysis	9
	3.2	.2 Emerging Contaminants Analysis	.10
	3.3	Data Usability Summary Report (DUSR)	.11
4	SU	MMARY AND RECOMMENDATIONS	.12
	4.1	Summary	.12
	4.2	Recommendations	.13

TABLES

1	Summary of Soil Analysis – Volatile Organic Compounds (VOCs)

- 2 Summary of Groundwater Analysis Volatile Organic Compounds (VOCs)
- 3 Summary of Groundwater Analysis Emerging Contaminants (1,4-Dioxane and PFAS)

FIGURES

- 1 Site Location Map
- 2 Pre-Design Investigation Soil Boring Locations

APPENDICES

- APPENDIX A Soil Boring Logs
- APPENDIX B Site Photographs
- APPENDIX C Laboratory Analytical Reports
- APPENDIX D Waste Disposal Manifest
- APPENDIX E Data Usability Summary Report

1 INTRODUCTION

Walden Environmental Engineering, PLLC (Walden) has prepared this report to summarize the results of the May 2019 pre-design subsurface investigation conducted at the Former Imperial Cleaners site located at 218 Lakeville Road, Lake Success, New York (the "Site"). The Site is currently managed under the New York State Brownfield Cleanup Program (BCP) and is subject to New York State Department of Environmental Conservation (NYSDEC) Brownfield Cleanup Agreement #C130225-01-18. This agreement was fully executed by 218 Lakeville Acquisition LLC, the current Site owner (hereinafter, the "Volunteer") and the NYSDEC on February 12, 2018. Previously, the Site was managed under the NYSDEC Voluntary Cleanup Program (VCP) as site #V-00244-1. The Volunteer became owner of the Site in July 2015.

This investigation was conducted to support the design and implementation of a soil vapor extraction (SVE) system, which was determined to be the most feasible remedial alternative for the Site, as discussed in the February 2019 *Remedial Work Plan (RWP*, Walden). The investigation was completed in accordance with the NYSDEC-approved *RWP*, which was developed in accordance with the guidelines set forth in NYSDEC *DER-10: Technical Guidance for Site Investigation and Remediation* (issued May 3, 2010). The investigation included the advancement of soil borings, the installation of temporary groundwater monitoring wells and the subsequent collection of numerous soil and groundwater samples throughout the Site.

A brief Site description of the investigation and the objectives of this investigation are presented below. Section 2 describes the investigation fieldwork conducted at the Site. Section 3 summarizes the soil and groundwater sampling results, and Section 4 presents conclusions and recommendations based on the findings of the investigation.

1.1 Site History and Previous Investigations/Remediation

The Site location is illustrated on Figure 1. The Site is a commercial strip with a single-story building with a basement occupying approximately 4,250 square feet, with two (2) active tenants (Tobacco Plaza, Ltd. and CCQ Construction Inc.) and two (2) vacant spaces, as shown on Figure 2. Residential properties are located directly west of the Site and commercial parcels adjoin the Site to the north, northwest and south.

The basement of the on-site building has concrete block walls and a poured concrete floor slab. Outside the building footprint, the property is completely asphalt-paved. Sanitary wastewater from the building is discharged to two (2) on-site septic systems (refer to Figure 2) as there are no public sewers available near the Site. A perched water table underlies the Site at approximately 30 feet below grade, with a confining clay layer approximately 35 to 50 feet below grade; the groundwater table is located approximately 150 feet below grade. Groundwater flow at the Site varies from west to west-northwest.

A release of tetrachloroethylene (PCE) at the Site was first noted in 1995. The PCE contamination was suspected to originate from floor drains within the tenant space occupied by a dry cleaner (i.e., Imperial Cleaners) at that time and from a leaching pool and drywell on the property that were associated with the former dry cleaner operations. The site investigation and remediation work described below was conducted by the previous owners of the Site, 218 Lakeville Associates LP, as required by NYSDEC under the VCP prior to the Volunteer's ownership and involvement with the Site.

A site investigation was conducted to identify source areas and determine the extent of contaminated soil and groundwater at the Site. Contaminated sediments were removed from the source areas (drywell, interior floor drains and leaching pool associated with the former Imperial Cleaners operations) in 1996 and 2000 to the extent possible without undermining the on-Site structures. Post-excavation soil sampling results indicated that volatile organic compounds (VOCs) remained in the subsurface at concentrations above the NYSDEC Technical and Administrative Guidance Memorandum (TAGM) 4046 Recommended Cleanup Objectives. However, no additional materials were removed because it was determined that further excavation would threaten the integrity of the structures. A SVE system was installed to remove VOC vapors remaining in the soil and to improve soil and groundwater quality. The SVE system included eight (8) extraction wells and began operating in 2001. A soil, soil gas, groundwater and indoor air monitoring program was implemented to track the reductions in VOC concentrations achieved by operation of the SVE system.

Site closure sampling (soil, soil vapor and indoor air perc badge sampling) was conducted in November 2007 – January 2008 in accordance with a NYSDEC-approved work plan. The closure sampling results indicated that the SVE system had successfully reduced soil contaminant concentrations to below the NYSDEC TAGM 4046 Recommended Cleanup Objectives. Permanent shutdown of the SVE system was recommended based on the 2007-2008 closure sampling results. 218 Lakeville Associates L.P., the previous Site owner, subsequently shut down the SVE system circa 2008 without approval from NYSDEC and NYSDOH. These activities occurred approximately seven (7) years before the current Owner/Volunteer purchased the Site or had any involvement in the Site.

Representatives from the NYSDEC, the Volunteer and Walden met on-site in September 2015 to evaluate Site conditions and discuss previous sampling investigations, potential redevelopment of the Site and the work required to achieve VCP Site closure. Based on this meeting and subsequent discussions, a soil vapor intrusion (SVI) investigation ensued to evaluate potential indoor air quality impacts related to SVI and to support development of appropriate Site

closure/management recommendations for NYSDEC and New York State Department of Health (NYSDOH) review and approval. The SVI sampling was conducted in February 2016 in accordance with the NYSDEC-approved *Soil Vapor Intrusion Investigation Work Plan* (Walden, December 2015) and included the collection of sub-slab soil vapor, indoor air and outdoor (ambient) air samples at the Site and several neighboring properties. The results of this sampling were documented in the May 2017 *Soil Vapor Intrusion Investigation Summary Report*, prepared by Walden and submitted to the NYSDEC, and indicated that subsurface VOC concentrations at the Site and surrounding area had rebounded since the SVE system was shut down. Remedial action objectives were subsequently developed (and discussed in the February 2019 *RWP*) to guide the selection of an appropriate remedial alternative for the Site and to support future development of Site closure/management plans.

In accordance with the February 2019 *RWP*, a subsequent SVI investigation was performed in April 2019 to confirm the February 2016 SVI sampling results at the Site and the adjacent property to the south at 220 Lakeville Road, and to evaluate the potential for vapor migration and intrusion at additional off-site properties not included in the February 2016 investigation. The April 2019 investigation included the collection of sub-slab soil vapor, indoor air and outdoor air samples at the Site, 220 Lakeville Road and one (1) additional off-site residential property to the west (5 University Place). Sampling was performed in accordance with the procedures described in the NYSDEC- and NYSDOH-approved *Soil Vapor Intrusion Investigation Work Plan* (Walden, December 2015). The results were documented in the July 2019 *Soil Vapor Intrusion Investigation Summary Report*, prepared by Walden and submitted to the NYSDEC which indicated that subsurface VOC concentrations at the Site remained elevated. Additionally, elevated concentrations of VOC-contaminated vapors were detected at 5 University Place.

1.2 May 2019 Soil and Groundwater Sampling Objectives

Based on the results of the February 2016 SVI sampling, remedial action alternatives were evaluated and presented in the February 2019 *RWP*. The selected remedial strategy for the Site entails the development and installation of a SVE system to reduce the residual VOC mass and prevent off-site vapor migration by removing contaminated vapors in the subsurface, with excavation of residual source material as appropriate.

In accordance with the February 2019 *RWP*, a pre-design subsurface investigation was performed at the Site in May 2019. The objectives of the pre-design investigation were to support the design and implementation of the SVE system by further evaluating potential residual VOC source material and categorizing geological factors which may affect the radius of influence and screen zones of SVE wells in the unsaturated zone. Fieldwork included the advancement of soil borings and the installation of temporary monitoring wells throughout the

Site with collection of numerous soil and groundwater samples. Sampling locations were biased towards the on-site building space, drywells and leaching pools associated with the former drycleaning operations. The results of the investigation are detailed herein and, in conjunction with data from previous investigations at the Site, will be utilized to identify and delineate on-Site source areas for removal and to support development of the SVE system pilot test.

2 SUBSURFACE INVESTIGATION FIELDWORK

The pre-design soil and groundwater investigation began on May 13, 2019 with a ground penetrating radar (GPR) survey of the exterior portions of the Site to clear the proposed sampling locations of underground utilities and other structures prior to drilling. One (1) previously unidentified subsurface drainage pool was detected by the GPR survey; the structure was situated on the west (rear) side of the Site building near the tenant space occupied by Tobacco Plaza (see Figure 2) and appeared to be utilized for roof drainage.

The subsurface investigation was performed from May 14 through 22, 2019. Eastern Environmental Solutions, Inc. (Eastern) of Manorville, NY was retained to perform drilling activities and temporary well installations. Sampling locations were chosen, in accordance with the *RWP*, to target buried drainage structures throughout the Site (stormwater drywells/sanitary leaching pools) where residual source material may be present, particularly those associated with the former dry cleaning operations, and to evaluate subsurface conditions along the upgradient (eastern/ southeastern) and downgradient (western/northwestern) Site boundaries. Based on historic Site use, it was anticipated that residual contamination would likely be found at the inverts of stormwater drywells and septic leaching pools; therefore, soil sampling was conducted in accordance with the *RWP* from the depth of the suspected source material (minimum ten [10] feet below grade, or bg) to just above the perched groundwater interface at approximately 30 feet bg. Select borings were converted to temporary monitoring wells and groundwater samples were collected from the top five (5) feet of the perched water column. Fieldwork and sampling activities are described in further detail below.

2.1 Soil Investigation

Fourteen (14) soil borings (GB-1 through GB-14) were advanced throughout the Site utilizing a direct-push drill rig (Geoprobe[®] 7822DT). Boring locations are depicted on Figure 2. Two (2) borings were advanced on either side of each buried drainage structure, one upgradient (southeast) and one downgradient (northwest), including the suspected roof drainage structure initially identified during the May 13, 2019 GPR survey. Additional borings were also installed in the rear parking lot just outside the southernmost (former Imperial Cleaners) tenant space and in the southeastern, northeastern and northwestern corners of the Site to evaluate potential VOC contamination in these areas.

Continuous soil samples were collected via five (5) foot Macrocores from ten (10) feet bg to the terminus of each boring (35 feet bg). The cores were visually inspected, logged and screened utilizing a photoionization detector (PID) which was calibrated according to manufacturers' instructions prior to the commencement of drilling activities. Boring logs are provided in Appendix A and photographs collected during the fieldwork are provided in Appendix B.

Perched groundwater was encountered between 27 and 33 feet bg. The soil lithology generally included medium brown, fine to medium sand with trace amounts of silt and gravel. Solvent odors and elevated PID measurements were detected sparingly and at varying depths throughout the borings; the maximum PID reading was detected in boring GB-6 at a depth of 15.5 feet bg, immediately downgradient of stormwater drywell DW-1 in the southwestern corner of the Site.

Two (2) soil samples were selected for laboratory analysis from each boring based on PID readings, field screening results (visual/olfactory observations), and other factors including proximity to suspected source areas, distinct soil types, and/or depth with respect to the perched groundwater table. Quality assurance/quality control (QA/QC) samples were also collected in accordance with the Quality Assurance Project Plan (QAPP) for the Site, provided as Appendix B of the February 2019 *RWP*. All soil samples were containerized in clean, laboratory-provided glassware, labeled, placed in ice-filled coolers and transported via courier under standard Chain-of-Custody protocols to Phoenix Environmental Laboratories, Inc. (Phoenix) of Manchester, CT, a NYSDOH Environmental Laboratory Approval Program (ELAP) Contract Laboratory Protocol (CLP) laboratory, for analysis of VOCs via U.S. Environmental Protection Agency (USEPA) Method 5035. The laboratory analytical results are summarized in Table 1 and are compared with 6 NYCRR/NYSDEC Part 375 Soil Cleanup Objectives (SCOs) for Commercial Site Use and Protection of Groundwater. The complete laboratory analytical reports are presented in Appendix C.

Drill cuttings were containerized in one (1) 55-gallon drum, labeled as non-hazardous waste, and transported off-site on May 22, 2019 by Eastern for disposal at Clean Water of New York Inc. in Staten Island, NY. A copy of the waste disposal manifest is included in Appendix D.

2.2 Groundwater Investigation

Following soil boring advancement and sample collection, seven (7) of the boring locations were converted to temporary monitoring wells, as summarized below and depicted on Figure 2:

Soil Boring ID	Temporary Monitoring Well ID
GB-1	TMW-1
GB-2	TMW-2
GB-3	TMW-3
GB-6	TMW-4
GB-8	TMW-5
GB-9	TMW-6
GB-12	TMW-7

The wells were installed to collect groundwater samples from the top of the perched water column (approximately 30-35 feet bg) and to collect perched water table measurements to determine the groundwater flow direction. The approximate groundwater flow direction (west to west-northwest) determined based on water level measurements recorded historically at the Site is shown on Figure 2. Note that the surface elevations of the temporary wells will be surveyed to accurately map the groundwater elevations and confirm the flow direction. Each temporary well was constructed with a five (5)-foot long section of one (1)-inch diameter polyvinylchloride (PVC) 0.020-inch screen at the bottom of the column and solid one (1)-inch diameter PVC riser pipe to grade, and was finished with a J-plug within a five (5)-inch diameter roadbox with bolt-down manhole cover, as shown on the boring logs provided as Appendix A and the photographs included in Appendix B.

One (1) perched groundwater sample was collected for VOC analysis from each of the temporary wells via peristaltic pump and dedicated high-density polyethylene (HDPE) tubing. In addition, groundwater samples collected from four (4) locations (GB-1/TMW-1, GB-6/TMW-4, GB-8/TMW-5 and GB-12/TMW-7) were also analyzed for "emerging contaminants" (1,4-dioxane and per- and polyfluorinated alkyl substances [PFAS]) in accordance with the *RWP* and NYSDEC memos *Groundwater Sampling for Emerging Contaminants* (February 2018) and *Collection of Groundwater Samples for Perfluorooctanoic Acid (PFOA) and Perfluorinated Compounds (PFCs) from Monitoring Wells Sample Protocol* (June 2016). QA/QC samples were also collected as prescribed in the QAPP.

The groundwater and QA/QC samples were placed in single-use laboratory-provided bottleware, labeled, placed in ice-filled coolers and transported via courier under standard Chain-of-Custody protocols to Phoenix for analysis of VOCs via USEPA Method 8260 and 1,4-dioxane via USEPA Method 8270. The samples slated for PFAS analysis were sent by Phoenix to Con-Test Analytical Laboratory of East Longmeadow, MA. The laboratory results for VOC analyses are summarized in Table 2 and are compared with NYSDEC Division of Water Technical and Operational Guidance Series (TOGS) 1.1.1 Class GA Ambient Water Quality Standards (Standards). Table 3 presents the emerging contaminants (1,4-dioxane and PFAS) analytical results. Note that on July 24, 2019, the NYSDOH issued a Notice of Proposed Rulemaking [Amendment of Subpart 5-1 of Title 10 NYCRR (Maximum Contaminant Levels (MCLs)] to establish MCLs of 1 microgram per liter (µg/L) for 1,4-dioxane and 10 nanograms per liter (ng/L) for perfluorooctanoic acid (PFOA) and perfluorooctanesulfonic acid (PFOS). Following a 60-day public comment period (which ended September 23, 2019), NYSDOH will review comments received on the proposed rule. The MCLs will go into effect upon publication of a Notice of Adoption in the New York State Register. The 1,4-dioxane and PFAS results in Table 3 are compared with the proposed MCLs. Complete laboratory reports are included in Appendix С.

Purged groundwater was containerized in one (1) 55-gallon drum, labeled as non-hazardous waste, and transported off-site by Eastern on May 22, 2019 to Clean Water of New York Inc. in Staten Island, NY for disposal. A copy of the waste disposal manifest is included in Appendix D.

3 EVALUATION OF SOIL AND GROUNDWATER INVESTIGATION SAMPLING RESULTS

3.1 Summary of Soil Sampling Results

Numerous VOCs were detected above laboratory Reporting Limits (RLs) in the soil samples, primarily PCE and associated breakdown products (cis-1,2-dichloroethene [cis-1,2-DCE] and trichloroethene [TCE]). Refer to Table 2 for a summary of the soil sampling results. None of the reported detections exceeded applicable NYSDEC SCOs (for Commercial Use or Protection of Groundwater) with the exception of PCE in the sample collected from boring GB-6, located immediately downgradient of stormwater drywell DW-1, at a depth of 14.5-15.5 feet bg (the suspected invert of this drainage structure). The PCE concentration detected in this sample exceeds the NYSDEC SCO for Protection of Groundwater and represents the highest VOC concentration reported in the 28 soil samples collected during this investigation. Low concentrations of several other VOCs, predominantly chlorinated compounds, were also reported in this sample at levels below their respective SCOs.

Low concentrations of PCE (well below NYSDEC SCOs) were detected in all other soil samples with the exception of the samples collected from borings GB-8 and GB-9 at a depth of 14-14.5 feet bg and those collected from boring location GB-12 in the southeastern corner of the Site, where PCE was not detected.

Low concentrations (below NYSDEC SCOs) of PCE, TCE and cis-1,2-DCE were detected in numerous soil samples, particularly those collected at the perched groundwater interface (approximately 27-33 feet below grade). As discussed in Section 3.2 below, concentrations of these compounds exceeding applicable NYSDEC water quality Standards were detected in groundwater samples collected throughout the Site.

Low concentrations of acetone were also detected in several soil samples. Acetone is a common laboratory solvent and all the reported concentrations were well below applicable NYSDEC SCOs. Therefore, these detections are not considered to present a concern.

3.2 Summary of Groundwater Sampling Results

3.2.1 VOC Analysis

Several VOCs were detected above laboratory RLs in perched groundwater samples collected from the temporary monitoring wells. All reported concentrations were below their respective NYSDEC Standards except as discussed below. Refer to Table 3 for a summary of the groundwater sampling results.

PCE was detected at concentrations exceeding the NYSDEC Standard of 5 µg/L in perched groundwater samples collected from all temporary monitoring wells with the exception of TMW-7. The highest reported PCE concentration occurred in the sample collected from monitoring well TMW-2, which was converted from soil boring GB-2 and is located immediately downgradient of sanitary overflow leaching pool LP-3 on the west side of the Site building. Concentrations of cis-1,2-DCE and TCE slightly exceeding NYSDEC Standards were also detected in temporary monitoring wells TMW-4 (downgradient of drywell DW-1), TMW-5 (located in the northeastern corner of the Site) and TMW-6 (downgradient of leaching pool LP-1).

Concentrations of methyl tertiary butyl ether (MTBE) above the NYSDEC Standard of 10 µg/L were detected in perched groundwater samples collected from temporary monitoring wells TMW-1, TMW- 2, TMW-3 and TMW-7. No other VOCs were detected in well TMW-7 at concentrations exceeding laboratory RLs. Monitoring well TMW-7 is situated along the upgradient (eastern/southeastern) property boundary while wells TMW-1, TMW-2 and TMW-3 are situated directly downgradient of TMW-7 on the western/ northwestern side of the Site. Current and reported former uses of the Site have not included potential sources of MTBE, such as the storage or dispensing of gasoline. Considering the Site history and hydrologic locations of the temporary monitoring wells in which elevated concentrations of MTBE were reported, these detections support the conclusion that MTBE from an off-Site upgradient source(s) has migrated onto the Site. Note that MTBE was not detected in any of the sub-slab soil vapor or indoor air samples collected during the April 2019 SVI investigation.

3.2.2 Emerging Contaminants Analysis

None of the perched groundwater samples contained 1,4-dioxane above the laboratory RL of $0.20 \ \mu g/L$ or the NYSDOH proposed MCL of 1 $\mu g/L$. Additionally, none of the detected PFOA and PFOS concentrations exceeded the current USEPA Health Advisory Level of 70 ng/L for combined concentrations of PFOA and PFOS. However, all of the groundwater samples contained PFOA above the NYSDOH proposed MCL of 10 ng/L and two (2) of samples, collected from temporary monitoring wells TMW-1 and TMW-4, contained PFOS above the proposed MCL of 10 ng/L. It should be noted that the 10 ng/L proposed MCLs are not final MCLs in the State of New York as of the date of this report. The source of the PFOA and PFOS concentrations detected in the perched groundwater samples is unknown; however, these compounds are believed to be attributable to off-site sources because historic Site uses did not involve manufacturing or the use of firefighting foams, the operations commonly associated with PFOA and PFOS.

3.3 Data Usability Summary Report (DUSR)

A Data Usability Summary Report (DUSR) completed in accordance with DER-10 is provided herein as Appendix E.

4 SUMMARY AND RECOMMENDATIONS

4.1 Summary

The May 2019 pre-design subsurface investigation at the Site included the advancement of fourteen (14) soil borings (GB-1 through GB-14), conversion of seven (7) borings into temporary monitoring wells (TMW-1 through TMW-7), and the collection of twenty-eight (28) soil and seven (7) perched groundwater samples. The investigation was performed to evaluate the nature and extent of residual VOC contamination and to characterize geological conditions at the Site. The results will be used to support the design and implementation of a SVE remediation system to remove elevated concentrations of VOC vapors remaining in the subsurface at the Site as identified during the SVI investigation completed in April 2019. The results will also be used to support excavation of residual VOC source material as appropriate.

On-site soils consist mainly of medium brown, fine to medium sand with trace amounts of silt and gravel. The depth to perched groundwater was observed during the investigation to vary from approximately 27 to 33 feet bg. The approximate groundwater flow direction is west to west-northwest, as determined from water level measurements recorded historically at the Site.

Numerous VOCs were detected above laboratory RLs in the soil samples. However, none of the reported detections exceeded applicable NYSDEC SCOs (for Commercial Use or Protection of Groundwater) with the exception of PCE in the sample collected from boring GB-6, located immediately downgradient of stormwater drywell DW-1, at a depth of 14.5-15.5 feet below grade (the suspected invert of this drainage structure). The reported PCE concentration in this sample exceeds the SCO for Protection of Groundwater. These data suggest that contaminant source material is present in and around the DW-1 structure.

PCE was detected at concentrations exceeding the NYSDEC Class GA Ambient Water Quality Standard of 5 µg/L in all temporary monitoring wells with the exception of TMW-7. The highest reported PCE concentration occurred in the perched groundwater sample collected from monitoring well TMW-2, located immediately downgradient of sanitary overflow leaching pool LP-3 on the west side of the Site building. Low concentrations of cis-1,2-DCE and TCE were detected in temporary monitoring wells TMW-4, TMW-5 and TMW-6.

MTBE concentrations above the 10 μ g/L NYSDEC Standard were detected in perched groundwater samples collected from temporary monitoring wells TMW-1, TMW- 2, TMW-3 and TMW-7. These detections support the conclusion that MTBE from an off-Site upgradient source(s) has migrated onto the Site. Note that MTBE was not detected in any of the sub-slab soil vapor or indoor air samples collected during the April 2019 SVI investigation. None of the perched groundwater samples analyzed for emerging contaminants contained 1,4dioxane above the laboratory RL of 0.20 μ g/L and none of the detected PFOA and PFOS concentrations exceeded the current USEPA Health Advisory Level of 70 ng/L for combined concentrations of PFOA and PFOS. The PFOS concentrations detected in the samples collected from temporary monitoring wells TMW-1 and TMW-4 and PFOA concentrations in all of the groundwater samples exceeded the NYSDOH proposed MCLs of 10 ng/L. It should be noted that the 10 ng/L proposed MCLs are not final MCLs in New York as of the date of this report. The source of the PFOA and PFOS concentrations detected in the perched groundwater samples is unknown; however, these compounds are believed to be attributable to off-site sources because historic Site uses did not involve manufacturing or the use of firefighting foams, the operations commonly associated with PFOA and PFOS.

4.2 Recommendations

The following actions are recommended based on the pre-design soil and groundwater investigation results:

- Removal of the DW-1 structure in the southwestern corner of the Site and remedial excavation of impacted soils in this area is recommended.
- In order focus source removal, Walden recommends advancing two (2) additional soil borings in the vicinity of DW-1 to a depth of approximately 27 feet bg (just above the perched groundwater interface) to delineate the lateral and vertical extent of soil impacts. Soils will be continuously sampled, logged, field screened for lithology and evidence of contamination, and selectively retained for laboratory analysis of VOCs. These data will be utilized to constrain the limits of remedial excavation in this area.
- No VOCs were detected above laboratory RLs in the soil samples collected from boring GB-7, situated just west of the former Imperial Cleaners tenant space between the Site building and drywells DW-1 and DW-2 near the western property boundary. However, the February 2016 and April 2019 soil vapor intrusion investigations performed at the Site indicated the presence of significantly elevated concentrations of chlorinated VOC vapors beneath the building slab. The impacts detected in the DW-1 area may not account for these sub-slab vapor concentrations and it is possible that an additional source of contaminated vapors is present beneath the building. Therefore, Walden recommends further investigation beneath the concrete slab floor of the former Imperial Cleaners basement. The collection of three (3) sub-slab soil samples is recommended in the vicinity of floor drain FD-2 to evaluate the potential presence of residual contaminant

source material in this area. Remedial options will be evaluated as appropriate based on the sub-slab soil sampling results.

• Following remedial excavation activities in the DW-1 area, Walden recommends collecting a subsequent round of perched groundwater samples from all temporary monitoring wells to evaluate pre- and post-excavation perched groundwater conditions.

<u>Figure 1</u>

Site Location Map



Notes: Aerial photos obtained the USGS	d from
Creation date: 1/29/2018	Print Date: 4/10/2018
Author: MCT	Job No: IMPL0115.6
PDF: Z:\IMPL0115 (Imperial Cleaners)\IM APRIL 2018\Figures\Figure 1 Site Locatio	PL0115.5 BCP Application\Remedial Work Pla n Map.pdf
Map: Y:\IMPL0115.4\IMPL0115.5\Site Lo	cation Map.mxd
WALDEN ENVIR	CONMENTAL ENGINEERING, PLI 16 SPRING STREI

16 SPRING STREET OYSTER BAY, NEW YORK P: (516) 624-7200 F: (516) 624-3219 WWW.WALDEN-ASSOCIATES.COM

Figure 1 Site Location Map

Former Imperial Cleaners Site Site No. C130225

218 Lakeville Road Lake Success, NY 11020



Figure 2

Pre-Design Investigation Soil Boring Locations



CAD FILE NAME: Z1IMPL0115 (Impe

Table 1

Summary of Soil Analysis – Volatile Organic Compounds (VOCs)

Table 1 Summary of Soil Analysis - Volatile Organic Compounds (VOCs)

		NYSDEC S	Soil Cleanup	GB-1 (14-	15')	DUPLICATE 051719	GB-1 (28.7	5-29.25')	GB-2 (14	-14.5')	GB-2 (27-	-28')	DUPLICATE	E 051519	GB-3 (16	5-17')	GB-3 (27.75	5-28.25')	GB-4 (16	.5-17')	GB-4 (28	-28.5')	GB-5 (14	-14.5')	GB-5 (27.5	5-28')
Chemical Compound	CAS	Obje	ectives	5/17/201	9	5/17/2019	5/17/2	019	5/15/2	019	5/15/20	19	5/15/20	19	5/16/20)19	5/16/2	019	5/17/2	019	5/17/2	019	5/16/2	019	5/16/201	19
		Commercial Use	Protection of	Result	Q	Result Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
1,1,1,2-Tetrachloroethane	630-20-6	-	-	< 5.8	U	< 5.4 U	< 4.9	U	< 11	U	< 5.2	U	< 4.6	U	< 4.3	U	< 4.8	U	< 4.4	U	< 5.2	U	< 4.0	U	< 5.1	U
1,1,1-Trichloroethane	71-55-6	500,000	680	< 5.8	U	< 5.4 U	< 4.9	U	< 11	U	< 5.2	U	< 4.6	U	< 4.3	U	< 4.8	U	< 4.4	U	< 5.2	U	< 4.0	U	< 5.1	U
1,1,2,2-Tetrachloroethane	79-34-5	-	600	< 5.8	U	< 5.4 U	< 4.9	U	< 11	U	< 5.2	U	< 4.6	U	< 4.3	U	< 4.8	U	< 4.4	U	< 5.2	U	< 4.0	U	< 5.1	U
1,1,2-1richloroethane	79-00-5	240.000	- 270	< 5.8	U 11	< 5.4 U	< 4.9	U	< 11	U	< 5.2	<u>U</u>	< 4.6	U	< 4.3	U	< 4.8	U	< 4.4	U	< 5.2	U	< 4.0	U	< 5.1	<u>U</u>
1,1-Dichloroethene	75-35-4	500,000	330	< 5.8	U	< 5.4 U	< 4.9	Ŭ	<11	U	< 5.2	Ŭ	< 4.6	U	< 4.3	Ŭ	< 4.8	U	< 4.4	Ŭ	< 5.2	U	< 4.0	U	< 5.1	U
1,1-Dichloropropene	563-58-6	-	-	< 5.8	U	< 5.4 U	< 4.9	U	< 11	U	< 5.2	U	< 4.6	U	< 4.3	U	< 4.8	U	< 4.4	U	< 5.2	U	< 4.0	U	< 5.1	U
1,2,3-Trichlorobenzene	87-61-6	-	-	< 5.8	U	< 5.4 U	< 4.9	U	< 11	U	< 5.2	U	< 4.6	U	< 4.3	U	< 4.8	U	< 4.4	U	< 5.2	U	< 4.0	U	< 5.1	U
1,2,3-Trichloropropane	96-18-4	-	340	< 5.8	U	< 5.4 U	< 4.9	U	< 11	U	< 5.2	U	< 4.6	U	< 4.3	U	< 4.8	U	< 4.4	U	< 5.2	U	< 4.0	U	< 5.1	U
1,2,4-1ricniorobenzene	95-63-6	-	3,400	< 5.8	U 11	< 5.4 U	< 4.9	U	< 11	U	< 5.2	<u>U</u>	< 4.6	U 11	< 4.5	U	< 4.8	U	< 4.4	U	< 5.2	U	< 4.0	U	< 5.1	<u> </u>
1.2-Dibromo-3-chloropropane	96-12-8	-	-	< 5.8	U	< 5.4 U	< 4.9	Ŭ	<11	U	< 5.2	Ŭ	< 4.6	U	< 4.3	Ŭ	< 4.8	U	< 4.4	Ŭ	< 5.2	U	< 4.0	U	< 5.1	U
1,2-Dibromoethane	106-93-4	-	-	< 5.8	U	< 5.4 U	< 4.9	U	< 11	U	< 5.2	U	< 4.6	U	< 4.3	U	< 4.8	U	< 4.4	U	< 5.2	U	< 4.0	U	< 5.1	U
1,2-Dichlorobenzene	95-50-1	500,000	1,100	< 5.8	U	< 5.4 U	< 4.9	U	< 11	U	< 5.2	U	< 4.6	U	< 4.3	U	< 4.8	U	< 4.4	U	< 5.2	U	< 4.0	U	< 5.1	U
1,2-Dichloroethane	107-06-2	30,000	20	< 5.8	U	< 5.4 U	< 4.9	U	< 11	U	< 5.2	U	< 4.6	U	< 4.3	U	< 4.8	U	< 4.4	U	< 5.2	U	< 4.0	U	< 5.1	U
1,2-Dichloropropane	/8-8/-5	-	- 8 400	< 5.8	U	< 5.4 U	< 4.9	U	< 11	U	< 5.2	U	< 4.6	U	< 4.3	U	< 4.8	U	< 4.4	U	< 5.2	U	< 4.0	U	< 5.1	<u>U</u>
1.3-Dichlorobenzene	541-73-1	280.000	2,400	< 5.8	U	< 5.4 U	< 4.9	U	<11	U	< 5.2	U	< 4.6	U	< 4.3	U	< 4.8	U	< 4.4	U	< 5.2	U	< 4.0	U	< 5.1	U
1,3-Dichloropropane	142-28-9	-	300	< 5.8	Ū	< 5.4 U	< 4.9	Ū	< 11	Ū	< 5.2	Ū	< 4.6	Ū	< 4.3	Ū	< 4.8	Ū	< 4.4	Ū	< 5.2	Ū	< 4.0	Ū	< 5.1	Ū
1,4-Dichlorobenzene	106-46-7	130,000	1,800	< 5.8	U	< 5.4 U	< 4.9	U	< 11	U	< 5.2	U	< 4.6	U	< 4.3	U	< 4.8	U	< 4.4	U	< 5.2	U	< 4.0	U	< 5.1	U
2,2-Dichloropropane	594-20-7	-	-	< 5.8	U	< 5.4 U	< 4.9	U	< 11	U	< 5.2	U	< 4.6	U	< 4.3	U	< 4.8	U	< 4.4	U	< 5.2	U	< 4.0	U	< 5.1	U
2-Chlorotoluene	95-49-8	-	-	< 5.8	U 11	< 5.4 U	< 4.9	U	< 11	U	< 5.2	U 11	< 4.6	U	< 4.3	U	< 4.8	U	< 4.4	U	< 5.2	U	< 4.0	U	< 5.1	<u>U</u>
2-Isopropyltoluen	527-84-4	-	-	< 5.8	U	<54 U	< 4.9	U	< 11	U	< 5.2	U	< 4.6	U	< 4.3	U	< 4.8	U	< 4.4	U	< 5.2	U	< 4.0	U	< 5.1	<u>U</u>
4-Chlorotoluene	106-43-4	-	-	< 5.8	U	< 5.4 U	< 4.9	Ŭ	< 11	Ŭ	< 5.2	Ŭ	< 4.6	Ŭ	< 4.3	Ŭ	< 4.8	Ŭ	< 4.4	Ŭ	< 5.2	Ŭ	< 4.0	Ŭ	< 5.1	U
4-Methyl-2-pentanone	108-10-1	-	1,000	< 29	U	< 27 U	< 24	U	< 54	U	< 26	U	< 23	U	< 22	U	< 24	U	< 22	U	< 26	U	< 20	U	< 26	U
Acetone	67-64-1	500,000	50	< 29	U	< 27 U	< 24	U	< 50	U	< 26	U	< 23	U	7.0	JS	11	JS	< 22	U	< 26	U	< 20	U	< 26	U
Acrylonitrile	107-13-1	-	-	< 12	U	<11 U	< 9.8	U	< 22	U	< 10	U	< 9.1	U	< 8.6	U	< 9.6	U	< 8.8	U	< 10	U	< 8.0	U	< 10	<u>U</u>
Bromobenzene	108-86-1	44,000		< 5.8	U	< 5.4 U	< 4.9	U	< 11	U	< 5.2	U	< 4.6	U	< 4.3	U	< 4.8	U	< 4.4	U	< 5.2	U	< 4.0	U	< 5.1	U
Bromochloromethane	74-97-5	-	-	< 5.8	Ŭ	< 5.4 U	< 4.9	Ŭ	< 11	Ŭ	< 5.2	Ŭ	< 4.6	Ŭ	< 4.3	Ŭ	< 4.8	Ŭ	< 4.4	Ŭ	< 5.2	Ŭ	< 4.0	Ŭ	< 5.1	Ū
Bromodichloromethane	75-27-4	-	-	< 5.8	U	< 5.4 U	< 4.9	U	< 11	U	< 5.2	U	< 4.6	U	< 4.3	U	< 4.8	U	< 4.4	U	< 5.2	U	< 4.0	U	< 5.1	U
Bromoform	75-25-2	-	-	< 5.8	U	< 5.4 U	< 4.9	U	< 11	U	< 5.2	U	< 4.6	U	< 4.3	U	< 4.8	U	< 4.4	U	< 5.2	U	< 4.0	U	< 5.1	U
Bromomethane Corbon disulfide	74-83-9	-	- 2 700	< 5.8	U 11	< 5.4 U	< 4.9	U	< 11	U	< 5.2	U 11	< 4.6	U	< 4.3	U	< 4.8	U	< 4.4	U	< 5.2	U	< 4.0	U	< 5.1	<u>U</u>
Carbon tetrachloride	56-23-5	22 000	2,700	< 5.8	U	< 5.4 U	< 4.9	U	< 11	U	< 5.2	U	< 4.0	U	< 4.3	U	< 4.8	U	< 4.4	U	< 5.2	U	< 4.0	U	< 5.1	<u>U</u>
Chlorobenzene	108-90-7	500,000	1,100	< 5.8	Ŭ	< 5.4 U	< 4.9	Ŭ	< 11	Ŭ	< 5.2	Ŭ	< 4.6	Ŭ	< 4.3	Ŭ	< 4.8	Ŭ	< 4.4	Ŭ	< 5.2	Ŭ	< 4.0	Ŭ	< 5.1	Ū
Chloroethane	75-00-3	-	-	< 5.8	U	< 5.4 U	< 4.9	U	< 11	U	< 5.2	U	< 4.6	U	< 4.3	U	< 4.8	U	< 4.4	U	< 5.2	U	< 4.0	U	< 5.1	U
Chloroform	67-66-3	350,000	370	< 5.8	U	< 5.4 U	< 4.9	U	< 11	U	< 5.2	U	< 4.6	U	< 4.3	U	< 4.8	U	< 4.4	U	< 5.2	U	< 4.0	U	< 5.1	U
Chloromethane	74-87-3	-	-	< 5.8	U	< 5.4 U	< 4.9	U	< 11	U	< 5.2	<u>U</u>	< 4.6	<u>U</u>	< 4.3	U	< 4.8	U	< 4.4	U	< 5.2	U	< 4.0	U	< 5.1	<u> </u>
cis-1,2-Dichloropropens	10061-01-5	300,000	230	< 5.8	U	< 5.4 U	< 4.9	U	< 11	U	< 5.2	U 11	< 4.6	U	< 4.3	U	< 4.8	U	< 4.4	U	1.1 < 5.2	J	< 4.0	U	1.4 < 5.1	<u> </u>
Dibromochloromethane	124-48-1	-	-	< 5.8	Ŭ	< 5.4 U	< 4.9	Ŭ	< 11	Ŭ	< 5.2	Ŭ	< 4.6	Ŭ	< 4.3	Ŭ	< 4.8	Ŭ	< 4.4	Ŭ	< 5.2	Ŭ	< 4.0	Ŭ	< 5.1	U
Dibromomethane	74-95-3	-	-	< 5.8	U	< 5.4 U	< 4.9	U	< 11	U	< 5.2	U	< 4.6	U	< 4.3	U	< 4.8	U	< 4.4	U	< 5.2	U	< 4.0	U	< 5.1	U
Dichlorodifluoromethan	75-71-8	-	-	< 5.8	U	< 5.4 U	< 4.9	U	< 11	U	< 5.2	U	< 4.6	U	< 4.3	U	< 4.8	U	< 4.4	U	< 5.2	U	< 4.0	U	< 5.1	U
Ethylbenzene	100-41-4	390,000	1,000	< 5.8	<u>U</u>	< 5.4 U	< 4.9	U	< 11	U	< 5.2	<u>U</u>	< 4.6	<u>U</u>	< 4.3	U	< 4.8	U	< 4.4	U	< 5.2	U	< 4.0	U	< 5.1	<u>U</u>
Isopropylbenzenc	98-82-8	-	2 300	< 5.8	U	< 5.4 U	< 4.9	U	< 11	U	< 5.2	U	< 4.6	U	< 4.3	U	< 4.8	U	< 4.4	U	< 5.2	U	< 4.0	U	< 5.1	<u>U</u>
m&p-Xylene	179601-23-1	500.000	1,600	< 5.8	Ŭ	< 5.4 U	< 4.9	Ŭ	< 11	Ŭ	< 5.2	Ŭ	< 4.6	Ŭ	< 4.3	Ŭ	< 4.8	Ŭ	< 4.4	Ŭ	< 5.2	Ŭ	< 4.0	Ŭ	< 5.1	Ū
o-Xylene	95-47-6	500,000	1,600	< 5.8	U	< 5.4 U	< 4.9	U	< 11	U	< 5.2	U	< 4.6	U	< 4.3	U	< 4.8	U	< 4.4	U	< 5.2	U	< 4.0	U	< 5.1	U
Methyl Ethyl Keton	78-93-3	500,000	300	< 35	U	< 32 U	< 29	U	< 65	U	< 31	U	< 27	U	< 26	U	< 29	U	< 22	U	< 26	U	< 24	U	< 31	U
Methyl t-butyl ether (MTBE)	1634-04-4	500,000	930	< 12	U	<11 U	< 9.8	U	< 22	U	< 10	<u>U</u>	< 9.1	<u>U</u>	< 8.6	U	< 9.6	U	< 8.8	U	< 10	U	< 8.0	U	< 10	<u>U</u>
Naphthalene	91-20-3	500,000	12 000	< 5.8	U	< 5.4 U	< 4.9	U	< 11	U	< 5.2	U 11	< 4.6	U	< 4.3	U	< 4.8	U	< 4.4	U	< 5.2	U	< 4.0	U	< 5.1	U U
n-Butylbenzene	104-51-8	500,000	12,000	< 5.8	U	< 5.4 U	< 4.9	U	<11	U	< 5.2	U	< 4.6	U	< 4.3	U	< 4.8	U	< 4.4	U	< 5.2	U	< 4.0	U	< 5.1	U
n-Propylbenzene	103-65-1	500,000	3,900	< 5.8	U	< 5.4 U	< 4.9	U	< 11	U	< 5.2	U	< 4.6	U	< 4.3	U	< 4.8	U	< 4.4	U	< 5.2	U	< 4.0	U	< 5.1	U
p-Isopropyltoluene	99-87-6		10,000	< 5.8	U	< 5.4 U	< 4.9	U	< 11	U	< 5.2	U	< 4.6	U	< 4.3	U	< 4.8	U	< 4.4	U	< 5.2	U	< 4.0	U	< 5.1	U
sec-Butylbenzene	135-98-8	500,000	11,000	< 5.8	U	< 5.4 U	< 4.9	U	< 11	U	< 5.2	U	< 4.6	U	< 4.3	U	< 4.8	U	< 4.4	U	< 5.2	U	< 4.0	U	< 5.1	<u>U</u>
Styrene tert-Butylbenzene	98.06.6	-	- 5 900	< 5.8	U	< 5.4 U < 5.4 U	< 4.9	U	< 11	U	< 5.2	U U	< 4.6	U	< 4.5	U	< 4.8	U	< 4.4	U	< 5.2	U	< 4.0	U	< 5.1	U
Tetrachloroethene	127-18-4	150.000	1,300	3.5	J	3.2 J	8.1	0	2.3	J	~ <u>5.2</u>	U	9.0	U	3.1	J	5.6	0	2.5	J	74	0	89	0	270	0
Tetrahydrofuran (THF)	109-99-9	-	-	< 12	Ŭ	<11 U	< 9.8	U	< 22	Ŭ	< 10	U	< 9.1	U	< 8.6	Ů	< 9.6	U	< 8.8	Ŭ	< 10	U	< 8.0	U	< 10	U
Toluene	108-88-3	500,000	700	< 5.8	U	< 5.4 U	< 4.9	U	< 11	U	< 5.2	U	< 4.6	U	< 4.3	U	< 4.8	U	< 4.4	U	< 5.2	U	< 4.0	U	< 5.1	U
trans-1,2-Dichloroethene	156-60-5	500,000	190	< 5.8	U	< 5.4 U	< 4.9	U	< 11	U	< 5.2	U	< 4.6	U	< 4.3	U	< 4.8	U	< 4.4	U	< 5.2	U	< 4.0	U	< 5.1	U
trans-1,3-Dichloropropene	10061-02-6		-	< 5.8	U 11	< 5.4 U	< 4.9	U	< 11	U	< 5.2	U U	< 4.6	U	< 4.3	U	< 4.8	U	< 4.4	U	< 5.2	U	< 4.0	U	< 5.1	<u>U</u>
Trichloroethene	79-01-6	200.000	470	< 5.8	U	<54 U	< 4.9.8	U	< 11	U	< 5.2	U	< 4.6	U	< 4.3	U	< 4.8	U	< 0.0 < 4.4	U	24	Ţ	<a>> 8.0	I	2.5	J
Trichlorofluoromethan	75-69-4	-		< 5.8	Ŭ	< 5.4 U	< 4.9	U	<11	U	< 5.2	Ŭ	< 4.6	U	< 4.3	Ŭ	< 4.8	Ŭ	< 4.4	U	< 5.2	U	< 4.0	U	< 5.1	Ŭ
Trichlorotrifluoroethan	76-13-1	-	-	< 5.8	U	< 5.4 U	< 4.9	U	< 11	U	< 5.2	U	< 4.6	U	< 4.3	U	< 4.8	U	< 4.4	U	< 5.2	U	< 4.0	U	< 5.1	U
Vinyl chloride	75-01-4	13 000	20	< 5.9	TI	<54 II	< 1.0	II	< 11	II	< 5.2	II	< 1.6	TI	< 1.2	II	< 1.9	II	< 1.1	II	< 5.2	TI	< 1.0	TI	< 5.1	II

 Notes;

 Results reported in micrograms per kilogram (μg/Kg'

 CAS - Chemical Abstracts Service

 NYSDEC - New York State Department of Environmental Conservation

 Samples were analyzed by U.S. Environmental Protection Agency (EPA) Method 503

 - NYSDEC Soil Cleanup Objective (SCO) has not been establisher

 Q - Laboratory qualifier

 U - The compound was not detected above the laboratory Reporting Limit (RL

 J - The result provided is estimated below the RI

 S - Laboratory solvent; cross-contamination is possibl

 * - The RL for this compound is greater than the NYSDEC Unrestricted Use Soil Cleanup Objective (SCO)

 Bold results indicate those detected above the RI

 Highlighted results indicate those detected above Commercial and/or Protection of Groundwater SCC

Table 1 Summary of Soil Analysis - Volatile Organic Compounds (VOCs)

		NYSDEC	Soil Cleanup	GB-6 (14	.5-15.5')	DUPLI 05162	CATE 2019	GB-6 (2	8-29')	GB-7 (14	4-14.5')	DUPLICATI	E 05222019	GB-7 (3	0-31')	GB-8 (1	14-15')	GB-8 (33-	-33.5')	GB-9 (14-	-14.5')	GB-9 (31.5-3	32.5')	DUPLICATE	051419	GB-10 (14-14	4.5')	GB-10 (32	-32.5')
Chemical Compound	CAS	Obj	ecuves	5/16/2	2019	5/16/2	2019	5/16/2	019	5/22/2	2019	5/22/2	019	5/22/2	019	5/17/2	2019	5/17/20	019	5/14/20	019	5/14/201	9	5/14/201	19	5/14/2019	,	5/14/20)19
		Commercial Us	e Protection of Groundwater	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
1,1,1,2-Tetrachloroethane	630-20-6	-	-	< 5.3	U	< 4.8	U	< 3.7	U	< 4.2	U	< 3.8	U	< 5.7	U	< 4.0	U	< 5.3	U	< 5.3	U	< 5.4	U	< 4.5	U	< 4.3	U	< 5.8	U
1,1,1-Trichloroethane	71-55-6	500,000	680	< 5.3	U	< 4.8	U	< 3.7	U	< 4.2	U	< 3.8	U	< 5.7	U	< 4.0	U	< 5.3	U	< 5.3	U	< 5.4	U	< 4.5	U	< 4.3	U	< 5.8	U
1,1,2,2-Tetrachloroethane	79-34-5	-	600	< 5.3	U	< 4.8	U	< 3.7	U	< 4.2	U	< 3.8	U	< 5.7	U	< 4.0	U	< 5.3	U	< 5.3	U	< 5.4	U	< 4.5	U	< 4.3	U	< 5.8	
1,1,2-1richloroethane	79-00-5	240.000	- 270	< 5.3	U	< 4.8	U	< 3.7	U	< 4.2	U	< 3.8	U	< 5.7	U	< 4.0	U	< 5.3	U	< 5.3	U	< 5.4	U 11	< 4.5	U	< 4.3	U	< 5.8	
1.1-Dichloroethene	75-35-4	500,000	330	< 5.3	U	< 4.8	U	< 3.7	U	< 4.2	U	< 3.8	U	< 5.7	U	< 4.0	U	< 5.3	U	< 5.3	U	< 5.4	U	< 4.5	U	< 4.3	U	< 5.8	U
1,1-Dichloropropene	563-58-6	-	-	< 5.3	Ŭ	< 4.8	Ŭ	< 3.7	Ŭ	< 4.2	Ŭ	< 3.8	Ŭ	< 5.7	Ŭ	< 4.0	Ŭ	< 5.3	Ŭ	< 5.3	Ŭ	< 5.4	Ŭ	< 4.5	Ŭ	< 4.3	U	< 5.8	Ŭ
1,2,3-Trichlorobenzene	87-61-6	-	-	2.0	J	1.6	J	< 3.7	U	< 4.2	U	< 3.8	U	< 5.7	U	< 4.0	U	< 5.3	U	< 5.3	U	< 5.4	U	< 4.5	U	< 4.3	U	< 5.8	U
1,2,3-Trichloropropane	96-18-4	-	340	< 5.3	U	< 4.8	U	< 3.7	U	< 4.2	U	< 3.8	U	< 5.7	U	< 4.0	U	< 5.3	U	< 5.3	U	< 5.4	U	< 4.5	U	< 4.3	U	< 5.8	U
1,2,4-Trichlorobenzene	120-82-1	-	3,400	6.4		5.3		< 3.7	U	< 4.2	U	< 3.8	U	< 5.7	U	< 4.0	U	< 5.3	U	< 5.3	U	< 5.4	U	< 4.5	U	< 4.3	U	< 5.8	U
1,2,4-Trimethylbenzenc	95-63-6	190,000	3,600	< 5.3	U	< 4.8	U	< 3.7	U	< 4.2	U	< 3.8	U	< 5.7	U	< 4.0	U	< 5.3	U	< 5.3	U	< 5.4	U	< 4.5	U	< 4.3	U	< 5.8	
1,2-Dibromo-3-chloropropane	96-12-8	-	-	< 5.3	U	< 4.8	U	< 3.7	U	< 4.2	U	< 3.8	U	< 5.7	U	< 4.0	U	< 5.3	U	< 5.3	U	< 5.4	U	< 4.5	U	< 4.3	U	< 5.8	
1,2-Dibromoethane	05 50 1	500.000	-	< 5.5	U	< 4.8	U	< 3.7	U	< 4.2	U	< 3.8	U	< 5.7	U	< 4.0	U	< 5.3	U	< 5.3	U	< 5.4	U	< 4.5	U	< 4.3	U	< 5.8	
1.2-Dichloroethane	107-06-2	30,000	20	< 5.3	U	< 4.8	П	< 3.7	U	< 4.2	U	< 3.8	U	< 5.7	U	< 4.0	U	< 5.3	U	< 5.3	U	< 5.4	U U	< 4.5	U	< 4.3	U	< 5.8	U
1.2-Dichloropropane	78-87-5	-		< 5.3	Ŭ	< 4.8	Ŭ	< 3.7	U	< 4.2	U	< 3.8	Ŭ	< 5.7	Ŭ	< 4.0	Ŭ	< 5.3	U	< 5.3	Ŭ	< 5.4	Ŭ	< 4.5	U	< 4.3	U	< 5.8	U
1.3.5-Trimethylbenzene	108-67-8	190.000	8,400	< 5.3	Ū	< 4.8	Ū	< 3.7	Ū	< 4.2	Ū	< 3.8	Ū	< 5.7	Ū	< 4.0	Ū	< 5.3	Ū	< 5.3	Ū	< 5.4	Ū	< 4.5	Ū	< 4.3	Ū	< 5.8	Ū
1,3-Dichlorobenzene	541-73-1	280,000	2,400	3.3	J	3.3	J	< 3.7	U	< 4.2	U	< 3.8	U	< 5.7	U	< 4.0	U	< 5.3	U	< 5.3	U	< 5.4	U	< 4.5	U	< 4.3	U	< 5.8	U
1,3-Dichloropropane	142-28-9	-	300	< 5.3	U	< 4.8	U	< 3.7	U	< 4.2	U	< 3.8	U	< 5.7	U	< 4.0	U	< 5.3	U	< 5.3	U	< 5.4	U	< 4.5	U	< 4.3	U	< 5.8	U
1,4-Dichlorobenzene	106-46-7	130,000	1,800	10		9.7		< 3.7	U	< 4.2	U	< 3.8	U	< 5.7	U	< 4.0	U	< 5.3	U	< 5.3	U	< 5.4	U	< 4.5	U	< 4.3	U	< 5.8	U
2,2-Dichloropropane	594-20-7	-	-	< 5.3	U	< 4.8	U	< 3.7	U	< 4.2	U	< 3.8	U	< 5.7	U	< 4.0	U	< 5.3	U	< 5.3	U	< 5.4	U	< 4.5	U	< 4.3	U	< 5.8	U
2-Chlorotoluene	95-49-8	-	-	< 5.3	U	< 4.8	U	< 3.7	U	< 4.2	U	< 3.8	U	< 5.7	U	< 4.0	U	< 5.3	U	< 5.3	U	< 5.4	U	< 4.5	U	< 4.3	U	< 5.8	U
2-Hexanone	591-78-6	-	-	< 26	U	< 24	U	< 19	U	< 21	U	< 19	U	< 29	U	< 20	U	< 27	U	< 26	U	< 27	U	< 22	U	< 21	U	< 29	
2-Isopropyitoluene	527-84-4	-	-	< 5.3	U	< 4.8	U	< 3.7	U	< 4.2	U	< 3.8	U	< 5.7	U	< 4.0	U	< 5.3	U	< 5.3	U	< 5.4	U 11	< 4.5	U	< 4.3	U	< 5.8	
4-Chiorotoluene 4-Methyl-2-pentanone	108-10-1	-	1.000	< 3.5	U	< 24	U	< 1.7	U	< 4.2	U	< 10	U	< 20	U	< 20	U	< 3.3	U	< 3.3	U	< 27	U	< 4.5	U	< 21	U	< 29	U
Acetone	67-64-1	500.000	50	7.4	JS	16	JS	13	JS	< 21	U	< 19	U	< 29	Ŭ	< 20	U	< 27	U	< 26	Ŭ	5.9	JS	< 22	U	6.0	JS	7.0	JS
Acrylonitril	107-13-1	-	-	< 11	U	< 9.5	U	< 7.4	U	< 8.4	Ŭ	< 7.5	Ŭ	< 11	Ŭ	< 7.9	Ŭ	< 11	Ŭ	< 11	Ŭ	< 11	U	< 8.9	Ŭ	< 8.5	U	< 12	U
Benzene	71-43-2	44,000	60	< 5.3	U	< 4.8	U	< 3.7	U	< 4.2	U	< 3.8	U	< 5.7	U	< 4.0	U	< 5.3	U	< 5.3	U	< 5.4	U	< 4.5	U	< 4.3	U	< 5.8	U
Bromobenzene	108-86-1	-	-	< 5.3	U	< 4.8	U	< 3.7	U	< 4.2	U	< 3.8	U	< 5.7	U	< 4.0	U	< 5.3	U	< 5.3	U	< 5.4	U	< 4.5	U	< 4.3	U	< 5.8	U
Bromochloromethane	74-97-5	-	-	< 5.3	U	< 4.8	U	< 3.7	U	< 4.2	U	< 3.8	U	< 5.7	U	< 4.0	U	< 5.3	U	< 5.3	U	< 5.4	U	< 4.5	U	< 4.3	U	< 5.8	U
Bromodichloromethan	75-27-4	-	-	< 5.3	U	< 4.8	U	< 3.7	U	< 4.2	U	< 3.8	U	< 5.7	U	< 4.0	U	< 5.3	U	< 5.3	U	< 5.4	U	< 4.5	U	< 4.3	U	< 5.8	U
Bromoform	75-25-2	-	-	< 5.3	U	< 4.8	U	< 3.7	U	< 4.2	U	< 3.8	U	< 5.7	U	< 4.0	U	< 5.3	U	< 5.3	U	< 5.4	U	< 4.5	U	< 4.3	U	< 5.8	
Bromomethane	74-83-9	-	-	< 5.3	U	< 4.8	U	< 3.7	U	< 4.2	U	< 3.8	U	< 5.7	U	< 4.0	U	< 5.3	U	< 5.3	U	< 5.4	U	< 4.5	U	< 4.3	<u>U</u>	< 5.8	
Carbon disulfide	<u> </u>	22,000	2,700	< 5.3	U	< 4.8	U	< 3.7	U	< 4.2	U	< 3.8	U	< 5.7	U	< 4.0	U	< 5.3	U	< 5.3	U	< 5.4	U	< 4.5	U	< 4.3	U	< 5.8	
Chlorobenzene	108-90-7	500,000	1 100	< 5.3	U	< 4.8	U	< 3.7	U	< 4.2	U	< 3.8	U	< 5.7	U	< 4.0	U	< 5.3	U	< 5.3	U	< 5.4	U	< 4.5	U	< 4.5	U	< 5.8	
Chloroethane	75-00-3	-	-	< 5.3	Ŭ	< 4.8	U	< 3.7	U	< 4.2	U	< 3.8	Ŭ	< 5.7	Ŭ	< 4.0	Ŭ	< 5.3	U	< 5.3	Ŭ	< 5.4	Ŭ	< 4.5	U	< 4.3	U	< 5.8	U
Chloroform	67-66-3	350.000	370	< 5.3	Ū	< 4.8	Ū	< 3.7	Ū	< 4.2	Ū	< 3.8	Ū	< 5.7	Ū	< 4.0	Ū	< 5.3	Ū	< 5.3	Ū	< 5.4	Ū	< 4.5	Ū	< 4.3	Ū	< 5.8	Ū
Chloromethane	74-87-3	-	-	< 5.3	U	< 4.8	U	< 3.7	U	< 4.2	U	< 3.8	U	< 5.7	U	< 4.0	U	< 5.3	U	< 5.3	U	< 5.4	U	< 4.5	U	< 4.3	U	< 5.8	U
cis-1,2-Dichloroethene	156-59-2	500,000	250	1.7	J	1.2	J	1.8	J	< 4.2	U	< 3.8	U	< 5.7	U	< 4.0	U	2.1	J	< 5.3	U	2.0	J	1.7	J	5.9		28	
cis-1,3-Dichloropropene	10061-01-5	-	-	< 5.3	U	< 4.8	U	< 3.7	U	< 4.2	U	< 3.8	U	< 5.7	U	< 4.0	U	< 5.3	U	< 5.3	U	< 5.4	U	< 4.5	U	< 4.3	U	< 5.8	U
Dibromochloromethan	124-48-1	-	-	< 5.3	U	< 4.8	U	< 3.7	U	< 4.2	U	< 3.8	U	< 5.7	U	< 4.0	U	< 5.3	U	< 5.3	U	< 5.4	U	< 4.5	U	< 4.3	U	< 5.8	U
Dibromomethane	74-95-3	-	-	< 5.3	U	< 4.8	U	< 3.7	U	< 4.2	U	< 3.8	U	< 5.7	U	< 4.0	U	< 5.3	U	< 5.3	U	< 5.4	U	< 4.5	U	< 4.3	U	< 5.8	
Dichlorodifiuoromethan:	/5-/1-8	200.000	-	< 5.3	U	< 4.8	U	< 3.7	U	< 4.2	U	< 3.8	U	< 5.7	U	< 4.0	U	< 5.3	U	< 5.3	U	< 5.4	U	< 4.5	U	< 4.3	U	< 5.8	
Hexachlorobutadiene	87-68-3	390,000	1,000	57	0	36	I	< 3.7	U U	< 4.2	II	< 3.8	II	< 5.7	U U	< 4.0	U U	< 5.3	U	< 5.3	U	< 5.4	U	< 4.5	U	< 4 3	U	< 5.8	U
Isopropylbenzene	98-82-8	-	2.300	< 5.3	U	< 4.8	Ŭ	< 3.7	U	< 4.2	U	< 3.8	Ŭ	< 5.7	Ŭ	< 4.0	Ŭ	< 5.3	U	< 5.3	Ŭ	< 5.4	Ŭ	< 4.5	U	< 4.3	U	< 5.8	U
m&p-Xylene	179601-23-1	500.000	1 (00	< 5.3	Ū	< 4.8	Ū	< 3.7	Ū	< 4.2	Ū	< 3.8	Ū	< 5.7	Ū	< 4.0	Ū	< 5.3	Ū	< 5.3	Ū	< 5.4	U	< 4.5	U	< 4.3	U	< 5.8	U
o-Xylene	95-47-6	500,000	1,600	< 5.3	U	< 4.8	U	< 3.7	U	< 4.2	U	< 3.8	U	< 5.7	U	< 4.0	U	< 5.3	U	< 5.3	U	< 5.4	U	< 4.5	U	< 4.3	U	< 5.8	U
Methyl Ethyl Keton	78-93-3	500,000	300	< 32	U	< 29	U	< 22	U	< 25	U	< 23	U	< 34	U	< 24	U	< 32	U	< 32	U	< 32	U	< 27	U	< 26	U	< 35	U
Methyl t-butyl ether (MTBE)	1634-04-4	500,000	930	< 11	U	< 9.5	U	< 7.4	U	< 8.4	U	< 7.5	U	< 11	U	< 7.9	U	< 11	U	< 11	U	< 11	U	< 8.9	U	< 8.5	U	< 12	U
Methylene chloride	75-09-2	500,000	50	< 5.3	U	< 4.8	U	< 3.7	U	< 4.2	U	< 3.8	U	< 5.7	U	< 4.0	U	< 5.3	U	< 5.3	U	< 5.4	U	< 4.5	U	< 4.3	U	< 5.8	
Naphthalene	91-20-3	500,000	12,000	< 5.3	U	< 4.8	U	< 3.7	U	< 4.2	U	< 3.8	U	< 5.7	U	< 4.0	U	< 5.3	U	< 5.3	U	< 5.4	U	< 4.5	U	< 4.3	U	< 5.8	
n-Butylbenzene	104-51-8	500,000	12,000	< 5.3	U	< 4.8	U	< 3.7	U	< 4.2	U	< 3.8	U	< 5.7	U	< 4.0	U	< 5.3	U	< 5.3	U	< 5.4	U	< 4.5	U	< 4.5	U	< 5.8	
n-Isopropyltoluene	99-87-6	500,000	10,000	< 5.3	U	< 4.8	U	< 3.7	U	< 4.2	U	< 3.8	U	< 5.7	U	< 4.0	U	< 5.3	U	< 5.3	U	< 5.4	U	< 4.5	U	< 4.3	U	< 5.8	U
sec-Butylbenzene	135-98-8	500.000	11.000	< 5.3	Ŭ	< 4.8	Ŭ	< 3.7	U	< 4.2	U	< 3.8	Ŭ	< 5.7	Ŭ	< 4.0	Ŭ	< 5.3	U	< 5.3	Ŭ	< 5.4	Ŭ	< 4.5	U	< 4.3	U	< 5.8	U
Styrene	100-42-5	-	-	< 5.3	Ū	< 4.8	Ū	< 3.7	Ū	< 4.2	Ū	< 3.8	Ū	< 5.7	Ū	< 4.0	Ū	< 5.3	Ū	< 5.3	Ū	< 5.4	U	< 4.5	U	< 4.3	U	< 5.8	U
tert-Butylbenzene	98-06-6	500,000	5,900	< 5.3	U	< 4.8	U	< 3.7	U	< 4.2	U	< 3.8	U	< 5.7	U	< 4.0	U	< 5.3	U	< 5.3	U	< 5.4	U	< 4.5	U	< 4.3	U	< 5.8	U
Tetrachloroethene	127-18-4	150,000	1,300	5,900		1,400		62		20		13		2.9	J	< 4.0	U	4.9	J	< 5.3	U	4.2	J	3.3	J	8.8		16	
Tetrahydrofuran (THF)	109-99-9	-	-	< 11	U	< 9.5	U	< 7.4	U	< 8.4	U	< 7.5	U	<11	U	< 7.9	U	< 11	U	< 11	U	< 11	U	< 8.9	U	< 8.5	U	< 12	U
Toluene	108-88-3	500,000	700	< 5.3	U	< 4.8	U	< 3.7	U	< 4.2	U	< 3.8	U	< 5.7	U	< 4.0	U	< 5.3	U	< 5.3	U	< 5.4	U	< 4.5	U	< 4.3	U	< 5.8	U
trans-1,2-Dichloroethene	156-60-5	500,000	190	< 5.3	U	< 4.8	U	< 3.7	U	< 4.2	U	< 3.8	U	< 5.7	U	< 4.0	U	< 5.3	U	< 5.3	U	< 5.4	U	< 4.5	U	< 4.3	U	< 5.8	U
trans-1,3-Dichloropropene	10061-02-6	-	-	< 5.3	U	< 4.8	U	< 3.7	U	< 4.2	U	< 3.8	U	< 5.7	U	< 4.0	U	< 5.3	U	< 5.3	U	< 5.4	U	< 4.5	U	< 4.3	U	< 5.8	
Trichloroothon:	70.01.6	200.000	- 470	< 11	U T	< 9.5	U	< /.4	U T	< 8.4	U	< 7.5	U	< 11	U	< 7.9	U	<u> </u>	U	< 11	U	< 11 20	U T	< 8.9	U	< 8.5	<u> </u>	< 12 0.0	
Trichlorofluoromethan	75-69-4	200,000	4/0	< 5.3	J	3.8 < 4.8	U	< 3.7	J U	< 4.2	U	< 3.8	U	< 5.7	U	< 4.0	U U	< 5 3	J	< 5.3	U	< 5.4	J	1./ < 4.5	J	< 4 3	U	9.9 < 5.8	U
Trichlorotrifluoroethan	76-13-1		-	< 5.3	U	< 4.8	П	< 3.7	U U	< 4.2	U	< 3.8	U	< 5.7	U	< 4.0	U U	< 5 3	U	< 5 3	U	< 5.4	Ŭ	< 4.5	U	< 4.3	U	< 5.8	U U
Vinvl chloride	75-01-4	13.000	20	< 5.3	Ŭ	< 4.8	Ŭ	< 3.7	Ũ	< 4.2	Ŭ	< 3.8	Ŭ	< 5.7	Ŭ	< 4.0	Ŭ	< 5 3	Ũ	< 5.3	Ū	< 5.4	Ū	< 4.5	Ū	< 4 3	- U	< 5.8	Ū

 Notes:

 Results reported in micrograms per kilogram (µg/Kg

 CAS - Chemical Abstracts Service

 NYSDEC - New York State Department of Environmental Conservatio

 Samples were analyzed by U.S. Environmental Protection Agency (EPA) Method 503

 - NYSDEC Soil Cleanup Objective (SCO) has not been establisher

 Q - Laboratory qualifier

 U - The compound was not detected above the laboratory Reporting Limit (RI

 J - The result provided is estimated below the RI

 S - Laboratory solvent; cross-contamination is possibl

 * - The RL for this compound is greater than the NYSDEC Unrestricted Use Soil Cleanup (

 Bold results indicate those detected above the RI

 Highlighted results indicate those detected above Commercial and/or Protection of Groundy

Table 1 Summary of Soil Analysis - Volatile Organic Compounds (VOCs)

	0.5	NYSDEC S Obje	Soil Cleanup ectives	GB-11 (14	4-14.5')	GB-11 (3	2-32.5')	GB-12 (1	5.5-16')	GB-12 (30.2	25-30.75')	GB-13 (14	-14.5')	GB-13 (28.7	5-29.25')	GB-14 (14	-14.5')	GB-14 (28	.5-29')
Chemical Compound	CAS	0.5	.cures	5/14/2	019	5/14/2	2019	5/15/2	019	5/15/2	019	5/15/2	019	5/15/20	019	5/22/2	019	5/22/20)19
		Commercial Use	Protection of Groundwater	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
1,1,1,2-Tetrachloroethane	630-20-6	-	-	< 5.1	U	< 4.8	U	< 5.7	U	< 5.2	U	< 6.7	U	< 5.8	U	< 4.9	U	< 4.7	U
1,1,1-Trichloroethane	71-55-6	500,000	680	< 5.1	U	< 4.8	U	< 5.7	U	< 5.2	U	< 6.7	U	< 5.8	U	< 4.9	U	< 4.7	U
1,1,2,2-Tetrachloroethane	79-34-5	-	600	< 5.1	U	< 4.8	U	< 5.7	U	< 5.2	U	< 6.7	U	< 5.8	U	< 4.9	U	< 4.7	U
1,1,2-Trichloroethane	79-00-5	-		< 5.1	U	< 4.8	U	< 5.7	U	< 5.2	U	< 6.7	U	< 5.8	U	< 4.9	U	< 4./	
1.1-Dichloroethens	75-35-4	500,000	330	< 5.1	U	< 4.8	U	< 5.7	U	< 5.2	U	< 6.7	U	< 5.8	U	< 4.9	U	< 4.7	U
1.1-Dichloropropene	563-58-6	-	-	< 5.1	Ŭ	< 4.8	U	< 5.7	Ŭ	< 5.2	Ŭ	< 6.7	U	< 5.8	U	< 4.9	Ŭ	< 4.7	Ŭ
1,2,3-Trichlorobenzene	87-61-6	-	-	< 5.1	Ū	< 4.8	Ū	< 5.7	Ū	< 5.2	Ū	< 6.7	Ū	< 5.8	Ū	< 4.9	Ū	< 4.7	Ū
1,2,3-Trichloropropane	96-18-4	-	340	< 5.1	U	< 4.8	U	< 5.7	U	< 5.2	U	< 6.7	U	< 5.8	U	< 4.9	U	< 4.7	U
1,2,4-Trichlorobenzene	120-82-1	-	3,400	< 5.1	U	< 4.8	U	< 5.7	U	< 5.2	U	< 6.7	U	< 5.8	U	< 4.9	U	< 4.7	U
1,2,4-Trimethylbenzene	95-63-6	190,000	3,600	< 5.1	U	< 4.8	U	< 5.7	U	< 5.2	U	< 6.7	U	< 5.8	U	< 4.9	U	< 4.7	U
1,2-Dibromo-3-chloropropane	96-12-8	-	-	< 5.1	U	< 4.8	U	< 5.7	U	< 5.2	U	< 6.7	U	< 5.8	U	< 4.9	U	< 4.7	
1,2-Dibromoethane	106-93-4	-	-	< 5.1	U	< 4.8	U	< 5.7	U	< 5.2	U	< 6.7	U	< 5.8	U	< 4.9	U	< 4./	
1,2-Dichloroethans	107-06-2	30,000	20	< 5.1	U	< 4.8	U	< 5.7	U	< 5.2	U	< 6.7	U	< 5.8	U	< 4.9	U	< 4.7	U
1,2-Dichloropropane	78-87-5	-	-	< 5.1	Ŭ	< 4.8	U	< 5.7	Ŭ	< 5.2	Ŭ	< 6.7	U	< 5.8	U	< 4.9	Ŭ	< 4.7	Ŭ
1,3,5-Trimethylbenzene	108-67-8	190,000	8,400	< 5.1	U	< 4.8	U	< 5.7	U	< 5.2	U	< 6.7	U	< 5.8	U	< 4.9	U	< 4.7	U
1,3-Dichlorobenzene	541-73-1	280,000	2,400	< 5.1	U	< 4.8	U	< 5.7	U	< 5.2	U	< 6.7	U	< 5.8	U	< 4.9	U	< 4.7	U
1,3-Dichloropropane	142-28-9	-	300	< 5.1	U	< 4.8	U	< 5.7	U	< 5.2	U	< 6.7	U	< 5.8	U	< 4.9	U	< 4.7	U
1,4-Dichlorobenzene	106-46-7	130,000	1,800	< 5.1	U	< 4.8	U	< 5.7	U	< 5.2	U	< 6.7	U	< 5.8	U	< 4.9	U	< 4.7	U
2,2-Dichloropropane	594-20-7	-	-	< 5.1	U	< 4.8	U	< 5.7	U	< 5.2	U	< 6.7	U	< 5.8	U	< 4.9	U	< 4.7	U
2-Chlorotoluene	95-49-8	-	-	< 5.1	U	< 4.8	U	< 5.7	U	< 5.2	U	< 6.7	U	< 5.8	U	< 4.9	U	< 4./	
2-nexanone 2-Isopropyltoluen	527-84-4	-	-	< 5.1	U	< 4.8	U	< 5.7	U	< 5.2	U	< 6.7	U	< 5.8	U	< 4.9	U	< 4 7	U
4-Chlorotoluene	106-43-4	-	-	< 5.1	Ŭ	< 4.8	U	< 5.7	Ŭ	< 5.2	Ŭ	< 6.7	U	< 5.8	U	< 4.9	Ŭ	< 4.7	Ŭ
4-Methyl-2-pentanone	108-10-1	-	1,000	< 25	U	< 24	U	< 28	U	< 26	U	< 33	U	< 29	U	< 24	U	< 24	U
Acetone	67-64-1	500,000	50	< 25	U	< 24	U	5.8	JS	5.4	JS	< 33	U	< 29	U	< 24	U	< 24	U
Acrylonitrile	107-13-1	-	-	< 10	U	< 9.6	U	< 11	U	< 10	U	< 13	U	< 12	U	< 9.8	U	< 9.5	U
Benzene	71-43-2	44,000	60	< 5.1	U	< 4.8	U	< 5.7	U	< 5.2	U	< 6.7	U	< 5.8	U	< 4.9	U	< 4.7	U
Bromobenzene	108-86-1	-	-	< 5.1	U	< 4.8	U	< 5.7	U	< 5.2	U	< 6.7	U	< 5.8	U	< 4.9	U	< 4.7	U
Bromochloromethane Promodiabloromethane	74-97-5	-	-	< 5.1	U	< 4.8	U	< 5.7	U	< 5.2	U	< 6.7	U	< 5.8	U	< 4.9	U	< 4./	
Bromoform	75-25-2	-	-	< 5.1	U	< 4.8	U	< 5.7	Ŭ	< 5.2	U	< 6.7	U	< 5.8	Ŭ	< 4.9	Ŭ	< 4.7	Ŭ
Bromomethane	74-83-9	-	-	< 5.1	Ŭ	< 4.8	Ŭ	< 5.7	Ŭ	< 5.2	Ŭ	< 6.7	Ŭ	< 5.8	Ŭ	< 4.9	Ŭ	< 4.7	Ŭ
Carbon disulfide	75-15-0	-	2,700	< 5.1	U	< 4.8	U	< 5.7	U	< 5.2	U	< 6.7	U	< 5.8	U	< 4.9	U	< 4.7	U
Carbon tetrachloride	56-23-5	22,000	760	< 5.1	U	< 4.8	U	< 5.7	U	< 5.2	U	< 6.7	U	< 5.8	U	< 4.9	U	< 4.7	U
Chlorobenzene	108-90-7	500,000	1,100	< 5.1	U	< 4.8	U	< 5.7	U	< 5.2	U	< 6.7	U	< 5.8	U	< 4.9	U	< 4.7	U
Chloroethane	75-00-3	-	-	< 5.1	U	< 4.8	U	< 5.7	U	< 5.2	U	< 6.7	U	< 5.8	U	< 4.9	U	< 4.7	
Chloroform	6/-66-3	350,000	370	< 5.1	U	< 4.8	U	< 5.7	U	< 5.2	U	< 6.7	U	< 5.8	U	< 4.9	U	< 4./	
cis-1 2-Dichloroethene	156-59-2	500.000	250	2.1	J	28	0	< 5.7	U	< 5.2	U	< 6.7	U	< 5.8	U	< 4.9	U	< 4.7	U
cis-1,3-Dichloropropens	10061-01-5	-	-	< 5.1	Ŭ	< 4.8	U	< 5.7	Ŭ	< 5.2	Ŭ	< 6.7	Ŭ	< 5.8	Ŭ	< 4.9	Ŭ	< 4.7	Ŭ
Dibromochloromethane	124-48-1	-	-	< 5.1	U	< 4.8	U	< 5.7	U	< 5.2	U	< 6.7	U	< 5.8	U	< 4.9	U	< 4.7	U
Dibromomethane	74-95-3	-	-	< 5.1	U	< 4.8	U	< 5.7	U	< 5.2	U	< 6.7	U	< 5.8	U	< 4.9	U	< 4.7	U
Dichlorodifluoromethan	75-71-8	-	-	< 5.1	U	< 4.8	U	< 5.7	U	< 5.2	U	< 6.7	U	< 5.8	U	< 4.9	U	< 4.7	U
Ethylbenzene	100-41-4	390,000	1,000	< 5.1	U	< 4.8	U	< 5.7	U	< 5.2	U	< 6.7	U	< 5.8	U	< 4.9	U	< 4.7	U
Hexachlorobutadiene	87-68-3	-	-	< 5.1	U	< 4.8	U	< 5.7	U	< 5.2	U	< 6.7	U	< 5.8	U	< 4.9	U	< 4./	U
m&n-Xylene	98-82-8 179601-23-1	-	2,500	< 5.1	U	< 4.8	U	< 5.7	U	< 5.2	U	< 6.7	U	< 5.8	U	< 4.9	U	< 4.7	U
o-Xvlene	95-47-6	500,000	1,600	< 5.1	Ŭ	< 4.8	Ŭ	< 5.7	Ŭ	< 5.2	Ŭ	< 6.7	Ŭ	< 5.8	Ŭ	< 4.9	Ŭ	< 4.7	Ŭ
Methyl Ethyl Ketone	78-93-3	500,000	300	< 30	U	< 29	U	< 34	U	< 31	U	< 40	U	< 35	U	< 29	U	< 28	U
Methyl t-butyl ether (MTBE)	1634-04-4	500,000	930	< 10	U	< 9.6	U	< 11	U	< 10	U	< 13	U	< 12	U	< 9.8	U	< 9.5	U
Methylene chloride	75-09-2	500,000	50	< 5.1	U	< 4.8	U	< 5.7	U	< 5.2	U	< 6.7	U	< 5.8	U	< 4.9	U	< 4.7	U
Naphthalene	91-20-3	500,000	12,000	< 5.1	U	< 4.8	U	< 5.7	U	< 5.2	U	< 6.7	U	< 5.8	U	< 4.9	U	< 4.7	U
n-Butylbenzene	104-51-8	500,000	12,000	< 5.1	U	< 4.8	U	< 5.7	U	< 5.2	U	< 6.7	U	< 5.8	U	< 4.9	U	< 4.7	
n-Propylbenzene	103-65-1	500,000	3,900	< 5.1	U	< 4.8	U	< 5.7	U	< 5.2	U	< 6.7	U	< 5.8	U	< 4.9	U	< 4./	
sec-Butylbenzene	135-98-8	500.000	11,000	< 5.1	U U	< 4.8 < 4.8	U	< 5.7	U	< 5.2	U U	< 6.7	U	< 5.8	U	< 4.9	U	< 4./	U
Styrene	100-42-5	-	-	< 5.1	Ŭ	< 4.8	Ŭ	< 5.7	Ŭ	< 5.2	Ŭ	< 6.7	Ŭ	< 5.8	Ŭ	< 4.9	Ŭ	< 4.7	Ŭ
tert-Butylbenzene	98-06-6	500,000	5,900	< 5.1	U	< 4.8	U	< 5.7	U	< 5.2	U	< 6.7	U	< 5.8	U	< 4.9	U	< 4.7	U
Tetrachloroethene	127-18-4	150,000	1,300	1.2	J	18		< 5.7	U	< 5.2	U	1.7	J	8.7		4.3	J	15	
Tetrahydrofuran (THF)	109-99-9	-	-	< 10	U	< 9.6	U	< 11	U	< 10	U	< 13	U	< 12	U	< 9.8	U	< 9.5	U
Toluene	108-88-3	500,000	700	< 5.1	U	< 4.8	U	< 5.7	U	< 5.2	U	< 6.7	U	< 5.8	U	< 4.9	U	< 4.7	U
trans-1,2-Dichloroethene	156-60-5	500,000	190	< 5.1	U	< 4.8	U	< 5.7	U	< 5.2	U	< 6.7	U	< 5.8	U	< 4.9	U	< 4.7	U
trans-1,3-Dichloropropene	10061-02-6		-	< 5.1	U	< 4.8	U	< 5.7	U	< 5.2	U	< 6.7	U	< 5.8	U	< 4.9	U	< 4.7	U
trans-1,4-dichloro-2-butene	70.01.6	200.000	- 470	< 10	U T	< 9.6	U	< 11	U	< 10	U	< 13	U	< 12	U	< 9.8	U	< 9.5	U
Trichlorofluoromethan	75-69-4	200,000	4/0	< 5.1	J	< 4.8	U	< 5.7	U	< 5.2	U U	< 6.7	U	< 5.8	U	< 4.9	U	< 4./	U
Trichlorotrifluoroethan	76-13-1	-	-	< 5.1	Ŭ	< 4.8	Ŭ	< 5.7	Ŭ	< 5.2	Ŭ	< 6.7	Ŭ	< 5.8	Ŭ	< 4.9	Ū	< 4.7	Ŭ
Vinvl chloride	75-01-4	13.000	20	< 5.1	Ū	< 4.8	Ū	< 5.7	Ū	< 5.2	Ū	< 6.7	Ū	< 5.8	Ū	< 4.9	Ū	< 4.7	Ū

 Notes;

 Results reported in micrograms per kilogram (μg/Kg

 CAS - Chemical Abstracts Service

 NYSDEC - New York State Department of Environmental Conservatio

 Samples were analyzed by U.S. Environmental Protection Agency (EPA) Method 503

 - NYSDEC Soil Cleanup Objective (SCO) has not been establisher

 Q - Laboratory qualifier

 U - The compound was not detected above the laboratory Reporting Limit (RL

 J - The result provided is estimated below the RI

 S - Laboratory solvent; cross-contamination is possibl

 * - The RL for this compound is greater than the NYSDEC Unrestricted Use Soil Cleanup (

 Bold results indicate those detected above the RI

 Highlighted results indicate those detected above Commercial and/or Protection of Groundy

Table 2

Summary of Groundwater Analysis – Volatile Organic Compounds (VOCs)

Table 2 Summary of Groundwater Analysis - Volatile Organic Compounds (VOCs)

Chemical Compound	CAS	NYSDEC Class GA Ambient Water Quality	TMW-	1	DUPLICAT 05171	TE GW 9	TMW	-2	TMW	-3	DUPLICAT 051620	TE GW 19	TMW	-4	TMW	-5	TMW-	6	DUPLICAT 05141	TE GW 9	TMW	-7	DUPLICA? 05151	FE GW 19
		Standard/Guidance Value	5/17/20	19	5/17/20	19	5/15/20	019	5/16/20	19	5/16/20	19	5/16/20)19	5/17/20	19	5/14/201	19	5/14/20	19	5/15/20	19	5/15/20)19
1.1.1.2-Tetrachloroethane	630-20-6	5	Kesult ≤ 1.0	U U	Kesult < 1.0	U U	Kesult < 1.0	0	Kesult < 1.0	U U	Kesult < 1.0	<u>0</u>	Kesult < 1.0	U U	Kesult < 1.0	U U	<pre>Result <10</pre>	0	Kesult ≤ 1.0	U U	Kesult ≤ 1.0	U U	<u>Result</u> ≤ 1.0	<u>0</u>
1,1,1-Trichloroethane	71-55-6	5	< 5.0	U	< 5.0	U	< 5.0	U	< 5.0	U	< 5.0	U	< 5.0	U	< 5.0	U	< 5.0	U	< 5.0	U	< 5.0	U	< 5.0	U
1.1.2.2-Tetrachloroethane	79-34-5	5	< 1.0	U	< 1.0	U	< 1.0	Ū	< 1.0	U	< 1.0	U	< 1.0	Ū	< 1.0	Ū	< 1.0	U	< 1.0	Ū	< 1.0	U	< 1.0	U
1,1,2-Trichloroethane	79-00-5	1	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U
1,1-Dichloroethane	75-34-3	5	< 5.0	U	< 5.0	U	< 5.0	U	< 5.0	U	< 5.0	U	< 5.0	U	< 5.0	U	< 5.0	U	< 5.0	U	< 5.0	U	< 5.0	U
1,1-Dichloroethene	75-35-4	5	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U
1,1-Dichloropropene	563-58-6	5	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U
1,2,3-Trichlorobenzene	87-61-6	5	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U
1,2,3-Trichloropropane	96-18-4	0.04	< 0.25	U*	< 0.25	U*	< 0.25	U*	< 0.25	U*	< 0.25	U*	< 0.25	U*	< 0.25	U*	< 0.25	U*	< 0.25	U*	< 0.25	U*	< 0.25	U*
1,2,4-Trichlorobenzene	120-82-1	5	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U
1,2,4-1rimethylbenzene	95-63-6	5	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U
1.2 Dibromoethane	106 02 4	0.004	< 0.30	U* U*	< 0.30	11*	< 0.30	U*	< 0.30	U*	< 0.30	U*	< 0.30	11*	< 0.30	U*	< 0.30	11*	< 0.30	U*	< 0.30	11*	< 0.30	11*
1.2-Dichlorobenzene	95-50-1	3	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U
1,2-Dichloroethane	107-06-2	0.6	< 0.60	U	< 0.60	U	< 0.60	U	< 0.60	U	< 0.60	U	< 0.60	U	< 0.60	U	< 0.60	U	< 0.60	U	< 0.60	U	< 0.60	U
1,2-Dichloropropane	78-87-5	1	< 1.0	U	< 1.0	U	< 1.0	Ū	< 1.0	U	< 1.0	Ū	< 1.0	Ū	< 1.0	Ū	< 1.0	U	< 1.0	Ū	< 1.0	U	< 1.0	Ū
1,3,5-Trimethylbenzene	108-67-8	5	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U
1,3-Dichlorobenzene	541-73-1	3	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U
1,3-Dichloropropane	142-28-9	5	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U
1,4-Dichlorobenzene	106-46-7	3	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U
2,2-Dichloropropane	594-20-7	5	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U
2-Chlorotoluene	95-49-8	5	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U
2-Hexanone	591-78-6	50	< 2.5	U	< 2.5	U	< 2.5	U	< 2.5	U	< 2.5	U	< 2.5	U	< 2.5	U	< 2.5	U	< 2.5	U	< 2.5	U	< 2.5	U
2-Isopropyltoluene	527-84-4	5	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U
4-Chlorotoluene 4 Mathyl 2 nontonone (MIDK)	106-43-4	5	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U
A catona	67.64.1	- 50	< 5.0	U	< 5.0	U	< 5.0	U	< 5.0	U	< 5.0	U	< 5.0	U	< 5.0	U	< 5.0	U	< 5.0	U	< 5.0	U	< 5.0	U
Acrolein	107-02-8	5	< 5.0	U	< 5.0	U	< 5.0	U	< 5.0	U	< 5.0	U	< 5.0	U	< 5.0	U	< 5.0	U	< 5.0	U	< 5.0	U	< 5.0	U
Acrylonitrile	107-13-1	5	< 5.0	U	< 5.0	U	< 5.0	U	< 5.0	U	< 5.0	U	< 5.0	U	< 5.0	U	< 5.0	U	< 5.0	U	< 5.0	U	< 5.0	U
Benzene	71-43-2	1	< 0.70	U	< 0.70	U	< 0.70	Ū	< 0.70	U	< 0.70	Ū	< 0.70	Ū	< 0.70	Ū	< 0.70	U	< 0.70	Ū	< 0.70	U	< 0.70	Ū
Bromobenzene	108-86-1	5	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U
Bromochloromethane	74-97-5	5	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U
Bromodichloromethane	75-27-4	50	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U
Bromoform	75-25-2	50	< 5.0	U	< 5.0	U	< 5.0	U	< 5.0	U	< 5.0	U	< 5.0	U	< 5.0	U	< 5.0	U	< 5.0	U	< 5.0	U	< 5.0	U
Bromomethane	74-83-9	5	< 5.0	U	< 5.0	U	< 5.0	U	< 5.0	U	< 5.0	U	< 5.0	U	< 5.0	U	< 5.0	U	< 5.0	U	< 5.0	U	< 5.0	U
Carbon disulfide	75-15-0	60	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	0.31	J	< 1.0	U	< 1.0	U	< 1.0	U
Carbon tetrachloride	56-23-5	5	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U
Chlorobenzene	108-90-7	5	< 5.0	U	< 5.0	U	< 5.0	U	< 5.0	U	< 5.0	U	< 5.0	U	< 5.0	U	< 5.0	U	< 5.0	U	< 5.0	U	< 5.0	U
Chloroform	67-66-3	7	< 5.0	U	< 5.0	U	< 5.0	U	0.46	I	0.49	I	0.47	I	< 5.0	U	< 5.0	U	< 5.0	U	< 5.0	U	< 5.0	11
Chloromethane	74-87-3	5	< 5.0	U	< 5.0	U	< 5.0	U	< 5.0	U	< 5.0	U	< 5.0	U	< 5.0	U	< 5.0	U	< 5.0	U	< 5.0	U	< 5.0	U
cis-1.2-Dichloroethene	156-59-2	5	4.1	-	3.7		1.1		0.89	J	0.93	J	9.5	_	10		9.3	-	17	_	< 1.0	U	< 1.0	Ū
cis-1,3-Dichloropropene	10061-01-5	0.4**	< 0.40	U	< 0.40	U	< 0.40	U	< 0.40	U	< 0.40	U	< 0.40	U	< 0.40	U	< 0.40	U	< 0.40	U	< 0.40	U	< 0.40	U
Dibromochloromethane	124-48-1	50	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U
Dibromomethane	74-95-3	5	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U
Dichlorodifluoromethane	75-71-8	5	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U
Ethylbenzene	100-41-4	5	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U
Hexachlorobutadiene	87-68-3	0.5	< 0.50	U	< 0.50	U	< 0.50	U	< 0.50	U	< 0.50	U	< 0.50	U	< 0.50	U	< 0.50	U	< 0.50	U	< 0.50	U	< 0.50	U
msn Xylana	<u>98-82-8</u> 170601 22 1	5	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U 11
Methyl Ethyl Ketone	78-93-3	50	< 2.5	11	< 2.5	U	< 2.5	U TT	< 2.5	U II	< 2.5	U II	< 2.5	U	< 2.5	U	< 2.5	U	< 2.5	U II	< 2.5	U	< 2.5	11
Methyl t-butyl ether (MTRE)	1634-04-4	10	46		41		49	0	21		2.5		<1.0	U	< 1.0	U	<1.0	U	< 1.0	П	58		2.5	<u> </u>
Methylene chloride	75-09-2	5	< 3.0	U	< 3.0	U	< 3.0	U	< 3.0	U	< 3.0	U	< 3.0	Ŭ	< 3.0	Ŭ	< 3.0	Ŭ	< 3.0	Ŭ	< 3.0	U	< 3.0	U
Naphthalene	91-20-3	10	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U
n-Butylbenzene	104-51-8	5	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U
n-Propylbenzene	103-65-1	5	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U
o-Xylene	95-47-6	5	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U
p-Isopropyltoluene	99-87-6	5	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U
sec-Butylbenzene	135-98-8	5	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U
Styrene	100-42-5	5	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U
tert-Butylbenzene	98-06-6	5	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U
Tetrachloroethene	127-18-4	5	57	¥Т	52	TT	140	τī	120	TT	130	TT	72	TT	13	ΤT	14	L.	24	ТT	< 1.0	U	< 1.0	U
Toluana	109-99-9	50	< 5.0	U	< 5.0	U	< 5.0	U	< 5.0	U	< 5.0	U	< 5.0	U	< 5.0	U	< 5.0	U	< 5.0	U	< 5.0	U	< 5.0	11
trans-1 2-Dichloroethene	108-88-3	5	0 32	T	0.32	T	< 5.0	U TT	< 5.0	U II	< 5.0	U II	< 1.0 0 50	T	\ \ 1.0	T	< 5.0	U	\ 1.0	T	< 5.0	U	< 5.0	11
trans-1.3-Dichloropropene	10061-02-6	0.4**	< 0.52	J	< 0.52	J	< 0.40	II	< 0.40	U	< 0.40	U	< 0.40	J U	< 0.04	J U	< 0.40	U	< 0.42	J	< 0.40	U	< 0.40	11
trans-1,4-dichloro-2-butene	110-57-6	5	< 2.5	U	< 2.5	Ŭ	< 2.5	U	< 2.5	U	< 2.5	U	< 2.5	U	< 2.5	U	< 2.5	Ŭ	< 2.5	U	< 2.5	Ŭ	< 2.5	U
Trichloroethene	79-01-6	5	4.1	1	3.9	1	2.9		3.3	1	3.4	1	17		9.6		7.1		13		< 1.0	U	< 1.0	U
Trichlorofluoromethane	75-69-4	5	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U
Trichlorotrifluoroethane	76-13-1	5	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U
Vinyl chloride	75-01-4	2	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U

 Notes:

 Results are reported in micrograms per liter (µg/L)

 CAS - Chemical Abstracts Service

 NYSDEC - New York State Department of Environmental Conservation

 Samples were analyzed by U.S. Environmental Protection Agency (EPA) Method 8260C.

 U - The compound was not detected above the laboratory Reporting Limit (RL)

 J - The result provided is estimated below the RL

 * - The RL for this compound is greater than the NYSDEC Standard

 ** - Applies to the sum of cis- and trans-1_3-dichloropropene

 - NYSDEC Standard/Guidance Value has not been established

 Bold results indicate those detected above the RI

 Highlighted results indicate those detected above NYSDEC Class GA Ambient Water Quality Standards/Guidance Values

Table 3

Summary of Groundwater Analysis – Emerging Contaminants (1,4-Dioxane and PFAS)

Table 3

Summary of Groundwater Analysis - Emerging Contaminants (1,4-Dioxane and PFAS)

Chemical Compound		NYSDOH Proposed	TMW-	1	TMW-	4	TMW-	5	TMW-	7	DUPLICAT	E GW
Chemical Compound	USEPA HAL	MCL	5/17/20	19	5/16/20	19	5/17/20	19	5/15/20	19	5/15/20	19
			Result	0	Result	0	Result	0	Result	0	Result	0
1,4-Dioxane	-	1 μg/L	< 0.20	Ū	< 0.20	Ū	< 0.20	U	< 0.20	Ū	< 0.20	Ū
PFAS Compounds												
Perfluorobutanesulfonic acid (PFBS)	-	-	5.9		5.3		3.0		4.9		5.1	
Perfluorohexanioc acid (PFHxA)	-	-	3.8		7.0		15		5.3		7.6	
Perfluoroheptanoic acid (PFHpA)	-	-	3.4		6.3		10		3.6		5.5	
Perfluorobutanoic acid (PFBA)	-	-	< 2.0	U	2.1		3.2		< 2.0	U	< 2.0	U
Perfluorodecanesulfonic acid (PFDS)	-	-	< 2.0	U	< 2.0	U						
Perfluoroheptanesulfonic acid (PFHpS)	-	-	4.7		2.5		2.5		4.7		5.3	
Perfluorooctanesulfonamide (FOSA)	-	-	3.3		2.4		< 2.0	U	< 2.0	U	< 2.0	U
Perfluoropentanoic acid (PFPeA)	-	-	2.9		6.7		13		8.0		< 2.0	U
6:2 Fluorotelomersulfonate (6:2 FTS)	-	-	3.9		< 2.0	U	< 2.0	U	< 2.0	U	< 2.0	U
8:2 Fluorotelomersulfonate (8:2 FTS)	-	-	< 2.0	U	< 2.0	U						
Perfluorohexanesulfonic acid (PFHxS)	-	-	5.2		2.2		4.2		3.5		4.2	
Perfluorooctanoic acid (PFOA)	70	10	20		32		41		17		23	
Perfluorooctanessulfonic acid (PFOS)	70	10	28		26		3.4		3.0		5.6	
Perfluorononanoic acid (PFNA)	-	-	< 2.0	U	2.7		< 2.0	U	< 2.0	U	< 2.0	U
Perfluorodecanoic acid (PFDA)	-	-	< 2.0	U	< 2.0	U						
N-MeFOSAA	-	-	< 2.0	U	< 2.0	U						
Perfluoroundecanoic acid (PFUnA)	-	-	< 2.0	U	< 2.0	U						
N-EtFOSAA	-	-	9.2		< 2.0	U	< 2.0	U	< 2.0	U	< 2.0	U
Perfluorododecanoic acid (PFDoA)	-	-	< 2.0	U	< 2.0	U						
Perfluorotridecanoic acid (PFTrDA)	-	-	< 2.0	U	< 2.0	U						
Perfluorotetradecanoic acid (PFTA)	_	_	< 2.0	U	< 2.0	U						

Notes:

Results are reported in nanograms per liter (ng/L)

USEPA - U.S. Environmental Protection Agency

HAL - Health Advisory Level

NYSDOH - New York State Department of Health

MCL - Maximum Contaminant Level

- HAL/MCL has not been established

U - The compound was not detected above the laboratory Reporting Limit (RL)

Bold results indicate those detected above the RL

Highlighted results indicate those detected above the NYSDOH proposed MCLs published in the July 24, 2019 Notice

of Proposed Rulemaking [Amendment of Subpart 5-1 of Title 10 NYCRR (Maximum Contaminant Levels (MCLs)]

Appendix A

Soil Boring Logs

BORINGWELL ID: GR.1 CLENT: 218 Lakeville Acquition, LC DPELL METHOD: Direct push via Geopone 722 DT PROJECT NMG: 218 Lakeville Rad DPELL METHOD: Direct push via Geopone 722 DT PROJECT NMG: Lake Subcess, NY SAMELING METHOD: Direct push via Geopone 722 DT PROJECT NMG: Lake Subcess, NY SAMELING METHODINTERVAL Dual-tube; 5' length DRILLING CONTRACTOR: Eastern Environmental Solutions, Inc. GOERD SYMERTER: JKR Bernet Total Solutions, Inc. COGED 9Y: REMARKS: Begin soil screening and logging at 10 ft bg Extern NITERVAL 728-34 bg SAND PACK SIZE AND MATERIAL: Filter Solution Pack NITE SEAL INTERVAL: 28-34 bg SAND FLOK SIZE AND MATERIAL: Procent Cases BENTONT TO a Cases STATIC WATER DEPTH: 20 20 DATE: 522/19 BENTON TO Cases STATIC WATER NEEPTH: 20 20 DATE: 522/19 DATE: 522/19 REMARKS: TIM-1 ABANDONMENT METHOD: N/A ABANDONMENT METHOD: N/A BESCRIPTVE LOG GRAPHIC CCLUMN CPTH DESCRIPTION OF MATERIAL: 10:15 bg 42 0.0 -10- -10- -	WALI	DEN E	NVIRC	ONMEN	ITAL E	ENGINE	ERING	SHEET: 1 OF 2
OATES DRILL EET: 3/17/19 PROJECT NAME: 218 Latewile Road DORING DUMMETER: 2: Direct path via Geoprobe 7822 UT PROJECT NO.: Lake Success, NY BORING DUMMETER: 2: WED PROJECT NO.: Lake Success, NY MAPLING METHOD/INTERVAL DUM-Hole, 5' length DRILLING CONTROL Lake Success, NY MARKINS: Begin soil screening and logging at 10 ft bg TEMPORARY WELL CONSTRUCTION INFORMATION SCREEN INTERVAL: 29.47 bg SCREEN SUCE AND MATERIAL: 5' of 1' dammeter 20-aid PVC SCREEN INTERVAL: 29.47 bg SCREEN SUCE AND MATERIAL: 5' of 1' dammeter 20-aid PVC SCREEN INTERVAL: 29.47 bg SAND PACK SUCE AND MATERIAL: 5' of 1' dammeter 20-aid PVC SCREEN INTERVAL: 27.28 bg SAND PACK SUCE AND MATERIAL: 5' of 1' dammeter 20-aid PVC SCREEN INTERVAL: 27.28 bg SAND PACK SUCE AND MATERIAL: 5' of 1' dammeter 20-aid PVC DATE: S/22/19 REHARKS: 'TAW'I TOTO 'TAR' ROUTE SCREEN INTERVAL: 27.28 bg SAND PACK SUCE RUL SAND PACK SUCE RUL SAND PACK SUCE RUL SAND PACK SUCE RUL SAND ATERIAL: TOTO 'AIR PAC SAND RUL	BORING/V	VELL I.D.:	GB-1				CLIENT:	218 Lakeville Acquisition, LLC
DRILL METHOD: Direct push via Geogrado F222 DT PROJECT NO2:: IMPLD116.6 IMPLD116.6 SAMELING METHODI/ITERVAL Dualvube; 5' longth DRILLING CONTRACTOR: Eastorn Environmental Solutions, Inc. SAMELING METHODI/ITERVAL Dualvube; 5' longth DRILLING CONTRACTOR: Eastorn Environmental Solutions, Inc. SAMELING METHODI/ITERVAL DUalvube; 5' longth DRILLING CONTRACTOR: Eastorn Environmental Solutions, Inc. SAMELING METHODI/ITERVAL: 50 MATION: SCREEN SIZE AND MATERIAL: Fibro Superior Ount? SCREEN SIZE AND CANCENT INFORMATION STATC WATER DEFTH: 20 20' DATE: SC2219 DATE: SC2219 DATE: SC2219 BEANDONMENT DATE: NIX TO THE SEAL INTERVAL: 27-28' bg STATC WATER OFFTH: 20.20' DATE: SC2219 SAMELING SUMMENT DATE: NIX TO THE SEAL INTERVAL: 27-28' bg SCREEN SIZE AND MATERIAL: 6' SCREEN SIZE AND MATERIAL: 6' BEANDONMENT DATE: NIX TO THE SEAL INTERVAL: 27-28' bg SCREEN SIZE AND MATERIAL: 6' ADATERIAL: 6' BEANDONMENT METHOR: NA ABANDONMENT METHOD: NA SCREEN SIZE AND MATERIAL: 6' ADATERIAL: 6' SAMELING SUMMERY METHOR <td< td=""><td>DATE(S)</td><td>ORILLED:</td><td>5/17/19</td><td></td><td></td><td></td><td>PROJECT NAME:</td><td>218 Lakeville Road</td></td<>	DATE(S)	ORILLED:	5/17/19				PROJECT NAME:	218 Lakeville Road
BORING DUMETER. 2' PROJECT LOCATION: Lake Success. NV UGGED BY: JUB Begin soil screening and logging at 10 fbg Setter	DRILL ME	THOD:	Direct pus	h via Geopro	be 7822 D	DT	PROJECT NO.:	IMPL0115.6
SAMPLING METHOD/INTERVAL Dual-kubs, 5' length DRILLING CONTRACTOR: Eastern Environmental Solutions, Inc. REMARKS: Begin soil screening and logging at 10 ft bg TEMPORARY WELL CONSTRUCTION INFORMATION SCREEN INTERVAL 22:34 bg SAND PACK SIZE AND MATERIAL: Filter Superior Quartz SCREEN SIZE AND MATERIAL: Filter Superior Quartz SAND PACK SIZE AND MATERIAL: Filter Superior Quartz SCREEN SIZE AND MATERIAL: Filter Superior Quartz STATIC WATER DEFTH: 29 20' DATE: 5/22/19 REMARKS: TAW-I BEANDONMENT DATE: N/A BANDONMENT DATE: N/A BANDONMENT METHOR: MATERIAL: PLANT ABANDONMENT DATE: N/A ABANDONMENT METHOR: MATERIAL: PLANT ABANDONMENT DATE: N/A BEANEY BANP, SLAX BANP SAMPE, SLAX REC. (N) PERKYL COUMN 0.0 COUMN 0.0 -12- 0.0 -12- 0.0 -12- 0.0 -15- 0.0 -16- 0.0 -16- 0.0 -16- 0.0 -16- 0.0 -16- <td< td=""><td>BORING D</td><td>DIAMETER:</td><td>2"</td><td></td><td></td><td></td><td>PROJECT LOCATION:</td><td>Lake Success, NY</td></td<>	BORING D	DIAMETER:	2"				PROJECT LOCATION:	Lake Success, NY
LIGGED PY: UBL CONSTRUCTION INFORMATION EMPARAMENCE EMPORATIVE WELL CONSTRUCTION INFORMATION SCREEN SIZE AND MATERIAL: 5 of 11 diameters 20:500 PVC SCREEN INTERVAL: 29:34 bg SCREEN DIATE SIZE AND MATERIAL: 5 of 11 diameters 20:500 PVC SCREEN INTERVAL: 29:34 bg SCREEN DIATE SIZE AND MATERIAL: 5 of 11 diameters 20:500 PVC SCREEN INTERVAL: 29:34 bg MEXPONNE TO CHAINER AND MATERIAL: 5 of 12 diameters 20:500 PVC SCREEN STRUCTION INFORMATION REMARKS: TAW- WELLOOREFH: 20 CHAINER INFORMATION NETHING: TAKEN INFORMATION NETHI	SAMPLING	G METHOD	/INTERVAI	Dual-tube;	5' length		DRILLING CONTRACTOR:	Eastern Environmental Solutions, Inc.
REMARKS Begin soil screening and logging at 10 ft bg TEMPORARY WELL CONTRUCTION INFORMATION SCREEN SIZE AND MATTERIAL: Fibro Superior Quartz SAND PACK NIZE AND MATTERIAL: Fibro Superior Quartz SAND PACK NIZE AND MATTERIAL: Fibro Superior Quartz SAND PACK NIZE SIZE AND MATTERIAL: Fibro Superior Quartz SAND PACK NIZE SIZE AND MATTERIAL: Fibro Superior Quartz SAND PACK NIZE SIZE AND MATTERIAL: Fibro Superior Quartz SAND PACK NIZE SIZE AND MATTERIAL: Fibro Superior Quartz SAND PACK NIZE SIZE AND MATTERIAL: Fibro Superior Quartz SAND PACK NIZE SIZE AND MATTERIAL: Fibro Superior Quartz SAND PACK NIZE SIZE AND MATTERIAL: Fibro Superior Quartz SAND PACK NIZE SIZE AND MATTERIAL: Fibro Superior Quartz SAND PACK NIZE SIZE AND MATTERIAL: Fibro Superior Quartz SAND PACK NIZE SIZE AND MATTERIAL: Fibro Superior Quartz SAND PACK NIZE SIZE AND MATTERIAL: Fibro Superior Quartz SAND PACK NIZE SIZE AND MATTERIAL: Fibro Superior Quartz SAND PACK NIZE SIZE AND MATTERIAL: Fibro Superior Quartz SAND PACK NIZE SIZE AND MATTERIAL: Fibro Superior Quartz Fibro Superior Quartz SAND PACK NIZE SIZE AND MATTERIAL: Fibro Superior Quartz F	LOGGED	BY:	JKB					
TEMPORARY WELL CONSTRUCTION INFORMATION SCREED NUTE RUAL: 5: 01 *1 diameter 20-301 PVC SCREEN INTERVAL: 29-34 bg SCREED XDM ATTERIAL: 5: 01 *1 diameter 20-301 PVC BENTONITE SEAL INTERVAL: 29-34 bg REF. POINT: Top of Casing BENTONITE SEAL INTERVAL: 27-28 bg REF. POINT: Top of Casing BENTONITE SEAL INTERVAL: 27-28 bg REMARKS: TMW-1 DATE: 5/22/19 MARLE: SMO MATERIAL: 50: 00 PDT AMAD ATE: MAC DATE: S/22/19 MARLE: SMOW MENT INFORMATION AMADONMENT INFORMATION AMAD COMMENT INFORMATION	REMARKS	6:	Begin soil	screening a	nd logging	at 10 ft bg		
Intervention (Intervention (Intervent	TEMPOR		CONCTRU		ODMATIO			
Solve EP 322 AND MATE HARLE'S OF 1 adiabative 20 sold PVC Solve EP NUE RVAC 494 bg SAND PACK SLE AND MATE HARLE'S OF 1 adiabative 20 sold PVC Solve EP NUE RVAC 494 bg SAND PACK SLE AND MATE HARLE'S OF 1 adiabative 20 sold PVC Solve EP NUE RVAC 494 bg REF. POINT: Top of Casing BENTONITE SEAL INTERVAL: 27-28 bg SAND PACK INTERVAL: 27-28 bg SAND PACK INTERVAL: 27-28 bg TOT WATE DEPTH: 20 0 MARLE STAW-1 WELL/DOREHOLE ASANDOMENT INFORMATION AANDONMENT DATE: N/A JABONOMENT DATE: N/A DESCRIPTIVE LOG SMARLE STAW-1 OBSCRIPTIVE LOG 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			CONSTRU					
SAMU PACK NULL 2004 BUE VACK TUENCAL 2004 UP Description of Casing BENTONITE SEAL INTERVAL 27-28 bg STATE WATER DEPTH: 23 20° DATE: 6/22/19 BENTONITE SEAL INTERVAL 27-28 bg REMARKS: TMW-1 JAMODONMENT INFORMATION JAMODONMENT DATE: N/A JAMODONMENT METHOD: N/A DESCRIPTIVE LOG JAMODONMENT DATE: N/A JAMODONMENT METHOD: N/A JAMODONMENT METHOD: N/A DESCRIPTIVE LOG SAMPLE BLOWS (pm) OCULMN (pT) DESCRIPTION OF MATERIAL 10:15' bg 42 Image: Comparison of the compa	SCREEN S			5 OF 1 DIAR	neter 20-si		SCREEN INTERVAL: 29-34	og 24' ha
No. 1 (1) (1) (1) (1) (1) (1) (1) (1) (1) (DEE DOIN	JT: Top of (IAL. FIIDIU 3		laitz	BENTONITE SEAL INTERVAL. 28-3	04 by
OWNER WAY TO WE HAVE TO THE PLUE OF THE SECTOR ABANDONMENT INFORMATION ABANDONMENT DATE: N/A ABANDONMENT METHOD: N/A ABANDONMENT DATE: N/A ABANDONMENT METHOD: N/A DESCRIPTIVE LOG FPD SAMPLE SAMPLE ABANDON PER B: (P) COLUMN (PT) DESCRIPTION OF MATERIAL (PT) DESCRIPTION OF MATERIAL (P) COLUMN (PT) DESCRIPTION OF MATERIAL (P) COLUMN (P) (P) (P) (P) (P) (P) <td>STATIC W</td> <td></td> <td>7451119 7711- 20 20'</td> <td></td> <td></td> <td></td> <td>DATE: 5/22/19</td> <td>L. 27-28 bg</td>	STATIC W		7451119 7711- 20 20'				DATE: 5/22/19	L. 27-28 bg
WELL/BOREHOLE ABANDONMENT INFORMATION ABANDONMENT DATE: NA BAANDONMENT DATE: NA DESCRIPTIVE LOG SAMPLE SAMPLE SAMPLE COLUMN CPTH DESCRIPTIVE LOG SAMPLE SAMPLE IDUMS CPTH SAMPLE COLUMN CPTH DESCRIPTIVE LOG SAMPLE IDUMS CPTH DESCRIPTION OF MATERIAL OPTH DESCRIPTION OF MATERIAL IDUMS OPTH DESCRIPTION OF MATERIAL 10-15' bg 42 0.0 -10. -11. from 12-12.5' bg: no odors or staining: dry 10-15' bg 42 0.0 -14. - - - 15-20' bg 41 NA 0.0 0.0 - - - - - - - - - - -	REMARKS	S: TMW-1	111. 20.20				DITTE: 0/22/10	
WELL SOREHOLE ABANDONMENT INFORMATION BANDONMENT METHOD: N/A ABANDONMENT DATE: N/A BANDONMENT METHOD: N/A DESCRIPTIVE LOF BANDON MENT METHOD: N/A SAMPLE BLOWS PID GRAPHIC DEPTH NAMPLE REC. (IN) PER 6* (IPPN) COLUNN DEPTH 10-15*bg 42 42 0.0 -11- Medium brown, fine-medium SAND with trace fine gravel; uniform; laminations present 10-15*bg 42 0.0 -12- Medium brown, fine-medium SAND with little fine-medium gravel; uniform; no odors 10-15*bg 42 -0.0 -14- -14- 0.0 -14- -14- -14- 0.0 -11- -11- -11- 0.0 -11- -11- -11- 0.0 -11- -11- -11- 0.0 -12- -12- -12- 0.0 -14- -20- -12- 0.0 -12- -12- -12- 0.0 -20- -20- -20- 0.0<								
ABANDONMENT DATE: N/A	WELL/BO	REHOLE A	BANDON	IENT INFO	RMATION			
DESCRIPTIVE LOG DESCRIPTIVE LOG SAMPLE SAMPLE BLOWS PER 0° PID GRAPHIC (pm) DEPTH COLUNN DEPTH (FT) DESCRIPTION OF MATERIAL NATERVAL REC. (NL) PER 0° (pm) GRAPHIC (pm) DEPTH COLUNN DESCRIPTION OF MATERIAL 10-15' bg 42 0.0	ABANDON	MENT DA	TE: N/A			ABANDO	NMENT METHOD: N/A	
JECKUPITE LOO UNITE LOO PID GRAPHE COLUMN DEPTH COLUMN DESCRIPTION OF MATERIAL INTERVAL REC. (IN.) PER 6' (pm) COLUMN (FT) DESCRIPTION OF MATERIAL INTERVAL REC. (IN.) PER 6' (pm) COLUMN (FT) DESCRIPTION OF MATERIAL Interval REC. (IN.) PER 6' PER 6' PER 6' PER 6' Interval REC. (IN.) PER 6' PER 6' PER 6' PER 6' Interval REC. (IN.) PER 6' PER 6' PER 6' PER 6' Interval REC. (IN.) PER 6' PER 6' PER 6' PER 6' Interval REC. (IN.) PER 6' PER 6' PER 6' PER 6' Interval REC. (IN.) PER 6' PER 6' PER 6' PER 6' PER 6' Interval REC. (IN.) PER 6' PER 6'<	DEGODIE							
SAMPCE BLOWS PER 6' UPP R' UPP R' </td <td>DESCRIP</td> <td></td> <td></td> <td>DID</td> <td></td> <td>DEDTU</td> <td></td> <td></td>	DESCRIP			DID		DEDTU		
Ale (M) Let (M) Let (M) Let (M) (L) (M) Constraint (M) <thconstraint (m)<="" th=""> <thconstraint (m)<="" th=""></thconstraint></thconstraint>	SAMPLE	SAMPLE REC. (IN.)	PER 6"	PID (ppm)	COLUM	J DEPTH		DESCRIPTION OF MATERIAL
10-15' bg 42		1120. (111.)	T EICO	(ppiii)	00LOIM	-10-		
10-15'bg 42 0.0 -11. Inclusion of the fine of the grave, union, and the of the of the grave, union, and the of the grave, union,						-	Medium brown fine-medium S	SAND with trace fine gravel: uniform: laminations present
10-15' bg 42 0.0 -12- - 0.0 -13- - - 0.0 -14- - - 0.0 -14- - - 0.0 -14- - - 0.0 -14- - - 0.0 -14- - - 0.0 -14- - - 0.0 -14- - - 0.0 -14- - - 0.0 -14- - - 0.0 -14- - - 0.0 -14- - - 0.0 -14- - - 0.0 -14- - - 0.0 -14- - - 0.0 -14- - - 0.0 -14- - - 0.0 -19- - - 0.0 -21- - -				0.0		-11-	from 12-12 5' ba: no odors or	staining: dry
10-15'bg 42 0.0 -12- - 0.0 -12- - -13- - 0.0 -14- - -14- - 0.0 -16- - Medium brown, fine-medium SAND with little fine-medium gravel; uniform; no odors or staining; dry 15-20'bg 41 -16- - Medium brown, fine-medium SAND with little fine-medium gravel; uniform; no odors or staining; dry 16- 0.0 -19- - -19- - -19- - 0.0 -20- - -20- - -20- - 17- 0.0 -20- - -20- - -20- - 18- 0.0 -21- - Medium brown, fine-medium SAND with fine-medium rounded gravel and few stone fragments; brick and asphalt debris between 22.5-23' bg; some coarse sand throughout 20- 				0.0		_		Starmig, ary
10-15' bg 42 				0.0		-12-		
0.0 -13- 0.0 -14- 0.0 -15- 0.0 -15- 0.0 -15- 0.0 -15- 0.0 -15- 0.0 -15- 0.0 -15- 0.0 -15- 0.0 -15- 0.0 -15- 0.0 -16- 0.0 -17- 0.0 -17- 0.0 -17- 0.0 -17- 0.0 -17- 0.0 -17- 0.0 -17- 0.0 -18- 0.0 -18- 0.0 -19- 0.0 -19- 0.0 -19- 0.0 -19- 0.0 -19- 0.0 -20- -19- -20- -10- -21- Medium brown, fine-medium SAND with fine-medium rounded gravel and few stone fragments; brick and asphalt debris between 22.5-23' bg; some coarse sand throughout	10-15' bg	0-15' bg 42				-		
20-25' bg 40 -				0.0		-13-		
100 -14- 0.0 -15- 0.0 -15- 0.0 -15- 0.0 -16- 0.0 -17- 0.0 -17- 0.0 -17- 0.0 -17- 0.0 -17- 0.0 -18- 0.0 -19- 0.0 -19- 0.0 -19- 0.0 -20- 0.0 -20- 0.0 -20- 0.0 -22- 0.0 -22- 0.0 -22- 0.0 -22- 0.0 -22- 0.0 -22- 0.0 -22- 0.0 -22- 0.0 -22- 0.0 -22- 0.0 -22- 0.0 -22- 0.0 -22- 0.0 -22- 0.0 -22- 0.0 -22- <td></td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td></td> <td></td>						-		
Image: Normal state				0.0		-14-		
100 0.0 -15- 0.0 -15- -15- 0.0 -16- Medium brown, fine-medium SAND with little fine-medium gravel; uniform; no odors 0.0 -16- -16- 0.0 -17- -16- 0.0 -17- -16- 0.0 -17- -16- 0.0 -17- -16- 0.0 -17- -16- 0.0 -17- -16- 0.0 -17- -16- 0.0 -17- -16- 0.0 -17- -16- 0.0 -18- -18- 0.0 -19- -19-						-		
15-20'bg 41 NA 0.0				0.0		-15-		
15-20'bg 41 NA 0.0 -16- Medium brown, fine-medium SAND with little fine-medium gravel; uniform; no odors 15-20'bg 41 0.0 - - - - - or staining; dry - <td></td> <td></td> <td>Ĩ</td> <td></td> <td></td> <td>-</td> <td></td> <td></td>			Ĩ			-		
15-20'bg 41 NA 0.0 -17- -17- -0.0 -17- -17- -18- -18- -19- -17- -18- -19- 0.0 0.0 -19- -20- -19- -20- -19- -20- -19- -20- 0.0 0.0 -19- -20- -19- -20- -19- -20- -19- -20- 0.0 0.0 -21- -21- -22- Medium brown, fine-medium SAND with fine-medium rounded gravel and few stone fragments; brick and asphalt debris between 22.5-23' bg; some coarse sand throughout 20-25'bg 40 -10- -21- -20- -10- -22- -22- -22- -22- 0.0 -22- -22- -22- -22- -10- -22- -22- -22- 0.0 -22- -22- -22- -22- -21- -22- -22- 0.0 -21- -22- -22- -21- -22- -22-				0.0		-16-	Medium brown, fine-medium S	SAND with little fine-medium gravel; uniform; no odors
15-20' bg 41 NA 17- - 0.0 18- - 18- - 0.0 19- - 20- 0.0 20- 20- 0.0 20- 20- 0.0 20- 20- 0.0 20- 20- 0.0 20- 20- 0.0 20- 20- 0.0 20- 20- 0.0 20- 20- 0.0 20- 20- 0.0 20- 20- 0.0 20- 20- 0.0 20- 20- 0.0 20- 20- 0.0 20- 20- 0.0 20- 20- 0.0 20- 20- 0.0 22- 22- 0.0 22- 22- 0.0 22- 22- 0.0 22- 22- 0.0 22- 22- 0.0 22- 22- <						-	or staining; dry	
15-20' bg 41 NA				0.0		-17-		
1/3/20 bg 41 0.0 -18- 0.0 -19- -19- 0.0 -20- -20- 0.0 -20- -20- 0.0 -20- -20- 0.0 -20- -20- 0.0 -20- -20- 0.0 -20- -20- 0.0 -20- -20- 0.0 -20- -20- 0.0 -21- Medium brown, fine-medium SAND with fine-medium rounded gravel and few stone fragments; brick and asphalt debris between 22.5-23' bg; some coarse sand throughout 0.0 -22- -22- 0.0 -22- -22- 0.0 -22- -22- 0.0 -22- -23- 0.0 -22- -23- 0.0 -22- -23- 0.0 -22- -23- 0.0 -22- -23- 0.0 -25- -25-	15-20' ba	11	NA			-		
20-25' bg 40 Image: Sector Se	10-20 bg	- 1		0.0		-18-		
20-25' bg 40 0.0 0.0						-		
Image: height in the state in the				0.0		-19-		
20-25' bg 40 0.0 -20- -20-						-		
20-25' bg 40 40 40 40 40 40 40 40 40 40 40 40 40				0.0		-20-		
20-25' bg 40 40 -21- Medium brown, fine-medium SAND with fine-medium rounded gravel and few stone -21- Medium brown, fine-medium SAND with fine-medium rounded gravel and few stone - fragments; brick and asphalt debris between 22.5-23' bg; some coarse sand throughout -22- -22- - 0.0 -23- - 0.0 -24- - 0.0 -24- - 0.0 -25-						-		
20-25' bg 40				0.0		-21-	Medium brown, fine-medium S	SAND with fine-medium rounded gravel and few stone
20-25' bg 40 40 -22- 0.0 -23- 0.0 -24- 0.0 -25-						-	fragments; brick and asphalt c	lebris between 22.5-23' bg; some coarse sand throughout
20-25' bg 40				0.0		-22-		
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	20-25' bg	40				-		
0.0 -24- 0.0 -25-	<u>0.0</u>				-23-			
0.0 -24- - 0.0 -25-						-		
0.0 -25-				0.0		-24-		
				0.0		25		
				0.0		-20-		

- Native soil/rock
- Sand pack
 - Bentonite seal
 - Cement/bentonite grout
 - Riser Pipe
 - Well screen

WALD	DEN E	NVIRO	ONME	ENTAL	ENG	INEERING	SHEET: 2 OF 2
BORING/W	'ELL I.D.: (GB-1/TMW	-1	CLIENT/SI	TE: 218 La	keville Road	DATE(s) DRILLED: 5/17/19
DESCRIPT	IVE LOG (continued)				
SAMPLE	SAMPLE	BLOWS	PID/FID	GRAPHIC	DEPTH		
INTERVAL	REC. (IN.)	PER 6"	(ppm)	COLUMN	l (FT)		DESCRIPTION OF MATERIAL
25-30' bg	45		0.0		- -26- - -27- - -28- - -29- -	Medium brown, fine-med trace stone fragments; r	dium SAND with trace fine-medium rounded gravel and no odors or staining; wet below ~29' bg
30-35' bg	36	NA	0.2 0.0 0.0 0.0 0.0 0.0		-30- -31- -32- - -33- - -34- - -35-	Medium brown, fine-med	dium SAND with trace fine gravel; no odors or staining;
					- -36- - -37- - - -38- - - -39- - - -40-	END OF BORING	
					- -41- - -42- - - -43- - - -44- - - -45-		
NOTES:	Collected :	soil sample groundwate	es GB-1 (1 er sample	14'-15')/DUF s TMW-1 a	PLICATE 0	5172019 and GB-1 (28.7) ATE GW 051719	5'-29.25')

NA - Not applicable

Native soil/rock

Sand pack

Bentonite seal

Cement/bentonite grout

Well screen

WALI	DEN E	NVIRC	ONMEN	ITAL	ENGINE	ERING	SHEET: 1 OF 2
BORING/V	VELL I.D.:	GB-2				CLIENT:	218 Lakeville Acquisition, LLC
DATE(S)	ORILLED:	5/15/19				PROJECT NAME:	218 Lakeville Road
DRILL ME	THOD:	Direct pus	h via Geopro	obe 7822	DT	PROJECT NO.:	IMPL0115.6
BORING D	DIAMETER:	2"				PROJECT LOCATION:	Lake Success, NY
SAMPLING	G METHOD	/INTERVA	L: Dual-tube	; 5' length		DRILLING CONTRACTOR:	Eastern Environmental Solutions, Inc.
LOGGED	BY:	JKB					
REMARKS	S:	Begin soil	screening a	nd logging	g at 10 ft bg		
TEMPOR		CONSTRU					
SCREEN		LONSIRU	5' of 1" dior				~
						SAND BACK INTERVAL: 20-33 L	
	NT. Top of (asing		upenor Q	ualtz	BENTONITE SEAL INTERVA	1 · 26-27' ha
STATIC W	ATER DEF	PTH: 28 14				DATE: 5/22/19	L. 20 27 bg
REMARKS	S: TMW-2	111. 20.11				B/(TE: 0/22/10	
	-						
WELL/BO	REHOLE A	BANDONN	IENT INFO	RMATION			
ABANDON	MENT DA	TE: N/A			ABANDC	NMENT METHOD: N/A	
DESCRIP			DID				
	SAMPLE REC (INI)	BLOWS	PID (ppm)	GRAPH	IC DEPTH		DESCRIPTION OF MATERIAL
	1120. (111.)	T EIKO	(ppm)	00201	_10_		
					-	Medium brown fine-medium S	SAND with trace fine-medium gravel towards bottom of
			0.0		-11-	interval	Sind with trace fine median graver towards bottom of
			0.0			interval	
			0.0		-12-		
10-15' ba	27		0.0		-		
			0.0		-13-		
					-		
			0.0		-14-		
					-		
			0.0		-15-		
		1			-		
			0.0		-16-	Medium brown, fine-medium S	SAND with trace fine-medium gravel; dry; no odor
					_	or staining	
			0.0		-17-	3	
		NA			-		
15-20' bg	34		0.0		-18-		
					-		
			0.0		-19-		
					-		
			0.0		-20-		
		Î			-		
			0.0		-21-	Medium brown fine-medium S	AND with some fine-medium gravel; dry; no odor
					-	or staining	
			0.0		-22-		
20-25' ba	11				-		
20-25 by	41		0.0		-23-		
					-		
			0.0		-24-		
					-		
			0.0		-25-		
					Native soil/ro		

- Native soil/rock
- Sand pack Bentonite seal

- Cement/bentonite grout
- Riser Pipe
- Well screen

WALD	DEN E	NVIRO	ONME	ENTAL	ENG	INEERING	SHEET: 2 OF 2					
BORING/W	ELL I.D.: C	GB-2/TMW	-2	CLIENT/SITE	: 218 La	keville Road	DATE(s) DRILLED: 5/15/19					
DESCRIPTIVE LOG (continued)												
SAMPLE	SAMPLE	BLOWS	PID/FID	GRAPHIC	DEPTH							
INTERVAL	REC. (IN.)	PER 6"	(ppm)	COLUMN	(FT)		DESCRIPTION OF MATERIAL					
25-30' bg	40		0.0 0.0 0.0 0.1 0.1		- -26- - -27- - - 28- - - 29- - - 30-	Medium brown, fine-med wet below ~27.5' bg	dium SAND with some fine-medium gravel; no odor or staining;					
30-35' bg	25	NA	0.0 0.0 0.0 0.0 0.0		- -31- - 32- - - -33- - - - 34- - - 35-	Same as above; wet; no	odor or staining; greater average grain size from 32-33' bg					
					- -36- -37- - -38- - 39- - -40-	END OF BORING						
					- -41- - -42- - -43- - - 44- - -44- - -45-							
NOTES:	IOTES: Collected soil samples GB-2 (14-14.5), GB-2 (27-28) and DUPLICATE 05152019 Collected groundwater sample TMW-7											

NA - Not applicable

Native soil/rock

Sand pack

Bentonite seal

Cement/bentonite grout

Well screen

WALI	DEN E	NVIRC	NMEN	ITAL	E	NGINE	ERING	SHEET: 1 OF 2		
BORING/V	NELL I.D.:	GB-3					CLIENT:	218 Lakeville Acquisition, LLC		
DATE(S)	ORILLED:	5/16/19					PROJECT NAME:	218 Lakeville Road		
DRILL ME	THOD:	Direct pus	h via Geopre	obe 7822	2 DT		PROJECT NO.:	IMPL0115.6		
BORING D	DIAMETER:	2"	,				PROJECT LOCATION:	Lake Success, NY		
SAMPLIN	G METHOD	/INTERVA	.: Dual-tube	; 5' lengt	h		DRILLING CONTRACTOR:	Eastern Environmental Solutions, Inc.		
LOGGED	BY:	JKB		<u>, </u>				· · ·		
REMARKS	S:	Begin soil	screening a	nd loggir	ng at	10 ft bg				
		Ŭ	Ű	00	0	Ŭ				
TEMPORA	ARY WELL	CONSTRU	CTION INF	ORMAT	ON					
SCREEN	SIZE AND I	MATERIAL:	5' of 1" diar	neter 20	-slot	PVC	SCREEN INTERVAL: 28-33' bg			
SAND PAG	CK SIZE AN	ND MATER	AL: Filbro S	uperior (Quar	tz	SAND PACK INTERVAL: 27-33' bg			
REF. POIN	NT: Top of (Casing					BENTONITE SEAL INTERVAL: 26-27' bg			
STATIC W	ATER DEF	PTH: 27.76'					DATE: 5/22/19			
REMARKS	S: TMW-3									
WELL/BO	REHOLE A	BANDON	IENT INFO	RMATIO	N					
ABANDON	NMENTDA	IE: N/A				ABANDO	NMENT METHOD: N/A			
DESCRIP										
		BLOWS	PID	GRAP	HIC	DEPTH				
	VAL REC (IN) PER 6" (ppm)		COLU	MN	(FT)		DESCRIPTION OF MATERIAL			
	- ()					-10-				
10-15' bg						-	Medium brown fine-medium S	SAND with trace fine-medium gravel: uniform: drv: no		
			0.0			11	adara ar ataining	sind with trace line median gravel, amonth, ary, no		
	26		0.0			-11-				
			0.0	-		-				
			0.0		-12-					
			0.0	-13- - -14-		-13-				
						-				
			0.0			-14-				
						-				
			0.0		-15	-15-				
	25	NA				-				
			0.1	-16-		-16-	Same as above			
						-				
			0.0			-17-				
15-20' bg						-				
			0.1			-18-				
				-		-				
			0.1			-19-				
						_				
			0.1			-20-				
20-25' bg	1					-				
	30		0.2			_21_	Medium brown, fine-medium SAND with little fine-medium gravel; dry; no odor	SAND with little fine-medium gravel: dry: no odore		
			0.2			-21-		AND with fittle fille-mediatin gravel, dry, no odors		
			0.2		-	or staining				
			0.2			-22-				
			0.1							
			0.1			-23-				
						-				
			0.1			-24-				
						-				
			0.1			-25-				
					Na	tive soil/roc	k			

- Native soil/rock
- Sand pack
 - Bentonite seal
 - Cement/bentonite grout
 - Riser Pipe
 - Well screen
| WALD | DEN E | NVIRO | ONME | INTAL | ENG | INEERING | SHEET: 2 OF 2 | | |
|-----------|--------------|-------------|---------------------------------|---------------|---|--|---|--|--|
| BORING/W | /ELL I.D.: (| GB-3/TMW | -3 | CLIENT/SITE | E: 218 La | keville Road | DATE(s) DRILLED: 5/16/19 | | |
| DESCRIPT | IVE LOG (| continued |) | | | | | | |
| SAMPLE | SAMPLE | BLOWS | PID/FID | GRAPHIC | DEPTH | | | | |
| INTERVAL | REC. (IN.) | PER 6" | (ppm) | COLUMN (FT) | | | DESCRIPTION OF MATERIAL | | |
| 25-30' bg | 35 | NA | 0.1
0.1
0.3
0.1
0.1 | | -
-26-
-
-27-
-
-
-28-
-
-
29-
-
-
-30- | Medium brown, fine-mec
28.5-30' bg; wet below ~ | dium SAND with trace fine-medium gravel; few cobbles from
28' bg; no odors or staining | | |
| 30-35' bg | 34 | | 0.2
0.2
0.1
0.1
0.1 | | -
-31-
-32-
-
-33-
-
-34-
-
-
35- | Medium brown, medium
fine-medium gravel; no c | SAND with some fine-coarse sand throughout and little
odors or staining | | |
| | | | | | | | | | |
| NOTES | Collected | soil sample | es GB-3 /1 | 6.5'-17') and | -
-41-
-
-42-
-
-43-
-
-
-44-
-
-
-
45-
GB-3 (27 | 75'-28 25') | | | |
| NUTES: | Collected | groundwate | er sample | s TMW-3 and | DUPLIC | ATE GW 05162019 | | | |
| | | | | | | | | | |

NA - Not applicable

Native soil/rock

Sand pack

Bentonite seal

Cement/bentonite grout

Well screen

WALI	DEN E	NVIRC	NMEN	ITAL EI	NGINE	ERING	SHEET: 1 OF 2
BORING/V	VELL I.D.:	GB-4				CLIENT:	218 Lakeville Acquisition, LLC
DATE(S)	ORILLED:	5/17/19				PROJECT NAME:	218 Lakeville Road
DRILL ME	THOD:	Direct pus	h via Geopro	be 7822 DT		PROJECT NO.:	IMPL0115.6
BORING D	DIAMETER:	2"				PROJECT LOCATION:	Lake Success, NY
SAMPLING	G METHOD	/INTERVAL	.: Dual-tube	; 5' length		DRILLING CONTRACTOR:	Eastern Environmental Solutions, Inc.
LOGGED	BY:	JKB					
REMARKS	S:	Begin soil	screening a	nd logging at	10 ft bg		
TEMPORA	ARY WELL	CONSTRU	CTION INF	ORMATION			
SCREEN S	SIZE AND N	MATERIAL:				SCREEN INTERVAL:	
SAND PAG	CK SIZE AN	ID MATERI	AL:			SAND PACK INTERVAL:	
REF. POIN	NT:					BENTONITE SEAL INTERVAL	L:
STATIC W	ATER DEF	PTH:				DATE:	
REMARKS	6: No well in	stallation					
WELL/BO	REHOLE A	BANDONN		RMATION			
ABANDON	MENT DA	TE: 5/17/19	-		ABANDON	MENT METHOD: Backfilled wi	ith clean sand; asphalt patch
		-					
DESCRIP	TIVE LOG						
SAMPLE	SAMPLE	BLOWS	PID	GRAPHIC	DEPTH		
INTERVAL	REC. (IN.)	PER 6"	(ppm)	COLUMN	(FT)		DESCRIPTION OF MATERIAL
					-10-		
			0.0		-	Medium brown, fine-medium S	AND with trace line gravel; uniform; no odors
			0.0		-11-	or staining; dry	
			0.1		10		
10-15' ba	40		0.1		-12-		
10-13 bg	40		0.1		10		
			0.1		-13-		
			0.2		-14-		
			0.2		-14-		
			0.0		-15-		
		1	0.0		-		
			0.1		-16-	Same as above: organics 19-2	20' ba
			-		-		5
			0.0		-17-		
		NA			-		
15-20' bg	38		0.0		-18-		
					-		
			0.0		-19-		
					-		
			0.0		-20-		
					-		
			0.0		-21-	Same as above; organics 20-2	21' bg
					-		
			0.1		-22-		
20-25' ba	39				-		
9			0.1		-23-		
					-		
			0.1		-24-		
			0.0		-		
			0.0		-20-		



WALD	DEN E	NVIRO	ONME	ENTAL	ENG	INEERING	SHEET: 2 OF 2
BORING/W	ELL I.D.: C	€B-4		CLIENT/SITE	: 218 La	keville Road	DATE(s) DRILLED: 5/17/19
DESCRIPT	VE LOG (continued)				
SAMPLE	SAMPLE	BLOWS	PID/FID	GRAPHIC	DEPTH		
INTERVAL	REC. (IN.)	PER 6"	(ppm)	COLUMN	(FT)		DESCRIPTION OF MATERIAL
			0.4		- -26- -	Medium brown, fine-me grain size than above; n	dium SAND with little fine-medium gravel; slightly larger to odors or staining; wet below ~27.75' bg
25-30' bg	40		0.2 0.3 1.4 1.6 0.5	~	-27- - -28- - -29- -		
30-35' bg	16	NA	0.1		-30- -31- -32- - -33- - -34- -	Medium brown, fine-me wet	edium SAND with little fine-medium gravel; no odors or staining;
					-33- -36- - -37- - -38- - - 39- - - 40-	END OF BORING	
					-41- - -42- - 43- - 44- - 44- - 45-		
NOTES:	Collected	soil sample	es GB-4 (1	6.5'-17') and	GB-4 (28	3'-28.5')	



WALL	DEN E	NVIRC	NME N	ITAL El	NGINE	ERING	SHEET: 1 OF 2
BORING/V	VELL I.D.:	GB-5				CLIENT:	218 Lakeville Acquisition, LLC
DATE(S) D	RILLED:	5/16/19				PROJECT NAME:	218 Lakeville Road
DRILL ME	THOD:	Direct pusl	h via Geopre	obe 7822 DT		PROJECT NO.:	IMPL0115.6
BORING D	DIAMETER:	2"				PROJECT LOCATION:	Lake Success, NY
SAMPLING	METHOD	/INTERVAL	.: Dual-tube	; 5' length		DRILLING CONTRACTOR:	Eastern Environmental Solutions, Inc.
LOGGED I	BY:	JKB					
REMARKS	8:	Begin soil	screening a	nd logging at	10 ft bg		
		CONSTRU					
		AATEDIAL -		ORMATION			
			Δ1 ·				
			AL.			BENTONITE SEAL INTERVA	1:
STATIC W		тн∙					
REMARKS	S: No well in	stallation				BATE.	
WELL/BO	REHOLE A	BANDONN	IENT INFO	RMATION			
ABANDON	IMENT DA	ГЕ: 5/16/19			ABANDON	NMENT METHOD: Backfilled w	ith clean sand; asphalt patch
DESCRIPT	FIVE LOG						
	SAMPLE	BLOWS	PID (nnm)	GRAPHIC	DEPTH		
INTERVAL	INEC. (IN.)	FERO	(ppiii)		-10-		
					-	Medium brown fine-medium S	SILTY SAND with fine-medium gravel and stone
			0.1		-11-	fragments: moist and slightly of	pohesive: no odors or staining
			0.1			nagments, moist and signify c	schesive, no odors or staining
			0.2		-12-		
10-15' ba	48		0.2		-12-		
10 10 bg	-10		0.7		-13-		
			0.1		-		
			1.4		-14-		
			0.5		-		
			0.9		-15-		
					-		
			0.4		-16-	15-16.25' bg: Same as above	; slightly less silt content
					-	-	
			0.1		-17-	16-20' bg: Medium brown, fine	e-medium SAND with trace gravel; no odors
45.00 h m	40	NA			-	or staining	
15-20 by	42		0.0		-18-		
					-		
			0.1		-19-		
					-		
			0.1		-20-		
					-		
			0.0		-21-	Same as above	
					-		
			0.1		-22-		
20-25' bg	38		0.1		-		
			0.1		-23-		
			0.1		-24-		
			0.1		-		
		0.1		-25-			
	1	1					

Fill

Sand/gravel

Silty sand/clay

Depth to Water

WALD	DEN E	NVIRO	ONME	ENTAL	ENG	INEERING	SHEET: 2 OF 2
BORING/W	ELL I.D.: C	B-5		CLIENT/SITE	: 218 La	keville Road	DATE(s) DRILLED: 5/16/19
DESCRIPT	IVE LOG (continued)				
SAMPLE	SAMPLE	BLOWS	PID/FID	GRAPHIC	DEPTH		
INTERVAL	REC. (IN.)	PER 6"	(ppm)	COLUMN	(FT)		DESCRIPTION OF MATERIAL
25-30' bg	28	NA	0.0 0.1 2.3 0.2 0.1		- -26- - -27- - - -28- - - 29- - - -30-	Medium brown, fine-me below ~27.5' bg	edium SAND with trace gravel; no odors or staining; wet
30-35' bg	21		0.0 0.0 0.0 0.0 0.0		- -31- - -32- - - -33- - - - 34- - - - 35-	Medium brown, medium fine-medium gravel; no	n SAND with little fine sand, some coarse sand and odors or staining; wet
					- -36- -37- - -38- - -39- - -40-	END OF BORING	
	Collector				- -41- - -42- - - -43- - - - 44- - - 45-		
NUTES:	Collected	soli sample	es GB-5 (1	4'-14.5') and	GB-5 (27	.5-28)	



WALI	DEN E	NVIRC	ONMEN	ITAL	ENGINE	ERING	SHEET: 1 OF 2
BORING/V	VELL I.D.:	GB-6				CLIENT:	218 Lakeville Acquisition, LLC
DATE(S) [ORILLED:	5/16/19				PROJECT NAME:	218 Lakeville Road
DRILL ME	THOD:	Direct pus	h via Geopro	be 7822 l	DT	PROJECT NO.:	IMPL0115.6
BORING D	DIAMETER:	2"				PROJECT LOCATION:	Lake Success, NY
SAMPLING	G METHOD	/INTERVA	L: Dual-tube;	; 5' length		DRILLING CONTRACTOR:	Eastern Environmental Solutions, Inc.
LOGGED	BY:	JKB					
REMARKS	S:	Begin soil	screening ar	nd logging	y at 10 ft bg		
TEMPORA	ARY WELL	CONSTRU	ICTION INFO	ORMATIO	N		
SCREEN S	SIZE AND N	ATERIAL:	5' of 1" dian	neter 20-s	lot PVC	SCREEN INTERVAL: 29-34'	og
SAND PAC	CK SIZE AN		IAL: Filbro S	uperior Qi	uartz	SAND PACK INTERVAL: 28-3	34' bg
REF. POIN		asing				BENTONITE SEAL INTERVA	L: 27-28' bg
		TH: 27.14				DATE: 5/22/19	
REWARKS	5. 110100-4						
WELL/BO	REHOLE A	BANDON		RMATION			
ABANDON	MENT DA	ΓΕ: N/A			ABANDO	NMENT METHOD: N/A	
DESCRIPT	TIVE LOG						
SAMPLE	SAMPLE	BLOWS	PID	GRAPHI	C DEPTH		
INTERVAL	REC. (IN.)	PER 6	(ppm)	COLUM	N (FI)	-	DESCRIPTION OF MATERIAL
					-10-	Madium brown, fina madium (CAND with trace fine medium rounded grouply uniform:
			0.7		- 11	alightly demonstrated and a	SAND with trace line-medium rounded gravel, uniform,
			0.7		-11-	signity damp, musty odor in it	Swer han of interval, no starning
10-15' bg 43.5		2.2		-			
	13.5	3.5			-12-		
	0.6			- 12			
			0.0		-13-		
			0.0		-		
			0.3		-14-		
			14.1		-		
			22.1		-10-	+	
			4.2		16		
			4.3		-10-	Same as above; musty/perchi	oroethene odor
			9.9		- 17		
		NIA	16.4		-17-		
15-20' bg	41	INA	6.4		-		
			0.4		-10-		
			4.0		-		
			0.2		-19-		
			0.3		-		
			0.1		-20-		
			0.1		-		
			0.1		-21-	Same as above; no odor	
			0.1		-		
			0.1		-22-		
20-25' bg	25		0.1				
			0.1		-2.3-		
		0.1		_24.			
			0.1		-24-		
			0.1		-25-		
<u> </u>					Native soil/ro	ck	

- Native soil/rock
- Sand pack
 - Bentonite seal Cement/bentonite grout
 - Riser Pipe
 - Well screen

WALD	DEN E	NVIRO	ONME	ENTAL	ENG	INEERING	SHEET: 2 OF 2		
BORING/W	ELL I.D.: C	B-6/TMW	-4	CLIENT/SITI	E: 218 La	keville Road	DATE(s) DRILLED: 5/16/19		
DESCRIPT	IVE LOG (continued)						
SAMPLE	SAMPLE	BLOWS	PID/FID	GRAPHIC	DEPTH				
INTERVAL	REC. (IN.)	PER 6"	(ppm)	COLUMN	(FT)		DESCRIPTION OF MATERIAL		
25-30' bg	7	ΝΑ	0.1 0.1 0.1 0.9 0.2		- -26- - -27- - -28- - - 29- - - 30-	Medium brown, fine-me no odor or staining; sligh wet below ~28' bg	dium SAND with trace fine-medium rounded gravel; uniform; ttly larger average grain size in lower half of interval;		
30-35' bg	0				- -31- - -32- - - -33- - - 34- - - 35-	No recovery			
- END OF BORING -36- - -37- -37- -38- -38- - -39- - -40-									
					- -41- - -42- - -43- - -43- - -44- - - 45-				
NOTES:	NOTES: Collected soil samples GB-6 (14.5'-15.5')/DUPLICATE 05162019 and GB-6 (28'-29')								
	Collected	groundwate	er sample	TMW-4					

NA - Not applicable

Native soil/rock

Sand pack

Bentonite seal

Cement/bentonite grout

```
Well screen
```

WALE	DEN E	NVIRC	NMEN	ITAL EN	VGINE	ERING	SHEET: 1 OF 2	
BORING/M	VELL I.D.:	GB-7				CLIENT:	218 Lakeville Acquisition, LLC	
DATE(S) D	RILLED:	5/22/19				PROJECT NAME:	218 Lakeville Road	
DRILL MET	THOD:	Direct pus	h via Geopro	obe 7822 DT		PROJECT NO.:	IMPL0115.6	
BORING D	AMETER:	2"				PROJECT LOCATION:	Lake Success, NY	
SAMPLING	G METHOD	/INTERVAL	.: Dual-tube	; 5' length		DRILLING CONTRACTOR:	Eastern Environmental Solutions, Inc.	
LOGGED E	BY:	JKB						
REMARKS	5:	Begin soil	screening a	nd logging at '	10 ft bg			
TEMPORA		CONCTRU		ODMATION				
		CONSTRU		ORMATION				
SCREEN S			AL .					
	JK SIZE AN		AL.					
REF. PUIN		этц.				DATE:		
REMARKS	No well in	stallation				DATE.		
		Stanation						
WELL/BOI	REHOLE A	BANDONN	IENT INFO	RMATION				
ABANDON	IMENT DAT	ΓE: 5/22/19			ABANDON	MENT METHOD: Backfilled wi	th clean sand; asphalt patch	
					-			
DESCRIPT	IVE LOG	1						
SAMPLE	SAMPLE	BLOWS	PID	GRAPHIC	DEPTH			
INTERVAL	REC. (IN.)	PER 6"	(ppm)	COLUMN	(FT)		DESCRIPTION OF MATERIAL	
					-10-	40.40 El hay Madium human fi		
			0.1		- 11	10-12.5 bg. Medium brown, m	ne-medium SAND with little sitt and line-medium rounded	
			0.1		-11-	gravel; very slightly conesive; i	no odors or staining; moist	
			0.0		10	10 E 14 hay Madium brown fi	no modium CAND with little fine rounded grouply organize	
10-15' ba	50		0.0		-12-	12.5-14 bg. Medium brown, m	ne-medium SAND with little line rounded gravel, organics	
10-10 bg	50		0.1		12	at ~14 by, no odors or staining)	
			0.1		-13-	14-14 75' ba: Medium brown	fine-medium SAND with little silt and fine-medium rounded	
			0.1		-14-	aravel: very slightly cohesive:	no odors or staining: moist	
					-	14 75-15' bg: Light/medium bro	wn_fine-medium_SAND with trace gravel: no odors	
			0.0		-15-	or staining		
					-	or otaining		
			0.1		-16-	15-17.5' ba: Medium brown. fi	ne-medium SAND with little silt and fine-medium rounded	
					-	gravel: very slightly cohesive: f	few stone fragments: 5" void space between 16-17' bg:	
			0.1		-17-	gravel, very slightly conesive, rew stone fragments, 5 void space between 16-17 bg;		
45.0011		NA			-	_		
15-20 bg	55		0.0		-18-	17.5-20' bg: Medium brown, fi	ne-medium SAND with little fine rounded gravel; uniform; no	
					-	odors or staining; dry		
			0.0		-19-			
					-			
			0.0		-20-			
					-			
			0.0		-21-	Medium brown, fine-medium S	AND with trace fine-medium gravel; uniform; no odors or	
					-	staining; dry		
			0.0		-22-			
20-25' ba	46				-			
Ű			0.0		-23-			
					-			
			0.1		-24-			
			0.0		-			
L			0.0		-2.5-			

Fill Sand/gravel Silty sand/clay ▼ Depth to Water

WALD	EN E	NVIRC	ONME	ENTAL	ENG	INEERING	SHEET: 2 OF 2				
BORING/W	ELL I.D.: C	GB-7		CLIENT/SITE	: 218 La	keville Road	DATE(s) DRILLED: 5/22/19				
DESCRIPTI	VE LOG (continued)								
SAMPLE	SAMPLE	BLOWS	PID/FID	GRAPHIC	DEPTH						
INTERVAL	REC. (IN.)	PER 6"	(ppm)	COLUMN	(FT)		DESCRIPTION OF MATERIAL				
25-30' bg	21		0.0		- -26- - -27- - -28- - 20	Medium brown, fine-med or staining; dry	dium SAND with trace fine-medium gravel; uniform; no odors				
		NA	0.0	▼	-29- - -30-						
0.0 -31- Same as above; wet at ~30' bg 0.1 -32-											
30-35' bg	10		0.0		- -33- - -34- - -35-						
					- -36- - -37- - -38- - -39- - - -40-	END OF BORING					
					- -41- - -42- - -43- - - 44- - - 44- - - 45-						
NOTES:	NOTES: Collected soil samples GB-7 (14'-14.5')/DUPLICATE 05222019 and GB-7 (30'-31')										



BORING/WELLID: BB CUENT: 218 Lakewite Acquisitor, LC DATES/DELLID: 51779 PROJECT NOL: 1218 Lakewite Rad DRUL METHOD: Direct push via Geoprote 7822 DT PROJECT NOL: MMP10156 DRUNG DAMETER: 2************************************	WALL	DEN E	NVIRC	DNMEN	ITAL	ENGINE	ERING	SHEET: 1 OF 2	
DATES SMILL ETVID PROJECT NAME: 218 Lakeville Road DORING DUMETER: 2* MPLOIS	BORING/V	VELL I.D.:	GB-8				CLIENT:	218 Lakeville Acquisition, LLC	
DRILL METHOD: Direct push via Geoprole 782: DT PROJECT NO:: IMPL0115.6 SAME URK METHOD: Description Lake Success, NY Description SAME URK METHOD: JARE Dark LING CONTRACTOR: Eastern Environmental Solutions, Inc. COGED 9Y: JARE Begin soil screening and logging at 10 ft bg Dark LING CONTRACTOR: Eastern Environmental Solutions, Inc. TEMPORARY WELL CONSTRUCTION INFORMATION SCREEN SIZE AND MATERIAL: Fibro Superior Quartz SAMD PACK INTERVAL: 33.5.9.5' bg SAMD PACK INTERVAL: 33.5.2' bg SAND PACK SIZE AND MATERIAL: Fibro Superior Quartz SAND PACK INTERVAL: 33.5.2' bg SAND PACK INTERVAL: 33.5.2' bg STATIC WATER DEPTH: 32.67' DATE: 502219 DATE: 502219 RELLONGTONE SEAL INTERVAL: 31.5.2 bg MARKE: TIMM-5 SAMDE NOT EAST TABLE ABANDONMENT METHOD: NIA DESCRIPTIVE LOG SAMPLE SAMPLE BLOW GOLUMENT 0.0 0.1 0.1 -10- 0.4 -11- 0.4 -12- 0.5 NA 0.6 -15- 0.7 -15- <td< td=""><td>DATE(S) D</td><td>ORILLED:</td><td>5/17/19</td><td></td><td></td><td></td><td>PROJECT NAME:</td><td>218 Lakeville Road</td></td<>	DATE(S) D	ORILLED:	5/17/19				PROJECT NAME:	218 Lakeville Road	
BORING DUMPTER: 2 PROJECT LOCATION: Lake Success. NY LOGGED 9Y: J/RB REMARKS: Begin soil screening and logging at 10 ft bg TEMPORARY WELL CONSTRUCTION INFORMATION SCREEN NYE NUL SCREEN NITERIAL: 5/ 01 * diameter 20-stop FVC SAND PACK SIZE AND MATERIAL: Filtor Superior Quartz SAND PACK SIZE AND MATERIAL: 5/ 01 * diameter 20-stop FVC SCREEN NTERVAL: 32-38.5' bg SAND PACK SIZE AND MATERIAL: 5/ 01 * diameter 20-stop FVC SAND PACK SIZE AND MATERIAL: 5/ 01 * diameter 20-stop FVC SAND PACK SIZE AND MATERIAL: 5/ 01 * diameter 20-stop FVC SAND PACK SIZE AND MATERIAL: 5/ 01 * diameter 20-stop FVC BENTONITE SEAL INTERVAL: 33.5-38.5' bg REF. POINT: Top of Casing BENTONITE SEAL INTERVAL: 32-38.5' bg MELLBOREHOLE ABANDONMENT INFORMATION BEARCY BANNER BEARCY DATE: 5/20 / 00 CONS BORN S PID GRAPHIC COLUMN INTERVAL: 33.5 BORN S BORN S COLUMN 10-1 11 15.5	DRILL ME	THOD:	Direct pus	h via Geopro	obe 7822	DT	PROJECT NO.:	IMPL0115.6	
SAMELIKO METHODINTERVAL: Dual-tube: S'length DRILLING CONTRACTOR: Eastern Environmental Solutions, Inc. REMARKS: Begin soil screening and logging at 10 ft bg Image: Solution of the solution o	BORING D	DIAMETER:	2"				PROJECT LOCATION:	Lake Success, NY	
LOGGE DP: JKB REMARKS: Begin sol screening and logging at 10 ft bg SCREEN SUE: AND MATERIAL: 50 d1 '1 diameter 20-slot PVC SCREEN INTERVAL: 33.5-38.5' bg SCREEN SUE: AND MATERIAL: 50 d1 '1 diameter 20-slot PVC SCREEN INTERVAL: 33.5-38.5' bg SCREEN ADD MATERIAL: 50 d1 '1 diameter 20-slot PVC SCREEN INTERVAL: 33.5-38.5' bg REF. POINT: Top of Casing BENTONITE SEAL INTERVAL: 33.4.32 bg TATIC WATER ADD MATERIAL: Filtor Superior Quartz SAMDA DAKKINE 23-38.5' bg REMARKS: TIW- ABANDONMENT DACK INTERVAL: 33.4.32 bg TATIC WATER ADD MATERIAL: Filtor Superior Quartz ABANDONMENT ADCK INTERVAL: 33.4.32 bg STATIC WATER ADD MATERIAL: Filtor Superior Quarts ABANDONMENT MATERIAL: 33.8' bg MEEL BOOKS TOT BEORDENTE E CO SCREEN INTERVAL: 33.5' bg: Modum Town, fine-medium SULTY SAND with fine-medium gravel and trace brick/ 10-15' bg 15.5 15-15' bg: 15-17.5' bg: Medium brown, fine-medium SAND with abundant gravel and crushed/broken stone; very slightly cohesive; no odors or staining 15-20' bg 30.5 NA 0.1 -12- 0.0 -11- -15-17.5' bg: Medium brown, fine-medium SAND with abundant gravel and crushed/broken stone; very slightly cohesive; no odors or stai	SAMPLING	G METHOD	/INTERVA	L: Dual-tube	; 5' length		DRILLING CONTRACTOR:	Eastern Environmental Solutions, Inc.	
REMARKS: Begin soil screening and logging at 10 ft bg TEMPORARY WELL CONSTRUCTION INFORMATION SAND PACK SIZE AND MATERIAL: Filtro Superior Quartz SCREEN SIZE AND MATERIAL: Filtro Superior Quartz SAND PACK INTERVAL: 33.5-38.5 bg STATIC WATER DEPTH: 32.67 DATE: SIZE DATE: SIZE DATE: SIZE REMARKS: TWW-5 TOTE: SIZE ABANDONMENT INFORMATION MELLBOREHOLE ABANDONMENT INFORMATION ABANDONMENT DATE: SIZE ABANDONMENT METHOD: N/A DESCRIPTVE LOS SAMP PACK SIZE GRAPHIC DEPTH DESCRIPTION OF MATERIAL SAMPLE SAMPLE BLOWS PPID GRAPHIC DEPTH DESCRIPTION OF MATERIAL 10-15' bg 15.5 INTERVAL SAMPLE BLOWS PPID GRAPHIC DEPTH DESCRIPTION OF MATERIAL 10-15' bg 15.5 INTERVAL SAMPLE BLOWS PPID GRAPHIC DESCRIPTION OF MATERIAL 10-15' bg 15.7 PPIR GUINDOWN (fr: DESCRIPTION OF MATERIAL INTERVAL SAMPLE SAMPLE <td< td=""><td>LOGGED I</td><td>BY:</td><td>JKB</td><td></td><td></td><td></td><td>·</td><td></td></td<>	LOGGED I	BY:	JKB				·		
TEMPORARY WELL CONSTRUCTION INFORMATION SCREER SIZE AND MATERIAL: 5 of 11 diameter 20-biol P/C SCREEN INTERVAL: 33.5-8.5 bg SAND PACK SIZE AND MATERIAL: Fibro Superior Quartz SAND PACK SIZE AND MATERIAL: Fibro Superior Quartz STATE AND MATERIAL: 5 of 12 diameter 20-biol P/C SCREEN INTERVAL: 33.5-8.5 bg STATE AND MATERIAL: Fibro Superior Quartz SAND PACK SIZE AND MATERIAL: Fibro Superior Quartz STATE AND MATERIAL: 5 and TATE AND MATERIAL DATE: 6/22/19 WELLBOREHOLE ABANDONMENT INFORMATION ABANDONMENT DATE: NA DESCRIPTVE LOC GRAPHIC STATE AND MATERIAL: FIBRE SUPERIOR GRAPHIC DESCRIPTVE LOC GRAPHIC INTERVAL REC. (IN) NAMEL SAND MATERIAL: 0.0 -10- 0.1 -11- 0.0 -11- 0.0 -14- 0.0 -14- 0.0 -14- 0.0 -14- 0.0 -14- 0.0 -14- 0.0 -15- 0.0 -16- 15-17- -16- 15-	REMARKS	S:	Begin soil	screening a	nd logging	at 10 ft bg			
SARCE NEE AND MATERIAL: Fibro Superior Quartz SARD PACK NTERVAL: 33.5-38.5 bg SARD PACK SIZE AND MATERIAL: Fibro Superior Quartz SARD PACK INTERVAL: 33.5-38.5 bg STATC WATER OPETH: 32.67* DATE: S22/19 COLSPANE MATERIAL: Fibro Superior Quartz SARD PACK INTERVAL: 33.5-38.5 bg STATC WATER OPETH: 32.67* DATE: S22/19 COLVENTES EVAL. MELLSOREHOLE ABANDONMENT INFORMATION ABANDONMENT DATE: N/A ABANDONMENT METHOD: N/A DESCRIPTION OF MATERIAL MELLSORE MORE TO AND WITH TALE SAMPLE SAMPLE Medium brown, fine-medium SLTY SAND with fine-medium gravel and trace brick/ 0.0 -12: 0.1 -12: 0.1 -12: 0.0 -12: 0.0 -12: </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>									
SCREEN SIZE AND MATERIAL: 5 of 1' diameter 20-slot PVC SCREEN NTERVAL: 33-58.5 bg SCREEN ADM MATERIAL: Filthor Superior Quartz SCREEN NTERVAL: 33-58.5 bg REF. FOINT: Top of Casing BENTONITE SEAL INTERVAL: 31-32' bg STATIC WATER DEPTH: 32.67 DATE: 522/19 WELLBOREHOLE ABANDONMENT INFORMATION ABANDONMENT INFORMATION ABANDE CASING CONTRESEAL INTERVAL: 31-32' bg WELLBOREHOLE ABANDONMENT INFORMATION ABANDE SCREEN WAS WELLBOREHOLE ABANDONMENT INFORMATION ABANDE CASING CONTRESEAL INTERVAL: 31-32' bg METERVAL BENTONITE SEAL INTERVAL: 31-32' bg MARKE STAW-S WELLBOREHOLE ABANDONMENT INFORMATION ABANDEX ABANDE CONSTITUTION OF MATERIAL METER SIZE INTERVAL: 31-32' bg MARKE STAW-S MARKE STAW-S MARKE STAW-S MARKE STAW-S MARKE STAW-S INTERVAL 10-15 10-15 <td colspan<="" td=""><td>TEMPORA</td><td>ARY WELL</td><td>CONSTRU</td><td>ICTION INFO</td><td>ORMATIC</td><td>N N</td><td></td><td></td></td>	<td>TEMPORA</td> <td>ARY WELL</td> <td>CONSTRU</td> <td>ICTION INFO</td> <td>ORMATIC</td> <td>N N</td> <td></td> <td></td>	TEMPORA	ARY WELL	CONSTRU	ICTION INFO	ORMATIC	N N		
SAND PACK SIZE AND MATERIAL: Filloro Superior Quartz SAND PACK INTERVAL 32:38.5 bg BER-POINT: Top of Casing DATE: 5/22/19 STATIC WATER DEPTH: 32.67 DATE: 5/22/19 WELLBOREHOLE ABANDONMENT INFORMATION ABANDONENT DATE: N/2 ABANDONENT DATE: N/2 ABANDONMENT MATERIAL: 31:32' bg SAMPLE BLOWS SAMPLE BLOWS SAMPLE SAMPLE SAMPLE COLUMN SAMPLE GRAPHIC DESCRIPTIVE LOG GRAPHIC SAMPLE SAMPLE GA -11 -12.5 <td>SCREEN S</td> <td>SIZE AND I</td> <td>MATERIAL:</td> <td>5' of 1" diar</td> <td>neter 20-s</td> <td>lot PVC</td> <td>SCREEN INTERVAL: 33.5-38</td> <td>3.5' bg</td>	SCREEN S	SIZE AND I	MATERIAL:	5' of 1" diar	neter 20-s	lot PVC	SCREEN INTERVAL: 33.5-38	3.5' bg	
REF. FOINT: Top of Casing BENTOWITE SEAL INTERVAL: 31-32 bg REMARKS: TMW-5 DATE: 572/19 WELL/BOREHOLE ABANDONMENT INFORMATION ABANDONMENT METHOD: N/A ABANDONMENT DATE: N/A ABANDONMENT METHOD: N/A DESCRIPTVE LOG GRAPHIC SAMPLE SAMPLE 0.0	SAND PAG	CK SIZE AN	ND MATER	IAL: Filbro S	uperior Q	uartz	SAND PACK INTERVAL: 32-3	38.5' bg	
STATIC WATER DEPTH: 32.67 DATE: 9/2/19 REMARKS: TMW-6 WELLPOREHOLE ABANDONMENT INFORMATION ABANDONMENT DATE: N/A ////////////////////////////////////	REF. POIN	NT: Top of (Casing				BENTONITE SEAL INTERVA	L: 31-32' bg	
REMARKS: TMW-5 WELL/SOREH/OLE ABANDONMENT INFORMATION ABANDONMENT DATE: N/A ABANDONMENT DATE: N/A ABANDONMENT DATE: N/A DESCRIPTIVE LOG SAMPLE SAMPLE SAMPLE DESCRIPTION OF MATERIAL 0 0 0.0 0.0 0.1 0.0 0.1 0	STATIC W	ATER DEF	PTH: 32.67'				DATE: 5/22/19		
WELLBOREHOLE ABANDONMENT INFORMATION ABANDONMENT DATE: N/A ABANDONMENT DATE: N/A ABANDONMENT DATE: N/A DESCRIPTIVE LOG SAMPLE SAMPLE SAMPLE SAMPLE BLOWS (ppm) GRAPHIC COLUMN (FT) DESCRIPTION OF MATERIAL Interval. Rec. (N) PER 6' PID COLUMN PETH 0.0 -	REMARKS	S: TMW-5							
ALLEDONCHOL VATION ABANDONMENT DATE: NA ABANDONMENT METHOD: N/A BRANDONMENT DATE: NA ABANDONMENT METHOD: N/A BRANDON BRAPHICE BLOWS SAMPLE BLOWS (ppm) GRAPHIC SAMPLE BLOWS (ppm) GRAPHIC DESCRIPTION OF MATERIAL 10:15' bg 15.5 0.1 -10- - 0.1 0.1 -11- - asphalt debris and broken stone; very slightly cohesive; no odors or staining 10:15' bg 15.5 0.1 -11- - 0.0 0.1 -12- - - 0.1 -12- - - - 0.2 0.1 -12- - - 0.1 -15- - - - 15:20' bg 30.5 NA 0.1 - - 0.0 - - - - - 0.0 - - - - - 0.0 - - - <	WELL/BO								
Descriptive Log Descriptive Log SAMPLE BLOWS PID GRAPHIC DESCRIPTION OF MATERIAL INTERVAL REC. (N) PER 6" (pm) GRAPHIC DESCRIPTION OF MATERIAL 10-15' bg 15.5 0.1 -10- -0.1 -10- -12- -0.1 Medium brown, fine-medium SLTY SAND with fine-medium gravel and trace brick/ asphalt debris and broken stone; very slightly cohesive; no odors or staining 10-15' bg 15.5 0.1 -12- -0.1 -13- -15- -15- 0.0 0.0 -16- -15- -16- -15- -16- -15- 15-20' bg 30.5 NA 0.1 -17- -18- -15-12- -15- 0.0 -18- -0.0 -18- -19- -20- -15-12- -15-12- -16- -15-20' bg: Medium brown, fine-medium SAND with abundant gravel and crushed/broken stone; no odors or staining -17- -17- -18- -10- -17- -19- -20- 20-25' bg 40 0.0 -20- -20- -20- -20- -20- -20- -20- -22- -20- 20-25' bg 40 0.0 -22- -22- -22- -22- -22- -22- 0.0 -22- -22- -22- -22									
DESCRIPTIVE LOG SAMPLE BLOWS PID GRAPHIC DEPTH DESCRIPTION OF MATERIAL INTERVAL REC. (N) PER 6" (ppm) -10- - 10-15' bg 15.5 - - - - 0.1 - - - - - 0.1 - - - - - 0.1 - - - - - 0.1 - - - - - 0.2 - - - - - - 0.1 - - - - - - 0.2 - - - - - - - 0.0 -	ABANDON	NIVIEINT DA	IE. N/A			ADANDU	INIVIEINT IVIETHOD. IN/A		
SAMPLE INTERVAL REC. (IN) BLOWS PER 6" PID (ppm) GRAPHIC (ppm) DEPTH COLUMN DEPTH (FT) DESCRIPTION OF MATERIAL 10-15'bg 15.5 0.1 -10- -10- -10- Medium brown, fine-medium SILTY SAND with fine-medium gravel and trace brick/ asphalt debris and broken stone, very slightly cohesive; no odors or staining 10-15'bg 15.5 0.1 -12- -12- -12- 0.1 0.1 -13- -14- -14- -14- 0.0 0.0 -15- -16- 15-17.5' bg: Medium brown, fine-medium SAND with abundant gravel and crushed/broken stone; no odors or staining 17.5-20' bg: Medium brown, fine-medium SAND with gravel and stone from 17.5-18.5' bg: no odors or staining 15-20' bg 40 0.0 -19- -19- -19- 0.0 0.0 0.0 20-25' bg 40 0.0	DESCRIPT	TIVE LOG							
INTERVAL REC. (IN) PER 6' (ppm) COLUMN (FT) DESCRIPTION OF MATERIAL Interval <	SAMPLE	SAMPLE	BLOWS	PID	GRAPH	C DEPTH			
10-15'bg 15.5 0.1 -10- 	INTERVAL	REC. (IN.)	PER 6"	(ppm)	COLUM	N (FT)		DESCRIPTION OF MATERIAL	
10-15'bg 15.5 Image: Constraint of the state of the						-10-			
10-15'bg 15.5 0.1 - <						-	Medium brown, fine-medium S	SILTY SAND with fine-medium gravel and trace brick/	
10-15'bg 15.5 0.1 - - - - 0.1 0.1 - - - - 0.2 0.1 - - - 0.2 - - - - 0.2 - - - 0.4 - - - 0.5 0.0 - - 0.0 - - - 0.0 - - - 0.0 - - - 0.0 - - - 15-20'bg 30.5 NA - 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		-11-	asphalt debris and broken sto	ne; very slightly cohesive; no odors or staining	
10-15'bg 15.5 0.1 -12- - 0.1 0.1 -12- - 0.1 0.1 -13- - 0.2 -14- - - 0.0 -16- - 15-17.5' bg: Medium brown, fine-medium SAND with abundant gravel and crushed/broken stone; no odors or staining 15-20' bg 30.5 NA 0.0 -16- - 15-17.5' bg: Medium brown, fine-medium SAND with gravel and stone from 17.5-18.5' bg; no odors or staining 0.0 -17- - - 0.0 -19- - - 0.0 -20- 0.0 -21- - 0.0 -21- - 0.0 -22- - 0.0 -23- - 0.0 -24- - 0.0 -24- - 0.0 -24- - 0.0 -24- - 0.0 -24- - 0.0 -24- -						_			
10-15'bg 15.5 15.5 0.1 -13. -13. -14. 0.2 -14. 0.2 -15. 0.0 -15. 0.0 -15. 0.0 -15. 0.0 -15. 0.0 -15. 0.0 -15. 0.0 -15. 0.0 -15. 0.0 -15. 0.0 -15. 0.0 -16. 15-20'bg 30.5 0.1 -17. 0.0 -17. 0.0 -17. 0.0 -18. 0.0 -19. 0.0 -19. 0.0 -20. 0.0 -20. 0.0 -20. 0.0 -20. 0.0 -20. 0.0 -20. 0.0 -20. 0.0 -20. 0.0 -20. 0.0 -20. 0.0 -20.	10-15' bg 15.5		0.1		-12-				
0.1 -13- 0.2 -14- 0.2 -15- 0.0 -15- 0.0 -16- 0.0 -16- 0.0 -16- 0.0 -16- 0.0 -16- 0.0 -16- 0.0 -17- 0.0 -17- 0.1 -18- 0.0 -18- 0.0 -18- 0.0 -18- 0.0 -18- 0.0 -18- 0.0 -18- 0.0 -18- 0.0 -18- 0.0 -18- 0.0 -18- 0.0 -18- 0.0 -20- 0.0 -20- 0.0 -21- 0.0 -22- 0.0 -22- 0.0 -22- 0.0 -22- 0.0 -22- 0.0 -22- <td>5</td> <td></td> <td></td> <td>_</td> <td></td> <td></td>		5			_				
15-20' bg 30.5 NA 0.2 -14- - 0.0 -15- - - - - 15-20' bg 30.5 NA 0.0 -15- - - 0.0 -15- - - - - - - 0.0 -15- - - - - - - 15-20' bg 30.5 NA 0.0 - </td <td colspan="2">0.1</td> <td></td> <td>-13-</td> <td></td> <td></td>		0.1			-13-				
10-2 0.2 -14- 0.0 -15- 0.0 -15- 0.0 -15- 0.0 -16- 0.0 -16- 0.0 -16- 0.0 -17- 0.0				••••					
15-20' bg 30.5 NA 0.0 -15- 0.0 -16- 15-17.5' bg: Medium brown, fine-medium SAND with abundant gravel and crushed/broken stone; no odors or staining 15-20' bg 30.5 NA -16- -15-17.5' bg: Medium brown, fine-medium SAND with abundant gravel and crushed/broken stone; no odors or staining 15-20' bg 30.5 0.1 -16- -15-17.5' bg: Medium brown, fine-medium SAND with gravel and stone from 17.5-18.5' bg: no odors or staining 0.0 -0.1 -18- no odors or staining 0.0 -19- -19- -19- 0.0 -20- -19- -19- 0.0 -20- -10- -20- 0.0 -22- -10- -10- 0.0 -22- -10- -10- 0.0 -22- -10- -10- 0.0 -22- -10- -10- 0.0 -22- -10- -10- 0.0 -22- -10- -10- 0.0 -22- -10- -10- 0.0 -22-				0.2		-14-			
Image: Normal state in the second state in				0.2		14			
15-20' bg 30.5 NA 0.0 -16- 15-17.5' bg: Medium brown, fine-medium SAND with abundant gravel and crushed/broken stone; no odors or staining 15-20' bg 30.5 NA -16- 0.0 15-17.5' bg: Medium brown, fine-medium SAND with abundant gravel and stone from 17.5-18.5' bg; no odors or staining 15-20' bg 30.5 NA -16- 0.0 17.5-20' bg: Medium brown, fine-medium SAND with gravel and stone from 17.5-18.5' bg; no odors or staining 20-25' bg 40 -16- 0.0 -20- - 0.0 - 20-25' bg 40 -21- 0.0 Medium brown, fine-medium SAND with trace fine-medium gravel; uniform; dry; no odors or staining 20-25' bg 40 -22- - 0.0 - 0.0 -22- - - - 0.0 -22- - - 0.0 </td <td></td> <td></td> <td></td> <td>0.0</td> <td></td> <td>15</td> <td></td> <td></td>				0.0		15			
15-20' bg 30.5 NA 0.0 -16- 15-17.5' bg: Medium brown, fine-medium SAND with abundant gravel and crushed/broken stone; no odors or staining 15-20' bg 30.5 NA 0.0 -17- - 17.5-20' bg: Medium brown, fine-medium SAND with abundant gravel and crushed/broken stone; no odors or staining 15-20' bg 0.1 -17- - 17.5-20' bg: Medium brown, fine-medium SAND with gravel and stone from 17.5-18.5' bg; no odors or staining 0.0 -19- -19- - - 0.0 -20- - - 0.0 -20- - - 0.0 -20- - - 0.0 -20- - - 0.0 -20- - - 0.0 -20- - - 0.0 -22- - - 0.0 -22- - - 0.0 -22- - - 0.0 -22- - - 0.0 -22- - - 0.0 -22-			4	0.0		-13-			
15-20' bg 30.5 NA -16- - 15-17.5 bg: Medium brown, inne-medium SAND with abundant gravel and crushed/broken stone; no odors or staining 15-20' bg 30.5 NA -17- - 17.5-20' bg: Medium brown, fine-medium SAND with gravel and stone from 17.5-18.5' bg; no odors or staining 15-20' bg 0.0 -18- - 19- - 20- -18- - 19- - 20- 0.0 -19- - 20- - 0.0 -19- - 20- - 0.0 -21- - Nedium brown, fine-medium SAND with trace fine-medium gravel; uniform; dry; no odors or staining 20-25' bg 40 -21- - 0.0 0.0 -22- - 23- - 0.0 0.0 -22- - 23- - 25-				0.0		10	45 47 51 have Madium have a		
15-20' bg 30.5 NA 0.0 -17- - 17.5-20' bg: Medium brown, fine-medium SAND with gravel and stone from 17.5-18.5' bg; no odors or staining 15-20' bg 30.5 0.1 -18- - no odors or staining 0.0 -19- - - - 0.0 -20- - 0.0 -20- - 0.0 -20- - 0.0 -20- - 0.0 -20- - 0.0 -22- - 0.0 -22- - 0.0 -22- - 0.0 -22- - 0.0 -22- - 0.0 -22- - 0.0 -22- - 0.0 -22- - 0.0 -22- - 0.0 -22- - 0.0 -22- - 0.0 -22- - 0.0 -22- - 0.0 -22- - 0.0 -22- - 0.0 -22-				0.0		-10-	15-17.5 bg: Medium brown, f	ine-medium SAND with abundant gravel and crushed/broken	
15-20' bg 30.5 NA -17- - 17.5-20' bg: Medium brown, fine-medium SAND with gravel and stone from 17.5-18.5' bg; no odors or staining 15-20' bg 0.0 -18- - no odors or staining 0.0 -19- - -19- - -19- - 0.0 0.0 -20- 0.0 -20- - 0.0 -20- 0.0 -20- 0.0 -20- 0.0 -20- 0.0 -20- 0.0 -20- 0.0 -20- 0.0 -20- 0.0 -20- 0.0 -20- 0.0 -20- 0.0 -20- 0.0 -20- 0.0 -21- Medium brown, fine-medium SAND with trace fine-medium gravel; uniform; dry; no odors or staining 0.0 -22- 0.0 -22- 0.0 -22- 0.0 -22- 0.0 -22- 0.0 -22- 0.0 -22- 0.0 -22- 0.0 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td>stone; no odors or staining</td> <td></td>						-	stone; no odors or staining		
15-20' bg 30.5 NA - 17.5-20' bg: Medium brown, fine-medium SAND with gravel and stone from 17.5-18.5' bg; no odors or staining 15-20' bg 0.1 - - - 0.0 - - - - 0.0 - - - - 0.0 - - - - 0.0 - - - - 0.0 - - - - 0.0 - - - - 0.0 - - - - 0.0 - - - - 0.0 - - - - 0.0 - - - - 0.0 - - - - 20-25' bg 40 - - - 0.0 - - - - 0.0 - - - - 0.0 - - - - 0.0 - - - - </td <td></td> <td></td> <td></td> <td>0.0</td> <td></td> <td>-17-</td> <td></td> <td></td>				0.0		-17-			
0.1 -18- no odors or staining 0.0 -19- 0.0 -20- 0.0 -20- 0.0 -21- 0.0 -21- 0.0 -22-	15-20' bg	30.5	NA			-	17.5-20' bg: Medium brown, f	ine-medium SAND with gravel and stone from 17.5-18.5' bg;	
20-25' bg 40 40	-			0.1		-18-	no odors or staining		
20-25' bg 40 -19- 						-			
20-25' bg 40				0.0		-19-			
20-25' bg 40 0.0 -22- -22-						-			
20-25' bg 40			ļ	0.0		-20-			
20-25' bg 40 0.0 -21- 0.0 -22- -						-			
20-25' bg 40 40 - no odors or staining -22- 0.0 -23- 0.0 -23- 0.0 -23- 0.0 -24- 0.0 -25-				0.0		-21-	Medium brown, fine-medium §	SAND with trace fine-medium gravel; uniform; dry;	
20-25' bg 40 40 -22- 						-	no odors or staining		
20-25' bg 40				0.0		-22-			
20-25 bg 40 0.0 -23- 0.0 -24- 0.0 -25-	00.0511	40				-			
0.0 - 0.0 -24- - - 0.0 -25-	20-25° bg	40		0.0		-23-			
0.0 -24- - -25-					_				
			0.0		-24-				
			0.0		-25-				
						Notive a 11/			

- Sand pack
 - Bentonite seal
 - Cement/bentonite grout Riser Pipe
 - Well screen

BORINGWELL 10: GEAPTINK-S CLIENT/SITE: 218 Lakewile Road DATE(s) DRILLED: 5/17/19 DESCRIPTIVE LOG (continued) SAMPLE BAVE (s) DRILLED: 5/17/19 SAMPLE BAVE (s) MIDER BLOR (continued) SAMPLE BLOR (continued) GRAPHIC DESCRIPTION OF MATERIAL INTERVAL REC. (N) PER 6 (pp) GRAPHIC DESCRIPTION OF MATERIAL 25:30° bg 43 0.0 0.0 -26- Medium brown, fine-medium SAND with trace fine-medium gravel; uniform; dry; no odors or staining 25:30° bg 43 0.0 -26- Medium brown, fine-medium SAND with trace fine-medium gravel; uniform; dry; no odors or staining 30:35° bg 18 NA 0.0 -22- -30- 0.0 0.0 -34- -32- -33- 30:35° bg 18 NA 0.0 -34- -33- 35:40° bg 0 -36- No recovery; drilling rod is wet -36- 35:40° bg 0 -40- -40- -40-	WALD	DEN E	NVIRO	ONME	ENTAL	ENG	NEERING	SHEET: 2 OF 2
DESCRIPTIVE LOG (continued) General Continued GRAPHIC DEPTH DESCRIPTION OF MATERIAL SAMPLE BLOWS PIDFID GRAPHIC DEPTH DESCRIPTION OF MATERIAL INTERVAL REC.(N) PER 6' (pm) COLUMN (FT) DESCRIPTION OF MATERIAL 25-30' bg 43 0.0 0.0	BORING/W	'ELL I.D.: C	GB-8/TMW	-5	CLIENT/SIT	E: 218 Lal	keville Road	DATE(s) DRILLED: 5/17/19
SAMPLE INTERVAL REC. (N) BLOWS PER 8 PIDEID (pm) GRAMME COLUMN DEPTH (PT) DESCRIPTION OF MATERIAL 25-30 bg 43 0.0 0.0 -26- 0.0 Medium brown, fine-medium SAND with trace fine-medium gravel; uniform; dry; no odors or staining 25-30 bg 43 0.0 0.0 -26- 0.0 Medium brown, fine-medium SAND with trace fine-medium gravel; uniform; dry; no odors or staining 30-35' bg 18 NA 0.0 -31- 0.0 Same as above; broken stone at -32 bg with some coarse sand present immediately above; dry 30-35' bg 18 NA 0.0 -31- -32- -33- -34- -33- -34- -33- -34- -33- -34- -33- -34- -33- -34- -34- -33- -34- -	DESCRIPT	IVE LOG (continued)				
INTERVAL REC. (IN) PER 6* (pm) COLUMN (FT) DESCRIPTION OF MATERIAL 25-30*bg 43 0.0	SAMPLE	SAMPLE	BLOWS	PID/FID	GRAPHIC	DEPTH		
25-30' bg 43 0.0	INTERVAL	REC. (IN.)	PER 6"	(ppm)	COLUMN	(FT)		DESCRIPTION OF MATERIAL
30-35' bg 18 NA 0.0 -30- 30-35' bg 18 NA 0.0 -31- Same as above; broken stone at -32' bg with some coarse sand present immediately above; dry 30-35' bg 18 NA 0.0 -32- -33- 0.0 0.0 -32- -33- -34- 0.0 0.0 -34- -34- 0.0 -34- -34- -35- -36- No recovery; drilling rod is wet -36- -36- No recovery; drilling rod is wet -37- -38- -38- -39- -40- -40- END OF BORING -42- -43-	25-30' bg	43		0.0		- -26- - -27- - -28- - - 29-	Medium brown, fine-med no odors or staining	ium SAND with trace fine-medium gravel; uniform; dry;
30-35' bg 18 NA 0.0 -31- -32- -32- 				0.0		-29- - -30-		
35-40' bg 0 35-40' bg 0	30-35' bg	18	NA	0.0 0.0 0.0 0.0 0.0		- -31- -32- - -33- - -34- - - 35-	Same as above; broken s above; dry	stone at ~32' bg with some coarse sand present immediately
- END OF BORING -41- -42- -42- -43- -	35-40' bg	0				- -36- - 37- - - 38- - - 39- - - 40-	No recovery; drilling rod i	s wet
-44- - -45-						- -41- - -42- - -43- - - -44- - - 45-	END OF BORING	
NOTES: Collected soil samples GB-8 (14'-15') and GB-8 (33'-33.5')	NOTES:	Collected	soil sample	es GB-8 (1	14'-15') and G	B-8 (33'-3	33.5')	
Collected groundwater sample TMW-5		Collected	groundwate	er sample	TMW-5			

NA - Not applicable

Native soil/rock

Sand pack

Bentonite seal

Cement/bentonite grout

Well screen

ODEING/WELLID: OB-9 OLIENT: 218 Lake/like Arguitation, LG APTE[6] KRILLES Sifual AMERIAL PROJECT NAME: 218 Lake/like Road SIRL METHOD: Direct publy via Geogrado P282 DT PROJECT NOL: MMPLI16.6 SORING DIAMETER: 2*** PROJECT NOL: MMPLING MATHON SORING DIAMETER: 2*** PROJECT LOCATION: Lake Subcomes, NY SAMPLING METHODONTERVAL: 3*** DATE: Sorial Science NIZE AND MATERIAL 5*** SORING DIAMETERVAL: 10*** Begin soil screening and logging at 10 ft bg Sorial Science NIZE AND MATERIAL. Soria Science NIZE AND MATERIAL. Sorial Science NIZE	WALI	DEN E	NVIRC	DNMEN	ITAL E	NGINE	ERING	SHEET: 1 OF 2
DATE(S) DRILLED: SINUL STI-MC PROJECT NO.HE 218 Lakewile Road DORING DUMETER: 0 PROJECT NO.: Lake Success, NV SORING DUMETER: 0 0 0 0 SEMARKS: Begin soil screening and logging at 10 ft bg 0 0 0 SCREEN INTERVAL: SORING DUMETERIAL: 50 ft 1' diameter 20-slot PVC SCREEN INTERVAL: 32-38 /t bg 0 SCREEN SIZE AND MATERIAL: Find 1' diameter 20-slot PVC SCREEN INTERVAL: 32-36 /t bg 0 0 SCREEN SIZE AND MATERIAL: Find PTM SUB PACK SIZE PVAL: 32-83 /t bg DATE: 52-30' bg 0 0 SCREEN SIZE AND MATERIAL: FIND PVAL: 32-36 /t bg DATE: 52-30' bg 0 0 0 SCREEN SIZE AND MATERIAL: FIND PVAL: 32-36 /t bg DATE: 52-30' bg 0	BORING/V	VELL I.D.:	GB-9				CLIENT:	218 Lakeville Acquisition, LLC
DRLL METHOD: Direct push via Geoprote 7822 DT PROJECT NO: IMPL0115.6 SAMPLING METHOD/NTERVAL: Dual-bub:: Singling DIAMETER PROJECT LOCATION: Lake Success, NY SAMPLING METHOD/INTERVAL: Distributions, Inc. OcideD 87: Eastern Environmental Solutions, Inc. SCREEN USE: AND MATERIAL: Fild control of the bit bit of the bit of the b	DATE(S)	ORILLED:	5/14/19				PROJECT NAME:	218 Lakeville Road
SQRING DUMBETE: 2' PROJECT LOCATION: Lake Success, N' JOGRIG DUMBETEX.L: DRILLING CONTRACTOR: Eastern Environmental Solutions, Inc. JOGRIG DY: JKB JEMARKS: Begin soil screening and logging at 10 ft bg TEMPORARY VELL Solutions, Inc. SCREEN SIZE AND MATERIAL: 50 11" diameter 20-stol PVC SCREEN INTERVAL: 33.8-38.8 bg SAND PACK SIZE AND MATERIAL: Filton Superior Quartz SAND PACK INTERVAL: 32-38.8 bg SAND PACK SIZE AND MATERIAL: Filton Superior Quartz SAND PACK INTERVAL: 32-38.8 bg SAND PACK SIZE AND MATERIAL: Filton Superior Quartz SAND PACK SIZE AND MATERIAL: 52-31.8 bg SAND PACK SIZE AND MATERIAL: Filton Superior Quartz SAND PACK SIZE AND MATERIAL: 52-32.4 bg VELLBOREHOLE ABANDONMENT INFORMATION SAND PACK SIZE AND MATERIAL: 52-32.4 bg VELLBOREHOLE ABANDONMENT INFORMATION Ideannonmentum Filton: N/A VELLBOREHOLE ABANDONMENT DATE: N/A ABANDONMENT METHOD: N/A VELLBOREHOLE ABANDONMENT TATE: N/A ABANDONMENT METHOD: N/A 10:15' bg 48 0.0 0.0 -10: -10: 0.0 -11: Medium brown, fine-medium SAND with file gravel and litite slit below -13.5' bg:	DRILL ME	THOD:	Direct pus	h via Geopro	be 7822 D	Г	PROJECT NO.:	IMPL0115.6
SAMPLING METHODINITERVAL: Dual-tube; 5 length DRILLING CONTRACTOR: Eastern Environmental Solutions, Inc. OGGED 8Y: JKB Bagin soil screening and logging at 10 ft bg TEMPORARY WELL CONSTRUCTION INFORMATION SCREEN INTERVAL: 328-38 ft bg SCREEN INTERVAL: 328-38 ft bg SCREEN SIZE AND MATERIAL: Filter Superior Quartz SAND PACK INTERVAL: 328-38 ft bg SCREEN SIZE AND MATERIAL: Filter Superior Quartz SAND PACK SIZE AND MATERIAL: Filter Superior Quartz SAND PACK INTERVAL: 328-38 ft bg SCREEN SIZE AND MATERIAL: Filter Superior Quartz STATIC WATER DEPTH 32.24 DATE: 5/22/19 SCREEN SIZE AND MATERIAL: Filter Superior Quartz SAND PACK INTERVAL: 328-38 ft bg VELLBOREHOEL EASANDOMENT INFORMATION SCREEN SIZE AND MATERIAL: Filter SUPERION OF MATERIAL SCREEN SIZE AND MATERIAL: Filter SUPERION OF MATERIAL SANDEN E SAMPLE (G SAND PACK INTERVAL: 328-38 ft bg SCREEN SIZE AND MATERIAL: Filter SUPERION OF MATERIAL SANDEN E SAMPLE (G SANDEN (TT) CALUMN, DEPTH DESCRIPTION OF MATERIAL: Filter SUPERION OF MATERIAL SANDEN E SANDONMENT DATE: NA REANDONMENT METHOD: NIA SCREEN SIZE AND MATERIAL: Filter SUPERION OF MATERIAL SANDE IS SANDE (GRAPHIC (GPM) CLUMN, DEPTH DESCRIPTION OF MATERIAL SANDE IS SAND (GPM) (TT)	BORING D	DIAMETER:	2"				PROJECT LOCATION:	Lake Success, NY
OGGED BY: JKB TEMPORARY WELL CONSTRUCTION INFORMATION ENTONINE VIEL CONSTRUCTION INFORMATION SCREEN SIZE AND MATERIAL: 5' of 1' diameter 20-doit PVC SCREEN INTERVAL: 33.38.8' bg SCREEN ADD MATERIAL: 5' of 1' diameter 20-doit PVC SCREEN INTERVAL: 33.38.8' bg STATC WATER DEPTH: 32.24' DATE: 522/19 BRANKS: TWA DATE: 522/19 WELLBOREHOLE ABANDONMENT INFORMATION BENTONTE SEAL INTERVAL: 29-30' bg STATC WATER DEPTH: 32.24' DATE: 522/19 BRANKS: TWA ABANDONMENT METHOD: N/A SCREINT ELOG SCREIN INTERVAL SCREINT ELOG GRAPHIC O.0 -10.1' MITERVAL Rec. (N) BAND TO MATERIAL O.0 0.0 -11.4' 0.0 -11.4' 0.0 -11.4' 0.0 -11.4' 0.0 -11.4' 0.0 -11.4' 0.0 -11.4' 0.0 -11.4' 0.0 -11.4' 0.0 -11.4' 0.0 -11.4' 0.0	SAMPLING	G METHOD	/INTERVAL	L: Dual-tube;	5' length		DRILLING CONTRACTOR:	Eastern Environmental Solutions, Inc.
NUMBER Begin soil screening and logging at 10 ft bg EMPORARY WELL CONSTRUCTION INFORMATION SCREEN SIZE AND MATERIAL: Fibro Superior Quartz SCREEN INTERVAL: 33.93.87 bg SAND PACK SIZE AND MATERIAL: Fibro Superior Quartz SCREEN SIZE AND MATERIAL: 9 and the second	LOGGED	BY:	JKB					
EMPORARY WELL CONSTRUCTION INFORMATION SCREEN SIZE AND MATERIAL: 5' 01' diameter 20-biol PVC SCREEN INTERVAL: 33.8:8 bg SAND PACK SIZE AND MATERIAL: Filos Superior Quarz SAND PACK SIZE AND MATERIAL: Filos Superior Quarz SEF. FORM: Top of Casing DESTONTE SEAL INTERVAL: 29-30' bg TATIC WATER DEPTH: 32.24' DATE: 5/2/19 VELLBOOREHOLE ABANDONMENT INFORMATION ABANDONMENT METHOD: N/A SBANDONMENT DATE: N/A ABANDONMENT METHOD: N/A DESCRIPTIVE LOG SAMPLE SAMPLE SAMPLE 10-15' bg 48 0.0 -11' 0.0 -11' 0.0 -11' 0.0 -11' 0.0 -11' 0.0 -11' 0.0 -11' 0.0 -11' 0.0 -11' 0.0 -11' 0.0 -11' 0.0 -11' 0.0 -11' 0.0 -11' 0.0 -11' 0.0 -11' 0.0 -11'	REMARKS	S:	Begin soil	screening ar	nd logging a	at 10 ft bg		
FEMPORARY WELL CONSTRUCTION INFORMATION SCREEN INTERVAL: 33.8-38.9 bg SAND PACK SIZE AND MATERIAL: Fibro Superior Quartz SAND PACK INTERVAL: 23.8.9 bg SAND PACK SIZE AND MATERIAL: Fibro Superior Quartz SAND PACK INTERVAL: 23.8.9 bg STATIC WATER DEPTH: 32.24' DATE: 5/22/19 DATE: SV22/19 DATE: 5/22/19 SANDENT DATE: NA ABANDONMENT METHOD: N/A SANDENT DATE: NA ABANDONMENT METHOD: N/A SANDENT DATE: NA ABANDONMENT METHOD: N/A SANDER BLOWS PID GRAPHIC DESCRIPTION OF MATERIAL SAMUE BLOWS PID GRAPHIC DESCRIPTION OF MATERIAL SAMUE BLOWS PID GRAPHIC DESCRIPTION OF MATERIAL SAMUE BLOWS PID GRAPHIC DESCRIPTION OF MATERIAL OLD -10- -11- Medium brown, fine-medium SAND with little gravel and little silt below -13.5' bg: fractured store: sightly cohesive: suspected bind: debris at -12.25' bg: no odors or staining 10-15' bg 48 -0.0 0.0 -14- -15- -16- 15-20' bg 0.0								
SCREEN SIZE AND MATERIAL 5' of 1' diameter 20-slot PVC SCREEN INTERVAL: 33.8' bg SCREEN AND MATERIAL: Filtor Superior Quartz SCREEN INTERVAL: 32.8' bg SEF. POINT: Top of Casing BENTONITE SEAL INTERVAL: 29-30' bg STATIC WATER DEPTH: 32.24' DATE: S22/19 VELLBOREHOLE ABANDONMENT INFORMATION IdeANDONMENT INFORMATION BRANDE ONNEXT DATE: IVA IdeANDONMENT METHOD: N/A VELLBOREHOLE ABANDONMENT INFORMATION IdeANDONMENT METHOD: N/A SESCRIPTVE LOG IdeANDONMENT METHOD: N/A SESCRIPTVE LOG IdeANDONMENT INFORMATION ISSCRIPTIVE LOG IdeANDONMENT INFORMATION IO-15' bg 48 0.0 -10 0.0 -11. 0.0 -11. 0.0 -11. 0.0 -12.5 0.0 -13.4 0.0 -14.4 0.0 -14.4 0.0 -14.4 0.0 -14.4 0.0 -14.4 0.0 -14.4 0.0 -14.4 0.0 -15.7 0.	TEMPORA	ARY WELL	CONSTRU	ICTION INFO	ORMATION		-	
SAND PACK NIZE AND MATERIAL: Filtor Superior Quartz SAND PACK INTERVAL: 23:238.6 tg EFF_POINT: Top of Casing DATE: 5/22/19 STATE WATER DEPTH: 32:24 DATE: 5/22/19 VELLBOREHOLE ABANDONMENT INFORMATION ABANDONMENT METHOD: N/A BANDONMENT DATE: N/A ABANDONMENT METHOD: N/A VELLBOREHOLE ABANDONMENT INFORMATION BANDONMENT DATE: N/A VELLBOREHOLE ABANDONMENT INFORMATION BANDONMENT METHOD: N/A BANDONMENT DATE: N/A ABANDONMENT METHOD: N/A VELLBOREHOLE CO COLUMN VELLBOREHOLE CO COLUMN SAMUE REC. (IN) PER 6* 0.0 -11 0.0 -11 0.0 -11 0.0 -12- 10-15 bg 48 0.0 -14- 0.0 -14- 0.0 -14- 0.0 -14- 0.0 -14- 0.0 -14- 0.0 -14- 0.0 -14- 0.0 -14- 0.0 -14- 0.0	SCREEN S	SIZE AND N	MATERIAL:	5' of 1" dian	neter 20-slo	t PVC	SCREEN INTERVAL: 33.8-38	s.8' bg
EEP. FORT: Top of Casing BENTONITE SEAL INTERVAL: 29-30 bg STATIC WATER DEPTH: 32.24 DATE: SIZ4 VELLBOREHOLE ABANDONMENT INFORMATION IBANDONMENT MATHON VESARDENMENT DATE: N/A ABANDONMENT METHOD: N/A DESCRIPTIVE LOG SRAPLE SAMPLE SAMPLE 0.0	SAND PAG	CK SIZE AN	ID MATERI	IAL: Filbro S	uperior Qua	artz	SAND PACK INTERVAL: 32-3	38.8' bg
STATIC WATER DEPIRING 2024* DATE: 5/22/19 WELLBOREHOLE ABANDONMENT INFORMATION IABANDONMENT METHOD: N/A SAME ID BLOWS PID GRAPHIC DEFTH COLUMN GRAPHIC DEFTH DESCRIPTION OF MATERIAL SAME ID SAME ID BLOWS PID COLUMN DEFTH OLD GRAPHIC DEFTH DESCRIPTION OF MATERIAL Interval REC. (N) PER of (PP) GRAPHIC DEFTH DESCRIPTION OF MATERIAL 10-15' PID GRAPHIC DEFTH DESCRIPTION OF MATERIAL 10-15' PER of (PP) GRAPHIC DEFTH DESCRIPTION OF MATERIAL 10-15' PER of (PP) GRAPHIC DEFTH DESCRIPTION OF MATERIAL 10-15' PER of (PP) GRAPHIC DEFTH DESCRIPTION OF MATERIAL 10-15' PER of (PP) GRAPHIC DEFTH DESCRIPTION OF MATERIAL 10-15' PER of (PP) GRAPHIC DEFTH DESCRIPTION OF MATERIAL 10-16' 0.0 0.0 Interval (PP) DESCRIPTION	REF. POIN	VT: Top of C	Casing				BENTONITE SEAL INTERVA	L: 29-30' bg
VELUBOREHOLE ABANDONMENT INFORMATION SAMDE INFORMATION SAMDE INFORMATION SAMDE INFORMATION SAMDE INTERIVE LOG DESCRIPTIVE LOG SAMPLE IS BLOWS PID GRAPHIC DEPTH DESCRIPTION OF MATERIAL 10-15' bg 48 0.0 -10- - - 0.0 0.0 -11- Hedium brown, fine-medium SAND with little gravel and little silt below -13.5' bg; no odors 10-15' bg 48 0.0 - - - 0.0 - - - - - 10-15' bg 48 0.0 - - - - 10-15' bg 48 0.0 - - - - - 10-15' bg 48 0.0 - <td>STATIC W</td> <td>ATER DEP</td> <td>'TH: 32.24'</td> <td></td> <td></td> <td></td> <td>DATE: 5/22/19</td> <td></td>	STATIC W	ATER DEP	'TH: 32.24'				DATE: 5/22/19	
NELLBOREHOLE ABANDONMENT INFORMATION JBANDONMENT DATE: N/A JABANDONMENT DATE: N/A JABANDONMENT METHOD: N/A DESCRIPTIVE LOG SAMPLE SAMPLE BLOWS PID COLUMN 0.0 COLUMN (FT) DESCRIPTION OF MATERIAL 0.0 0.0 0.0 10-1 - 0.1 0.0 - - 0.1 0.0 - - 0.1 0.0 - - 0.1 0.0 - - 0.1 0.0 - - 0.1 0.0 - - 0.1 0.0 - - 0.2 50 NA 0.1 0.0 - - 0.1 - - 0.1 - - 0.2 - - 0.3 - - 0.4 - - 0.5 - - 15-20' bg 50 NA 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - <t< td=""><td>REMARKS</td><td>5: IMW-6</td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	REMARKS	5: IMW-6						
ALLDOMENTURIATION ABADDOMENT METHOD: N/A BADDOMENT DATE: NA ABANDONMENT METHOD: N/A SAMPLE SAMPLE SAMPLE	WELL/BO							
Descriptive Loc Description of Matterial Production of Matterial PESCRIPTIVE LOC PER 6" (ppm) GRAPHIC (ppm) DEPTH (PT) DESCRIPTION OF MATERIAL Interval REC. (N) PER 6" (ppm) GRAPHIC COLUMN DEPTH (PT) DESCRIPTION OF MATERIAL 10-15' bg 48 0.0 -11- 								
DESCRIPTIVE LOG SAMPLE SAMPLE BLOWS PER 8* PPR 8* PPR 9* PPR							MENTINETTIOD. N/A	
SAMPLE NTERVAL REC. (IN) BLOWS PER 6" PID (PER 0" GRAPHIC (CUMN DEPTH (CLUMN DESCRIPTION OF MATERIAL 10-15' bg 48	DESCRIP	TIVE LOG						
INTERVAL REC. (IN) PER 6' (ppm) COLUMN (FT) DESCRIPTION OF MATERIAL 10-15' bg 48 0.0 - - - - 0.0 0.0 - - - - - 0.0 0.0 - - - - - 0.0 0.0 - - - - - 0.0 - - - - - - 0.0 - - - - - - 0.0 - - - - - - 0.0 - - - - - - 0.0 - - - - - - 15-20' bg 50 NA - - - - - - - - - - - - - - - - - - -<	SAMPLE	SAMPLE	BLOWS	PID	GRAPHIC	DEPTH		
10-15' bg 48 00 -10- 	INTERVAL	REC. (IN.)	PER 6"	(ppm)	COLUMN	(FT)		DESCRIPTION OF MATERIAL
10-15' bg 48						-10-		
10-15' bg 48 0.0 0.0 11- Medium brown, fine-medium SAND with little gravel and little sit below ~13.5' bg; fractured stone; slightly cohesive; suspected brick debris at -12.25' bg; no odors or staining 0.0 13- 0.0 14- 15-20' bg 50 NA 0.0 15-20' bg 50 NA 0.1 15-17' bg: Medium brown, fine-medium SAND with fine-medium gravel and trace silt; very slightly cohesive; no odors or staining 15-17' bg: Medium brown, fine-medium SAND with fine-medium gravel and trace silt; very slightly cohesive; no odors or staining 17-20' bg: Medium brown, fine-medium SAND; uniform; dry; no odors or staining 17-20' bg: Medium brown, fine-medium SAND; uniform; dry; no odors or staining - -						-		
10-15' bg 48				0.0		-11-	Medium brown, fine-medium S	SAND with little gravel and little silt below ~13.5' bg;
10-15' bg 48 0.0 -12- 	10-15' bg 48					-	fractured stone; slightly cohes	ive; suspected brick debris at ~12.25' bg; no odors
10-15'bg 48 - 0.0 -13- 0.0 -13- 0.0 -14- 0.1 -15- 0.1 -15- 0.1 -16- 0.0 -16- 0.0 -16- 0.0 -17- 0.1 -16- 0.0 -17- 0.0 -17- 0.1 -17- 0.0 -17- 0.0 -17- 0.0 -17- 0.0 -17- 0.0 -17- 0.0 -17- 0.0 -17- 0.0 -17- 0.0 -17- -17- -17- 0.0 -18- -19- -19- -10- -19- 0.0 -20- -20- -20- -20- -20- -21- Medium brown, medium SAND with trace fine-medium gravel; uniform; dry; no odors or staining 0.0 -22- 0.0 -23- <tr< td=""><td></td><td></td><td>0.0</td><td></td><td>-12-</td><td>or staining</td><td></td></tr<>				0.0		-12-	or staining	
15-20'bg 50 NA 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.0		48				-		
15-20' bg 45 0.0 - <t< td=""><td></td><td>0.0</td><td></td><td>-13-</td><td></td><td></td></t<>			0.0		-13-			
15-20'bg 45 0.0 -14- 0.1 -15- -15- 0.0 -16- 0.0 15-17' bg: Medium brown, fine-medium SAND with fine-medium gravel and trace silt; very slightly cohesive; no odors or staining 15-20'bg 50 NA 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 22- 0.0 22- 0.0 22- 0.0 22- <td></td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td></td> <td></td>						-		
15-20' bg 50 NA 0.1 -15- 0.1 -16- 15-17' bg: Medium brown, fine-medium SAND with fine-medium gravel and trace silt; very slightly cohesive; no odors or staining 0.1 15-20' bg 50 NA 0.1 -16- 0.0 -17- - 17-20' bg: Medium brown, fine-medium SAND; uniform; dry; no odors or staining 0.0 -18- - - 0.0 -19- - 0.0 -20- - 0.0 -20- - 0.0 -20- - 0.0 -20- - 0.0 -20- - 0.0 -20- - 0.0 -20- - 0.0 -21- Medium brown, medium SAND with trace fine-medium gravel; uniform; dry; no odors or staining 20-25' bg 45 - - 0.0 - - 0.0 - - 0.0 - - 0.0 - - 0.0 -				0.0		-14-		
15-20' bg 50 NA 0.1 - <						-		
15-20' bg 50 NA 0.0 -16- 15-17' bg: Medium brown, fine-medium SAND with fine-medium gravel and trace silt; very slightly cohesive; no odors or staining 15-20' bg 50 0.0 -17- - 17-20' bg: Medium brown, fine-medium SAND with fine-medium gravel and trace silt; very slightly cohesive; no odors or staining 0.0 -18- - - 17-20' bg: Medium brown, fine-medium SAND; uniform; dry; no odors or staining 0.0 -19- - - - 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		-15-		
15-20' bg 50 NA 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.0						-		
15-20'bg 50 NA 0.1 - very slightly cohesive; no odors or staining 15-20'bg 50 0.1 - -17- 0.0 - - 17-20' bg: Medium brown, fine-medium SAND; uniform; dry; no odors or staining 0.0 - - - 0.0 - - 0.0				0.0		-16-	15-17' bg: Medium brown, fin	e-medium SAND with fine-medium gravel and trace silt;
15-20' bg 50 NA -17- 						-	very slightly cohesive; no odo	rs or staining
15-20' bg 50 NA				0.1		-17-		
15-20 bg 50 0.0 -18- 0.0 -19- - 0.0 -20- 0.0 -20- 0.0 -21- 0.0 -21- 0.0 -22- 0.0 -22- 0.0 -22- 0.0 -22- 0.0 -22- 0.0 -22- 0.0 -22- 0.0 -22- 0.0 -22- 0.0 -22- 0.0 -22- 0.0 -22- 0.0 -22- 0.0 -22- 0.0 -22- 0.0 -22- 0.0 -22- 0.0 -22- 0.0 -22-	45.0011	50	NA			-	17-20' bg: Medium brown, fin	e-medium SAND; uniform; dry; no odors or staining
20-25' bg 45 45 45 0.0	15-20 bg	50		0.0		-18-		
0.0 -19- - 0.0 -20- 0.0 -20- 0.0 -20- 0.0 -21- -22- 0.0 -22- -22-						-		
20-25' bg 45				0.0		-19-		
0.0 -20- 0.0 -21- 0.0 -21- 0.0 -22- 0.0 -22- 0.0 -22- 0.0 -22- 0.0 -23- 0.0 -23- 0.0 -24- 0.0 -24- 0.0 -24- 0.0 -24- 0.0 -24- 0.0 -24- 0.0 -24- 0.0 -24- 0.0 -24- 0.0 -25-						_		
20-25' bg 45				0.0		-20-		
20-25' bg 45 ^{0.0} ⁻²¹⁻ ⁻						-		
20-25' bg 45 45				0.0		-21-	Medium brown, medium SAN	D with trace fine-medium gravel: uniform: drv: no odors
20-25' bg 45 0.0 -22- 0.0 -22- 0.0 -23- 0.0 -24- 0.0 -24- 0.0 -25-						-	or staining	
20-25' bg 45				0.0		-22-		
20-25' bg 45 0.0 -23- 0.0 -24- 0.0 -25-				0.0		-		
0.0 - 0.0 -24- - - 0.0 -25-	20-25' bg	45		0.0		-23-		
0.0 -24- - 0.0 -25-				0.0				
				0.0		-24-		
0.0 -25-				0.0		-		
				0.0		-25-		
		8			NI NI	ativo soil/roc	k	

- Sand pack

- Bentonite seal Cement/bentonite grout
- Riser Pipe
- Well screen

WALDEN ENVIRONMENTAL ENGINEERING BORINGAWELLUD: GB-0/TMW/-6								SHEET: 2 OF 2	
BORING/W	BORING/WELL I.D.: GB-9/TMW-6 CLIENT/SITE: 218 Lake DESCRIPTIVE LOG (continued)							DATE(s) DRILLED: 5/14/19	
DESCRIPT	IVE LOG (continued)					•	
SAMPLE	SAMPLE	BLOWS	PID/FID	GF	RAPHIC	DEPTH			
INTERVAL	REC. (IN.)	PER 6"	(ppm)	C	OLUMN	(FT)		DESCRIPTION OF MATERIAL	
			0.0			- -26-	Medium brown, medium	SAND with trace fine-medium gravel; uniform; dry; no odors	
			0.0			- -27-	or staining; broken stone	e from 29-30' bg	
25-30' bg	42		0.0			- -28-			
			0.0			-29- -			
		NA	0.0			-30- -			
			0.0			-31- -	Same as above; greater higher concentration of f	average grain size below ~32.5' bg, some coarse sand and ine gravel; gritty texture; wet below ~32.5' bg	
30-35' bg 40					▾║	-32- -			
30-33 by)-35' bg 40	0.0			-33- -				
			0.1				-34- -		
			0.1			-35-			
						-	END OF BORING		
						-30-			
						-37-			
						-			
						-38-			
						-			
						-39-			
						-			
						-40-			
						-			
						-41-			
						-			
						-42-			
						-43-			
						-43-			
						-44-			
						-			
						-45-			
NOTES:	Collected :	soil sample	es GB-9 (′	14'-14	.5') and	GB-9 (31	.5'-32.5')/DUPLICATE 05	51419	
	Collected	groundwate	er sample	TMV	/-6				

NA - Not applicable

Native soil/rock

Sand pack

Bentonite seal

Cement/bentonite grout

Well screen

WALE	DEN E	NVIRC	NMEN	ITAL El	NGINE	ERING	SHEET: 1 OF 2
BORING/W	VELL I.D.:	GB-10				CLIENT:	218 Lakeville Acquisition, LLC
DATE(S) D	RILLED:	5/14/19				PROJECT NAME:	218 Lakeville Road
DRILL ME	THOD:	Direct pus	h via Geopro	obe 7822 DT		PROJECT NO.:	IMPL0115.6
BORING D	DIAMETER:	2"	•			PROJECT LOCATION:	Lake Success, NY
SAMPLING	METHOD	/INTERVA	.: Dual-tube	; 5' length		DRILLING CONTRACTOR:	Eastern Environmental Solutions, Inc.
LOGGED I	BY:	JKB					
REMARKS	S:	Begin soil	screening a	nd logging at	10 ft bg		
TEMPORA	ARY WELL	CONSTRU	CTION INF	ORMATION			
SCREEN S	SIZE AND I	MATERIAL:				SCREEN INTERVAL:	
SAND PAC	CK SIZE AN	ND MATER	AL:			SAND PACK INTERVAL:	
REF. POIN	NT:					BENTONITE SEAL INTERVA	L:
STATIC W	ATER DEF	PTH:				DATE:	
REMARKS	5: No well in	stallation					
WELL/BO		BANDON		RMATION			
ABANDON	MENT DA	TE: 5/14/19			ABANDON	MENT METHOD: Backfilled wi	ith clean sand: asphalt patch
		12.0/11/10					
DESCRIPT	FIVE LOG						
SAMPLE	SAMPLE	BLOWS	PID	GRAPHIC	DEPTH		
INTERVAL	REC. (IN.)	PER 6"	(ppm)	COLUMN	(FT)		DESCRIPTION OF MATERIAL
					-10-		
					-		
			0.0		-11-	Medium brown, fine-medium S	AND with fine-medium gravel; broken stone at ~12' bg;
					-	little silt from 13-15' bg, moist a	and slightly cohesive
			0.1		-12-		
10-15' bg	40				-		
			0.0		-13-		
			0.1		-14-		
					-		
			0.1		-15-		
		1			-	15-16' bg: Dull medium brown	n, fine-medium SAND with trace silt, abundant gravel/
			0.4		-16-	crushed stone and suspected	brick debris; no odors or staining
					-		
			0.2		-17-	16-17.5' bg: Dull medium brow	wn, fine-medium SAND with reddish-brown parallel streaks
45.00	05	NA			-	(suspected oxidation); no odor	rs or staining
15-20 bg	35		0.1		-18-		-
					-	17.5-19' bg: Dull medium brow	wn/gray, fine-medium SAND; uniform; dry; no odors
			0.1		-19-	or staining	
					-	19-20' bg: Dull medium brown	, fine-medium SAND; uniform; dry; no odors or staining
			0.1		-20-	Ū	
		1			-		
			0.0		-21-	20-22' bg: Same as above	
					-	, , , , , , , , , , , , , , , , , , ,	
			0.0		-22-	22-25' bg: Medium brown/orai	nge, fine-medium SAND with trace fine gravel; no odors
00.051 h m	22				-	or staining	
20-25 bg	33		0.0		-23-		
					-		
			0.0		-24-		
					-		
			0.0		-25-		
				Fill			

Sand/gravel

Silty sand/clay
Depth to Water

WALD	DEN E	NVIRO	ONME	NTAL	ENG	INEERING	SHEET: 2 OF 2
BORING/W	ELL I.D.: O	GB-10		CLIENT/SITE	: 218 La	keville Road	DATE(s) DRILLED: 5/14/19
DESCRIPT	IVE LOG (continued)				
SAMPLE	SAMPLE	BLOWS	PID/FID	GRAPHIC	DEPTH		
INTERVAL	REC. (IN.)	PER 6"	(ppm)	COLUMN	(FT)		DESCRIPTION OF MATERIAL
			0.0		- -26- - -27-	Medium brown/orange, of rounded cobbles; no	fine-medium SAND with trace fine gravel and trace amounts odors or staining
25-30' bg	34	NA	0.0		-28- - -29- - -30-		
30-35' bg	37		0.1 1.4 1.2 0.1 0.1	▼	- -31- -32- - -33- - -34- - - 35-	Dull medium brown/red- from 33-35' bg; wet belc	-brown/orange, medium SAND; some reddish-brown coloring ow 32' bg; no odors or staining
					- -36- - -37- - -38- - - -39- - - -40-	END OF BORING	
					- -41- - 42- - - - 43- - - 44- - - 45-		
NOTES:	Collected s	soil sample	es GB-10 ((14'-14.5') and	d GB-10 ((32'-32.5')	



WALL	DEN E	NVIRC	NMEN	ITAL EI	IGINE	ERING	SHEET: 1 OF 2
BORING/V	VELL I.D.:	GB-11				CLIENT:	218 Lakeville Acquisition, LLC
DATE(S) D	RILLED:	5/14/19				PROJECT NAME:	218 Lakeville Road
DRILL ME	THOD:	Direct push	n via Geopro	be 7822 DT		PROJECT NO.:	IMPL0115.6
BORING D	IAMETER:	2"				PROJECT LOCATION:	Lake Success, NY
SAMPLING	METHOD	/INTERVAL	: Dual-tube;	5' length		DRILLING CONTRACTOR:	Eastern Environmental Solutions, Inc.
LOGGED I	BY:	JKB					
REMARKS	3:	Begin soil s	screening ar	nd logging at	10 ft bg		
		0010701					
TEMPORA	RY WELL	CONSTRU	CTION INFO	ORMATION			
SCREEN S	SIZE AND N	MATERIAL:				SCREEN INTERVAL:	
SAND PAC		ND MATERI	AL:			SAND PACK INTERVAL:	
REF. POIN						BENTONITE SEAL INTERVA	
STATIC W		'IH:				DATE:	
REMARKS	s: no well in	Istallation					
WELL/BO	REHOLE A	BANDONM	IENT INFOR	RMATION			
ABANDON	IMENT DA	TE: 5/14/19			ABANDO	NMENT METHOD: Backfilled wi	ith clean sand: asphalt patch
							····· •·•···· •·······················
DESCRIPT	FIVE LOG						
SAMPLE	SAMPLE	BLOWS	PID	GRAPHIC	DEPTH		
INTERVAL	REC. (IN.)	PER 6"	(ppm)	COLUMN	(FT)		DESCRIPTION OF MATERIAL
					-10-		
					-	10-13' bg: Medium brown, fine	e-medium SAND with fine-medium gravel, weathered/
			0.1		-11-	broken stone and suspected b	rick debris; no odors or staining
					-		
			0.3		-12-		
10-15' bg	43				-		
			0.1		-13-	13-13.5' bg: Medium brown, fi	ne-medium SAND; uniform; dry; no odors or staining
					-		
			0.2		-14-	13.5-15' bg: Dull medium brow	vn/gray, fine-medium SAND; uniform; dry; no odors
					-	or staining	
			0.0		-15-		
					-		
			0.2		-16-	15-16.25' bg: Same as above	
					-		
			0.1		-17-	16.25-20' bg: Fine-medium SA	AND with little fine-medium gravel and broken stone;
15-20' ba	33	NA			-	interbedded layers of medium	brown/orange and medium dull brown/gray color, each
			0.1		-18-	~9-12" thick; no odors or stain	ing
					-		
			0.1		-19-		
					-		
			0.0		-20-		
					-		
			0.1		-21-	Medium brown, fine-medium S	AND with little fine gravel and trace cobbles; no odors
					-	or staining	
			0.0		-22-		
20-25' ba	20				-		
20-23 by	25		0.1		-23-		
					-		
			0.1		-24-		
					-		
			0.1		-25-		
				Fill			

Sand/gravel Silty sand/clay Depth to Water

WALD	DEN El	NVIRO	ONME	INTAL	ENG	INEERING	SHEET: 2 OF 2
BORING/W	ELL I.D.: O	GB-11		CLIENT/SITE	: 218 La	keville Road	DATE(s) DRILLED: 5/14/19
DESCRIPT	IVE LOG (continued)				
SAMPLE	SAMPLE	BLOWS	PID/FID	GRAPHIC	DEPTH		
INTERVAL	REC. (IN.)	PER 6"	(ppm)	COLUMN	(FT)		DESCRIPTION OF MATERIAL
25-30' bg	35		0.1		- -26- - -27- - -28- -	Medium brown, fine-med or staining	ium SAND with little fine gravel and trace cobbles; no odors
		NA	0.1	<u> </u>	-29- - -30-		
30-35' bg	42		0.1 0.1 0.1 0.0 0.0	~	-31- -32- -33- -33- -34- - -35-	Same as above but with	race fine gravel; wet below ~32.5' bg
					- -36- - -37- - -38- - - 39- - - 40-	END OF BORING	
					-41- - -42- - -43- - -44- - -44- - -45-		
NOTES:	Collected s	soil sample	es GB-11 (14'-14.5') and	I GB-11 (32'-32.5')	



WALL	DEN E	NVIRC	ONMEN	ITAL	ENGINE	ERING	SHEET: 1 OF 2	
BORING/V	VELL I.D.:	GB-12				CLIENT:	218 Lakeville Acquisition, LLC	
DATE(S)	ORILLED:	5/15/19				PROJECT NAME:	218 Lakeville Road	
DRILL ME	THOD:	Direct pus	h via Geopro	be 7822 l	DT	PROJECT NO.:	IMPL0115.6	
BORING D	DIAMETER:	2"				PROJECT LOCATION:	Lake Success, NY	
SAMPLING	G METHOD	/INTERVA	L: Dual-tube	; 5' length		DRILLING CONTRACTOR:	Eastern Environmental Solutions, Inc.	
LOGGED I	BY:	JKB						
REMARKS	S:	Begin soil	screening a	nd logging) at 10 ft bg			
TEMPOR		CONSTRU			AL I			
		CONSTRU						
SCREEN S			5 of 1" diar	neter 20-s		SCREEN INTERVAL: 31-36 C		
	UT JIZE AN		IAL. FIIDIO S	upenor Q	uariz	SAND PACK INTERVAL. 30-3		
STATIC W		лазіну отц. 20 21'				DATE: 5/22/19	L. 29-30 bg	
REMARKS	S' TMW-7	111. 30.21				DATE: 3/22/13		
	5. 110100 1							
WELL/BO	REHOLE A	BANDONN	IENT INFO	RMATION				
ABANDON	MENT DA	TE: N/A			ABANDO	NMENT METHOD: N/A		
DESCRIPT	TIVE LOG							
SAMPLE	SAMPLE	BLOWS	PID (nnm)	GRAPHI				
INTERVAL	REC. (IN.)	FERO	(ppiii)	COLUM	N (F1)		DESCRIPTION OF MATERIAL	
					-10-	10.12' bg: Madium brown fin	a madium SAND with find madium aroual: arushad rock at	
			0.0		- 11	12' hay no odoro or otoining	e-medium SAND with the-medium graver, crushed fock at	
			0.0		-11-	13 bg; no odors or staining		
			0.0		-			
10-15' ba	25		0.0		-12-			
10 10 bg	20		0.0		- 12	12.14 bas Madium brown fin	a madium SILTY SAND with some fine groupl and trace	
		-	0.0		-13-	nobblos: slightly cohosiyo: no	odors or staining	
			0.0		-14-	perpres, signing conesive, no odors or staining		
			0.0		-	14-15' ba: Medium brown fin	e-medium SAND with fine-medium gravel: crushed rock	
			0.0		-15-	at 13' ba: no odors or staining	e-medium GAND with me-medium graver, crushed rock	
		ł	0.0		10			
			0.0		-16-	Modium brown, fino-modium S	SAND with trace fine medium gravel: dry: no odore	
			0.0		10	or staining	SAND with trace line-medium graver, dry, no odors	
			0.0		-17-	or staining		
		NΔ	0.0		- 17 -			
15-20' bg	35.5	1.07.5	0.0		-18-			
			0.0		-10-			
			0.0		-19-			
			0.0		-			
			0.0		-20-			
		1			-			
			0.0		-21-	Same as above		
					_			
			0.0		-22-			
00.0511					-			
20-25° bg	33		0.0		-23-			
					-			
			0.0		-24-			
				-	-			
			0.1		-25-			
					Native soil/roo	k		

Native soil/rock

Sand pack

Bentonite seal

Cement/bentonite grout

Riser Pipe Well screen

WALD	DEN E	NVIRC	ONME	ENTAL	ENG	INEERING	SHEET: 2 OF 2
BORING/W	'ELL I.D.: C	GB-12/TMV	V-7	CLIENT/SIT	E: 218 La	keville Road	DATE(s) DRILLED: 5/15/19
DESCRIPT	IVE LOG (continued)				
SAMPLE	SAMPLE	BLOWS	PID/FID	GRAPHIC	DEPTH		
INTERVAL	REC. (IN.)	PER 6"	(ppm)	COLUMN	(FT)		DESCRIPTION OF MATERIAL
25-30' bg	35.5		0.0 0.0 0.0 0.0 0.0		-26- -27- - -28- - -29- - - -30-	Medium brown, fine-mec or staining	lium SAND with trace fine-medium gravel; dry; no odors
30-35' bg	43	NA	0.0 0.0 0.0 0.0 0.0		- -31- - 32- - - 33- - - 34- - - 35-	Same as above; wet belc	w ~30.5' bg
					- -36- - -37- - -38- - -39- - - 40-	END OF BORING	
NOTES	Collected			(45 5 ¹ 40 ¹) -	-41- -42- -42- -43- -44- - -44- -	20.251.20.751	
NOTES:	Collected :	soil sample groundwate	er sample	(15.5'-16') an s TMW-7 and	d GB-12 (I DUPLIC	(30.25'-30.75') ATE 05152019	

NA - Not applicable

Native soil/rock

Sand pack

Bentonite seal

Cement/bentonite grout

Well screen

WALL	DEN E	NVIRC	NMEN	ITAL EI	NGINE	ERING	SHEET: 1 OF 2
BORING/V	VELL I.D.:	GB-13				CLIENT:	218 Lakeville Acquisition, LLC
DATE(S) D	ORILLED:	5/15/19				PROJECT NAME:	218 Lakeville Road
DRILL ME	THOD:	Direct push	h via Geopro	be 7822 DT		PROJECT NO.:	IMPL0115.6
BORING D	DIAMETER:	2"				PROJECT LOCATION:	Lake Success, NY
SAMPLING	G METHOD	/INTERVAL	.: Dual-tube;	5' length		DRILLING CONTRACTOR:	Eastern Environmental Solutions, Inc.
LOGGED I	BY:	JKB					
REMARKS	8:	Begin soil	screening ar	nd logging at	10 ft bg		
TEMPORA	ARY WELL	CONSTRU		ORMATION			
SCREEN S			•			SCREEN INTERVAL	
SAND PAC	CK SIZE AN	D MATERI	AL:			SAND PACK INTERVAL:	
REF. POIN	NT:					BENTONITE SEAL INTERVAL	:
STATIC W	ATER DEP	TH:				DATE:	
REMARKS	S: No well in	stallation					
WELL/BO		BANDONN	IENT INFOR	RMATION			haless and and the test
ABANDON	NMENT DAT	IE: 5/15/19			ABANDON	WENT METHOD: Backfilled wit	n clean sand; asphalt patch
DESCRIPT	TIVE LOG						
SAMPLE	SAMPLE	BLOWS	PID	GRAPHIC	DEPTH		
INTERVAL	REC. (IN.)	PER 6"	(ppm)	COLUMN	(FT)		DESCRIPTION OF MATERIAL
					-10-		
					-	Medium brown, fine-medium S/	AND; uniform; dry; no odors or staining
			0.0		-11-		
					-		
			0.0		-12-		
10-15' bg	38.5				-		
-			0.0		-13-		
					-		
			0.1		-14-		
					-		
			0.0		-15-		
					-		
			0.0		-16-	Same as above	
					-		
		NIA	0.0		-17-		
15-20' bg	35	INA	0.0		-		
			0.0		-18-		
			0.0		10		
			0.0		-19-		
			0.0		-20-		
					-		
			0.0		-21-	Same as above with trace fine-	medium gravel
					-		
			0.0		-22-		
20-25' ba	43				-		
9			0.0		-23-		
					-		
1			0.0		-24-		
			0.1		-25-		
			U.1		-20-	1	

Fill Sand/gravel

Silty sand/clay
Depth to Water

WALD	DEN E	NVIRO	ONME	INTAL	ENG	INEERING	SHEET: 2 OF 2
BORING/W	ELL I.D.: C	GB-13		CLIENT/SITE	: 218 La	keville Road	DATE(s) DRILLED: 5/15/19
DESCRIPT	IVE LOG (continued)				•
SAMPLE	SAMPLE	BLOWS	PID/FID	GRAPHIC	DEPTH		
INTERVAL	REC. (IN.)	PER 6"	(ppm)	COLUMN	(FT)		DESCRIPTION OF MATERIAL
			0.0		- -26-	Medium brown, fine-me	dium SAND; uniform; no odors or staining; wet below ~29' bg
25-30' bg	35		0.0		-27- -		
Ū			0.0		-28- - -29-		
		NA	0.1		-30-		
		NA	0.1		- -31-	Same as above with sor	ne coarse sand and trace fine-medium gravel throughout;
30-35' ba	34		0.1		-32- -	wei	
30-33 bg	54		0.0	0	-33- - -34-		
			0.0		- - -35-		
					- -36- -	END OF BORING	
					-37- -		
					-38- - -39-		
					- -40-		
					- -41- -		
					-42- -		
					-43- - -44-		
					- -45-		
NOTES:	Collected	soil sample	es GB-13	(14'-14.5') and	I GB-13 ((28.75'-29.25')	



WALI	DEN E	NVIRC	DNMEN	ITAL E	NGINE	ERING	SHEET: 1 OF 2			
BORING/V	VELL I.D.:	GB-14				CLIENT:	218 Lakeville Acquisition, LLC			
DATE(S)	ORILLED:	5/22/19				PROJECT NAME:	218 Lakeville Road			
DRILL ME	THOD:	Direct pusl	h via Geopro	obe 7822 DT	-	PROJECT NO.:	IMPL0115.6			
BORING D	DIAMETER:	2"				PROJECT LOCATION:	Lake Success, NY			
SAMPLING	G METHOD	/INTERVAL	.: Dual-tube	; 5' length		DRILLING CONTRACTOR:	Eastern Environmental Solutions, Inc.			
LOGGED	BY:	JKB								
REMARKS	S:	Begin soil	screening a	nd logging at	t 10 ft bg					
TEMPOR/		CONSTRU	CTION INF	ORMATION						
SCREEN 9	SIZE AND N					SCREEN INTERVAL				
SAND PAG	CK SIZE AN		AI ·			SAND PACK INTERVAL				
REF POIN	JT·					BENTONITE SEAL INTERVAL	1.			
STATIC W	ATER DEF	PTH:								
REMARKS	S: No well in	stallation								
WELL/BO	REHOLE A	BANDONN	IENT INFO	RMATION	-					
ABANDON	MENT DA	TE: 5/22/19			ABANDO	MENT METHOD: Backfilled with	ith clean sand; asphalt patch			
DESCRIPT	TIVE I OG									
SAMPLE	SAMPLE	BLOWS	PID	GRAPHIC	DEPTH					
INTERVAL	REC. (IN.)	PER 6"	(ppm)	COLUMN	(FT)		DESCRIPTION OF MATERIAL			
					-10-					
					-	Medium brown, fine-medium S	AND with trace fine-medium gravel; uniform; no odors			
10.15' ba			0.1		-11-	or staining; dry				
					-					
			0.2		-12-					
10-15' bg	33				-					
			0.2		-13-					
					-					
			0.2		-14-					
					-					
			0.3		-15-					
					-					
			0.0		-16-	Same as above				
					-					
			0.0		-17-					
15-20' ba	40	NA			-					
.o _o .og			0.0		-18-					
					-					
			0.0		-19-					
					-					
			0.1		-20-					
					-					
			0.0		-21-	Medium brown, fine-medium S	AND with little fine-medium rounded gravel and few			
			0.0			stone fragments, dry, no odors	s of staining			
			0.0		-22-					
20-25' bg	42		0.0		-23-					
			0.0		-					
			0.0		-24-					
					-					
			0.0		-25-					
	-	-				-				

Fill Sand/gravel Silty sand/clay ▼ Depth to Water

WALD	DEN E	NVIRO	ONME	ENTAL	ENG	INEERING	SHEET: 2 OF 2
BORING/W	/ELL I.D.: (GB-14		CLIENT/SITE	: 218 La	keville Road	DATE(s) DRILLED: 5/22/19
DESCRIPT	IVE LOG (continued)				
SAMPLE	SAMPLE	BLOWS	PID/FID	GRAPHIC	DEPTH		
INTERVAL	REC. (IN.)	PER 6"	(ppm)	COLUMN	(FT)		DESCRIPTION OF MATERIAL
25-30' bg	42	ΝΑ	0.0 0.0 0.1 0.5 0.0		- -26- - -27- - -28- - -29- - - 30-	Medium brown, fine-me staining; wet below ~28	edium SAND with trace fine-medium gravel; no odors or
30-35' bg	34		0.0 0.0 0.0 0.0 0.0		- -31- - -32- - - -33- - - -34- - - -35-	Same as above with so	me coarse sand mixed throughout; wet
					- -36- - 37- - - 38- - - 39- - - 40-	END OF BORING	
					- -41- - -42- - - -43- - - - 44- - - 45-		
NOTES:	Collected	soil sample	es GB-14	(14'-14.5') and	d GB-14	(28.5'-29')	



<u>Appendix B</u>

Site Photographs

Photograph 1

Ground penetrating radar (GPR) survey for utility markout purposes.



Photograph 2

Representative view of direct-push (Geoprobe) drilling activities.



Photograph 3



Representative view of temporary monitoring well installation.

Photograph 4

Representative view of completed temporary monitoring well.



Photograph 5

Asphalt patch after borehole completion.



Photograph 6

Removal of waste drums for off-site disposal.



Appendix C

Laboratory Analytical Reports

Appendix D

Waste Disposal Manifest

Ple	ise print or Type	29	040	0				<u>eternicai</u>	CAN DURING
	NON-HAZARDOUS WASTE MANIFEST	2. Page 1 of	3. Emergency Response	e Phone	4. Waste T	racking Nu	mber		
the second second	5. Generator's Name and Mailing Address 218 Lakeville Aquisitio 218 Lakeville Aquisitio 218 Lakeville Roa Generator's Phone:	on ile	Generator's Site Address	s (if different t	han mailing addi	ress)			
	6. Transporter 1 Company Name FASTERN ENVIRONMENTAL Sol. 7. Transporter 2 Company Name	him] ~C.		U.S. EPA ID	Number Number	1.35	4 .	
	8. Designated Facility Name and Site Address CICAN WATTER 3248 Rechards	New york Tempace	() -3		U.S. EPA ID	Number			
	9. Waste Shipping Name and Description		10. Conta	ainers	11. Total Quantity	12. Unit			1
ERATOR -	1. PNWA NON HAR, NON RERAR. Solide (Den Cottonss	gentel		DM	200	\geq			
- GEN	2. Am Anz Non Rean Regulate Listike (Purge Wanter) 3.	d From Well) aol	Da	50	SAL			
	4.	,							
	13. Special Handling Instructions and Additional Information								
1 + 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents o marked and labeled/placarded, and are in all respects in proper condition for transpo Generator's/Offeror's Printed/Typed Name	of this consignment ar ort according to applic Sig 218 Lokery	e fully and accurately destable international and national and national and national and national and national accurately destable international and national and national accurately destable international accurately destable international and national accurately destable international accurately destable international accurately destable international and national accurately destable international accurately destable internately desta	cribed above ional governn	by the proper sh nental regulation	ipping name s.	e, and are classifie Month	ed, packa Day	jed, Year
Z L	15. International Shipments Import to U.S.		J.S. Port of en	try/exit:			26	4.9	19.1
H	16. Transporter Signature (tor expons only): 16. Transporter Acknowledgment of Receipt of Materials		Date leavi	ing U.S.:	1	and the second s	and the second		
HANSPOR	Transporter 2 Printed/Typed Name	Sig	nature nature				Month して Month	Day 23 Day	Year IG Year
1	17. Discrepancy		V			1			
	17a. Discrepancy Indication Space Quantity Type	e	Residue Manifest Reference N	lumber:	Partial Rej	ection	F	ull Reject	ión
D FACILII Y	17b. Alternate Facility (or Generator) Facility's Phone:				U.S. EPA ID	Number			
DESIGNALE	17c. Signature of Alternate Facility (of Generator)						Month	Day	Year
	18. Designated Facility Owner or Operator: Certification of receipt of materials covered b	by the manifest excep	t as noted in Item 17a	1			анан айсана 14Ш	Davi	Nerr
1	Alexian Acevedo	Sig	nature	1	too an an		Month	S	rear 19
C	C Labels Printed in the USA 1-800-997-6966	TRANSPORTE	R #1		Reorder	Part# 913-	MANIFES 897-6966	T-C61	HWC

<u>Appendix E</u>

Data Usability Summary Report

Data Usability Summary Report

Pre-Design Soil and Groundwater Sampling Investigation Former Imperial Cleaners Site 218 Lakeville Road Lake Success, NY 11020 BCP Site # C130225

This Data Usability Summary Report (DUSR) has been prepared to validate the results of the predesign soil and groundwater sampling conducted at 218 Lakeville Road, Lake Success, New York on May 14, 2019 through May 22, 2019 in accordance with the NYSDEC-approved *Remedial Work Plan* (RWP) for the Site (Walden, February 2019).

This DUSR has been prepared in accordance with NYSDEC Draft DER-10, Appendix 2B – "*Guidance for Data Deliverables and the Development of Data Usability Summary Reports*". The DUSR provides a thorough evaluation of analytical data without using the services of an independent third-party data validator. The primary objective of the DUSR is to determine whether or not the data presented meets project-specific criteria for data quality and use.

The analytical data were evaluated by Mr. Lawrence Zeman of Walden Environmental Engineering PLLC, whose experience and qualifications to prepare the DUSR for this project are presented in the attached resume. Soil and groundwater samples collected for laboratory analysis were submitted to Phoenix Environmental Laboratories, Inc. (Phoenix) of Manchester, Connecticut, a New York State Department of Health (NYSDOH) Environmental Laboratory Approval Program (ELAP) certified laboratory (NY Lab Registration #11301). Samples for pre-and polyfluoroalkyl (PFAS) substances were then submitted by Phoenix to Con-Test Analytical Laboratory of East Longmeadow, Massachusetts, a NYSDOH ELAP certified laboratory (NY Lab Registration for volatile organic compounds (VOCs) analysis was performed via U.S. Environmental Protection Agency (USEPA) SW-846 Method 5035 and 5030C for soil and groundwater samples. Samples were then analyzed for VOCs via USEPA SW-846 Method 8260C. Samples for 1,4-dioxane were analyzed via USEPA SW-846 Method SW8270-MOD (SIM) and pre-and polyfluoroalkyl (PFAS) substance analysis via USEPA modified Method 537.

The DUSR process consisted of evaluating the analytical data packages produced by Phoenix and Con-Test and answering the following questions.

1. Were there any components of the sampling protocol which deviated from established sampling procedures?

The soil and groundwater samples were collected in laboratory-provided sample containers with prescribed preservatives utilizing Terra Core[®] sample kits for soil sample collection. The sampling followed the established sampling procedures in the NYSDEC-approved *RWP* for the Site (Walden, February 2019).

2. Is the data package complete as defined under the requirements for the NYSDEC ASP Category B or USEPA CLP deliverables?

The sampling and analytical program outlined in the RWP was designed to conform to the NYSDEC ASP Category B and USEPA CLP deliverables criteria. Both field sampling and laboratory analytical activities were performed with built-in QA/QC programs. Duplicate soil and groundwater samples were collected at a frequency of one (1) of each type of sample per day of sampling. (i.e. five (5) soil duplicate samples and four (4) groundwater duplicate samples). The analytical testing included method blanks and batch QA/QC samples as part of the laboratories' standard QA/QC program. Additionally, the samples were handled in compliance with the holding time allowances, meeting the NYSDEC ASP Category B and USEPA CLP deliverables criteria requirements.

3. Have all holding times been met?

Times of sample receipt, extraction and analysis have been evaluated to determine whether the holding time specifications have been met. All of the samples were analyzed within the specified holding times.

4. Do all QC data (blanks, instrument tunings, calibration standards, calibration verifications, surrogate recoveries, spike recoveries, replicate analyses, laboratory controls, and sample data) fall within the protocol-required limits and specifications?

All the primary samples and QC data were reviewed. Duplicate and Matrix Spike sample analyses demonstrated a reasonable level of accuracy in the analytical results. Although not all QA/QC data met the protocol-required criteria, these outliers do not impact the quality of the data package or the reliability of the laboratory results.

5. Have all the data been generated using established and agreed upon analytical protocols?

Laboratory analytical protocols have been developed by the USEPA and are published in SW-846 Method SW5035 for soil sample extraction, SW-846 Method SW5030C for groundwater

sample preparation, SW-846 Method SW8260C for volatile organic compounds (VOCs) analysis, SW-846 Method SW8270-MOD (SIM) for 1,4-Dioxane, and modified Method 537 for PFAS substances analysis. The review of the laboratory deliverables indicated that the analytical data for this project were generated following these standard protocols.

6. Does an evaluation of the raw data confirm the results provided in the data summary sheets and quality control verification forms?

An evaluation of the raw data confirmed the accuracy of results provided in the data summary sheets and the quality control verification forms included in the analytical data packages prepared by the laboratory with one exception. Samples TMW-3 and Duplicate GW 05162019 (duplicate of TMW-3) were mistakenly entered on the chain of custody as soil samples. This soil designation was carried through on all the associated documents, however, the samples were analyzed as liquid samples. These samples and the associated quality control analysis meet the required laboratory criteria, and as such the reliability of the results should not be affected.

7. Have the correct data qualifiers been used?

The laboratory provided a list of qualifiers used in their data reporting. QC failures such as potential sample contamination by laboratory solvents or estimation of sample result values due to analyte concentrations detected above calibration ranges were checked back to the reported data to determine whether the qualifiers were properly used. The evaluation indicated that the laboratory flagged the data using the correct data qualifiers when necessary. The data qualifiers comply with the NYSDEC Analytical Services Protocol (ASP) 95 revised guidelines.

8. Have the minimum detection limits been met?

The minimum detection limits derived from the analytical methods and the laboratories' quality control are as follows:

- VOC for Groundwater: 5.0 ug/L
- VOC for Soil: 0.5 ug/kg
- 1,4-dioxane for Groundwater: 0.2 ug/L
- PFAS for Groundwater: Not required as per EPA Method 537

All the minimum detection limits were met.

Summary

In summary, the analytical data package review conducted while preparing this DUSR found that no data deficiencies, analytical protocol deviations, or quality control problems impacted the quality of the data. No significant QC exceedances were identified and it was determined that none of the data should be rejected.

Prepared by:

Lawrence Zeman tew al f

Attachment A

Resume of Environmental Professional


EDUCATION

B.A. Biology, Minor in Chemistry Queens College

LICENSES/ CERTIFICATIONS

New York State ELAP Laboratory Director

New York State ELAP Laboratory Microbiology Assistant Director

New York Department of Health Laboratory Technologist

OSHA HAZWOPER 40-hour & OSHA 10-hour Certified

Lawrence F. Zeman Project Scientist II



Lawrence has 20 years of environmental and lab consulting experience, taking on difficult laboratory issues and QA/QC. He is very well versed in areas as diverse as regulatory compliance, test protocol development and implementation, management of instrument repair and maintenance, field inspections and on-site audits, correlation studies of various analyses and engineering/technical reporting.

SELECTED RELEVANT EXPERIENCE

Various Clients, New York

 Performed sample collection of various sample types at industrial facilities and construction & remediation project sites;
Conducted soil sample collection, field activities oversight and continuous

air monitoring for Community Air Monitoring Program (CAMP) in accordance with DER-10 as follows:

- Elmhurst Tank Park & Playground, Queens, NY (2009 2011);
- Calvert Vaux Park and Athletic Fields, Brooklyn, NY (2009 2011), as an Independent Environmental Monitor (IEM) on-site technician;
- Harlem Rive Greenway, Bronx, NY (2011 2012);
- Beach Channel H.S. Athletic Fields (2016);
- P.S. 63M William McKinley School, Manhattan, NY (2016);
- P.S. 131 Abigail Adams Public School, Queens, NY (2017);
- Forest Hills High School, Queens, NY (2017)
- Developed and implemented new testing protocols and test procedures;
- Conducted instrumentation repair and scheduled maintenance;
- Conducted correlation studies of various analytic procedures;
- Verified laboratory Quality Assurance and Quality Control procedures and data;
- Responsible for regulatory compliance and quality control;
- Prepared and submitted facilities' annual Zoning Performance Standards Compliance Reports, including noise, vibration, odor and opacity testing for DSNY permit renewal;
- Provided environmental services to ensure compliance for facility's NYS DEC Title V Air Facility Permit. Completed monthly, semi-annual and annual compliance reports;
- Conducted field Inspections and on-site audits;
- Preformed field measurements and recording of Noise and Vibration;
- Prepared Engineering & Technical Reports;
- Prepared New York City Community Right-To-Know Law and SARA reports for Industrial facilities