REMEDIAL INVESTIGATION REPORT

South Island Apartments Site

1 Osgood Avenue/Center Island,

Town of Green Island, Albany County, New York

BCP Site # C401074

August 2018

Prepared for:
South Island Apartments, LLC
c/o Couch White, LLP
540 Broadway, 7th Floor
Albany, New York 12201-2222

Prepared by:

349 Northern Blvd. STE 3
Albany, NY 12205

Envirospec Engineering Project E17-1600

TABLE OF CONTENTS

TABLES

FIGURES

DRAWINGS

APPENDICES

CERTIFICATION

I, Gianna M. Aiezza, certify that I am currently a NYS registered professional engineer and that this Remedial Investigation Report was prepared in accordance with all applicable statutes and regulations and in substantial conformance with the DER Technical Guidance for Site Investigation and Remediation (DER-10) and that all activities were performed in full accordance with the DER-approved work plan and any DER-approved modifications.

Gianna M. Aiezza, P.E.
Name

081422
NYS PE License Number

Signature

8/29/18
Date

1.0 INTRODUCTION

This Remedial Investigation (RI) Report has been prepared by Envirospec Engineering, PLLC (Envirospec) on behalf of South Island Apartments, LLC (SIA) for the South Island Apartments (Site) located at 1 Osgood Avenue/Center Island in the Town of Green Island (and Village), Albany County, New York (see Figure 1).

SIA is submitting this RI Report under the New York State Brownfield Cleanup Program (BCP) as a Volunteer. SIA intends to remediate the Site for a Restricted Residential end use. The Site will be redeveloped as a mixed housing and commercial use consisting of apartments, retail, and recreation areas.

1.1 General Site Description

The property is located on the southern portion of Starbuck Island in the Town of Green Island. The Site is bounded to the north by the Troy/Green Island Bridge and a commercial property formerly consisting of a car wash and office building and to the south by a commercial property and the Hudson River. The Hudson River is located directly to the east and west of the Site (see Figure 1). The Site is identified on the Albany 2016 Final Tax Map as 33.09 Block 1 Lot 3. According to the tax map, the property comprises approximately 8.9 acres. According to aerial images, land uses in the surrounding area include various commercial and residential uses.

The Site is a former petroleum terminal. The terminal was demolished between 2008 and 2010. According to the Albany County Assessor, the Site is zoned as vacant - industrial. The final zoning for the site will be mixed use of restricted residential and commerical.

2.0 SITE HISTORY AND BACKGROUND INFORMATION

According to a 2008 Phase I Environmental Site Assessment (2008 Phase I ESA) conducted by Shifrin & Associates Inc. (Shifrin), the Site was operated as a petroleum terminal since 1918. Available historical maps show a terminal located on the property in 1925. Reportedly during its operation, the Site was improved with sixteen (16) aboveground storage tanks (ASTs), potentially two (2) underground oil-water separator tanks, a truck loading rack, a barge dock, an office building, an electrical shed, storage sheds, brick buildings, earthen dikes, and internal roads. When in service, the terminal loaded and unloaded products that were transported to the Site by barge. Fuels stored at the former terminal included kerosene, low sulfur diesel, ultra-low sulfur diesel, and No. 2 fuel oil. The terminal was not connected to a sewer line; wastewater was discharged to a septic tank and leach field on-Site. According to the NYSDEC Spill Incidents Database, the Site has had thirteen (13) documented petroleum spills, with twelve (12) closed by the NYSDEC and one (1) spill (#8702376) remaining open.

According to the Supplemental Site Investigation in May 2016 conducted by SPEC Engineering (SPEC), the terminal was demolished sometime between 2008 and 2010 although the earthen dikes, at least one (1) underground oil-water separator, and a handful of small, vacant structures remained on the site. There were no other noted uses of this property.

Site surfaces consist largely of compacted gravel with gravel berms. The compacted gravel areas were former secondary containment areas. There are also several small structures, small grassy areas and wooded areas along the banks of the River.

2.1 Site Topography and Drainage

The Site elevation ranges from approximately 5 (at the River) to approximately 30 feet above mean sea level (AMSL) according to the survey completed for the site. Mean high water is at 5.9 feet AMSL. The Site slopes to the east, south and west towards the Hudson River. The banks are steep in most areas. Presumably, site runoff drains to the east or west towards the Hudson River.

2.2 Site Geology and Hydrogeology

The U.S. Department of Agriculture Soil Conservation Service (SCS) soil survey map of the Site describes the general soil type as Urban Land, and is listed as “Not Prime Farmland”.

During the Supplemental Site Investigation in May 2016 conducted by SPEC, test pits were excavated to a depth of approximately 8-10 feet below grade surface (bgs). According to the Investigation Report, soil from test pits consisted primarily of sandy and gravelly fill, with

rounded pebbles to cobbles, broken glass, brick and wood fragments, mussel and clam shells, and lightweight black solid chips throughout. The Investigation Report further states that the Site consists mainly of fill material for at least the top 10 feet, with the presence of slag or cinder ash historical fill present throughput. Based on soil boring logs from the 2006 Site Investigation by Shifrin & Associates Inc. (Shifrin), soil from depth ranges of 0 to approximately 20 feet is a mix of gravel, brick, concrete, and silty material, with some clay layers observed starting at approximately 20 feet bgs.

RI soil borings confirmed the site is fill material to a depth of great than 20 feet bgs. Cross sections developed from borings collected during the RI are included as Drawings C-1, C-2 and C-3.

Based on the New York State Museum Geologic Map of New York, the Site is situated over the Canajoharie Shale Formation. Envirospec could not determine depth to bedrock at the Site from historical records. However, during the 2006 Site Assessment by Shifrin, soil borings were advanced to approximately 30 feet bgs. Furthermore, several groundwater monitoring wells installed prior to the 2006 Site Assessment were found to have depth to bottom of well measurements ranging from 32-38.5 feet bgs.

The Site is located in the Hudson River basin, south of where the Mohawk River and the Hudson River converge. Regional groundwater presumably flows toward the Hudson River. Groundwater flow at the Site was determined to flow west toward the Hudson. Groundwater is tidal and fluctuates with the Hudson River.

2.3 Existing Site Infrastructure

Based on the 2008 Phase I ESA conducted by Shifrin, the Site lies within the water service area of the Village of Green Island, with a supply well located on the northern end of Starbuck Island. Reportedly, wastewater from the terminal was discharged to a septic tank and leach field on-Site.

According to the Supplemental Site Investigation in May 2016 conducted by SPEC, the former petroleum terminal was demolished, although earthen dikes, at least one (1) underground oil-water separator, and a handful of small, vacant structures reportedly remain on the site. A Site Plan is included as Drawing S-1.

2.4 Sensitive Receptors

Area land uses within one half mile of the Site include residential, commercial and industrial uses. Sensitive receptors are not identified on the Site, but are further discussed in the following

sections.

2.4.1 Wetlands and Floodplains

According to the NYSDEC Environmental Resource Mapper (Figure 2) and the USFWS National Wetlands Inventory (Figure 3), there are no state or federal designated wetlands located within the Site boundaries. The Hudson River borders the site to the east and west. Refer to Section 2.4.2 for further discussion on the Hudson River.

Portions of the Site are located in the 100 year flood plain according to the Flood Insurance Rate Map, map number 36001C0202D, effective date 03/16/2015 (Figure 4). The 100 year flood elevation at the Site is approximately 26 ft AMSL.

2.4.2 Hudson River

As previously discussed, the Hudson River is located immediately adjacent to the Site and borders the Site to the east and west. According to the NYSDEC Environmental Resource Mapper, the Hudson River shorelines are known to contain rare plants, rare animals, and significant natural communities.

2.4.3 Residences, Schools, Parks and Water Supply Wells Locations

Residential units are located upgradient within one-tenth mile to the north of the Site on Starbuck Island. Residential units and park areas are noted at locations across the Hudson River to the east, south and west of the Site. The closest residential units and park are within one-tenth mile to the east/southeast of the Site, across the Hudson River. The closest school is located outside a half mile radius of the Site.

As previously referenced, the 2008 Phase I ESA conducted by Shifrin stated that the Site lies within the water service area of the Village of Green Island, with a supply well located on the northern end of Starbuck Island.

3.0 PREVIOUS SITE ASSESSMENTS AND INVESTIGATIONS

Previous investigations encompassing portions of the Site were performed on the BCP Site and are briefly summarized below. Historical sampling results above restricted residential soil cleanup objectives (RRSCOs) are included as Drawing S-2.

3.1 2006 Shifrin Site Investigation

On January 19, 2006, Shifrin submitted a Site Investigations Report to the NYSDEC (2006 SI Report). The 2006 SI Report discussed the December 2005 installation of five (5) new monitoring wells at the Site and the depth to groundwater measurement of seven (7) existing monitoring wells. The installation of these wells included a soil investigation of each soil boring advanced at the Site.

Samples were analyzed for VOCs and SVOCs. The 2006 SI Report indicated concentrations of chrysene in soil samples from two (2) of the soil borings exceeded cleanup criteria detailed by NYSDEC Technical and Administrative Guidance Memorandum No. 4046 (which has since been replaced by CP-51 in 2010).

3.2 2008 Shifrin Phase I ESA

On June 3, 2008, Shifrin prepared a Phase I Environmental Site Assessment Report (2008 Phase I ESA) summarizing available historical records for the Site and Site observations. The Phase I ESA claimed that the facility had been a petroleum terminal for approximately 90 years.

The 2008 Phase I ESA concluded that there was evidence of recognized environmental conditions (RECs) at the Site in connection with releases which had not yet been closed by the NYSDEC. Shifrin recommended that sampling of the monitoring wells and recovery of free product be continued with the requisite reporting to NYSDEC.

3.3 2010 Shifrin Site Assessment

On February 25, 2010, Shifrin issued a Site Assessment letter to the NYSDEC (2010 SA Letter). The 2010 SA Letter discussed the advancement and investigation of eight (8) new soil borings at the Site. According to Shifrin, four (4) were to be advanced near previously advanced S-8, and four (4) were advanced near previously advanced S-17. Samples were collected from the new soil borings and analyzed for VOCs and SVOCs. Some exceedances of TAGM 4046 cleanup objectives were observed, however there were no exceedances of RRSCOs.

Shifrin concluded that additional soil borings were not necessary to further delineate the contaminants on the Site, and that they wished to discuss with the NYSDEC the procedures required to obtain closure of the Site.

3.4 2010 Shifrin Product Removal Letter

On September 21, 2010, Shifrin issued a letter to NYSDEC discussing weekly product recovery from six (6) monitoring wells and provided graphs of product thickness versus time from March 19 to August 26, 2010. Reportedly, many of the recorded thicknesses were either none or trace product, with all wells consistently holding much less than one (1) foot of free product.

Due to the collected data and the low recharge rate of wells, Shifrin recommended that weekly vacuum extraction of product from these wells be discontinued. Shifrin instead recommended using a mobile multi-phase extraction system, as well as continuing to gauge accessible wells on a bi-weekly basis at the Site.

3.5 2014 Shifrin Product Removal Letter

On March 11, 2014, Shifrin issued a letter to the NYSDEC discussing continual efforts to remove residual free product from the facility, which had preceded the purchase of the site by NATCO.

According to Shifrin's review of gauging data from the vacuum extraction event on January 23, 2014, no measurable free product remained in the gauged wells (MW-9, MW-11, MW-15, MW-22, MW-23 and MW-24) following completion of the extraction event. Reportedly, on January 24, the wells were re-gauged, and product thickness had rebounded in MW-11 and MW-22. Shifrin also reported that free product was present in MW-4, MW-8, MW-18, MW-20, and MW-21 on January 24th. Reportedly MW-4, MW-8, MW-18, MW-20, and MW-21 were gauged upon completion of the second day of extraction and had no measurable free product present. Historical measured LNAPL thickness in site monitoring wells is shown on Drawing S-3.

According to the letter, NATCO closed the terminal and removed the aboveground steel tanks and associated piping.

Shifrin stated that high vacuum extraction was an appropriate technology to address the residual product and concluded by proposing to install four (4) more extraction wells in the vicinity of MW-17, MW-22 and MW-24 to reduce the well spacing to within the radius of influence of the extraction system. Though the specific well IDs are not provided in the 2014 letter, it seems to refer to MW-25, MW-26, MW-27, and MW-28, which were installed in the former loading rack

area sometime between the 2014 letter and the 2016 site activities discussed in Section 3.6. Well construction details are not available for these four (4) wells.

3.6 2016 SPEC Supplemental Upper Soils Investigation

SPEC performed a Supplemental Investigation in May 2016. The investigation consisted of excavating twelve (12) test pits across the Site and sampling representative soil (0 to ±10 feet bgs) for laboratory analytical testing.

According to SPEC, analytical testing of soil was based upon the former site use (petroleum storage and distribution) and Site fill materials. Reportedly, the analytical results demonstrated the soil contamination was consistent with detected levels of metals, SVOCs and VOCs which exceeded Unrestricted Use Soil Cleanup Objectives set by NYSDEC in 6 NYCRR Subpart 375-6. SPEC stated that one test pit sample exceeded acceptable Toxicity Characteristic Leaching Procedure (TCLP) levels for lead.

Monitoring well samples from MW-22, MW-23, MW-25, and MW-28 were analyzed for SVOCs and VOCs. Exceedances of Part 703 Groundwater Standards were observed for benzene in MW-22 (23 ppb) and MW-23 (43 ppb). According to the Investigation Report, specific gravity analysis of free phase hydrocarbon material observed in monitoring wells was consistent with No. 2 Fuel Oil (weathered) or No. 4 Fuel Oil.

Soil and groundwater results from the May 2016 investigation are included on Drawing S-4.

3.7 Remedial Investigation

In summer 2017, Envirospec, on behalf of SIA, completed a RI to define the nature and extent of contamination under the BCP. The following items were completed as part of the RI:

- Further Site investigation to define the nature and extent of on-site contamination;
- Sampling of nine (9) existing groundwater monitoring wells (2 sampling events);
- Completion of an on-Site and off-Site qualitative Human Health Exposure Assessment (HHEA);
- Completion of a Fish and Wildlife Resource Impact Analysis (FWIRA).

4.0 RI SCOPE OF WORK

The RI was performed to further delineate the nature and extent of the contamination on-site. The specific goals of the RI are outlined below:

- Advance a series of soil borings across the property for the purpose of developing a soil profile across the property;
- Collect and analyze representative surface and subsurface soil samples to supplement samples collected in previous investigations;
- Collect and analyze bank samples and sediment samples to investigate characterize the banks and sediment at and surrounding the Site;
- Investigate the potential for LNAPL seeps into the Hudson River;
- Collect and analyze soil vapor samples to evaluate whether actions are necessary to address exposures related to soil vapor intrusion;
- Sample existing groundwater wells to assess groundwater impacts from on-Site sources and to better understand Site hydrogeology;
- Collect soil and groundwater data to support the completion of a Qualitative Human Health Exposure Assessment in accordance with DER-10 Section 3.3(c) 4;
- Gather data necessary to develop a FWIRA in accordance with DER-10 Section 3.10(c).

Soil borings were completed in July 2017. Soil vapor sampling, sediment sampling and bank sampling was completed in August 2017. Two rounds of groundwater sampling were completed, with the first in early September and the second in late October 2017. A NYSDEC representative was on site periodically during investigation activities to guide selection of sample locations and to observe progress. The specific work completed during the RI included the following:

- Completion of soil borings at 36 locations across the site with the collection of 104 soil samples at varying depths;
- Collection of bank samples at nine (9) locations at two depths per location;
- Collection of five (5) sediment samples along the western bank;
- Collection of one (1) pore water sample along the western bank to investigate the potential for seepage of LNAPL into the Hudson;
- Collection of eight (8) soil vapor samples and one (1) ambient air sample;
- Two rounds of groundwater sampling at nine (9) existing monitoring wells.

The summary of samples collected during the RI is provided in Table 1 in Section 5.0. Data collected during the RI was used to develop a Conceptual Site Model, provided in Appendix A.

5.0 SUMMARY OF RI ACTIVITIES

The RI consisted of sampling across the Site to further delineate the nature and extent of contamination and to identify potential source areas. The investigation was completed as outlined in the sections below. A summary of samples collected is provided in Table 1.

5.1 Soil Borings

A total of 36 soil borings were completed across the Site (not including offsets) on an approximate 100 foot grid. Borings were relocated as necessary for accessibility and were offset to get enough material for sampling. Borings were completed to groundwater, which was at a maximum of approximately 33 feet bgs. A large portion of the site consists of former secondary containment areas which have of a top layer of crushed stone. Within the former secondary containment areas, two samples were collected from each boring. One sample was collected from the layer immediately below the crushed stone, which was approximately 2 inches to 2 feet bgs. A second sample was collected from the interface with groundwater. Outside of the former secondary containment areas, three (3) samples were collected from each boring, with one sample collected from the surface at 0-2 inches, one sample collected from 2 inches – 2 feet and one sample collected from the interface with groundwater.

Additional samples were collected from soils that looked different or where there was a defined fill layer. Additional samples were also collected from soil with elevated PID readings. All samples were analyzed for metals. At least half of the samples were analyzed for additional parameters as shown in Table 1. Soil boring sampling was conducted in accordance with Section 5.2. Surveyed soil boring locations are shown on Drawing S-5.

5.1.1 Protection of Groundwater Sampling

In order to determine the potential for metals, such as lead and mercury, to impact groundwater, half of the samples collected from the soil borings were analyzed for SPLP metals via EPA SW-846 Method 1312. Samples analyzed for SPLP are shown in Table 1.

5.1.2 Bank Samples

Bank samples were collected along the eastern and western borders of the site along the Hudson. Samples were collected from 0-6 inches bgs and 6 inches-2 feet bgs, as outlined in Table 1.

Samples were collected approximately halfway down the bank, with five (5) bank samples collected along the west shoreline and four (4) bank samples collected along the east shoreline, for a total of nine (9) sample locations. A fifth location could not be collected on the east

shoreline due to access issues. The samples were collected at random locations along the banks, based on discussions with NYSDEC in the field, with two (2) sample locations in the bank adjacent to the former loading rack where LNAPL has been documented.

5.1.3 Sediment Samples

Sediment samples were collected from the western side of the site within the river at low tide. Five (5) sediment samples were collected along the western shoreline of the site. The samples were collected at random locations along the River, based on discussions with NYSDEC in the field, with 2 samples from sediment where potential LNAPL seeps were identified. Samples were collected from 0-6 inches bgs as outlined in Table 1. A pore water sample was also collected from the area of the potential seeps. Sediment samples were not collected along the eastern shoreline given the rocky shoreline and poor accessibility of the sediment.

5.1.4 Soil Vapor Sampling

Soil vapor sampling was completed in accordance with the approved protocol included in the RI Work Plan. Samples were analyzed by Centek Laboratories in Syracuse, NY. Soil vapor samples were collected from eight (8) locations across the site, with two (2) samples being collected along the property line adjacent to the car wash and office building. Locations were approved by NYSDEC. Surveyed sample locations are shown on Drawing S-5.

Table 1
Samples Collected during RI[a]

Medium Sampled	Number of Samples Collected	Analyzed
Surface Soils (0 to 2" bgs)	18	18 – Metals 9 – Full
Shallow Subsurface Soils (0 to 2' bgs or 2" to 2' bgs)	36	36 – Metals 19 – Full
Intermediate Subsurface Soils (varying depths)	13	Dependent on layer sampled
Groundwater Interface Soils (approx. 25 to 30' bgs)	37	36 – Metals 19 - Full

Medium Sampled	Number of Samples Collected	Analyzed
Shallow Bank Soils (0 to 6" bgs)	9	9 - Full
Subsurface Bank Soils (6" to 2' bgs)	9	9 - Full
Sediment (0 to 6" bgs)	5	5 – Full
Pore Water	1	Full
Soil Vapor	8	TO-15 list
Ambient Air	1	TO-15 list
Groundwater	17	17 - Full

[a] = The table does not include duplicate samples. "Full" analyses included metals, VOCs, SVOCs, PCBs, pesticides, TPH, and SPLP.

5.2 Soil Sampling Procedures

Soil borings were completed with 5 foot macro core samplers via Geoprobe©. Each interval was characterized and screened for the presence of VOCs using a photoionization detector (PID). A grab sample was collected from each interval and placed in a ziplock bag for a headspace reading. Upon reaching the completion of each soil boring, field results including PID, visual, and olfactory results were reviewed. A grab sample was collected for VOCs from the interval with the highest reading on the PID or if the layer looked significantly different from other layers that were already sampled. The remainder of that sampling interval was composited for SVOCs, metals, pesticides, and PCBs. If there was no visual contamination and no headspace reading, the originally planned interval was sampled. In areas with poor recovery, the boring was offset by approximately a one (1) foot to obtain the remainder of the samples from the same sampling interval(s). Soil boring logs are provided in Appendix B.

Soil samples were collected using dedicated sampling tools as described in the Sampling and Analysis Plan / Quality Assurance Project Plan (SAP/QAPP) approved as part of the RI Work Plan. Representative soil samples were placed in laboratory provided sample bottles and transported under chain-of-custody command to Pace Analytical Services in Melville, NY. All laboratories used on this project are New York State Department of Health (NYSDOH) Environmental Laboratory Approval Program (ELAP)-certified laboratories.

Envirospec collected samples in accordance with the protocols described in the SAP/QAPP. USEPA and NYSDEC approved sample collection and handling techniques were used during implementation of the investigation.

Samples for chemical analysis were analyzed in accordance with USEPA SW-846 methodology with an equivalent Category B deliverable package to meet the definitive-level data requirements and appropriate method detection limits for comparison to applicable cleanup objectives. A Data Usability Summary Report (DUSR) was completed by a third-party data validation expert in accordance with the SAP/QAPP. The DUSR is discussed in Section 8.0.

Bank samples and sediment samples were collected by hand on the western side of the site. A shovel was used in the bank to get to the proposed sample depths. Bank samples on the eastern side of the site were collected from an excavator bucket, given the inability of personnel to safely access the sampling locations. This sampling approach was approved by NYSDEC in the field.

Quality Assurance/ Quality Control (QA/QC) Measures were followed as discussed in the SAP/QAPP provided in the RI Work Plan. The specific contaminants of concern that investigation samples were analyzed for are shown in Table 1.

5.3 Groundwater Sampling

No additional groundwater monitoring wells were installed as part of the investigation activities. Two groundwater sampling events were completed as part of the RI. During the first sampling event in September 2017, nine (9) existing groundwater monitoring wells (MW-2, MW-3, MW-4, MW-7, MW-10, MW-11, MW-13, MW-14, and UMW-D) were sampled to evaluate current groundwater quality.

A vacuum truck was brought onsite prior to the first sampling event to attempt to extract LNAPL from the impacted wells so that sampling could be completed. Extraction was attempted on a total of eighteen (18) wells. Some were observed to be dry after a very short period of extraction. The more heavily impacted wells, including MW-5 and MW-22, did not show significant decreases in LNAPL thickness after extraction.

It was decided, with NYSDEC approval, to avoid sampling the heavily impacted wells and to focus, instead, on wells MW-4, MW-10, and MW-11. These wells are located in the former loading rack area and showed very thin layers of LNAPL so sampling could be completed beneath the LNAPL layer. Attempts were made to collect a sample from an additional well in the former loading rack area, but the remaining wells could not be sampled either due to the presence of significant LNAPL, lack of flow, or very high turbidity.

A second sampling event was completed at the request of NYSDEC. Eight (8) of the wells sampled during the first event were sampled again in late October 2017. One well (MW-7) could not be resampled due to issues with high turbidity and lack of sufficient recharge of the well. Two attempts were made to sample this well on different days, and both were unsuccessful.

The wells were sampled in accordance with Table 2 below. Groundwater monitoring wells that were sampled and with results above groundwater standards are shown on Drawing R-8.

Table 2
Investigation Groundwater Sampling

Sample Location ID	Analyses Completed
MW-2, MW-3, MW-4, MW-7, MW-10, MW-11, MW-13, MW-14, UMW-D	TCL VOCs by EPA Method 8260, TPH – GRO and DRO TCL SVOCs by EPA Method 8270 PCBs by EPA method 8082 Pesticides by Method 8081 TAL Metals by EPA Method 6010 (total and dissolved) (mercury via EPA Method 7471).

5.3.1 Groundwater Flow Evaluation

Prior to sample collection, static water levels were measured and recorded during the RI activities from existing Site groundwater monitoring wells. Water table level data was collected and used to develop the groundwater elevation contours provided as Drawings C-4 and C-5, which show groundwater elevations at high and low tide, respectively. Product thickness was also measured and documented. Product thicknesses are shown in Drawing R-6.

5.4 Groundwater Sample Collection

For the first sampling event, Envirospec personnel purged the monitoring wells using a peristaltic pump following low-flow purge and sample collection procedures. The wells were sampled using the pump for all analyses except VOCs and TPH-GRO. VOCs and TPH-GRO were collected with a dedicated disposable bailer due to the entrainment of air bubbles in the tubing that was observed using the peristaltic pump and concerns that this could result in loss of volatiles. This sampling method change was made in the field with NYSDEC approval.

For the second sampling event, a submersible pump was used to collect the samples given

concerns about depth limitations of the peristaltic pump. Wells were purged at a higher flowrate (approximately 0.6 L/min) and then flow was decreased for low-flow sample collection. This approach was approved by NYSDEC prior to sampling. As with the first sampling round, VOCs and TPH-GRO were collected with dedicated disposable bailers. The pump tubing also showed a significant entrainment of air bubbles when the submersible pump was used. The pump was decontaminated between sample locations, and a field equipment blank was collected at the completion of the sampling event to determine the effectiveness of the decontamination procedures.

For both events, groundwater samples were placed in pre-cleaned laboratory provided sample bottles, cooled to 4ºC in the field, and transported under chain-of-custody command to Test America. Well sampling logs are included in Appendix C.

5.5 Decontamination and Management of Investigation Derived Waste

The sampling methods and equipment selected for the soil sampling and groundwater sampling limited both the need for decontamination and the volume of waste material to be generated. Personal protective equipment (i.e. nitrile gloves) and disposable sampling equipment (i.e., polyethylene tubing) were placed in plastic garbage bags for disposal as solid waste at the Site.

Drill cuttings were placed back into soil borings and water generated on-Site during the RI was drummed and disposed of off-Site in conformance with applicable waste regulations.

5.6 Survey

Following completion of a sampling location, locations were staked and marked. Following completion of the field work, sampling locations were surveyed for development of a Site map showing the final sampling locations. Final locations are shown on Drawing S-5.

6.0 RESULTS OF INVESTIGATION

The results of the investigation are discussed in the following sections. Field Documentation of the RI including soil boring logs, groundwater sampling logs and photo logs are included in Appendices B, C and D, respectively. Tables with full sampling results are included in Appendix E.

6.1 Soil Boring Samples

Full results from the soil borings completed across the site are provided in Table 13, attached in Appendix E. Surface and subsurface soil data are discussed separately in the following sections.

6.1.1 Surface Soils

Surface soil samples (0 to 2") were collected outside of former containment areas where gravel was not present at the surface. Drawings R-1 and R-3 show exceedances of soil cleanup objectives for metals and SVOCs, respectively. Drawing R-5 shows TPH results for surface soils.

Exceedances of Restricted Residential Soil Cleanup Objectives (RRSCOs) and Commercial Soil Cleanup Objectives (CSCOs) for metals were consistent with historic fill. If site soils meet RRSCOs, then by default they also meet the CSCOs, which are less stringent. No source areas of metals were identified in surface soils. Metals with exceedances were lead, copper, mercury, arsenic, and one exceedance for barium. Table 3 summarizes the surface soil exceedances of Unrestricted Use Soil Cleanup Objectives (UUSCOs), RRSCOs, CSCOs, and Industrial Soil Cleanup Objectives (ISCOs). The results for all samples are provided in Table 13 in Appendix E.

Exceedances of RRSCOs for SVOCs were observed for benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, and indeno(1,2,3-cd)pyrene (see Table 4). Of the SVOCs analyzed, only benzo(a)pyrene exceeded the CSCO (SB-11, SB-19, SB-32). Benzo(a)pyrene was detected in several samples at similar levels across the site. Although the results exceed the cleanup standard of 1 ppm (residential, commercial and industrial), the results are consistent with a fill material and there was no source area found. In addition to the exceedances shown in Table 3, low level exceedances of UUSCOs were also observed for 4,4'-DDT and PCB-1254 in SB-24AO and for 4,4'-DDD, 4,4'-DDE, and 4,4'-DDT at SB-7AO.

There are no cleanup goals for TPH, although an elevated detection was observed at SB-7 (2850 ppm). No exceedances of RRSCOs were observed for pesticides, PCBs, or VOCs in surface soils.

Table 3.
Exceedances for metals in surface soils

Analyte (ppm)	UUSCO	RRSCO	CSCO	ISCO	SB-2A	SB-4A	SB-5A	SB-6A	SB-7A	SB-8A
Lead	63	400	1000	3900	-	-	521	637	76.5	1260
Mercury	0.18	0.81	2.8	5.7	-	-	2.1	4.5	-	1.6
Arsenic	13	13	16	16	-	-	-	-	-	13.2
Barium	350	400	400	10000	-	362	-	-	-	409
Chromium	1	110	140	800	9.9	11.7	17.2	32.2	7.8	65.6
Copper	50	270	270	10000	-	-	98	129	-	143
Nickel	30	310	310	10000	-	-	-	33	-	38.5
Silver	2	180	1500	6800	-	2.1	2.2	3.9	-	-
Zinc	109	10000	10000	10000	161	-	384	470	162	645

Analyte (ppm)	UUSCO	RRSCO	CSCO	ISCO	SB-11A	SB-15A	SB-17A	SB-19A	SB-20A	SB-21A	SB-22A
Lead	63	400	1000	3900	456	722	1090	1330	746	175	1150
Mercury	0.18	0.81	2.8	5.7	0.52	3	1.4	5.9	6.7	0.36	4.6
Arsenic	13	16	16	16	-	14.7	14.6	17.4	19.1	-	29.9
Barium	350	400	400	10000	-	-	-	395	-	-	-
Beryllium	7.2	72	590	2700	-	40.3	-	-	-	-	-
Cadmium	2.5	4.3	9.3	60	-	-	-	-	-	-	3
Chromium	1	110	140	800	25.5	-	15	33	20	7.7	36.1
Copper	50	270	270	10000	64.9	393	146	327	242		216
Manganese	1600	2000	10000	10000	-	-	-	-	-	-	-
Nickel	30	310	310	10000	-	125	-	79.8	49	-	44.6
Silver	2	180	1500	6800	-	3.7	3	7	2.6	2.3	15.9
Zinc	109	10000	10000	10000	385	800	576	-	569	368	615

Analyte (ppm)	UUSCO	RRSCO	CSCO	ISCO	SB-23A	SB-24A	SB-26A	SB-32A	SB-33A
Lead	63	400	1000	3900	112	477	454	1030	-
Mercury	0.18	0.81	2.8	5.7	0.23	0.44	-	-	-
Arsenic	13	16	16	16	-	16.7	-	15.1	-
Barium	350	400	400	10000	-	-	-	358	-
Beryllium	7.2	72	590	2700	-	-	-	8.4	-
Cadmium	2.5	4.3	9.3	60	-	-	-	-	-
Chromium	1	110	140	800	5.2	36.5	25.6	75.8	4.3
Copper	50	270	270	10000	-	91.5	81.9	569	-
Manganese	1600	2000	10000	10000	2150	-	-	-	-
Nickel	30	310	310	10000	-	41.3	54.4	122	-
Silver	2	180	1500	6800	-	3.9	2.7	6.3	-
Zinc	109	10000	10000	10000	209	432	324	1820	-

Table 4.
Exceedances for SVOCs in surface soils

Analyte (ppm)	UUSCO	RRSCO	CSCO	ISCO	SB-11A	SB-19A	SB-20A	SB-24A	SB-26A	SB-32A
Benzo(a)anthracene	1	1	5.6	11	1.43	1.43	-	-	-	1.69
Benzo(a)pyrene	1	1	1	1.1	1.66	1.47	-	-	-	1.74
Benzo(b)fluoranthene	1	1	5.6	11	2.71	2.3	1.09	3.99	1.17	2.49
Benzo(k)fluoranthene	0.8	3.9	56	110	1.33	0.861	-	-	-	1.14
Chrysene	1	3.9	56	110	1.68	1.68	-	-	-	1.86
Dibenz(a,h)anthracene	0.33	0.33	0.56	1.1	-	-	-	0.404	-	-
Indeno(1,2,3-cd)pyrene	0.5	0.5	5.6	11	0.683	0.741	-	-	-	0.884

6.1.2 Subsurface Soil

Subsurface soil samples were collected in shallow soils (generally 2" to 2') and at the groundwater interface (approximately 25' to 30'). Intermediate depth samples were also collected based on PID results and visual observations in the field. Drawings R-2 and R-4 show exceedances of soil cleanup objectives for metals and SVOCs, respectively. Drawing R-5 shows TPH results for subsurface soils.

6.1.2.1 Shallow Subsurface Soil

Exceedances of RRSCOs were detected for metals in shallow (2" to 2') subsurface soils. The metals and levels detected were consistent with those expected in historic fill. Table 5 summarizes the surface soil exceedances of UUSCOs, RRSCOs, CSCOs, and ISCOs. There was no evidence of a specific source area of metals in subsurface soils.

Several exceedances of RRSCOs for SVOCs were detected in shallow subsurface soils. SVOC results are summarized in Table 6. Benzo(a)pyrene was detected in several samples at similar levels across the site. Although the results exceed the cleanup standard of 1 ppm (residential, commercial and industrial), the results are consistent with a fill material and there was no source area found. In addition to the exceedances shown in Table 5, low level exceedances of UUSCOs were also observed for acetone in SB-35BO and SB-36C, for methyl ethyl ketone at SB-17BO, and for 4,4'-DDT at SB-26BO.

Although there are no cleanup standards available for TPH, an elevated detection of 5630 ppm was observed at SB-23. This sample was collected north of the former loading rack along the roadway. It is close to MW-5 where LNAPL was observed at the top of the water table at a thickness of approximately 1.23'. No exceedances of RRSCOs were observed for pesticides,

PCBs, or VOCs in shallow subsurface soils.

Table 5.
Exceedances for metals in shallow subsurface soils

Analyte (ppm)	UUSCO	RRSCO	CSCO	ISCO	SB-1BO	SB-2BO	SB-3BO	SB-4BO	SB-5BO	SB-6BO
Lead	63	400	1000	3900	476	1370	1080	1290	6520	222
Mercury	0.18	0.81	2.8	5.7	0.89	5.9	1.5	2.3	2.1	1.6
Arsenic	13	16	16	16	13.8	-	20.9	17.9	42.6	-
Barium	350	400	400	10000	-	423	-	476	1740	-
Cadmium	2.5	4.3	9.3	60	-	-	-	-	6.6	-
Chromium	1	110	140	800	12.2	15.7	11.3	26.2	28.5	9.1
Copper	50	270	270	10000	-	126	135	302	556	65.2
Manganese	1600	2000	10000	10000	-	-	-	1930	-	-
Nickel	30	310	310	10000	-	47.3	-	-	33	-
Selenium	3.9	180	1500	6800	-	-	-	-	7	-
Silver	2	180	1500	6800	-	2.5	2.4	3.1	5.3	2.7
Zinc	109	10000	10000	10000	267	823	452	948	2990	174

Analyte (ppm)	UUSCO	RRSCO	CSCO	ISCO	SB-7BO	SB-8B	SB-9B	SB-10B	SB-11B	SB-12BO
Lead	63	400	1000	3900	1820	1230	116	373	469	2200
Mercury	0.18	0.81	2.8	5.7	39.4	8.5	1	2.6	1.1	19.3
Arsenic	13	16	16	16	23.5	18.3	-	13.2	-	16
Barium	350	400	400	10000	408	368	-	-	-	-
Chromium	1	110	140	800	20.5	51.7	12.8	16.7	20.5	23.7
Copper	50	270	270	10000	724	282	294	111	186	1740
Nickel	30	310	310	10000	-	63.5	-	32.4	-	-
Silver	2	180	1500	6800	3.7	-	177	3.9	-	-
Zinc	109	10000	10000	10000	540	897	-	289	310	873

Analyte (ppm)	UUSCO	RRSCO	CSCO	ISCO	SB-13B	SB-14BO	SB-15O	SB-16BO	SB-17BO	SB-18O1	SB-19BO
Lead	63	400	1000	3900	711	-	-	240	524	687	1340
Mercury	0.18	0.81	2.8	5.7	2.6	-	-	0.51	1.6	1.1	14.1
Arsenic	13	16	16	16	14.3	16.2	-	-	45.1	30.1	19
Barium	350	400	400	10000	-	-	-	414	-	-	360
Cadmium	2.5	4.3	9.3	60	-	-	-	-	-	-	2.6
Chromium	1	110	140	800	18.6	7.5	5.4	9.9	17.8	20.2	23.2
Copper	50	270	270	10000	118	-	-	51	85.1	173	361
Nickel	30	310	310	10000	-	30.9	-	30.1	-	36.1	38.2
Selenium	3.9	180	1500	6800	-	-	-	-	11	-	-
Silver	2	180	1500	6800	4.5	7	2.2	3.1	3.6	4.5	4.6

Analyte (ppm)	UUSCO	RRSCO	CSCO	ISCO	SB-13B	SB-14BO	SB-15O	SB-16BO	SB-17BO	SB-18O1	SB-19BO
Zinc	109	10000	10000	10000	474	-	-	311	254	558	922

Analyte (ppm)	UUSCO	RRSCO	CSCO	ISCO	SB-20BO	SB-21BO	SB-22B	SB-23BO	SB-24BO	SB-25BO
Lead	63	400	1000	3900	1310	1670	963	332	254	1010
Mercury	0.18	0.81	2.8	5.7	25.1	0.9	2	0.57	0.24	0.53
Arsenic	13	16	16	16	19.7	18.8	19.4	13.9	-	16
Chromium	1	110	140	800	18.6	11	52.4	13	41.7	8.6
Copper	50	270	270	10000	185	163	226	63.7	68.6	91.2
Nickel	30	310	310	10000	-	-	30.1	41.1	37.2	-
Silver	2	180	1500	6800	2.3	2.8	-	-	3.1	2.5
Zinc	109	10000	10000	10000	612	364	823	274	313	224

Analyte (ppm)	UUSCO	RRSCO	CSCO	ISCO	SB-26BO	SB-27B	SB-28BO	SB-29BO	SB-30B	SB-31B
Lead	63	400	1000	3900	751	-	246	560	1060	521
Mercury	0.18	0.81	2.8	5.7	0.73	-	0.31	0.58	1.1	1.5
Arsenic	13	16	16	16	-	-	-	-	-	17
Chromium	1	110	140	800	66.8	13.9	8.2	6.2	18.1	21.1
Copper	50	270	270	10000	107	-	-	265	150	115
Nickel	30	310	310	10000	50.4	-	-	-	-	-
Silver	2	180	1500	6800	2.8	3.4	138	3.4	-	-
Zinc	109	10000	10000	10000	404	-	-	973	432	-

Analyte (ppm)	UUSCO	RRSCO	CSCO	ISCO	SB-32B	SB-33BO	SB-34BO	SB-35BO	SB-36BO
Lead	63	400	1000	3900	387	673	2290	198	575
Mercury	0.18	0.81	2.8	5.7	0.93	1	11.6	-	0.55
Arsenic	13	16	16	16	-	16	20.3	-	-
Chromium	1	110	140	800	21.9	4.9	15.4	16.7	7
Copper	50	270	270	10000	389	1990	156	87.1	119
Manganese	1600	200	10000	10000	-	2190	-	-	-
Nickel	30	310	310	10000	-	-	-	-	-
Silver	2	180	1500	6800	-	-	3.3	7	-
Zinc	109	10000	10000	10000	-	-	530	179	260

Table 6. Exceedances for SVOCs in shallow subsurface soils

Analyte (ppm)	UUSCO	RRSCO	CSCO	ISCO	SB-3	SB-4	SB-8	SB-11
Benzo(a)anthracene	1	1	5.6	11	1.04	1.83	1.48	-
Benzo(a)pyrene	1	1	1	1.1	1.37	1.9	1.33	1.1
Benzo(b)fluoranthene	1	1	5.6	11	1.59	2.77	1.81	1.7
Benzo(k)fluoranthene	0.8	3.9	56	110	-	1.16	-	-
Chrysene	1	3.9	56	110	1.61	1.89	-	1.26
Indeno(1,2,3-cd)pyrene	0.5	0.5	5.6	11	0.841	0.795	0.64	-

Analyte (ppm)	UUSCO	RRSCO	CSCO	ISCO	SB-19	SB-20	SB-26	SB-35
Benzo(a)anthracene	1	1	5.6	11	2.21	1.76	5.84	2.37
Benzo(a)pyrene	1	1	1	1.1	2.09	1.71	6.09	2.04
Benzo(b)fluoranthene	1	1	5.6	11	3.22	2.65	9.21	3.21
Benzo(k)fluoranthene	0.8	3.9	56	110	-	-	6.31	1.5
Chrysene	1	3.9	56	110	-	-	7.21	2.21
Dibenz(a,h)anthracene	0.33	0.33	0.56	1.1	-	-	1.04	-
Indeno(1,2,3-cd)pyrene	0.5	0.5	5.6	11	0.735	0.674	3.84	0.697

6.1.2.2 Intermediate Subsurface Soil

Of the five (5) intermediate depth metals samples that were collected, only one showed an exceedance for mercury. This sample was collected from SB-13 at a depth of 7' to 9', where mercury was detected at 6.9 ppm, which exceeds the ISCO. No other RRSCO metal exceedances were detected at this depth interval. Some low level exceedances of UUSCOs were observed in intermediate samples, which are provided in Table 13.

No other RRSCO exceedances were detected in the intermediate subsurface samples. However, some elevated TPH detections were observed, including SB-12 (1210 ppm at 8' to 10'), SB-3 (6870 ppm at 5' to 10'), SB-35 (1390 ppm at 5' to 10'), and SB-9 (3590 ppm at 7' to 8').

6.1.2.3 Groundwater Interface Subsurface Soils

Relatively few exceedances were observed in the soils at the groundwater interface, which was at a depth of approximately 25' to 30'. Two locations showed exceedances of the RRSCO for lead (SB-21 and SB-8), and one location showed an exceedance of the RRSCO for mercury (SB-4). One location showed an exceedance of the CSCO for arsenic (SB-26). Exceedances are shown in Table 7. In addition to the exceedances shown in the table, low level exceedances of UUSCOs were observed for acetone in SB-18C and PCB-1260 in SB-11C.

Elevated TPH detections were observed at SB-4 (1090 ppm at 25' to 30'), SB-10 (7490 ppm at

28' to 30'), SB-11 (5620 ppm at 30' to 32'), SB-22 (1310 ppm at 25' to 27'), and SB-23 (7970 ppm at 25' to 30') . SB-10 and SB-11 are both located in the former loading rack area, and SB-23 is close to MW-5 where LNAPL impacts were observed, as discussed in Section 6.1.2.1. No RRSCO exceedances for SVOCs, pesticides, PCBs, or VOCs were observed in the groundwater interface soil samples.

Table 7. Exceedances for metals in groundwater interface subsurface soils

Analyte (ppm)	UUSCO	RRSCO	CSCO	ISCO	SB-4C	SB-8C	SB-13C	SB-14C	SB-15C	SB-18C	SB-21C
Lead	63	400	1000	3900	-	481	71.8	-	-	-	740
Mercury	0.18	0.81	2.8	5.7	0.95	0.51	-	-	-	-	0.34
Arsenic	13	16	16	16	-	-	-	-	-	-	14.6
Chromium	1	110	140	800	11.2	11	13.7	2.4	4.3	3.7	64.5
Copper	50	270	270	10000	-	-	-	8.5	-	-	53.8
Nickel	30	310	310	10000	-	-	-	-	-	-	
Selenium	3.9	180	1500	6800	-	-	-	-	-	-	3.9
Silver	2	180	1500	6800	-	-	2.5	-	-	-	4.9
Zinc	109	10000	10000	10000	-	193	-	-	-	-	478

Analyte (ppm)	UUSCO	RRSCO	CSCO	ISCO	SB-26C	SB-34C	SB-10C	SB-27C	SB-31C	SB-32C	SB-35CO2	SB-16C
Lead	63	400	1000	3900	-	-	-	-	-	-	-	-
Mercury	0.18	0.81	2.8	5.7	-	-	-	-	-	-	-	-
Arsenic	13	16	16	16	56.6	-	-	-	-	-	-	-
Chromium	1	110	140	800	77.6	4.4	7	5.6	4.5	6.5	7.5	3.8
Copper	50	270	270	10000	-	-	-	-	-	-	-	-
Nickel	30	310	310	10000	72.9	-	-	-	-	-	-	-
Silver	2	180	1500	6800	7.5	-	-	2.3	3.2	-	2.2	-
Zinc	109	10000	10000	10000	-	-	-	-	-	-	-	-

Analyte (ppm)	UUSCO	RRSCO	CSCO	ISCO	SB-17C	SB-25C	SB-11C	SB-12C	SB-22C	SB-30C	SB-9C	SB-1C
Lead	63	400	1000	3900	197	-	70.7	-	-	-	-	-
Mercury	0.18	0.81	2.8	5.7	0.18	-	-	-	-	-	-	-
Arsenic	13	16	16	16	-	-	-	-	-	-	-	-
Chromium	1	110	140	800	8.9	5.7	10.7	11	9.2	5.4	6.1	5.4
Copper	50	270	270	10000	59.5	-	-	-	153	-	-	-
Silver	2	180	1500	6800	-	-	-	-	-	-	-	-
Zinc	109	10000	10000	10000	124	-	-	-	-	-	-	-

Analyte (ppm)	UUSCO	RRSCO	CSCO	ISCO	SB-20C	SB-23C	SB-5C	SB-7C	SB-28C	SB-29C	SB-36C
Lead	63	400	1000	3900	124	-	158	-	-	-	-
Mercury	0.18	0.81	2.8	5.7	0.23	-	0.32	-	-	0.34	-
Arsenic	13	16	16	16	-	-	-	-	-	-	-
Chromium	1	110	140	800	7.4	9.5	6.9	7.8	3.8	7.9	7.8
Copper	50	270	270	10000	-	-	-	-	-	-	-
Silver	2	180	1500	6800	-	-	-	-	-	-	-
Zinc	109	10000	10000	10000	-	-	-	-	-	-	-

Analyte (ppm)	UUSCO	RRSCO	CSCO	ISCO	SB-3C	SB-2C	SB-33C	SB-19C	SB-24C	SB-6C
Lead	63	400	1000	3900	-	-	86.9	-	-	-
Mercury	0.18	0.81	2.8	5.7	-	-	0.32	-	0.46	-
Arsenic	13	16	16	16	-	-	-	-	-	-
Chromium	1	110	140	800	5	6	7	4.9	2.8	4.8
Copper	50	270	270	10000	-	-	-	-	-	-
Silver	2	180	1500	6800	-	-	-	-	2.7	-
Zinc	109	10000	10000	10000	-	-	-	-	-	-

6.1.3 SPLP Results

SPLP data was collected to aid in the determination if contaminants were impacting groundwater at the site. SPLP results are an indicator of the potential for metals to mobilize under acidic conditions (such as acid rain) and can be a better determination of the potential for contaminants to mobilize into groundwater than the Toxicity Characteristic Leaching Procedure (TCLP). SPLP results were compared to NYCRR Part 703 Groundwater Standards, as there are no published results for SPLP comparison. It should be noted that these standards are low, and often metals are elevated at background levels above these standards.

For the surface soils, five SPLP exceedances were above groundwater standards for lead (SB-8, SB-17, SB-19, SB-20, and SB-32) and one for mercury (SB-20). Shallow subsurface soils showed 14 exceedances of groundwater standards for lead and 2 for mercury. In intermediate subsurface soils, sample location SB-35 showed an exceedance of the groundwater standard for arsenic based on the SPLP results. This sample was collected from a depth of 5' to 10' and, at 29 ppb, was only slightly above the 25 ppb standard. In the groundwater interface samples, four locations showed exceedances for lead based on the SPLP results (SB-4, SB-8, SB-26, SB-33), though no exceedances of lead were observed in the monitoring well data (see Section 6.5). Exceedances of groundwater standards in SPLP samples are provided in Table 13.

For arsenic, only one location showed an exceedance. The arsenic soil concentration (6.7 mg/kg) at this location was significantly below the RRSCO of 16 mg/kg. The SPLP result at this location

is not consistent with the non-detect SPLP values measured at other areas of the site with higher arsenic concentrations in soil. Therefore, it is considered to be an anomaly.

For lead and mercury, regression analyses were completed to compare the soil to SPLP concentrations for all soil borings where SPLP samples were collected. For these analyses, non-detects were assumed to be half of the detection limit and J-flagged values were entered as detections. The regression analyses for lead and mercury resulted in R^2 values of 0.4225 and 0.4805, respectively, which indicate that there was no correlation between the soil and SPLP concentrations.

The levels of the exceedances observed were low and were not indicative of contaminants in soil leaching into groundwater. There was no correlation found between metals in soil and SPLP results. Furthermore, groundwater monitoring results showed that contaminants in soil are not contributing to groundwater contamination and there were no source areas of soils found on site during the RI.

SPLP results need to be considered in the context of other subsurface data, such as groundwater data, depth to groundwater, and the buffering capacity of soil at the groundwater interface to determine their significance. The soil at the groundwater interface at this site is predominately clay, which has a naturally high buffering capacity. The depth to groundwater is also significantly deeper than the zone of the subsurface likely to be impacted by acid rain. These factors should be considered when interpreting SPLP results.

6.2 Bank Samples

Bank sample results are provided in Table 13, in Appendix E. Drawings R-9 and R-10 show exceedances of soil cleanup objectives for metals and SVOCs, respectively. Drawing R-11 shows TPH results.

Exceedances in soil for lead, mercury, arsenic, and SVOCs were observed in the bank samples, which is consistent with their prevalence of the fill material across the site. Some exceedances for barium and copper were also observed. One sample (BS-3B) showed a lead concentration of 24,800 mg/kg. This sample was run again at Pace Analytical in Pittsburgh, PA to confirm the data from their lab in Melville, NY. A significantly lower concentration of 612 mg/kg was observed in the sample analyzed in Pittsburgh. Judy Harry, the third party evaluator who completed the DUSR, reviewed this sample at the request of Envirospec. The differences in results were attributed to the non-homogeneous nature of the matrix and not to issues with the laboratories.

Bank sample results for surface soils (0” – 6”) are summarized in Tables 8 and 9 below. Bank

sample results for subsurface soils (6" – 2') are summarized in Tables 10 and 11 below.

In general, higher concentrations of metals and SVOCs were detected in the eastern bank samples when compared to samples from the western bank. Elevated TPH results were observed in a few samples on the western bank, specifically BS-5A (4220 ppm, 0 to 6"), BS-8B (4350 ppm, 6" to 2'), and BS-9A (993 ppm, 0 to 6"). In addition to the exceedances shown in Tables 8 through 11, low level exceedances of the UUSCO for 4,4'-DDT were observed at BS-5B, BS-6A, BS-7A, BS-7B, BS-8B, and BS-9A.

Table 8. Exceedances for metals in surface bank samples

Analyte (ppm)	UUSCO	RRSCO	CSCO	ISCO	BS-1A	BS-2A	BS-3A	BS-4A	BS-5A	BS-6A	BS-7A	BS-8A	BS-9A
Lead	63	400	1000	3900	802	982	514	306	284	436	-	69.7	242
Mercury	0.18	0.81	2.8	5.7	19	-	1.5	1.8	1	1.3	-	0.23	0.64
Arsenic	13	16	16	16	-	18	-	-	-	-	-	-	-
Chromium	1	110	140	800	11.8	15.9	21.9	9.6	18.8	28.8	15.5	24.6	16.9
Copper	50	270	270	10000	166	101	73.7	-	71.9	143	-	-	60.6
Nickel	30	310	310	10000	-	-	-	45.4	-	61.4	-	-	30.1
Silver	2	180	1500	6800	2.2	4.4	3.2	2.9	2.1	2.2	-	-	2.3
Zinc	109	10000	10000	10000	327	635	352	248	451	522	173	184	472

Table 9. Exceedances for SVOCs in surface bank samples

Analyte (ppm)	UUSCO	RRSCO	CSCO	ISCO	BS-1A	BS-2A	BS-5A	BS-9A
Benzo(a)anthracene	1	1	5.6	11	5.95	2.1	-	-
Benzo(a)pyrene	1	1	1	1.1	5.36	1.91	-	-
Benzo(b)fluoranthene	1	1	5.6	11	11.1	3.33	-	1.22
Benzo(k)fluoranthene	0.8	3.9	56	110	3.67	1.14	-	-
Chrysene	1	3.9	56	110	6.04	2.09	-	-
Dibenz(a,h)anthracene	0.33	0.33	0.56	1.1	0.674	-	-	-
Indeno(1,2,3-cd)pyrene	0.5	0.5	5.6	11	2.34	0.699	0.5	-

Table 10. Exceedances for metals in subsurface bank samples

Analyte (ppm)	UUSCO	RRSCO	CSCO	ISCO	BS-1B	BS-2B	BS-3B	BS-4B	BS-5B	BS-6B
Lead	63	400	1000	3900	989	2300	24800/612[b]	348	318	813
Mercury	0.18	0.81	2.8	5.7	1.4	2.8	1.7	1.5	1.7	2.6
Arsenic	13	16	16	16	15.9	22.6	-	14.1	-	14.6
Chromium	1	110	140	800	12.6	11	24.8	10.8	16.5	36.2
Copper	50	270	270	10000	139	57.7	382	63.3	79.2	180

Analyte (ppm)	UUSCO	RRSCO	CSCO	ISCO	BS-1B	BS-2B	BS-3B	BS-4B	BS-5B	BS-6B
Nickel	30	310	310	10000	-	-	-	40.6	-	57.5
Silver	2	180	1500	6800	2.1	3.8	4.3	3.3	2.1	2.9
Zinc	109	10000	10000	10000	442	314	427	250	335	669

[b] = Results include data from labs in Melville and Pittsburgh labs. See discussion in Section 6.2.

Analyte (ppm)	UUSCO	RRSCO	CSCO	ISCO	BS-7B	BS-8B	BS-9B
Lead	63	400	1000	3900	71	107	308
Mercury	0.18	0.81	2.8	5.7	-	0.46	0.61
Arsenic	13	16	16	16	-	-	-
Chromium	1	110	140	800	13.3	18.6	8.9
Copper	50	270	270	10000	51.8	-	58.6
Nickel	30	310	310	10000	35.4	-	-
Silver	2	180	1500	6800	-	-	-
Zinc	109	10000	10000	10000	363	159	3200

Table 11. Exceedances for SVOCs in subsurface bank samples

Analyte (ppm)	UUSCO	RRSCO	CSCO	ISCO	BS-1B	BS-2B	BS-3B	BS-6B
Benzo(a)anthracene	1	1	5.6	11	1.11	7.41	-	2.51
Benzo(a)pyrene	1	1	1	1.1	1.18	5.43	-	2.35
Benzo(b)fluoranthene	1	1	5.6	11	1.95	6.64	1.21	3.17
Benzo(k)fluoranthene	0.8	3.9	56	110	0.879	3.08	-	1.2
Chrysene	1	3.9	56	110	1.24	7.25	-	2.75
Dibenz(a,h)anthracene	0.33	0.33	0.56	1.1	-	0.631	-	-
Indeno(1,2,3-cd)pyrene	0.5	0.5	5.6	11	-	2.02	-	1.06

6.3 Sediment Samples

Sediment sample results are provided in Table 13, in Appendix E. Drawings R-9 and R-11 provide comparisons to Sediment Guidance Values (SGVs) for metals and TPH data, respectively. No exceedances of RRSCOs were detected in sediment samples. No exceedances of SGVs for SVOCs were observed.

Samples that fall within the Class B range of SGVs for a contaminant indicate that additional information would be needed to assess potential impacts to aquatic life. Exceedances of Class C SGVs indicate that the sediment has a high potential to be toxic to aquatic life. However, SGVs are only intended to be used as a starting point for the risk assessment process and should be considered within the context of other data when determining potential impacts to aquatic life (NYSDEC 2014). This is discussed further in Section 7.2.

Only one sediment location (SE-7) showed an exceedance of a Class C SGV of 130 ppm for lead

(142 ppm, 0 to 6"). Some sediment samples fell within the Class B SGV ranges for copper, silver, and mercury.

The sediment TPH results ranged from non-detect (at detection limit of 629 ppm) to 3390 ppm. The highest TPH concentration in sediment was observed at SE-6, which was collected near the southwest area of the site.

6.4 Pore Water Sample

The results from the pore water sample collected along the western bank are provided in Table 14, included in Appendix E. No detections of pesticides, PCBs, TPH, or SVOCs were observed. No metals of concern were detected above surface or groundwater standards. Only iron, manganese, and sodium were detected above groundwater standards. VOCs were primarily non-detect, with the exception of a low level detection of acetone.

6.5 Groundwater Samples

The results from the groundwater sampling are provided in Table 15, attached in Appendix E, and a summary is provided in Table 12 below. Drawing R-8 shows exceedances of compounds when compared to NYCRR 703.5 Groundwater Standards. No lead or mercury exceedances were observed in either sampling event.

One monitoring well (MW-10) showed an exceedance of the 25 ppb standard for arsenic (35.5 ppb total, 35.3 ppb dissolved) in the first sampling round. MW-10 is located within the former loading rack area. The second sampling round showed a detection of 22 ppb for arsenic at this well, which does not exceed the standard.

Exceedances for benzene were detected at MW-4 in both sampling rounds and in MW-13 in the second sampling round. An exceedance of isopropylbenzene was detected at MW-10 during the first sampling round. Detections of benzene and isopropylbenzene in MW-4 and MW-10 are consistent with the presence of LNAPL in wells in the former loading rack area. Although there are no groundwater standards for TPH, there were also detections of TPH-GRO and TPH-DRO in this area.

During the first sampling event, one exceedance was observed for total PCBs at MW-10. A very low level of endrin was also detected at this location (0.0072 ppb), which is above the non-detect groundwater standard for this contaminant. During the second sampling round, exceedances for total PCBs were observed in seven (7) wells. Total PCBs, however, were also detected at a similar level in the field equipment blank. This indicates possible contamination of equipment

from the lab. Alternatively, the low levels could be attributed to the quality of the Hudson River, as PCBs were not a contaminant of concern across the site.

Table 12. Exceedances in Groundwater Samples

		MW-2	MW-3	MW-4	
Analyte (ppb)	**Part 703 Groundwater Standard**	**10/2017**	**10/2017**	**9/2017**	**10/2017**
Benzene	1	-	-	6.1	7.9
Endrin	ND	0.002	-	-	0.0046
Total PCB	0.09	0.45	0.3	-	0.13

		MW-10		MW-13	MW-14	UMW-D
Analyte (ppb)	**Part 703 Groundwater Standard**	**9/2017**	**10/2017**	**10/2017**	**10/2017**	**10/2017**
Aldrin	ND	-	0.00086	-	-	-
Arsenic, total	25	35.5	-	-	-	-
Arsenic, dissolved	25	35.3	-	-	-	-
Benzene	1	-	-	1.2	-	-
Endrin	ND	0.0072	-	0.0013	-	-
Isopropylbenzene	5	8.7	-	-	-	-
Phenol	1	-	-	-	-	1.5
Total PCB	0.09	0.85	0.45	0.16	0.45	0.32

6.6 Soil Vapor Samples

The full results from the eight (8) soil vapor samples are provided in Table 16, included in Appendix E. One ambient air sample was also collected so the data could be compared to the subsurface vapor results. Soil vapor sample results were compared the air guideline values in the NYSDOH VI guidance, with no exceedances noted. Detections of BTEX were observed at several locations, which is consistent with the historical use of the site. Soil vapor results are shown in Drawing R-7. As discussed in further detail in Section 7.1, mitigation systems will be installed on onsite buildings as a proactive measure.

7.0 QUALITATIVE EXPOSURE ASSESSMENT

As required by the BCP, an on-Site and off-Site qualitative exposure assessment was completed in accordance with DER-10 section 3.3(c)4. The human health qualitative assessment was completed as described in Section 7.1 below. A fish and wildlife impact analysis was completed as described in Section 7.2.

7.1 Human Health Exposure Assessment (HHEA)

The qualitative HHEA evaluated the five (5) elements (DER-10 Appendix 3B) associated with exposure pathways, and described how each of these elements pertains to the Site. The elements addressed include:

- A description of the contaminant source(s) including the location of the contaminant release to the environment (any waste disposal area or point of discharge) or if the original source is unknown, the contaminated environmental medium (soil, indoor or outdoor air, biota, water) at the point of exposure;
- An explanation of the contaminant release and transport mechanisms to the exposed population;
- Identification of all potential exposure point(s) where actual or potential human contact with a contaminated medium may occur;
- Description(s) of the route(s) of exposure (i.e., ingestion, inhalation, dermal absorption); and
- A characterization of the receptor populations who may be exposed to contaminants at a point of exposure.

Given the plan to install an engineered cover of two (2) feet of clean fill across the site and the depth to groundwater of at least 22 feet bgs, potential human exposure risks to contamination at this site would be minimal and limited to potential soil vapor intrusion exposure, which will be addressed through installation of mitigation systems, and potential exposures during onsite ground-intrusive work, which will be addressed through air monitoring and proper training and health and safety procedures.

The full Qualitative Human Health Exposure Assessment is provided in Appendix F.

7.2 Fish and Wildlife Resource Impact Analysis (FWRIA)

Due to the surrounding Hudson River, a FWRIA was completed. The FWRIA was completed in accordance with DER-10 Section 3.10(c) and the DFW&MR Fish and Wildlife Impact Analysis for Inactive Hazardous Waste Sites (1994) guidance document.

Though potentially complete pathways were identified in the FWRIA, there were no source areas of contamination identified at the site during the RI. Levels of metals identified were expected, as the site consists primarily of historical fill material. The final remedy for the site will be an engineered cover system which will eliminate the most probable route of exposure for fish and wildlife. Impacts from source contamination to the Hudson River from the site were not identified, as there were no source areas found. The impacts to the Hudson River are those associated with historical fill and do not require mitigation. Based on these findings, no additional ecological assessment is needed.

The full FWRIA is provided in Appendix G.

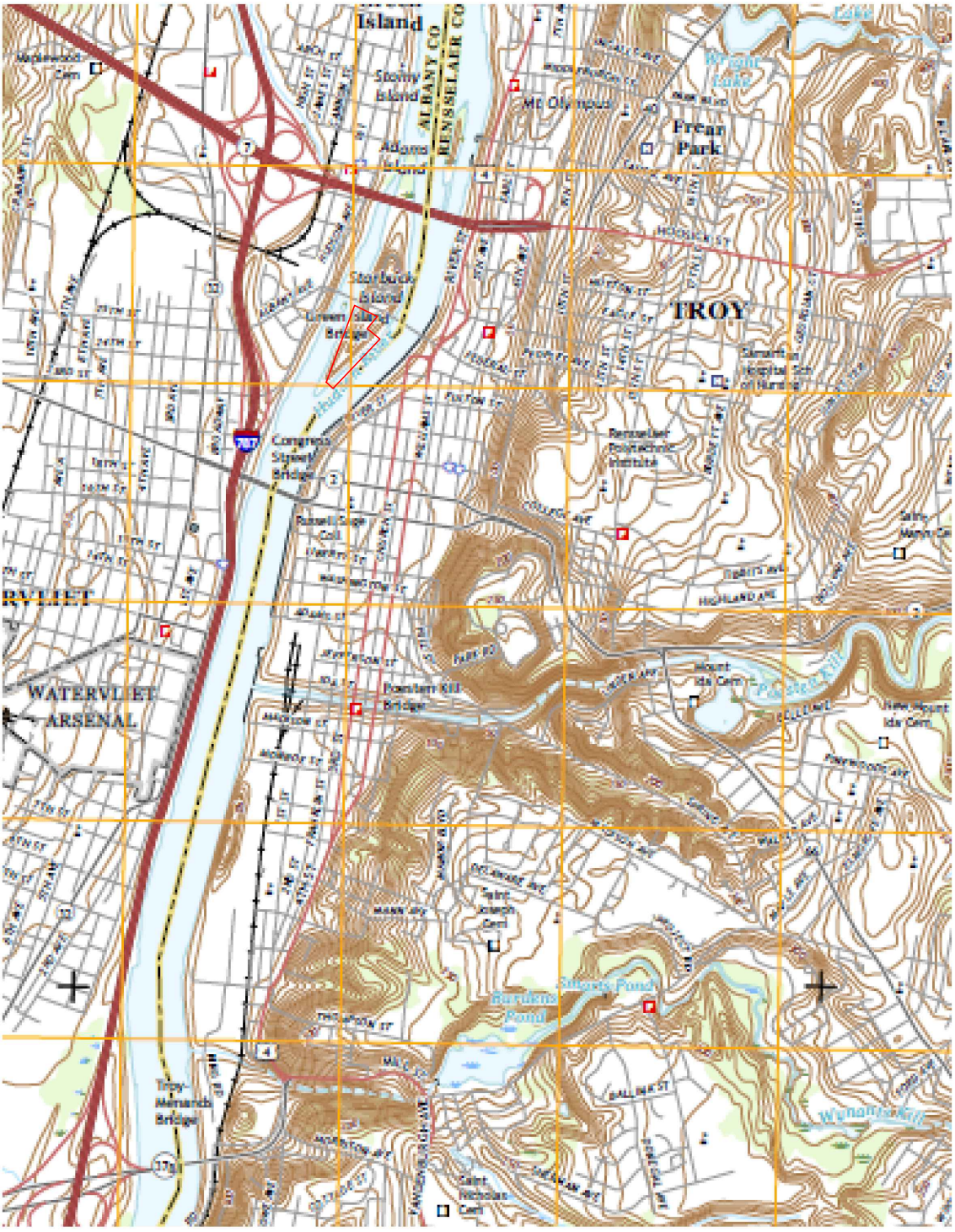
8.0 DATA USABILITY SUMMARY REPORT (DUSR)

The data collected during the RI were reviewed by a third party data validation expert. The results of the DUSR are provided in Appendix H.

9.0 REFERENCES

NYSDEC. 2014. Screening and Assessment of Contaminated Sediment. http://www.dec.ny.gov/docs/fish_marine_pdf/screenasssedfin.pdf

FIGURES



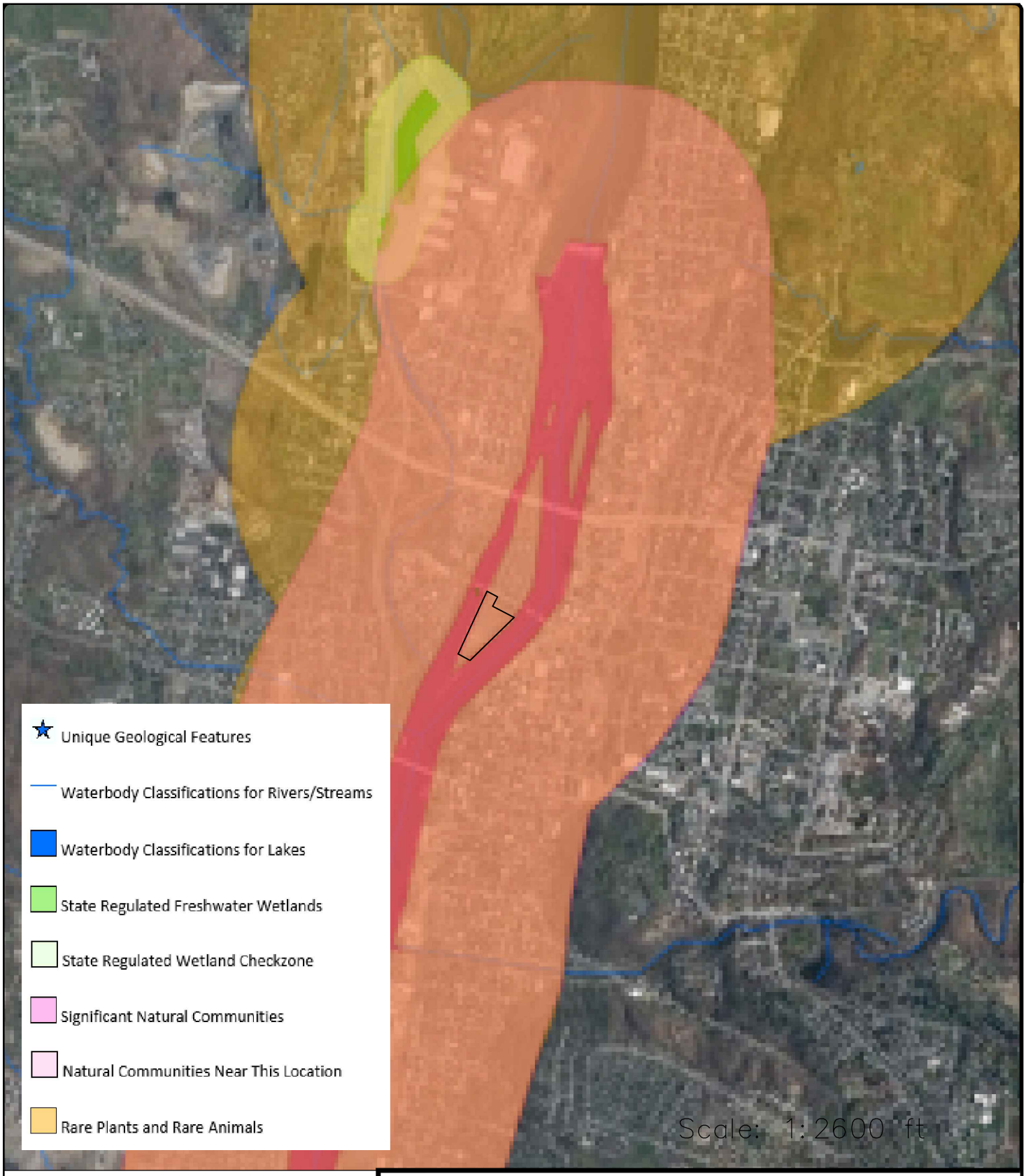
Scale: 1:3,000 ft

APPROXIMATE SITE BOUNDARY

TITLE: FIGURE 1 – SITE LOCATION MAP

LOCATION: 1 OSGOOD AVENUE/CENTER ISLAND
GREEN ISLAND, NEW YORK

envirospec ENGINEERING, PLLC
3□□□□ □rt□er□□□□d.□□□te□3
□□□□□□□□□□□1220□
□□□□e□51□.□53.2203
F□□□51□.□53.220□
□□□.e□□□r□□□e□e□□.□□□



——APPROXIMATE SITE BOUNDARY

TITLE:
FIGURE 2 – NYSDEC ENVIRONMENTAL RESOURCE MAPPER

LOCATION:
1 OSGOOD AVENUE/CENTER ISLAND
GREEN ISLAND, NEW YORK

envirospec ENGINEERING, PLLC
3□□□□rt□er□□□□d.□□□te□3
□□□□□□□□□□1220□
Phon e□518.453.2203
Fax □518.453.2204
□□□.e□□r□□□e□e□□.□□□

APPROXIMATE SITE BOUNDARY

TITLE: FIGURE 3 – USFWS WETLANDS INVENTORY MAP

LOCATION: 1 OSGOOD AVENUE/CENTER ISLAND
GREEN ISLAND, NEW YORK

envirospec ENGINEERING, PLLC
3□□□□ □rt□er□□□□d.□□□□te□3
□□□□□□□□□□□1220□
□□□□e□51□.□53.2203
F□□□51□.□53.220□
□□□.e□□r□□□e□e□□.□□□

Scale: 1:670 ft

——APPROXIMATE SITE BOUNDARY

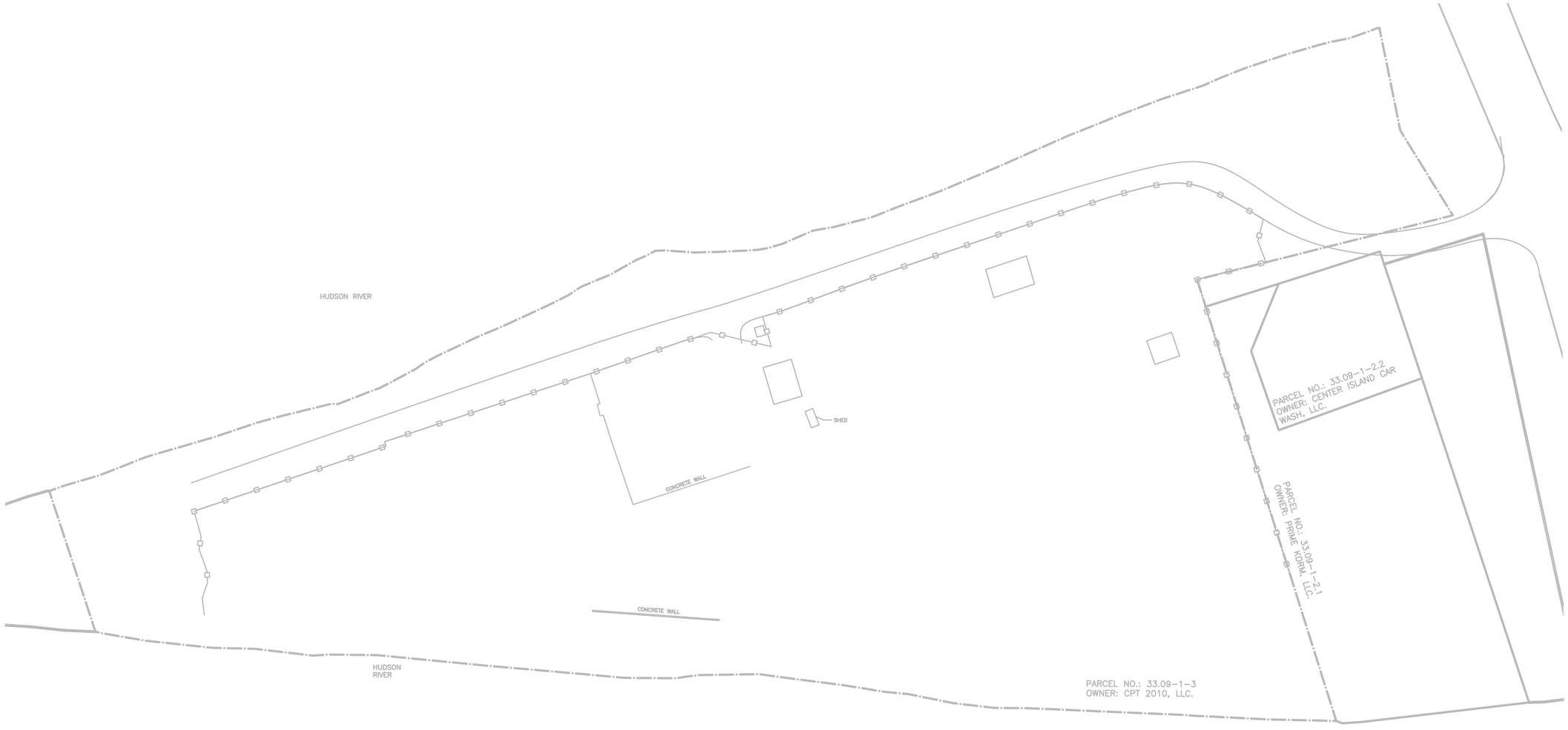
TITLE: FIGURE 4 – FEMA FLOOD INSURANCE RATE MAP
MAP NUMBER 36001C0202D; EFFECTIVE 3/16/15

LOCATION: 1 OSGOOD AVENUE/CENTER ISLAND
GREEN ISLAND, NEW YORK

envirospec ENGINEERING, PLLC

DRAWINGS

S-1	SITE PLAN
S-2	HISTORICAL SOIL & GROUNDWATER SAMPLING RESULTS
S-3	HISTORICAL MEASURED LNAPL
S-4	MAY 2016 SOIL & GROUNDWATER SAMPLING RESULTS
S-5	SURVEYED SAMPLE LOCATIONS
R-1	SURFACE SOILS – METALS
R-2	SUBSURFACE SOILS – METALS
R-3	SURFACE SOILS – SVOCS
R-4	SUBSURFACE SOILS – SVOCS
R-5	SURFACE AND SUBSURFACE SOILS – TPH
R-6	LNAPL THICKNESS
R-7	SOIL VAPOR – BTEX RESULTS
R-8	GROUNDWATER EXCEEDANCES
R-9	BANK AND SEDIMENT – METALS
R-10	BANK AND SEDIMENT SAMPLES – SVOCS
R-11	BANK AND SEDIMENT – TPH RESULTS
C-1	CROSS SECTION LOCATIONS
C-2	CROSS SECTION A-A’
C-3	CROSS SECTION B-B’
C-4	HIGH TIDE GROUNDWATER ELEVATION CONTOURS
C-5	LOW TIDE GROUNDWATER ELEVATION CONTOURS



LEGEND

SUBJECT PARCEL BOUNDARY

FENCE

ENVIROSPEC PROJECT #E17-1600

envirospec ENGINEERING, PLLC
349 NORTHERN BLVD. SUITE 3
ALBANY, NY 12204-1032
P:518.453.2203
F:518.453.2204

W.O.	No.	REVISION	DATE	APR.

DRAWING STATUS: FOR REFERENCE ONLY

SOUTH ISLAND APARTMENTS SITE
1 OSGOOD AVENUE/CENTER ISLAND,
TOWN OF GREEN ISLAND, ALBANY COUNTY, NEW YORK

DESIGN
DRAWN
CHECKED

SOUTH ISLAND APARTMENTS, LLC
SOUTH ISLAND APARTMENTS SITE
SITE PLAN

SCALE: NTS
DRAWING No.: S-1
SHEET
REV. No.

GROUNDWATER
SAMPLED: 5/5/1997
RESULTS: SVOCs: BIS(2-ETHYLHEXYL)PHTHALATE 17 UG/L

SOIL
SAMPLED: 12/6/2005
RESULTS: VOCs: NO EXCEEDANCES
SVOCs: NO EXCEEDANCES

GROUNDWATER
SAMPLED: 5/5/1997
RESULTS: SVOCs: NO EXCEEDANCES

SOIL
SAMPLED: 12/7/2005
RESULTS: VOCs: NO EXCEEDANCES
SVOCs: NO EXCEEDANCES

SOIL:
SAMPLED: 1/14/2010
RESULTS: VOCs: NO EXCEEDANCES
SVOCs: NO EXCEEDANCES

SOIL
SAMPLED: 1/14/2010
RESULTS: VOCs: N-PROPYLBENZENE 50 PPM
SVOCs: NO EXCEEDANCES

SOIL:
SAMPLED: 1/14/2010
RESULTS: VOCs: N-PROPYLBENZENE 13 PPM
SVOCs: NO EXCEEDANCES

SOIL:
SAMPLED: 1/14/2010
RESULTS: VOCs: NO EXCEEDANCES
SVOCs: NO EXCEEDANCES

SOIL:
SAMPLED: 1/14/2010
RESULTS: VOCs: NO EXCEEDANCES
SVOCs: NO EXCEEDANCES

SOIL:
SAMPLED: 1/14/2010
RESULTS: VOCs: NO EXCEEDANCES
SVOCs: NO EXCEEDANCES

SOIL
SAMPLED: 12/6/2005
RESULTS: VOCs: NO EXCEEDANCES
SVOCs: NO EXCEEDANCES

SOIL
SAMPLED: 1/13/2010
RESULTS: VOCs: NO EXCEEDANCES
SVOCs: NO EXCEEDANCES

SOIL
SAMPLED: 1/13/2010
RESULTS: VOCs: NO EXCEEDANCES
SVOCs: NO EXCEEDANCES

SOIL
SAMPLED: 1/13/2010
RESULTS: VOCs: NO EXCEEDANCES
SVOCs: NO EXCEEDANCES

SOIL
SAMPLED: 12/7/2005
RESULTS: VOCs: NO EXCEEDANCES
SVOCs: NO EXCEEDANCES

GROUNDWATER
SAMPLED: 5/5/1997
RESULTS: SVOCs: NO EXCEEDANCES

GROUNDWATER
SAMPLED: 5/5/1997
RESULTS: SVOCs: NO EXCEEDANCES

SOIL
SAMPLED: 12/7/2005
RESULTS: VOCs: NO EXCEEDANCES
SVOCs: NO EXCEEDANCES

SOIL
SAMPLED: 1/12/2010
RESULTS: VOCs: BENZ(A)ANTHRACENE 1.3 PPM
SVOCs: NO EXCEEDANCES

SOIL
SAMPLED: 1/12/2010
RESULTS: VOCs: NO EXCEEDANCES
SVOCs: NO EXCEEDANCES

SOIL
SAMPLED: 1/12/2010
RESULTS: VOCs: NO EXCEEDANCES
SVOCs: NO EXCEEDANCES

SOIL
SAMPLED: 1/12/2010
RESULTS: VOCs: NO EXCEEDANCES
SVOCs: NO EXCEEDANCES

LEGEND
- MONITORING WELL
- OBSERVATION WELL
- 2010 SOIL BORING SAMPLES
- SUBJECT PARCEL BOUNDARY
- FENCE
- 2008 SOIL BORING SAMPLES
- FORMER TANK FOOTPRINT
- 2016 TEST PIT

NOTE:
1. SOIL CONCENTRATIONS ARE LISTED ONLY IF EXCEED THE NYCRR PART 375 RESTRICTED RESIDENTIAL SOIL CLEANUP OBJECTIVE STANDARDS (RRSCOS) OR VALUE BEYOND LABORATORY QUANTITATIVE RANGE (EXCEEDS UNKNOWN).
2. GROUNDWATER RESULTS SHOWN ONLY IF EXCEED PART 703
3. ONLY VOCs/SVOCs ANALYZED.

envirospec ENGINEERING, PLLC
349 NORTHERN BLVD. SUITE 3
ALBANY, NY 12204-1032
P:518.453.2203
F:518.453.2204

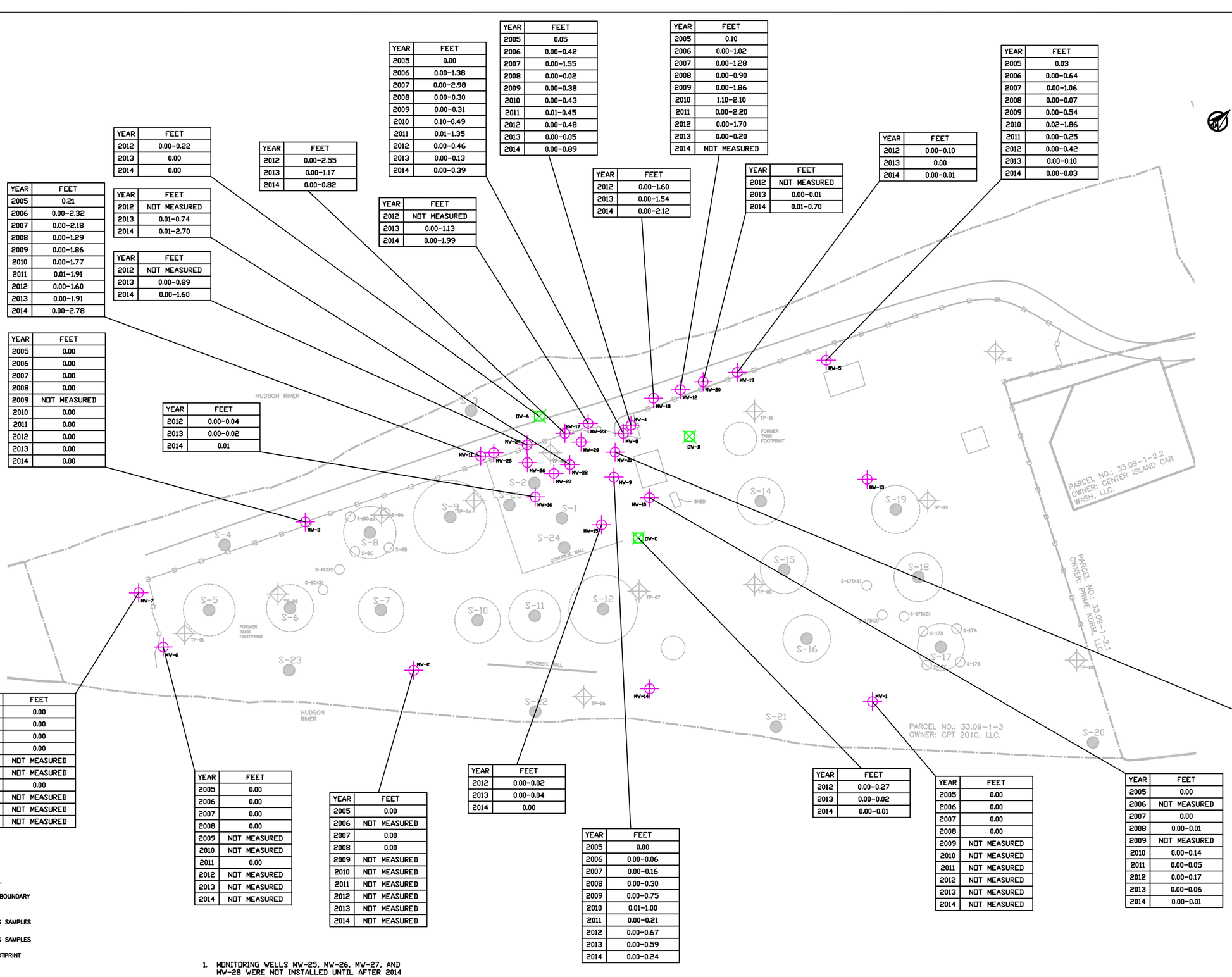
W.O. No.	REVISION	DATE	APR.

DRAWING STATUS: FOR REFERENCE ONLY

SOUTH ISLAND APARTMENTS SITE
1 OSGOOD AVENUE/CENTER ISLAND,
TOWN OF GREEN ISLAND, ALBANY COUNTY, NEW YORK

SOUTH ISLAND APARTMENTS, LLC
SOUTH ISLAND APARTMENTS SITE
HISTORICAL SOIL & GROUNDWATER SAMPLING RESULTS

SCALE: NTS | DRAWING NO.: S-2 | SHEET | REV. NO.



YEAR	FEET
2005	0.21
2006	0.00–2.32
2007	0.00–2.18
2008	0.00–1.29
2009	0.00–1.86
2010	0.00–1.77
2011	0.01–1.91
2012	0.00–1.60
2013	0.00–1.91
2014	0.00–2.78

YEAR	FEET
2005	0.00
2006	0.00
2007	0.00
2008	0.00
2009	NOT MEASURED
2010	0.00
2011	0.00
2012	0.00
2013	0.00
2014	0.00

YEAR	FEET
2012	0.00–0.22
2013	0.00
2014	0.00

YEAR	FEET
2012	NOT MEASURED
2013	0.01–0.74
2014	0.01–2.70

YEAR	FEET
2012	NOT MEASURED
2013	0.00–0.89
2014	0.00–1.60

YEAR	FEET
2012	0.00–0.04
2013	0.00–0.02
2014	0.01

YEAR	FEET
2012	0.00–2.55
2013	0.00–1.17
2014	0.00–0.82

YEAR	FEET
2012	NOT MEASURED
2013	0.00–1.13
2014	0.00–1.99

YEAR	FEET
2005	0.00
2006	0.00–1.38
2007	0.00–2.98
2008	0.00–0.30
2009	0.00–0.31
2010	0.10–0.49
2011	0.01–1.35
2012	0.00–0.46
2013	0.00–0.13
2014	0.00–0.39

YEAR	FEET
2005	0.05
2006	0.00–0.42
2007	0.00–1.55
2008	0.00–0.02
2009	0.00–0.38
2010	0.00–0.43
2011	0.01–0.45
2012	0.00–0.48
2013	0.00–0.05
2014	0.00–0.89

YEAR	FEET
2012	0.00–1.60
2013	0.00–1.54
2014	0.00–2.12

YEAR	FEET
2005	0.10
2006	0.00–1.02
2007	0.00–1.28
2008	0.00–0.90
2009	0.00–1.86
2010	1.10–2.10
2011	0.00–2.20
2012	0.00–1.70
2013	0.00–0.20
2014	NOT MEASURED

YEAR	FEET
2012	NOT MEASURED
2013	0.00–0.01
2014	0.01–0.70

YEAR	FEET
2012	0.00–0.10
2013	0.00
2014	0.00–0.01

YEAR	FEET
2005	0.03
2006	0.00–0.64
2007	0.00–1.06
2008	0.00–0.07
2009	0.00–0.54
2010	0.02–1.86
2011	0.00–0.25
2012	0.00–0.42
2013	0.00–0.10
2014	0.00–0.03

YEAR	FEET
2005	0.00
2006	0.00
2007	0.00
2008	0.00
2009	NOT MEASURED
2010	NOT MEASURED
2011	0.00
2012	NOT MEASURED
2013	NOT MEASURED
2014	NOT MEASURED

YEAR	FEET
2005	0.00
2006	0.00
2007	0.00
2008	0.00
2009	NOT MEASURED
2010	NOT MEASURED
2011	0.00
2012	NOT MEASURED
2013	NOT MEASURED
2014	NOT MEASURED

YEAR	FEET
2005	0.00
2006	NOT MEASURED
2007	0.00
2008	0.00
2009	NOT MEASURED
2010	NOT MEASURED
2011	NOT MEASURED
2012	NOT MEASURED
2013	NOT MEASURED
2014	NOT MEASURED

YEAR	FEET
2012	0.00–0.02
2013	0.00–0.04
2014	0.00

YEAR	FEET
2005	0.00
2006	0.00–0.06
2007	0.00–0.16
2008	0.00–0.30
2009	0.00–0.75
2010	0.01–1.00
2011	0.00–0.21
2012	0.00–0.67
2013	0.00–0.59
2014	0.00–0.24

YEAR	FEET
2012	0.00–0.27
2013	0.00–0.02
2014	0.00–0.01

YEAR	FEET
2012	NOT MEASURED
2013	0.00–0.04
2014	0.00–0.26

YEAR	FEET
2005	0.00
2006	NOT MEASURED
2007	0.00
2008	0.00–0.01
2009	NOT MEASURED
2010	0.00–0.14
2011	0.00–0.05
2012	0.00–0.17
2013	0.00–0.06
2014	0.00–0.01

LEGEND

- MONITORING WELL
- OBSERVATION WELL
- SUBJECT PARCEL BOUNDARY
- FENCE
- 2010 SOIL BORING SAMPLES
- 2008 SOIL BORING SAMPLES
- FORMER TANK FOOTPRINT
- 2016 TEST PIT

1. MONITORING WELLS MW-25, MW-26, MW-27, AND MW-28 WERE NOT INSTALLED UNTIL AFTER 2014 AND WERE FIRST SAMPLED IN 2016.

envirospec ENGINEERING, PLLC
349 NORTHERN BLVD. SUITE 3
ALBANY, NY 12204-1032
P:518.453.2203
F:518.453.2204

W.O. No.	REVISION	DATE	APR.

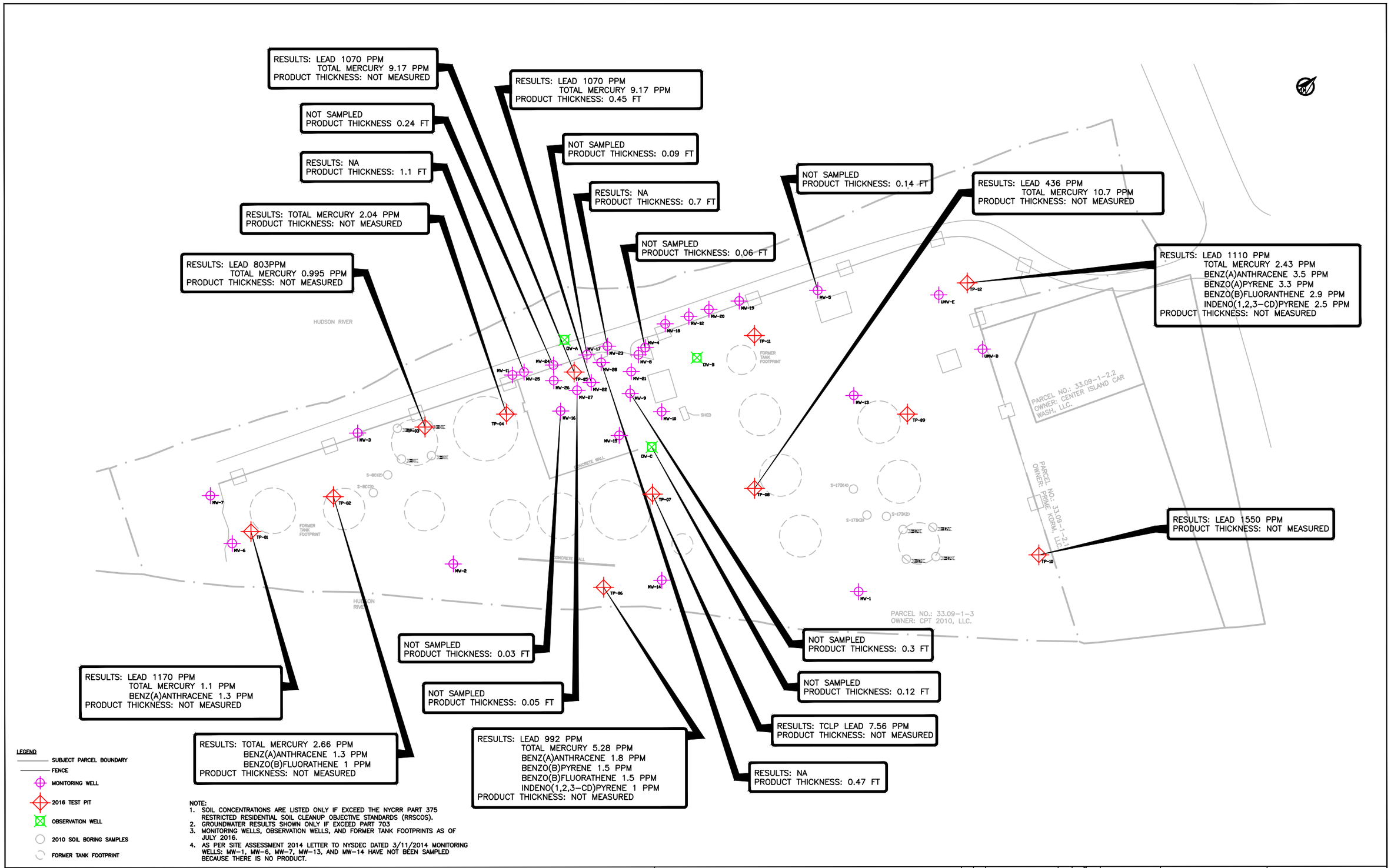
DRAWING STATUS: FOR REFERENCE ONLY

SOUTH ISLAND APARTMENTS SITE
1 OSGOOD AVENUE/CENTER ISLAND,
TOWN OF GREEN ISLAND, ALBANY COUNTY, NEW YORK

DESIGN -
DRAWN MWK
CHECKED -

SOUTH ISLAND APARTMENTS, LLC
SOUTH ISLAND APARTMENTS SITE
HISTORICAL MEASURED LNAPL

SCALE	DRAWING NO.	SHEET	REV. NO.
NTS	S-3		



envirospec ENGINEERING, PLLC
349 NORTHERN BLVD. SUITE 3
ALBANY, NY 12204-1032
P:518.453.2203
F:518.453.2204

W.O. No.	REVISION	DATE	APR.

DRAWING STATUS: FOR REFERENCE ONLY

SOUTH ISLAND APARTMENTS SITE
1 OSGOOD AVENUE/CENTER ISLAND,
TOWN OF GREEN ISLAND, ALBANY COUNTY, NEW YORK.

DESIGN | DRAWN | CHECKED | APPROVED

SOUTH ISLAND APARTMENTS, LLC
SOUTH ISLAND APARTMENTS SITE
MAY 2016 SOIL & GROUNDWATER SAMPLING RESULTS

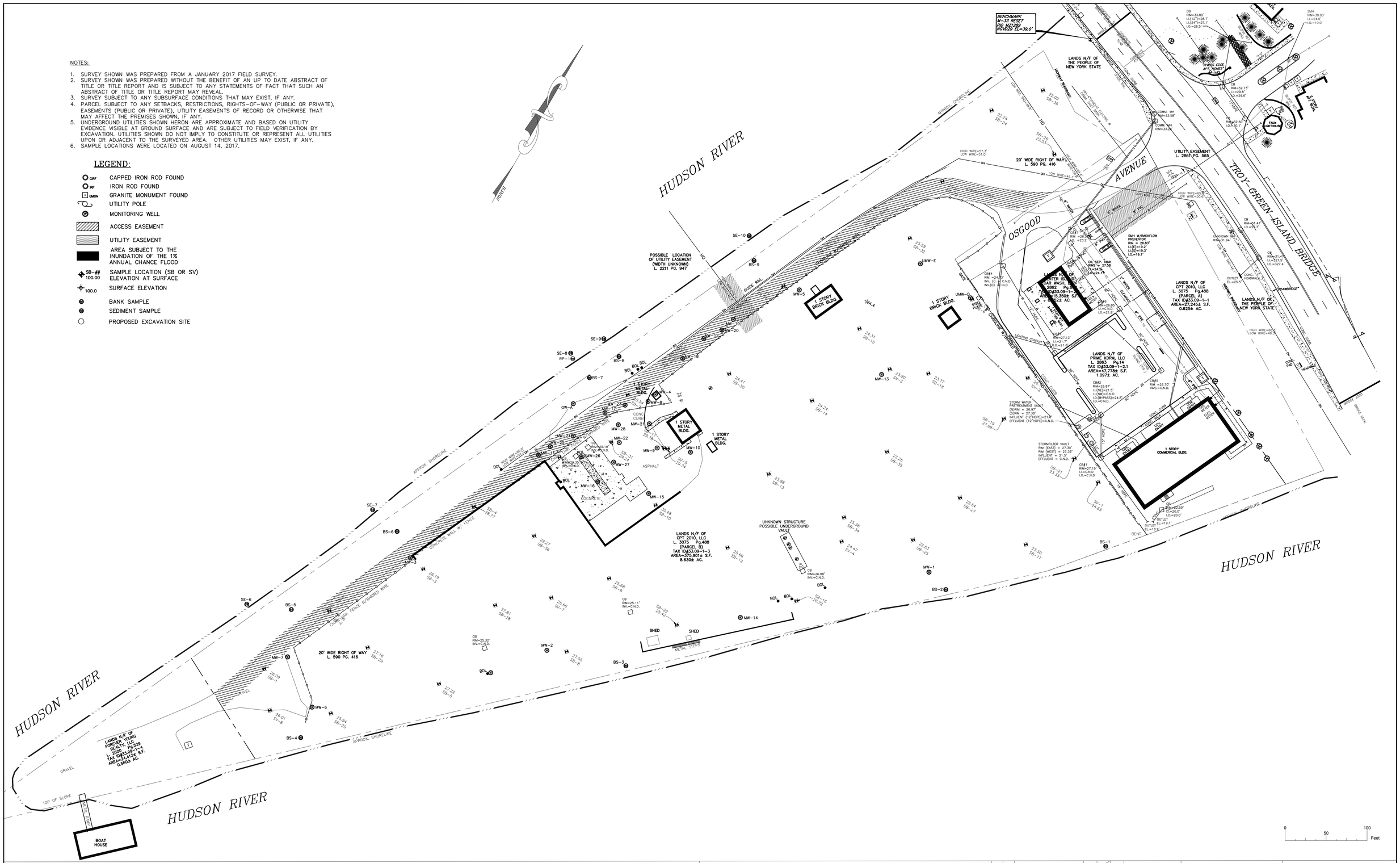
SCALE: NTS | DRAWING NO.: S-4 | SHEET | REV. NO.

NOTES:

1. SURVEY SHOWN WAS PREPARED FROM A JANUARY 2017 FIELD SURVEY.
2. SURVEY SHOWN WAS PREPARED WITHOUT THE BENEFIT OF AN UP TO DATE ABSTRACT OF TITLE OR TITLE REPORT AND IS SUBJECT TO ANY STATEMENTS OF FACT THAT SUCH AN ABSTRACT OF TITLE OR TITLE REPORT MAY REVEAL.
3. SURVEY SUBJECT TO ANY SUBSURFACE CONDITIONS THAT MAY EXIST, IF ANY.
4. PARCEL SUBJECT TO ANY SETBACKS, RESTRICTIONS, RIGHTS-OF-WAY (PUBLIC OR PRIVATE), EASEMENTS (PUBLIC OR PRIVATE), UTILITY EASEMENTS OF RECORD OR OTHERWISE THAT MAY AFFECT THE PREMISES SHOWN, IF ANY.
5. UNDERGROUND UTILITIES SHOWN HERON ARE APPROXIMATE AND BASED ON UTILITY EVIDENCE VISIBLE AT GROUND SURFACE AND ARE SUBJECT TO FIELD VERIFICATION BY EXCAVATION. UTILITIES SHOWN DO NOT IMPLY TO CONSTITUTE OR REPRESENT ALL UTILITIES UPON OR ADJACENT TO THE SURVEYED AREA. OTHER UTILITIES MAY EXIST, IF ANY.
6. SAMPLE LOCATIONS WERE LOCATED ON AUGUST 14, 2017.

LEGEND:

- CRF — CAPPED IRON ROD FOUND
- IRF — IRON ROD FOUND
- GMON — GRANITE MONUMENT FOUND
- UTILITY POLE
- MW — MONITORING WELL
- ACCESS EASEMENT
- UTILITY EASEMENT
- AREA SUBJECT TO THE INUNDATION OF THE 1% ANNUAL CHANCE FLOOD
- SB-## 100.00 — SAMPLE LOCATION (SB OR SV) ELEVATION AT SURFACE
- 100.0 — SURFACE ELEVATION
- BANK SAMPLE
- SEDIMENT SAMPLE
- PROPOSED EXCAVATION SITE



ENVIROSPEC PROJECT #E17-1600

envirospec ENGINEERING, PLLC
349 NORTHERN BLVD. SUITE 3
ALBANY, NY 12204-1032
P:518.453.2203
F:518.453.2204

W.O. No.	REVISION	DATE	DRN.	APR.

DRAWING STATUS: FOR REFERENCE ONLY

SOUTH ISLAND APARTMENTS SITE
1 OSGOOD AVENUE/CENTER ISLAND,
TOWN OF GREEN ISLAND, ALBANY COUNTY, NEW YORK

DRAWN: -
CHECKED: -
DRAWING: WGR

SOUTH ISLAND APARTMENTS SITE
SOUTH ISLAND APARTMENTS SITE
SURVEYED SAMPLE LOCATIONS

SCALE: NTS | DRAWING No.: S-5 | SHEET | REV. No.

NOTES:

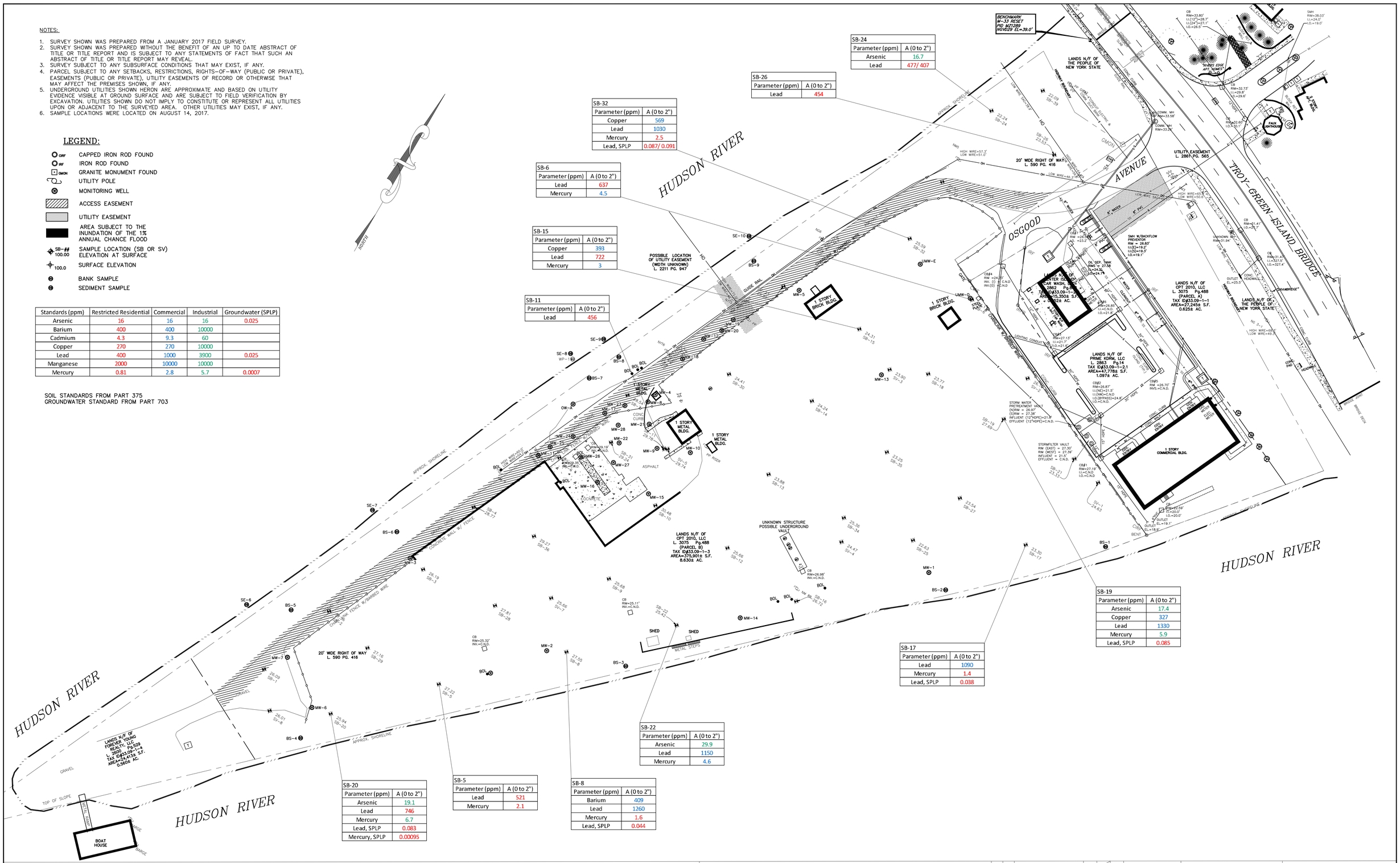
1. SURVEY SHOWN WAS PREPARED FROM A JANUARY 2017 FIELD SURVEY.
2. SURVEY SHOWN WAS PREPARED WITHOUT THE BENEFIT OF AN UP TO DATE ABSTRACT OF TITLE OR TITLE REPORT AND IS SUBJECT TO ANY STATEMENTS OF FACT THAT SUCH AN ABSTRACT OF TITLE OR TITLE REPORT MAY REVEAL.
3. SURVEY SUBJECT TO ANY SUBSURFACE CONDITIONS THAT MAY EXIST, IF ANY.
4. PARCEL SUBJECT TO ANY SETBACKS, RESTRICTIONS, RIGHTS-OF-WAY (PUBLIC OR PRIVATE), EASEMENTS (PUBLIC OR PRIVATE), UTILITY EASEMENTS OF RECORD OR OTHERWISE THAT MAY AFFECT THE PREMISES SHOWN, IF ANY.
5. UNDERGROUND UTILITIES SHOWN HERON ARE APPROXIMATE AND BASED ON UTILITY EVIDENCE VISIBLE AT GROUND SURFACE AND ARE SUBJECT TO FIELD VERIFICATION BY EXCAVATION. UTILITIES SHOWN DO NOT IMPLY TO CONSTITUTE OR REPRESENT ALL UTILITIES UPON OR ADJACENT TO THE SURVEYED AREA. OTHER UTILITIES MAY EXIST, IF ANY.
6. SAMPLE LOCATIONS WERE LOCATED ON AUGUST 14, 2017.

LEGEND:

- CIRF — CAPPED IRON ROD FOUND
- IRF — IRON ROD FOUND
- GMON — GRANITE MONUMENT FOUND
- UTILITY POLE
- MONITORING WELL
- ACCESS EASEMENT
- UTILITY EASEMENT
- AREA SUBJECT TO THE INUNDATION OF THE 1% ANNUAL CHANCE FLOOD
- SB-## 100.00 — SAMPLE LOCATION (SB OR SV) ELEVATION AT SURFACE
- 100.0 — SURFACE ELEVATION
- BANK SAMPLE
- SEDIMENT SAMPLE

Standards (ppm)	Restricted Residential	Commercial	Industrial	Groundwater (SPLP)
Arsenic	16	16	16	0.025
Barium	400	400	10000	
Cadmium	4.3	9.3	60	
Copper	270	270	10000	
Lead	400	1000	3900	0.025
Manganese	2000	10000	10000	
Mercury	0.81	2.8	5.7	0.0007

SOIL STANDARDS FROM PART 375
GROUNDWATER STANDARD FROM PART 703



SB-20	
Parameter (ppm)	A (0 to 2")
Arsenic	19.1
Lead	746
Mercury	6.7
Lead, SPLP	0.083
Mercury, SPLP	0.00095

SB-5	
Parameter (ppm)	A (0 to 2")
Lead	521
Mercury	2.1

SB-8	
Parameter (ppm)	A (0 to 2")
Barium	409
Lead	1260
Mercury	1.6
Lead, SPLP	0.044

SB-22	
Parameter (ppm)	A (0 to 2")
Arsenic	29.9
Lead	1150
Mercury	4.6

SB-17	
Parameter (ppm)	A (0 to 2")
Lead	1090
Mercury	1.4
Lead, SPLP	0.038

SB-19	
Parameter (ppm)	A (0 to 2")
Arsenic	17.4
Copper	327
Lead	1330
Mercury	5.9
Lead, SPLP	0.085

SB-24	
Parameter (ppm)	A (0 to 2")
Arsenic	16.7
Lead	477/ 407

SB-26	
Parameter (ppm)	A (0 to 2")
Lead	454

SB-32	
Parameter (ppm)	A (0 to 2")
Copper	569
Lead	1030
Mercury	2.5
Lead, SPLP	0.087/ 0.091

SB-6	
Parameter (ppm)	A (0 to 2")
Lead	637
Mercury	4.5

SB-15	
Parameter (ppm)	A (0 to 2")
Copper	393
Lead	722
Mercury	3

SB-11	
Parameter (ppm)	A (0 to 2")
Lead	456

ENVIROSPEC PROJECT #E17-1600

envirospec ENGINEERING, PLLC
349 NORTHERN BLVD. SUITE 3
ALBANY, NY 12204-1032
P:518.453.2203
F:518.453.2204

W.O.No.	REVISION	DATE	DRN	APR

DRAWING STATUS: FOR REFERENCE ONLY

SOUTH ISLAND APARTMENTS SITE
1 OSGOOD AVENUE/CENTER ISLAND,
TOWN OF GREEN ISLAND, ALBANY COUNTY, NEW YORK

DRAWN: -
CHECKED: -
DRAWING MGR:

SOUTH ISLAND APARTMENTS SITE SURFACE SOILS – METALS

SCALE: NTS | DRAWING No.: R-1 | SHEET | REV. No.

NOTES:

1. SURVEY SHOWN WAS PREPARED FROM A JANUARY 2017 FIELD SURVEY.
2. SURVEY SHOWN WAS PREPARED WITHOUT THE BENEFIT OF AN UP TO DATE ABSTRACT OF TITLE OR TITLE REPORT AND IS SUBJECT TO ANY STATEMENTS OF FACT THAT SUCH AN ABSTRACT OF TITLE OR TITLE REPORT MAY REVEAL.
3. SURVEY SUBJECT TO ANY SUBSURFACE CONDITIONS THAT MAY EXIST, IF ANY.
4. PARCEL SUBJECT TO ANY SETBACKS, RESTRICTIONS, RIGHTS-OF-WAY (PUBLIC OR PRIVATE), EASEMENTS (PUBLIC OR PRIVATE), UTILITY EASEMENTS OF RECORD OR OTHERWISE THAT MAY AFFECT THE PREMISES SHOWN, IF ANY.
5. UNDERGROUND UTILITIES SHOWN HERON ARE APPROXIMATE AND BASED ON UTILITY EVIDENCE VISIBLE AT GROUND SURFACE AND ARE SUBJECT TO FIELD VERIFICATION BY EXCAVATION. UTILITIES SHOWN DO NOT IMPLY TO CONSTITUTE OR REPRESENT ALL UTILITIES UPON OR ADJACENT TO THE SURVEYED AREA. OTHER UTILITIES MAY EXIST, IF ANY.
6. SAMPLE LOCATIONS WERE LOCATED ON AUGUST 14, 2017.

LEGEND:

- CAPPED IRON ROD FOUND
- IRON ROD FOUND
- GRANITE MONUMENT FOUND
- UTILITY POLE
- MONITORING WELL
- ACCESS EASEMENT
- UTILITY EASEMENT
- AREA SUBJECT TO THE INUNDATION OF THE 1% ANNUAL CHANCE FLOOD
- SB-## 100.00 SAMPLE LOCATION (SB OR SV) ELEVATION AT SURFACE
- 100.0 SURFACE ELEVATION
- BANK SAMPLE
- SEDIMENT SAMPLE

Standards (ppm)	Restricted Residential	Commercial	Industrial	Groundwater (SPLP)
Arsenic	16	16	16	0.025
Barium	400	400	10000	
Cadmium	4.3	9.3	60	
Copper	270	270	10000	
Lead	400	1000	3900	0.025
Manganese	2000	10000	10000	
Mercury	0.81	2.8	5.7	0.0007

SOIL STANDARDS FROM PART 375
GROUNDWATER STANDARD FROM PART 703

SB-1	
Parameter (ppm)	B (2" to 2')
Lead	476
Mercury	0.89

SB-2	
Parameter (ppm)	B (2" to 2')
Barium	423
Lead	1370
Mercury	5.9
Lead, SPLP	0.07

SB-3	
Parameter (ppm)	B (2" to 2')
Arsenic	20.9
Lead	1080
Mercury	1.5
Lead, SPLP	0.042

SB-4		
Parameter (ppm)	B (2" to 2')	C (25' to 30')
Arsenic	17.9	--
Barium	476	--
Copper	302	--
Lead	1290	--
Mercury	2.3	0.95
Lead, SPLP	0.12	0.035

SB-5	
Parameter (ppm)	B (2" to 2')
Arsenic	42.6
Barium	1740
Cadmium	6.6
Copper	556
Lead	6520
Mercury	2.1

SB-6	
Parameter (ppm)	B (2" to 2')
Mercury	1.6

SB-7	
Parameter (ppm)	B (2" to 2')
Arsenic	23.5/ 19.2
Barium	408
Copper	357/ 724
Lead	1820/ 867
Mercury	5/ 39.4

SB-8		
Parameter (ppm)	B (2" to 2')	C (28' to 30')
Arsenic	18.3	--
Copper	282	--
Lead	1230	481
Mercury	8.5	--
Lead, SPLP	0.064	0.062

SB-9	
Parameter (ppm)	B (2" to 2')
Copper	294
Mercury	1

SB-10	
Parameter (ppm)	B (1' to 3')
Mercury	2.6

SB-11	
Parameter (ppm)	B (2" to 2')
Lead	469
Mercury	1.1/ 0.84
Lead, SPLP	0.068/ 0.061

SB-12	
Parameter (ppm)	B (2" to 2')
Arsenic	16
Copper	1740
Lead	2200
Mercury	19.3

SB-13		
Parameter (ppm)	B (1' to 2')	D (7' to 9')
Lead	711	--
Mercury	2.6	6.9
Lead, SPLP	--	0.074

SB-14	
Parameter (ppm)	B (3' to 5')
Arsenic	16.2

SB-15	
Parameter (ppm)	B (2" to 2')
Lead, SPLP	0.057

SB-16	
Parameter (ppm)	B (2" to 2')
Barium	414

SB-17	
Parameter (ppm)	B (2" to 2')
Arsenic	45.1
Lead	524
Mercury	1.6
Lead, SPLP	0.031
Mercury, SPLP	0.0021

SB-18	
Parameter (ppm)	B (0 to 2')
Arsenic	30.1
Lead	687
Mercury	1.1
Lead, SPLP	0.071

SB-19	
Parameter (ppm)	B (2" to 2')
Arsenic	19
Copper	361
Lead	1340
Mercury	14.1
Lead, SPLP	0.041

SB-20	
Parameter (ppm)	B (2" to 2')
Arsenic	19.7
Lead	1310
Mercury	25.1
Lead, SPLP	0.058
Mercury, SPLP	0.0024

SB-21		
Parameter (ppm)	B (2" to 2')	C (25' to 30')
Arsenic	18.8	--
Lead	1670	740
Mercury	0.9	--

SB-22	
Parameter (ppm)	B (2" to 2')
Arsenic	19.4
Lead	963
Mercury	2

SB-25	
Parameter (ppm)	B (2" to 2')
Arsenic	16
Lead	1010

SB-26		
Parameter (ppm)	B (2" to 2')	C (28' to 30')
Arsenic	--	56.6
Lead	751	--
Lead, SPLP	0.098	0.033

SB-29	
Parameter (ppm)	B (2" to 2')
Lead	560
Lead, SPLP	0.034/ 0.039

SB-30	
Parameter (ppm)	B (2" to 2')
Lead	1060
Mercury	1.1

SB-31	
Parameter (ppm)	B (1' to 3')
Arsenic	17
Lead	521
Mercury	1.5
Lead, SPLP	0.15

SB-32	
Parameter (ppm)	B (2" to 2')
Copper	389
Mercury	0.93

SB-33		
Parameter (ppm)	B (2" to 2')	D (25' to 30')
Arsenic	16	--
Copper	1990	--
Lead	673	--
Manganese	2190	--
Mercury	1	--
Lead, SPLP	--	0.028

SB-34	
Parameter (ppm)	B (1' to 2')
Arsenic	20.3
Lead	2290
Mercury	11.6

SB-35		
Parameter (ppm)	B (2' to 4')	D (5' to 10')
Lead, SPLP	0.035	--
Arsenic, SPLP	--	0.029

SB-36	
Parameter (ppm)	B (2" to 2')
Lead	575

BENCHMARK
W-33 RESET
PID MZ1289
NGVD29 EL=39.01'

HUDSON RIVER

APPROX. SHORELINE

POSSIBLE LOCATION OF UTILITY EASEMENT (WIDTH UNKNOWN) L. 2211 PG. 947

20' WIDE RIGHT OF WAY L. 590 PG. 416

UTILITY EASEMENT L. 2861 PG. 565

LANDS N/F OF THE PEOPLE OF NEW YORK STATE

LANDS N/F OF CPT 2010, LLC L. 3075 Pg.488 (PARCEL A) TAX ID#33.09-1-1 AREA=27,245± S.F. 0.625± AC.

LANDS N/F OF PRIME KORM, LLC L. 2863 Pg.14 TAX ID#33.09-1-2.1 AREA=47,778± S.F. 1.097± AC.

LANDS N/F OF CPT 2010, LLC L. 3075 Pg.488 (PARCEL B) TAX ID#33.09-1-3 AREA=375,901± S.F. 8.630± AC.

LANDS N/F OF FOREVER YOUNG REALTY Pg.529 L. 2900 TAX ID#33.09-1-4 AREA=424,413± S.F. 9.560± AC.

TROY-GREEN ISLAND BRIDGE

OSGOOD AVENUE

1 STORY BRICK BLDG.

1 STORY METAL BLDG.

1 STORY COMMERCIAL BLDG.

SHED

BOAT HOUSE

UNKNOWN STRUCTURE POSSIBLE UNDERGROUND VAULT

ENVIROSPEC PROJECT #E17-1600

envirospec ENGINEERING, PLLC
349 NORTHERN BLVD. SUITE 3
ALBANY, NY 12204-1032
P:518.453.2203
F:518.453.2204

W.O. No.	REVISION	DATE	DRN	APR.

DRAWING STATUS: FOR REFERENCE ONLY

SOUTH ISLAND APARTMENTS SITE
1 OSGOOD AVENUE/CENTER ISLAND,
TOWN OF GREEN ISLAND, ALBANY COUNTY, NEW YORK

DRAWN: -
DRAWING WORK:

SOUTH ISLAND APARTMENTS SITE
SUBSURFACE SOILS - METALS

SCALE: NTS | DRAWING No.: R-2 | SHEET | REV. No.

NOTES:

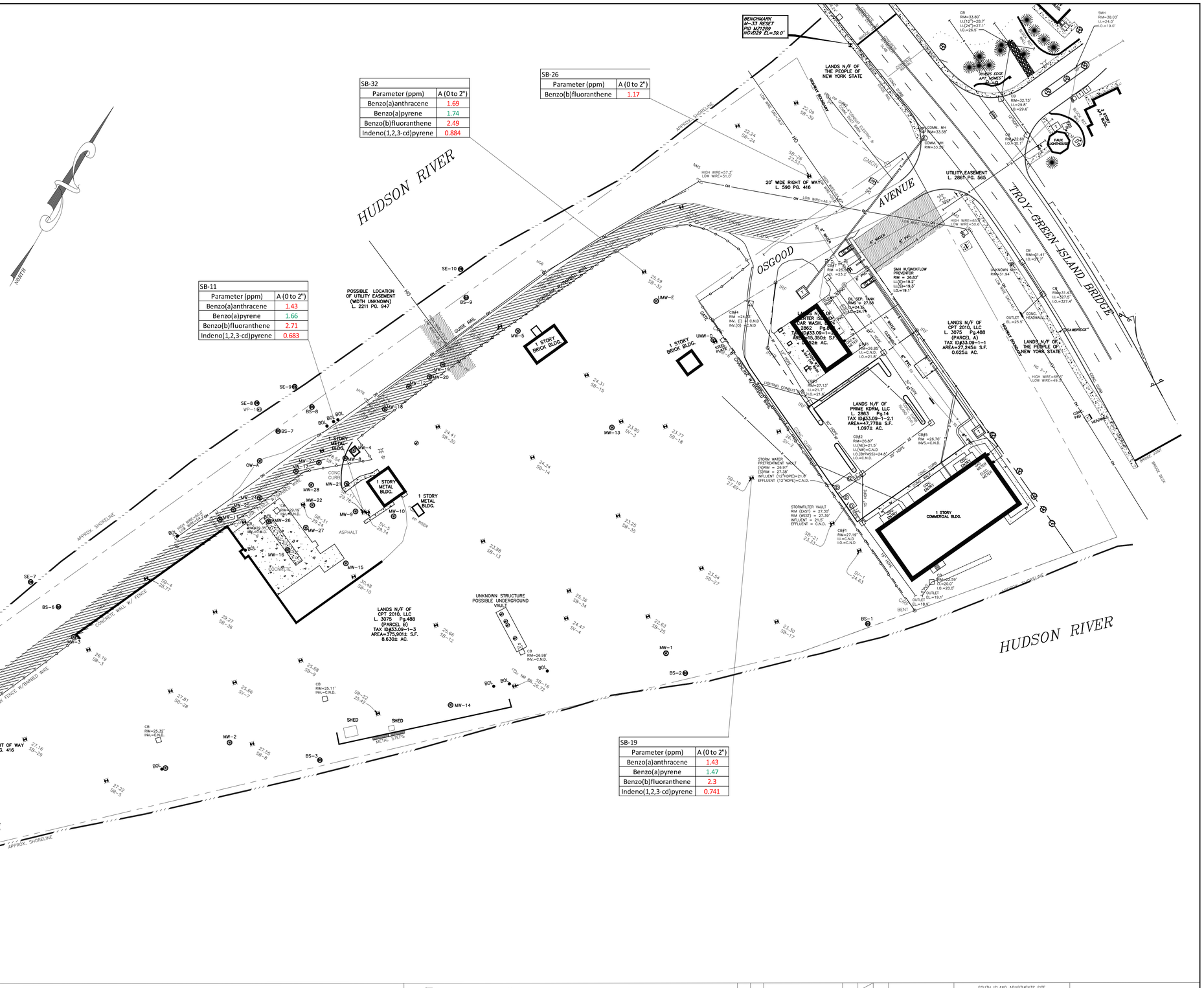
1. SURVEY SHOWN WAS PREPARED FROM A JANUARY 2017 FIELD SURVEY.
2. SURVEY SHOWN WAS PREPARED WITHOUT THE BENEFIT OF AN UP TO DATE ABSTRACT OF TITLE OR TITLE REPORT AND IS SUBJECT TO ANY STATEMENTS OF FACT THAT SUCH AN ABSTRACT OF TITLE OR TITLE REPORT MAY REVEAL.
3. SURVEY SUBJECT TO ANY SUBSURFACE CONDITIONS THAT MAY EXIST, IF ANY.
4. PARCEL SUBJECT TO ANY SETBACKS, RESTRICTIONS, RIGHTS-OF-WAY (PUBLIC OR PRIVATE), EASEMENTS (PUBLIC OR PRIVATE), UTILITY EASEMENTS OF RECORD OR OTHERWISE THAT MAY AFFECT THE PREMISES SHOWN, IF ANY.
5. UNDERGROUND UTILITIES SHOWN HERON ARE APPROXIMATE AND BASED ON UTILITY EVIDENCE VISIBLE AT GROUND SURFACE AND ARE SUBJECT TO FIELD VERIFICATION BY EXCAVATION. UTILITIES SHOWN DO NOT IMPLY TO CONSTITUTE OR REPRESENT ALL UTILITIES UPON OR ADJACENT TO THE SURVEYED AREA. OTHER UTILITIES MAY EXIST, IF ANY.
6. SAMPLE LOCATIONS WERE LOCATED ON AUGUST 14, 2017.

LEGEND:

- CRF — CAPPED IRON ROD FOUND
- IRF — IRON ROD FOUND
- GMON — GRANITE MONUMENT FOUND
- UTILITY POLE
- MONITORING WELL
- ACCESS EASEMENT
- UTILITY EASEMENT
- AREA SUBJECT TO THE INUNDATION OF THE 1% ANNUAL CHANCE FLOOD
- SB-## 100.00 — SAMPLE LOCATION (SB OR SV) ELEVATION AT SURFACE
- 100.0 — SURFACE ELEVATION
- BANK SAMPLE
- SEDIMENT SAMPLE

Standards (ppm)	Restricted Residential	Commercial	Industrial
Benzo(a)anthracene	1	5.6	11
Benzo(a)pyrene	1	1	1.1
Benzo(b)fluoranthene	1	5.6	11
Indeno(1,2,3-cd)pyrene	0.5	5.6	11

SOIL STANDARDS FROM PART 375



SB-32	
Parameter (ppm)	A (0 to 2")
Benzo(a)anthracene	1.69
Benzo(a)pyrene	1.74
Benzo(b)fluoranthene	2.49
Indeno(1,2,3-cd)pyrene	0.884

SB-26	
Parameter (ppm)	A (0 to 2")
Benzo(b)fluoranthene	1.17

SB-11	
Parameter (ppm)	A (0 to 2")
Benzo(a)anthracene	1.43
Benzo(a)pyrene	1.66
Benzo(b)fluoranthene	2.71
Indeno(1,2,3-cd)pyrene	0.683

SB-19	
Parameter (ppm)	A (0 to 2")
Benzo(a)anthracene	1.43
Benzo(a)pyrene	1.47
Benzo(b)fluoranthene	2.3
Indeno(1,2,3-cd)pyrene	0.741

SB-20	
Parameter (ppm)	A (0 to 2")
Benzo(b)fluoranthene	1.09

ENVIROSPEC PROJECT #E17-1600

envirospec ENGINEERING, PLLC
349 NORTHERN BLVD. SUITE 3
ALBANY, NY 12204-1032
P:518.453.2203
F:518.453.2204

W.O.No. | REVISION | DATE | APP.

DRAWING STATUS: FOR REFERENCE ONLY

SOUTH ISLAND APARTMENTS SITE
1 OSGOOD AVENUE/CENTER ISLAND,
TOWN OF GREEN ISLAND, ALBANY COUNTY, NEW YORK

DRAWN BY: - | CHECKED BY: MGH

SOUTH ISLAND APARTMENTS SITE
SURFACE SOILS - SVOCS

SCALE: NTS | DRAWING No.: R-3 | SHEET | REV. No.

NOTES:

1. SURVEY SHOWN WAS PREPARED FROM A JANUARY 2017 FIELD SURVEY.
2. SURVEY SHOWN WAS PREPARED WITHOUT THE BENEFIT OF AN UP TO DATE ABSTRACT OF TITLE OR TITLE REPORT AND IS SUBJECT TO ANY STATEMENTS OF FACT THAT SUCH AN ABSTRACT OF TITLE OR TITLE REPORT MAY REVEAL.
3. SURVEY SUBJECT TO ANY SUBSURFACE CONDITIONS THAT MAY EXIST, IF ANY.
4. PARCEL SUBJECT TO ANY SETBACKS, RESTRICTIONS, RIGHTS-OF-WAY (PUBLIC OR PRIVATE), EASEMENTS (PUBLIC OR PRIVATE), UTILITY EASEMENTS OF RECORD OR OTHERWISE THAT MAY AFFECT THE PREMISES SHOWN, IF ANY.
5. UNDERGROUND UTILITIES SHOWN HERON ARE APPROXIMATE AND BASED ON UTILITY EVIDENCE VISIBLE AT GROUND SURFACE AND ARE SUBJECT TO FIELD VERIFICATION BY EXCAVATION. UTILITIES SHOWN DO NOT IMPLY TO CONSTITUTE OR REPRESENT ALL UTILITIES UPON OR ADJACENT TO THE SURVEYED AREA. OTHER UTILITIES MAY EXIST, IF ANY.
6. SAMPLE LOCATIONS WERE LOCATED ON AUGUST 14, 2017.

LEGEND:

- CRF — CAPPED IRON ROD FOUND
- IRF — IRON ROD FOUND
- GMON — GRANITE MONUMENT FOUND
- UTILITY POLE
- MW — MONITORING WELL
- ACCESS EASEMENT
- UTILITY EASEMENT
- AREA SUBJECT TO THE INUNDATION OF THE 1% ANNUAL CHANCE FLOOD
- SB-## 100.00 — SAMPLE LOCATION (SB OR SV) ELEVATION AT SURFACE
- 100.0 — SURFACE ELEVATION
- BS — BANK SAMPLE
- SS — SEDIMENT SAMPLE

Standards (ppm)	Restricted Residential	Commercial	Industrial
Benzo(a)anthracene	1	5.6	11
Benzo(a)pyrene	1	1	1.1
Benzo(b)fluoranthene	1	5.6	11
Benzo(k)fluoranthene	3.9	56	110
Chrysene	3.9	56	110
Dibenz(a,h)anthracene	0.33	0.56	1.1
Indeno(1,2,3-cd)pyrene	0.5	5.6	11

SOIL STANDARDS FROM PART 375

SB-26	
Parameter (ppm)	B (2" to 2')
Benzo(a)anthracene	5.84
Benzo(a)pyrene	6.09
Benzo(b)fluoranthene	9.21
Benzo(k)fluoranthene	6.31
Chrysene	7.21
Dibenz(a,h)anthracene	1.04
Indeno(1,2,3-cd)pyrene	3.84

SB-11	
Parameter (ppm)	B (2" to 2')
Benzo(a)pyrene	1.1
Benzo(b)fluoranthene	1.7

SB-4	
Parameter (ppm)	B (2" to 2')
Benzo(a)anthracene	1.83
Benzo(a)pyrene	1.9
Benzo(b)fluoranthene	2.77
Indeno(1,2,3-cd)pyrene	0.795

SB-3	
Parameter (ppm)	B (2" to 2')
Benzo(a)anthracene	1.04
Benzo(a)pyrene	1.37
Benzo(b)fluoranthene	1.59
Indeno(1,2,3-cd)pyrene	0.841

SB-19	
Parameter (ppm)	B (2" to 2')
Benzo(a)anthracene	2.21
Benzo(a)pyrene	2.09
Benzo(b)fluoranthene	3.22
Indeno(1,2,3-cd)pyrene	0.735

SB-35	
Parameter (ppm)	B (2' to 4')
Benzo(a)anthracene	2.37
Benzo(a)pyrene	2.04
Benzo(b)fluoranthene	3.21
Indeno(1,2,3-cd)pyrene	0.697

SB-8	
Parameter (ppm)	B (2" to 2')
Benzo(a)anthracene	1.48
Benzo(a)pyrene	1.33
Benzo(b)fluoranthene	1.81
Indeno(1,2,3-cd)pyrene	0.64

SB-20	
Parameter (ppm)	B (2" to 2')
Benzo(a)anthracene	1.76
Benzo(a)pyrene	1.71
Benzo(b)fluoranthene	2.65
Indeno(1,2,3-cd)pyrene	0.674

ENVIROSPEC PROJECT #E17-1600

envirospec ENGINEERING, PLLC
349 NORTHERN BLVD. SUITE 3
ALBANY, NY 12204-1032
P:518.453.2203
F:518.453.2204

W.O.No.	REVISION	DATE	DRN.	APR.

DRAWING STATUS: FOR REFERENCE ONLY

SOUTH ISLAND APARTMENTS SITE
1 OSGOOD AVENUE/CENTER ISLAND,
TOWN OF GREEN ISLAND, ALBANY COUNTY, NEW YORK

DRAWN: -
CHECKED: -
DRAWING: MGH

SOUTH ISLAND APARTMENTS SITE
SUBSURFACE SOILS - SVOCS

SCALE: NTS | DRAWING No.: R-4 | SHEET | REV. No.

NOTES:

1. SURVEY SHOWN WAS PREPARED FROM A JANUARY 2017 FIELD SURVEY.
2. SURVEY SHOWN WAS PREPARED WITHOUT THE BENEFIT OF AN UP TO DATE ABSTRACT OF TITLE OR TITLE REPORT AND IS SUBJECT TO ANY STATEMENTS OF FACT THAT SUCH AN ABSTRACT OF TITLE OR TITLE REPORT MAY REVEAL.
3. SURVEY SUBJECT TO ANY SUBSURFACE CONDITIONS THAT MAY EXIST, IF ANY.
4. PARCEL SUBJECT TO ANY SETBACKS, RESTRICTIONS, RIGHTS-OF-WAY (PUBLIC OR PRIVATE), EASEMENTS (PUBLIC OR PRIVATE), UTILITY EASEMENTS OF RECORD OR OTHERWISE THAT MAY AFFECT THE PREMISES SHOWN, IF ANY.
5. UNDERGROUND UTILITIES SHOWN HERON ARE APPROXIMATE AND BASED ON UTILITY EVIDENCE VISIBLE AT GROUND SURFACE AND ARE SUBJECT TO FIELD VERIFICATION BY EXCAVATION. UTILITIES SHOWN DO NOT IMPLY TO CONSTITUTE OR REPRESENT ALL UTILITIES UPON OR ADJACENT TO THE SURVEYED AREA. OTHER UTILITIES MAY EXIST, IF ANY.
6. SAMPLE LOCATIONS WERE LOCATED ON AUGUST 14, 2017.

LEGEND:

- CIRF — CAPPED IRON ROD FOUND
- IRF — IRON ROD FOUND
- GMON — GRANITE MONUMENT FOUND
- UTILITY POLE
- MONITORING WELL
- ACCESS EASEMENT
- UTILITY EASEMENT
- AREA SUBJECT TO THE INUNDATION OF THE 1% ANNUAL CHANCE FLOOD
- SB-## 100.00 — SAMPLE LOCATION (SB OR SV) ELEVATION AT SURFACE
- 100.0 — SURFACE ELEVATION
- BANK SAMPLE
- SEDIMENT SAMPLE

SB-26			
Parameter (ppm)	A (0 to 2")	B (2" to 2')	C (28' to 30')
TPH	253	596	403

SB-24	
Parameter (ppm)	A (0 to 2")
TPH	539

SB-15		
Parameter (ppm)	B (2" to 2')	C (25' to 30')
TPH	178	647

SB-32			
Parameter (ppm)	A (0 to 2")	B (2" to 2')	C (25' to 30')
TPH	182	177	269

SB-18		
Parameter (ppm)	B (0 to 2')	C (15' to 20')
TPH	723	167

SB-23		
Parameter (ppm)	B (2" to 2')	C (25' to 30')
TPH	5630	7970

SB-14		
Parameter (ppm)	B (3' to 5')	C (15' to 20')
TPH	140	268

SB-30	
Parameter (ppm)	D (18' to 20')
TPH	270

SB-7	
Parameter (ppm)	A (0 to 2")
TPH	2850

SB-11				
Parameter (ppm)	A (0 to 2")	B (2" to 2')	C (30' to 32')	D (32' to 34')
TPH	883	364/ 535	5620	403

SB-31	
Parameter (ppm)	D (19' to 20')
TPH	353

SB-10		
Parameter (ppm)	B (1' to 3')	C (28' to 30')
TPH	197	7490/ 2860

SB-4		
Parameter (ppm)	B (2" to 2')	C (25' to 30')
TPH	410	1090

SB-28		
Parameter (ppm)	B (2" to 2')	C (25' to 30')
TPH	128	179

SB-3			
Parameter (ppm)	B (2" to 2')	C (25' to 30')	D (5' to 10')
TPH	247	383	6870

SB-29		
Parameter (ppm)	B (2" to 2')	C (25' to 30')
TPH	213/ 321	475

SB-2	
Parameter (ppm)	B (2" to 2')
TPH	315

SB-19			
Parameter (ppm)	A (0 to 2")	B (2" to 2')	C (25' to 30')
TPH	<159	316	275

SB-17			
Parameter (ppm)	A (0 to 2")	B (2" to 2')	C (28' to 30')
TPH	252	284	221

SB-12	
Parameter (ppm)	D (8' to 10')
TPH	1210

SB-27		
Parameter (ppm)	D (4' to 5')	D (18' to 20')
TPH	269	116

SB-36	
Parameter (ppm)	C (25' to 30')
TPH	206

SB-16		
Parameter (ppm)	B (2" to 2')	C (28' to 30')
TPH	<212	232

SB-35		
Parameter (ppm)	B (2' to 4')	D (5' to 10')
TPH	873	1390

SB-9	
Parameter (ppm)	D (7' to 8')
TPH	3590

SB-22	
Parameter (ppm)	D (25' to 27')
TPH	1310

SB-13	
Parameter (ppm)	D (7' to 9')
TPH	381

SB-8			
Parameter (ppm)	A (0 to 2")	B (2" to 2')	C (28' to 30')
TPH	268	322	265

SB-20			
Parameter (ppm)	A (0 to 2")	B (2" to 2')	C (25' to 30')
TPH	244	815	<134

BENCHMARK
M-33 RESET
PID MZ1289
NGVD29 EL=39.0'

HUDSON RIVER

TROY-GREEN ISLAND BRIDGE

OSGOOD AVENUE

LANDS N/F OF THE PEOPLE OF NEW YORK STATE

UTILITY EASEMENT L. 2861 PG. 565

20' WIDE RIGHT OF WAY L. 590 PG. 416

POSSIBLE LOCATION OF UTILITY EASEMENT (WIDTH UNKNOWN) L. 2211 PG. 947

LANDS N/F OF CENTER ISLAND CAR WASH, LLC L. 2862 Pg. 488 TAX ID#33.09-1-2.2 AREA=15,350± S.F. = 0.352± AC.

LANDS N/F OF CPT 2010, LLC L. 3075 Pg.488 (PARCEL A) TAX ID#33.09-1-1 AREA=27,245± S.F. 0.625± AC.

LANDS N/F OF PRIME KDRM, LLC L. 2863 Pg.14 TAX ID#33.09-1-2.1 AREA=47,778± S.F. 1.097± AC.

LANDS N/F OF CPT 2010, LLC L. 3075 Pg.488 (PARCEL B) TAX ID#33.09-1-3 AREA=375,901± S.F. 8.630± AC.

LANDS N/F OF FOREVER YOUNG REALTY, Pg.539 L. 2600 TAX ID#33.09-1-4 AREA=54,435± S.F. 0.500± AC.

BOAT HOUSE

1 STORY BRICK BLDG.

1 STORY METAL BLDG.

1 STORY COMMERCIAL BLDG.

SHED

UNKNOWN STRUCTURE POSSIBLE UNDERGROUND VAULT

CONCRETE

ASPHALT

GRAVEL

CHAIN LINK FENCE W/BARBED WIRE

CHAIN LINK FENCE W/ FENCE

GUIDE RAIL

OVERHEAD WIRE

APPROX. SHORELINE

TOP OF SLOPE

TOP OF BANK

BENT

BRIDGE JOINT

envirospec ENGINEERING, PLLC
349 NORTHERN BLVD. SUITE 3
ALBANY, NY 12204-1032
P:518.453.2203
F:518.453.2204

W.O. No.	REVISION	DATE	APR.

DRAWING STATUS: FOR REFERENCE ONLY

SOUTH ISLAND APARTMENTS SITE
1 OSGOOD AVENUE/CENTER ISLAND,
TOWN OF GREEN ISLAND, ALBANY COUNTY, NEW YORK

DRAWN BY: -
DRAWING MGR: MGR

SOUTH ISLAND APARTMENTS SITE SURFACE AND SUBSURFACE SOILS - TPH

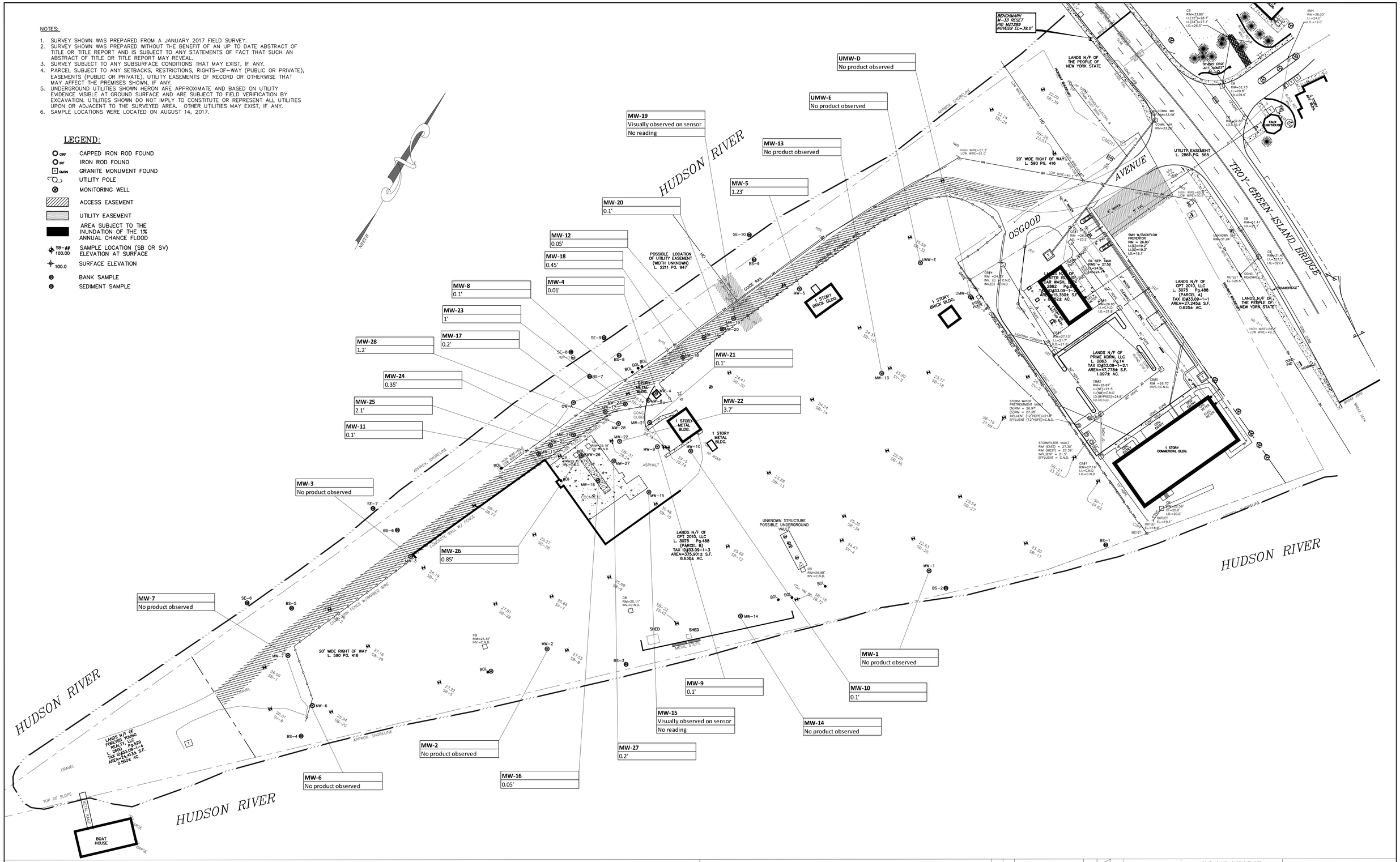
SCALE: NTS | DRAWING No.: R-5 | SHEET | REV. No.

NOTES:

1. SURVEY SHOWN WAS PREPARED FROM A JANUARY 2017 FIELD SURVEY.
2. SURVEY SHOWN WAS PREPARED WITHOUT THE BENEFIT OF AN UP TO DATE ABSTRACT OF TITLE OR TITLE REPORT AND IS SUBJECT TO ANY STATEMENTS OF FACT THAT SUCH AN ABSTRACT OF TITLE OR TITLE REPORT MAY REVEAL.
3. SURVEY SUBJECT TO ANY SUBSURFACE CONDITIONS THAT MAY EXIST, IF ANY.
4. PARCEL SUBJECT TO ANY SETBACKS, RESTRICTIONS, RIGHTS-OF-WAY (PUBLIC OR PRIVATE), EASEMENTS (PUBLIC OR PRIVATE), UTILITY EASEMENTS OF RECORD OR OTHERWISE THAT MAY AFFECT THE PREMISES SHOWN, IF ANY.
5. UNDERGROUND UTILITIES SHOWN HERON ARE APPROXIMATE AND BASED ON UTILITY EVIDENCE VISIBLE AT GROUND SURFACE AND ARE SUBJECT TO FIELD VERIFICATION BY EXCAVATION. UTILITIES SHOWN DO NOT IMPLY TO CONSTITUTE OR REPRESENT ALL UTILITIES UPON OR ADJACENT TO THE SURVEYED AREA. OTHER UTILITIES MAY EXIST, IF ANY.
6. SAMPLE LOCATIONS WERE LOCATED ON AUGUST 14, 2017.

LEGEND:

- CRF — CAPPED IRON ROD FOUND
- IRF — IRON ROD FOUND
- GMON — GRANITE MONUMENT FOUND
- UTILITY POLE
- MONITORING WELL
- ACCESS EASEMENT
- UTILITY EASEMENT
- AREA SUBJECT TO THE INUNDATION OF THE 1% ANNUAL CHANCE FLOOD
- SB-## 100.00 — SAMPLE LOCATION (SB OR SV) ELEVATION AT SURFACE
- 100.0 — SURFACE ELEVATION
- BANK SAMPLE
- SEDIMENT SAMPLE



ENVIROSPEC PROJECT #E17-1600

envirospec ENGINEERING, PLLC
349 NORTHERN BLVD. SUITE 3
ALBANY, NY 12204-1032
P:518.453.2203
F:518.453.2204

W.O.No.	REVISION	DATE	APR.

DRAWING STATUS: FOR REFERENCE ONLY

SOUTH ISLAND APARTMENTS SITE
1 OSGOOD AVENUE/CENTER ISLAND,
TOWN OF GREEN ISLAND, ALBANY COUNTY, NEW YORK

DESIGN BY: -
DRAWN BY: MJR

SOUTH ISLAND APARTMENTS SITE LNAPL THICKNESS

SCALE: NTS | DRAWING No.: R-6 | SHEET | REV. No.

NOTES:

1. SURVEY SHOWN WAS PREPARED FROM A JANUARY 2017 FIELD SURVEY.
2. SURVEY SHOWN WAS PREPARED WITHOUT THE BENEFIT OF AN UP TO DATE ABSTRACT OF TITLE OR TITLE REPORT AND IS SUBJECT TO ANY STATEMENTS OF FACT THAT SUCH AN ABSTRACT OF TITLE OR TITLE REPORT MAY REVEAL.
3. SURVEY SUBJECT TO ANY SUBSURFACE CONDITIONS THAT MAY EXIST, IF ANY.
4. PARCEL SUBJECT TO ANY SETBACKS, RESTRICTIONS, RIGHTS-OF-WAY (PUBLIC OR PRIVATE), EASEMENTS (PUBLIC OR PRIVATE), UTILITY EASEMENTS OF RECORD OR OTHERWISE THAT MAY AFFECT THE PREMISES SHOWN, IF ANY.
5. UNDERGROUND UTILITIES SHOWN HERON ARE APPROXIMATE AND BASED ON UTILITY EVIDENCE VISIBLE AT GROUND SURFACE AND ARE SUBJECT TO FIELD VERIFICATION BY EXCAVATION. UTILITIES SHOWN DO NOT IMPLY TO CONSTITUTE OR REPRESENT ALL UTILITIES UPON OR ADJACENT TO THE SURVEYED AREA. OTHER UTILITIES MAY EXIST, IF ANY.
6. SAMPLE LOCATIONS WERE LOCATED ON AUGUST 14, 2017.

LEGEND:

- CIRF — CAPPED IRON ROD FOUND
- IRF — IRON ROD FOUND
- GMON — GRANITE MONUMENT FOUND
- UTILITY POLE
- MONITORING WELL
- ACCESS EASEMENT
- UTILITY EASEMENT
- AREA SUBJECT TO THE INUNDATION OF THE 1% ANNUAL CHANCE FLOOD
- SB-## 100.00 — SAMPLE LOCATION (SB OR SV) ELEVATION AT SURFACE
- 100.0 — SURFACE ELEVATION
- BANK SAMPLE
- SEDIMENT SAMPLE

SV-3	
Parameter	Result (µg/m3)
Benzene	1
Ethylbenzene	5.9/ 5.8
m&p-Xylene	15/ 14
o-Xylene	6.3/ 6.1
Toluene	55/ 56

Ambient Air (AA-01)	
Parameter	Result (µg/m3)
Benzene	0.45J
Ethylbenzene	ND
m&p-Xylene	0.52J
o-Xylene	ND
Toluene	1.2

SV-5	
Parameter	Result (µg/m3)
Benzene	1.1
Ethylbenzene	6.4
m&p-Xylene	17
o-Xylene	7.3
Toluene	20

SV-6	
Parameter	Result (µg/m3)
Benzene	13
Ethylbenzene	15
m&p-Xylene	37
o-Xylene	17
Toluene	49

SV-7	
Parameter	Result (µg/m3)
Benzene	15
Ethylbenzene	33
m&p-Xylene	76
o-Xylene	24
Toluene	35

SV-8	
Parameter	Result (µg/m3)
Benzene	0.93
Ethylbenzene	2.9
m&p-Xylene	6.9
o-Xylene	3.4
Toluene	9.8J

SV-2	
Parameter	Result (µg/m3)
Benzene	1.3
Ethylbenzene	16
m&p-Xylene	36
o-Xylene	14
Toluene	160

SV-1	
Parameter	Result (µg/m3)
Benzene	0.73
Ethylbenzene	4
m&p-Xylene	13
o-Xylene	5.7
Toluene	120

SV-4	
Parameter	Result (µg/m3)
Benzene	9.6
Ethylbenzene	9
m&p-Xylene	27
o-Xylene	13
Toluene	51

ENVIROSPEC PROJECT #E17-1600

envirospec ENGINEERING, PLLC
349 NORTHERN BLVD. SUITE 3
ALBANY, NY 12204-1032
P:518.453.2203
F:518.453.2204

W.O. No.	REVISION	DATE	BY	APR.

DRAWING STATUS: FOR REFERENCE ONLY

SOUTH ISLAND APARTMENTS SITE
1 OSGOOD AVENUE/CENTER ISLAND,
TOWN OF GREEN ISLAND, ALBANY COUNTY, NEW YORK

DRAWN BY: -
DRAWING MGR: MGR

SOUTH ISLAND APARTMENTS SITE SOIL VAPOR – BTEX RESULTS

SCALE: NTS | DRAWING No.: R-7 | SHEET | REV. No

NOTES:

1. SURVEY SHOWN WAS PREPARED FROM A JANUARY 2017 FIELD SURVEY.
2. SURVEY SHOWN WAS PREPARED WITHOUT THE BENEFIT OF AN UP TO DATE ABSTRACT OF TITLE OR TITLE REPORT AND IS SUBJECT TO ANY STATEMENTS OF FACT THAT SUCH AN ABSTRACT OF TITLE OR TITLE REPORT MAY REVEAL.
3. SURVEY SUBJECT TO ANY SUBSURFACE CONDITIONS THAT MAY EXIST, IF ANY.
4. PARCEL SUBJECT TO ANY SETBACKS, RESTRICTIONS, RIGHTS-OF-WAY (PUBLIC OR PRIVATE), EASEMENTS (PUBLIC OR PRIVATE), UTILITY EASEMENTS OF RECORD OR OTHERWISE THAT MAY AFFECT THE PREMISES SHOWN, IF ANY.
5. UNDERGROUND UTILITIES SHOWN HERON ARE APPROXIMATE AND BASED ON UTILITY EVIDENCE VISIBLE AT GROUND SURFACE AND ARE SUBJECT TO FIELD VERIFICATION BY EXCAVATION. UTILITIES SHOWN DO NOT IMPLY TO CONSTITUTE OR REPRESENT ALL UTILITIES UPON OR ADJACENT TO THE SURVEYED AREA. OTHER UTILITIES MAY EXIST, IF ANY.
6. SAMPLE LOCATIONS WERE LOCATED ON AUGUST 14, 2017.

LEGEND:

- CAPPED IRON ROD FOUND (CIRF)
- IRON ROD FOUND (IRF)
- GRANITE MONUMENT FOUND (GMON)
- UTILITY POLE
- MONITORING WELL
- ACCESS EASEMENT
- UTILITY EASEMENT
- AREA SUBJECT TO THE INUNDATION OF THE 1% ANNUAL CHANCE FLOOD
- SAMPLE LOCATION (SB OR SV) ELEVATION AT SURFACE (SB-## 100.00)
- SURFACE ELEVATION (100.0)
- BANK SAMPLE
- SEDIMENT SAMPLE

Standards (ppb)	Groundwater, Part 703 Standard
Aldrin	ND
Arsenic	25
Benzene	1
Endrin	ND
Isopropylbenzene	5
Total Phenol	1
Total PCB	0.09

MW-3	
Parameter (ppb)	Oct-17
Total PCB	0.3

MW-4		
Parameter (ppb)	Sep-17	Oct-17
Benzene	6.1	7.9
Endrin	-	0.0046
Total PCB	-	0.13

MW-13	
Parameter (ppb)	Oct-17
Benzene	1.2
Endrin	0.0013
Total PCB	0.16

UMW-D	
Parameter (ppb)	Oct-17
Phenol	1.5
Total PCB	0.32

MW-10		
Parameter (ppb)	Sep-17	Oct-17
Aldrin	-	0.00086
Arsenic, total	35.5	-
Arsenic, dissolved	35.3	-
Endrin	0.0072	-
Isopropylbenzene	8.7	-
Total PCB	0.85	0.45

MW-14	
Parameter (ppb)	Oct-17
Total PCB	0.45

MW-2	
Parameter (ppb)	Oct-17
Endrin	0.002
Total PCB	0.45

IRON AND MANGANESE AND SODIUM NOT SHOWN

ENVIROSPEC PROJECT #E17-1600

envirospec ENGINEERING, PLLC
349 NORTHERN BLVD. SUITE 3
ALBANY, NY 12204-1032
P:518.453.2203
F:518.453.2204

W.O.No. REVISION DATE DRN. APR.

DRAWING STATUS: FOR REFERENCE ONLY

SOUTH ISLAND APARTMENTS SITE
1 OSGOOD AVENUE/CENTER ISLAND,
TOWN OF GREEN ISLAND, ALBANY COUNTY, NEW YORK

DRAWN: -
DRAWING MGR: -

SOUTH ISLAND APARTMENTS SITE
GROUNDWATER EXCEEDANCES

SCALE: NTS | DRAWING No.: R-8 | SHEET | REV. No.

NOTES:

1. SURVEY SHOWN WAS PREPARED FROM A JANUARY 2017 FIELD SURVEY.
2. SURVEY SHOWN WAS PREPARED WITHOUT THE BENEFIT OF AN UP TO DATE ABSTRACT OF TITLE OR TITLE REPORT AND IS SUBJECT TO ANY STATEMENTS OF FACT THAT SUCH AN ABSTRACT OF TITLE OR TITLE REPORT MAY REVEAL.
3. SURVEY SUBJECT TO ANY SUBSURFACE CONDITIONS THAT MAY EXIST, IF ANY.
4. PARCEL SUBJECT TO ANY SETBACKS, RESTRICTIONS, RIGHTS-OF-WAY (PUBLIC OR PRIVATE), EASEMENTS (PUBLIC OR PRIVATE), UTILITY EASEMENTS OF RECORD OR OTHERWISE THAT MAY AFFECT THE PREMISES SHOWN, IF ANY.
5. UNDERGROUND UTILITIES SHOWN HERON ARE APPROXIMATE AND BASED ON UTILITY EVIDENCE VISIBLE AT GROUND SURFACE AND ARE SUBJECT TO FIELD VERIFICATION BY EXCAVATION. UTILITIES SHOWN DO NOT IMPLY TO CONSTITUTE OR REPRESENT ALL UTILITIES UPON OR ADJACENT TO THE SURVEYED AREA. OTHER UTILITIES MAY EXIST, IF ANY.
6. SAMPLE LOCATIONS WERE LOCATED ON AUGUST 14, 2017.

LEGEND:

- CRF — CAPPED IRON ROD FOUND
- IRF — IRON ROD FOUND
- GMON — GRANITE MONUMENT FOUND
- UTILITY POLE
- MONITORING WELL
- ACCESS EASEMENT
- UTILITY EASEMENT
- AREA SUBJECT TO THE INUNDATION OF THE 1% ANNUAL CHANCE FLOOD
- SB-## 100.00 — SAMPLE LOCATION (SB OR SV) ELEVATION AT SURFACE
- 100.0 — SURFACE ELEVATION
- BANK SAMPLE
- SEDIMENT SAMPLE

Standards (ppm)	Restricted Residential	Commercial	Industrial	Groundwater (for SPLP)	Class B Sediment Guidance Values	Class C Sediment Guidance Values
Arsenic	16	16	16	0.025	10 to 33	>33
Barium	400	400	10000		--	--
Copper	270	270	10000		32 to 150	>150
Lead	400	1000	3900	0.025	36 to 130	>130
Mercury	0.81	2.8	5.7	0.0007	0.2 to 1	>1
Silver	180	1500	6800		1 to 2.2	>2.2
Zinc	10000	10000	10000		120 to 460	>460

SOIL STANDARDS FROM PART 375
GROUNDWATER STANDARDS FROM PART 703
SEDIMENT GUIDANCE VALUES FROM "SCREENING AND ASSESSMENT OF CONTAMINATED SEDIMENT," NYSDEC, 2014

SE-7	
Parameter (ppm)	0 to 6"
Copper	42.9
Lead	142
Mercury	0.65
Silver	1.3
Zinc	141

SE-10	
Parameter (ppm)	0 to 6"
Silver	1.3

BS-9	
Parameter (ppm)	B (6" to 2')
Lead, SPLP	0.027

SE-9	
Parameter (ppm)	0 to 6"
Silver	1.2/ 1.4

SE-8	
Parameter (ppm)	0 to 6"
Silver	1.4

BS-6		
Parameter (ppm)	A (0 to 6")	B (6" to 2')
Lead	436	813
Mercury	1.3	2.6
Lead, SPLP	0.026	0.062

BS-5		
Parameter (ppm)	A (0 to 6")	B (6" to 2')
Mercury	1	1.7
Lead, SPLP	--	0.044

SE-6	
Parameter (ppm)	0 to 6"
Copper	35.2
Lead	43.3
Silver	1.8

BS-4		
Parameter (ppm)	A (0 to 6")	B (6" to 2')
Mercury	1.8	1.5/ 1.3
Lead, SPLP	0.038	0.035

BS-3		
Parameter (ppm)	A (0 to 6")	B (6" to 2')
Copper	--	382
Lead	514	24800/ 612
Mercury	1.5	1.7
Lead, SPLP	0.079	0.11

BS-1		
Parameter (ppm)	A (0 to 6")	B (6" to 2')
Barium	--	818
Lead	802	989
Mercury	1.9	1.4
Lead, SPLP	0.14	0.044

BS-2		
Parameter (ppm)	A (0 to 6")	B (6" to 2')
Arsenic	18	22.6
Lead	982	2300
Mercury	--	2.8
Lead, SPLP	0.047	0.11

BENCHMARK
M-33 RESET
PID MZ1289
NGVD29 EL=39.0'

HUDSON RIVER

APPROX. SHORELINE

LANDS N/F OF THE PEOPLE OF NEW YORK STATE

HIGHWAY BOUNDARY

UTILITY EASEMENT L. 2861 PG. 565

20' WIDE RIGHT OF WAY L. 590 PG. 416

OSGOOD AVENUE

TROY-GREEN ISLAND BRIDGE

POSSIBLE LOCATION OF UTILITY EASEMENT (WIDTH UNKNOWN) L. 2211 PG. 947

LANDS N/F OF CENTER ISLAND CAR WASH, LLC L. 2862 Pg.59 TAX ID#33.09-1-5 AREA=15,350± S.F. 0.352± AC.

LANDS N/F OF CPT 2010, LLC L. 3075 Pg.488 (PARCEL A) TAX ID#33.09-1-1 AREA=27,245± S.F. 0.625± AC.

LANDS N/F OF PRIME KDRM, LLC L. 2863 Pg.14 TAX ID#33.09-1-2.1 AREA=47,778± S.F. 1.097± AC.

1 STORY BRICK BLDG.

1 STORY COMMERCIAL BLDG.

1 STORY METAL BLDG.

STORM WATER PRETREATMENT VAULT (N)RIM = 26.97' (S)RIM = 27.38' INFLUENT (12"HDPE)=21.9' EFFLUENT (12"HDPE)=C.N.D.

STORMFILTER VAULT RIM (EAST) = 27.30' RIM (WEST) = 27.39' INFLUENT = C.N.D. EFFLUENT = C.N.D.

OIL SEP. TANK RIM= ± 27.58 IL=24.5± IO=24.1±

SMH W/BACKFLOW PREVENTOR RIM = 26.83' IL(E)=19.2' IL(S)=19.2' IO.=19.1'

UNKNOWN STRUCTURE POSSIBLE UNDERGROUND VAULT

LANDS N/F OF OPT 2010, LLC L. 3075 Pg.488 (PARCEL B) TAX ID#33.09-1-3 AREA=375,901± S.F. 8.630± AC.

CONCRETE

ASPHALT

GRAVEL

CHAIN LINK FENCE W/BARBED WIRE

CONCRETE WALL W/ FENCE

LANDS N/F OF FORE 69 YOUNG REALTY, LLC L. 2805 Pg.529 TAX ID#33.09-1-4 AREA=24,413± S.F. 0.560± AC.

BOAT HOUSE

TOP OF SLOPE

METAL EDGE

DOCK

RAMP

BARGE

ENVIROSPEC PROJECT #E17-1600

envirospec ENGINEERING, PLLC
349 NORTHERN BLVD. SUITE 3
ALBANY, NY 12204-1032
P:518.453.2203
F:518.453.2204

W.O. No.	REVISION	DATE	DRN.	APR.

DRAWING STATUS: FOR REFERENCE ONLY

SOUTH ISLAND APARTMENTS SITE
1 OSGOOD AVENUE/CENTER ISLAND,
TOWN OF GREEN ISLAND, ALBANY COUNTY, NEW YORK

DRAWN: –
CHECKED: –
DRAWING: MGR

SOUTH ISLAND APARTMENTS SITE
BANK AND SEDIMENT – METALS

SCALE: NTS | DRAWING No.: R-9 | SHEET: | REV. No.:

NOTES:

1. SURVEY SHOWN WAS PREPARED FROM A JANUARY 2017 FIELD SURVEY.
2. SURVEY SHOWN WAS PREPARED WITHOUT THE BENEFIT OF AN UP TO DATE ABSTRACT OF TITLE OR TITLE REPORT AND IS SUBJECT TO ANY STATEMENTS OF FACT THAT SUCH AN ABSTRACT OF TITLE OR TITLE REPORT MAY REVEAL.
3. SURVEY SUBJECT TO ANY SUBSURFACE CONDITIONS THAT MAY EXIST, IF ANY.
4. PARCEL SUBJECT TO ANY SETBACKS, RESTRICTIONS, RIGHTS-OF-WAY (PUBLIC OR PRIVATE), EASEMENTS (PUBLIC OR PRIVATE), UTILITY EASEMENTS OF RECORD OR OTHERWISE THAT MAY AFFECT THE PREMISES SHOWN, IF ANY.
5. UNDERGROUND UTILITIES SHOWN HERON ARE APPROXIMATE AND BASED ON UTILITY EVIDENCE VISIBLE AT GROUND SURFACE AND ARE SUBJECT TO FIELD VERIFICATION BY EXCAVATION. UTILITIES SHOWN DO NOT IMPLY TO CONSTITUTE OR REPRESENT ALL UTILITIES UPON OR ADJACENT TO THE SURVEYED AREA. OTHER UTILITIES MAY EXIST, IF ANY.
6. SAMPLE LOCATIONS WERE LOCATED ON AUGUST 14, 2017.

LEGEND:

- CIRF — CAPPED IRON ROD FOUND
- IRF — IRON ROD FOUND
- GMON — GRANITE MONUMENT FOUND
- UTILITY POLE
- MONITORING WELL
- ACCESS EASEMENT
- UTILITY EASEMENT
- AREA SUBJECT TO THE INUNDATION OF THE 1% ANNUAL CHANCE FLOOD
- SB-## 100.00 — SAMPLE LOCATION (SB OR SV) ELEVATION AT SURFACE
- 100.0 — SURFACE ELEVATION
- BANK SAMPLE
- SEDIMENT SAMPLE

Standards (ppm)	Restricted Residential	Commercial	Industrial
Benzo(a)anthracene	1	5.6	11
Benzo(a)pyrene	1	1	1.1
Benzo(b)fluoranthene	1	5.6	11
Benzo(k)fluoranthene	3.9	56	110
Chrysene	3.9	56	110
Dibenz(a,h)anthracene	0.33	0.56	1.1
Indeno(1,2,3-cd)pyrene	0.5	5.6	11

SOIL STANDARDS FROM PART 375

NO EXCEEDANCES FOR SVOCs WERE DETECTED IN SEDIMENT SAMPLES.

BS-9

Parameter (ppm)	A (0 to 6")
Benzo(b)fluoranthene	1.22

BS-6

Parameter (ppm)	B (6" to 2')
Benzo(a)anthracene	2.51
Benzo(a)pyrene	2.35
Benzo(b)fluoranthene	3.17
Indeno(1,2,3-cd)pyrene	1.06

BS-1

Parameter (ppm)	A (0 to 6")	B (6" to 2')
Benzo(a)anthracene	5.95	1.11
Benzo(a)pyrene	5.36	1.18
Benzo(b)fluoranthene	11.1	1.95
Chrysene	6.04	--
Dibenz(a,h)anthracene	0.674	--
Indeno(1,2,3-cd)pyrene	2.34	--

BS-2

Parameter (ppm)	A (0 to 6")	B (6" to 2')
Benzo(a)anthracene	2.1	7.41
Benzo(a)pyrene	1.91	5.43
Benzo(b)fluoranthene	3.33	6.64
Chrysene	--	7.25
Dibenz(a,h)anthracene	--	0.631
Indeno(1,2,3-cd)pyrene	0.699	2.02

BS-3

Parameter (ppm)	B (6" to 2')
Benzo(b)fluoranthene	1.21

ENVIROSPEC PROJECT #E17-1600

envirospec ENGINEERING, PLLC
349 NORTHERN BLVD. SUITE 3
ALBANY, NY 12204-1032
P:518.453.2203
F:518.453.2204

W.O.	No.	REVISION	DATE	DRN.	APR.

DRAWING STATUS: FOR REFERENCE ONLY

SOUTH ISLAND APARTMENTS SITE
1 OSGOOD AVENUE/CENTER ISLAND,
TOWN OF GREEN ISLAND, ALBANY COUNTY, NEW YORK

DRAWN BY: –
DRAWING MGR:

SOUTH ISLAND APARTMENTS SITE
BANK AND SEDIMENT – SVOCS

SCALE	DRAWING No.	SHEET	REV. No.
NTS	R-10		

NOTES:

1. SURVEY SHOWN WAS PREPARED FROM A JANUARY 2017 FIELD SURVEY.
2. SURVEY SHOWN WAS PREPARED WITHOUT THE BENEFIT OF AN UP TO DATE ABSTRACT OF TITLE OR TITLE REPORT AND IS SUBJECT TO ANY STATEMENTS OF FACT THAT SUCH AN ABSTRACT OF TITLE OR TITLE REPORT MAY REVEAL.
3. SURVEY SUBJECT TO ANY SUBSURFACE CONDITIONS THAT MAY EXIST, IF ANY.
4. PARCEL SUBJECT TO ANY SETBACKS, RESTRICTIONS, RIGHTS-OF-WAY (PUBLIC OR PRIVATE), EASEMENTS (PUBLIC OR PRIVATE), UTILITY EASEMENTS OF RECORD OR OTHERWISE THAT MAY AFFECT THE PREMISES SHOWN, IF ANY.
5. UNDERGROUND UTILITIES SHOWN HERON ARE APPROXIMATE AND BASED ON UTILITY EVIDENCE VISIBLE AT GROUND SURFACE AND ARE SUBJECT TO FIELD VERIFICATION BY EXCAVATION. UTILITIES SHOWN DO NOT IMPLY TO CONSTITUTE OR REPRESENT ALL UTILITIES UPON OR ADJACENT TO THE SURVEYED AREA. OTHER UTILITIES MAY EXIST, IF ANY.
6. SAMPLE LOCATIONS WERE LOCATED ON AUGUST 14, 2017.

LEGEND:

- CPF — CAPPED IRON ROD FOUND
- IRF — IRON ROD FOUND
- GMON — GRANITE MONUMENT FOUND
- UTILITY POLE
- MW — MONITORING WELL
- ACCESS EASEMENT
- UTILITY EASEMENT
- AREA SUBJECT TO THE INUNDATION OF THE 1% ANNUAL CHANCE FLOOD
- SB-## 100.00 — SAMPLE LOCATION (SB OR SV) ELEVATION AT SURFACE
- 100.0 — SURFACE ELEVATION
- BS — BANK SAMPLE
- SE — SEDIMENT SAMPLE

SE-10	
Parameter (ppm)	0 to 6"
TPH	1590

BS-9		
Parameter (ppm)	A (0 to 6")	B (6" to 2')
TPH	993	461

BS-8		
Parameter (ppm)	A (0 to 6")	B (6" to 2')
TPH	142	4350

SE-9	
Parameter (ppm)	0 to 6"
TPH	953

SE-8	
Parameter (ppm)	0 to 6"
TPH	<629

BS-7		
Parameter (ppm)	A (0 to 6")	B (6" to 2')
TPH	145	504

BS-6		
Parameter (ppm)	A (0 to 6")	B (6" to 2')
TPH	234	500

SE-7	
Parameter (ppm)	0 to 6"
TPH	852

BS-5		
Parameter (ppm)	A (0 to 6")	B (6" to 2')
TPH	4220	404

SE-6	
Parameter (ppm)	0 to 6"
TPH	3390

BS-4		
Parameter (ppm)	A (0 to 6")	B (6" to 2')
TPH	151	421/ 228

BS-3		
Parameter (ppm)	A (0 to 6")	B (6" to 2')
TPH	219	143

BS-2		
Parameter (ppm)	A (0 to 6")	B (6" to 2')
TPH	189	<115

BS-1		
Parameter (ppm)	A (0 to 6")	B (6" to 2')
TPH	167	211

BENCHMARK M-33 RESET PID: MZ1289 NGVD29 EL=39.0'

HUDSON RIVER

TROY-GREEN ISLAND BRIDGE

OSGOOD AVENUE

LANDS N/F OF THE PEOPLE OF NEW YORK STATE

UTILITY EASEMENT L. 2861 PG. 565

20' WIDE RIGHT OF WAY L. 590 PG. 416

POSSIBLE LOCATION OF UTILITY EASEMENT (WIDTH UNKNOWN) L. 2211 PG. 947

LANDS N/F OF CENTER ISLAND CAR WASH L. 2862 Pg.6 TAX ID§33.09-1-1 AREA=15,330± S.F. 0.352± AC.

LANDS N/F OF CPT 2010, LLC L. 3075 Pg.488 (PARCEL A) TAX ID§33.09-1-1 AREA=27,245± S.F. 0.625± AC.

LANDS N/F OF PRIME KORM, LLC L. 2863 Pg.14 TAX ID§33.09-1-2.1 AREA=47,778± S.F. 1.097± AC.

LANDS N/F OF CPT 2010, LLC L. 3075 Pg.488 (PARCEL B) TAX ID§33.09-1-3 AREA=375,901± S.F. 8.630± AC.

LANDS N/F OF FOREVER YOUNG REALTY, LLC L. 2650 Pg.529 TAX ID§33.09-1-4 AREA=24,413± S.F. 0.560± AC.

UNKNOWN STRUCTURE POSSIBLE UNDERGROUND VAULT

1 STORY BRICK BLDG.

1 STORY METAL BLDG.

1 STORY COMMERCIAL BLDG.

SHED

BOAT HOUSE

ASPHALT

CONCRETE

GRAVEL

APPROX. SHORELINE

TOP OF SLOPE

CONCRETE WALL W/ FENCE

CHAIN LINK FENCE W/BARBED WIRE

GUIDE RAIL

OVERHEAD WIRES

STORM WATER PRETREATMENT VAULT (NORM = 26.97' (S)RIM = 27.58' INFLUENT (12"HDPE)=21.9' EFFLUENT (12"HDPE)=C.N.D.

STORMFILTER VAULT RIM (EAST) = 27.30' RIM (WEST) = 27.39' INFLUENT = 21.5' EFFLUENT = C.N.D.

SMH W/BACKFLOW PREVENTOR RIM = 26.83' LI(E)=19.2' LI(S)=19.3' LO.=19.1'

OIL/SEP. TANK RIM= = 27.56 LI= =24.36 LO.=24.24

UNKNOWN RIM=31.94'

OUTLET EL.=25.2'

CONC. HEADWALL

"1904 BRIDGE"

BRIDGE JOINT

BRIDGE DECK

ENVIROSPEC PROJECT #E17-1600

envirospec ENGINEERING, PLLC
349 NORTHERN BLVD. SUITE 3
ALBANY, NY 12204-1032
P:518.453.2203
F:518.453.2204

W.O.No.	REVISION	DATE	APR.

DRAWING STATUS: FOR REFERENCE ONLY

SOUTH ISLAND APARTMENTS SITE
1 OSGOOD AVENUE/CENTER ISLAND,
TOWN OF GREEN ISLAND, ALBANY COUNTY, NEW YORK

DRAWN: -
CHECKED: -
DRAWING: MSH

SOUTH ISLAND APARTMENTS SITE BANK AND SEDIMENT - TPH RESULTS

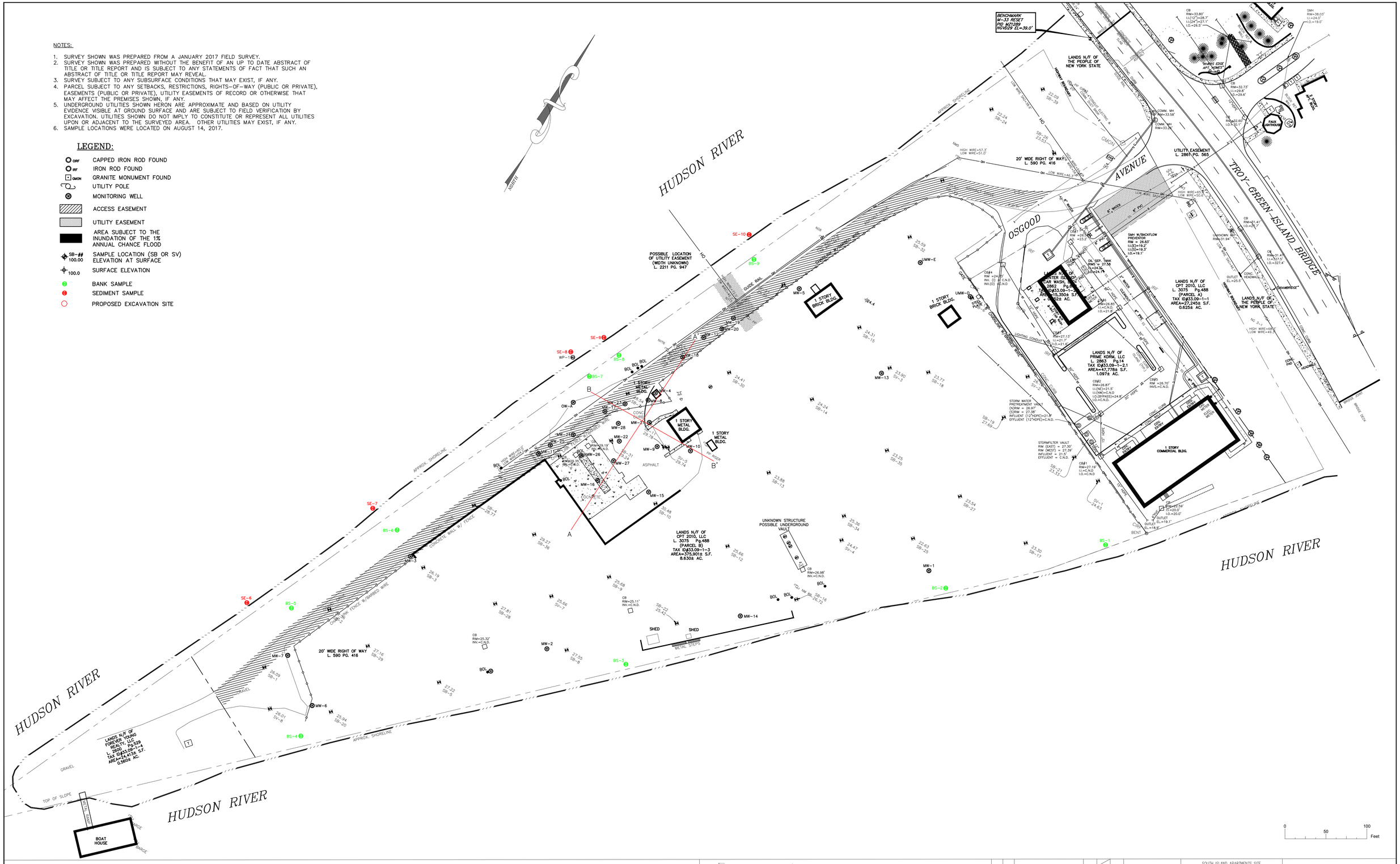
SCALE: NTS | DRAWING No.: R-11 | SHEET | REV. No.

NOTES:

1. SURVEY SHOWN WAS PREPARED FROM A JANUARY 2017 FIELD SURVEY.
2. SURVEY SHOWN WAS PREPARED WITHOUT THE BENEFIT OF AN UP TO DATE ABSTRACT OF TITLE OR TITLE REPORT AND IS SUBJECT TO ANY STATEMENTS OF FACT THAT SUCH AN ABSTRACT OF TITLE OR TITLE REPORT MAY REVEAL.
3. SURVEY SUBJECT TO ANY SUBSURFACE CONDITIONS THAT MAY EXIST, IF ANY.
4. PARCEL SUBJECT TO ANY SETBACKS, RESTRICTIONS, RIGHTS-OF-WAY (PUBLIC OR PRIVATE), EASEMENTS (PUBLIC OR PRIVATE), UTILITY EASEMENTS OF RECORD OR OTHERWISE THAT MAY AFFECT THE PREMISES SHOWN, IF ANY.
5. UNDERGROUND UTILITIES SHOWN HERON ARE APPROXIMATE AND BASED ON UTILITY EVIDENCE VISIBLE AT GROUND SURFACE AND ARE SUBJECT TO FIELD VERIFICATION BY EXCAVATION. UTILITIES SHOWN DO NOT IMPLY TO CONSTITUTE OR REPRESENT ALL UTILITIES UPON OR ADJACENT TO THE SURVEYED AREA. OTHER UTILITIES MAY EXIST, IF ANY.
6. SAMPLE LOCATIONS WERE LOCATED ON AUGUST 14, 2017.

LEGEND:

- CRF — CAPPED IRON ROD FOUND
- IRF — IRON ROD FOUND
- GMON — GRANITE MONUMENT FOUND
- UTILITY POLE
- MW — MONITORING WELL
- ACCESS EASEMENT
- UTILITY EASEMENT
- AREA SUBJECT TO THE INUNDATION OF THE 1% ANNUAL CHANCE FLOOD
- SB-## 100.00 — SAMPLE LOCATION (SB OR SV) ELEVATION AT SURFACE
- 100.0 — SURFACE ELEVATION
- BS — BANK SAMPLE
- SE — SEDIMENT SAMPLE
- PROPOSED EXCAVATION SITE



ENVIROSPEC PROJECT #E17-1600

envirospec ENGINEERING, PLLC
349 NORTHERN BLVD. SUITE 3
ALBANY, NY 12204-1032
P:518.453.2203
F:518.453.2204

W.O.No.	REVISION	DATE	DRN.	APR.

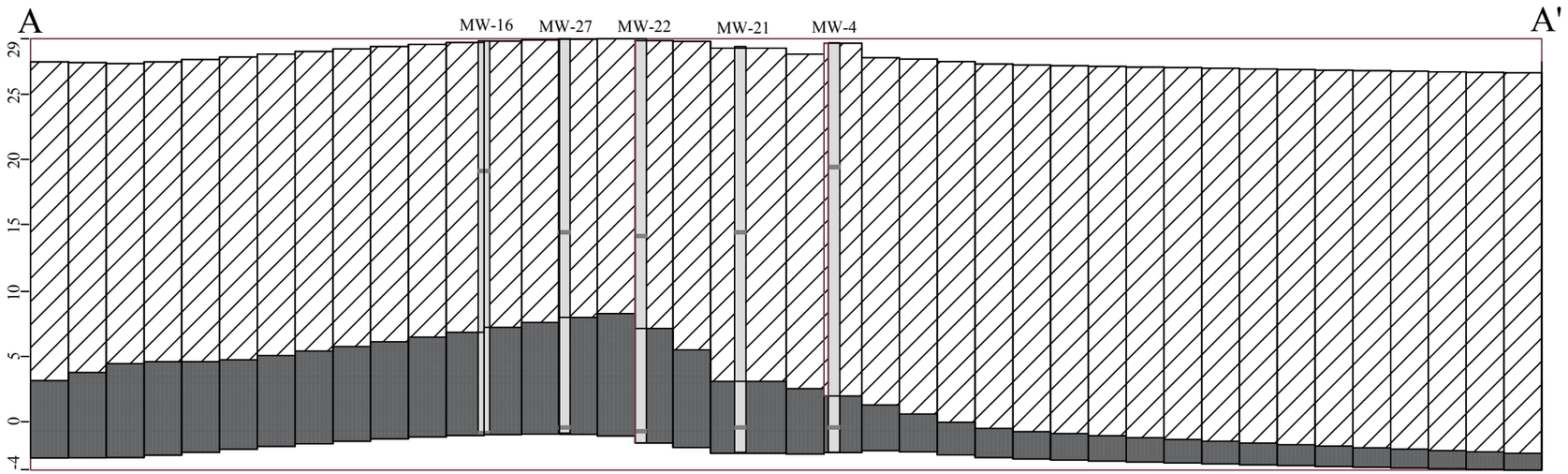
DRAWING STATUS: FOR REFERENCE ONLY

SOUTH ISLAND APARTMENTS SITE
1 OSGOOD AVENUE/CENTER ISLAND,
TOWN OF GREEN ISLAND, ALBANY COUNTY, NEW YORK

DRAWN: -
CHECKED: -
DRAWING: MGH

SOUTH ISLAND APARTMENTS SITE CROSS-SECTION LOCATIONS

SCALE: NTS | DRAWING No.: C-1 | SHEET | REV. NO.



LEGEND:

HISTORICAL FILL (I.E. GRAVEL, BRICK, FILL, INTERMITTENT THIN CLAY LAYERS)

CLAY

ENVIROSPEC PROJECT #E17-1600

envirospec ENGINEERING, PLLC
349 NORTHERN BLVD. SUITE 3
ALBANY, NY 12204-1032
P:518.453.2203
F:518.453.2204

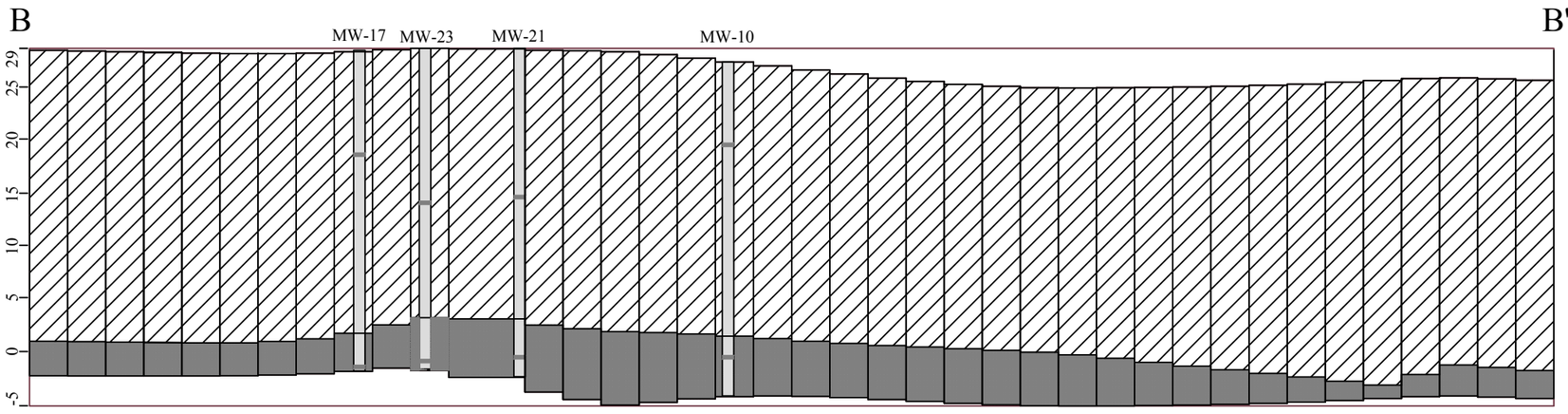
W.O. No.	REVISION	DATE	APR.

FOR REFERENCE ONLY

SOUTH ISLAND APARTMENTS SITE
1 OSGOOD AVENUE/CENTER ISLAND,
TOWN OF GREEN ISLAND, ALBANY COUNTY, NEW YORK

SOUTH ISLAND APARTMENTS SITE
CROSS-SECTIONS A-A'

NTS | C-2



LEGEND:

HISTORICAL FILL (I.E. GRAVEL, BRICK, FILL, INTERMITTENT THIN CLAY LAYERS)

CLAY

ENVIROSPEC PROJECT #E17-1600

envirospec ENGINEERING, PLLC
349 NORTHERN BLVD. SUITE 3
ALBANY, NY 12204-1032
P:518.453.2203
F:518.453.2204

W.O. No. REVISION | DATE | APR.

DRAWING STATUS: FOR REFERENCE ONLY

SOUTH ISLAND APARTMENTS SITE
1 OSGOOD AVENUE/CENTER ISLAND,
TOWN OF GREEN ISLAND, ALBANY COUNTY, NEW YORK

SOUTH ISLAND APARTMENTS SITE
CROSS-SECTIONS B-B'

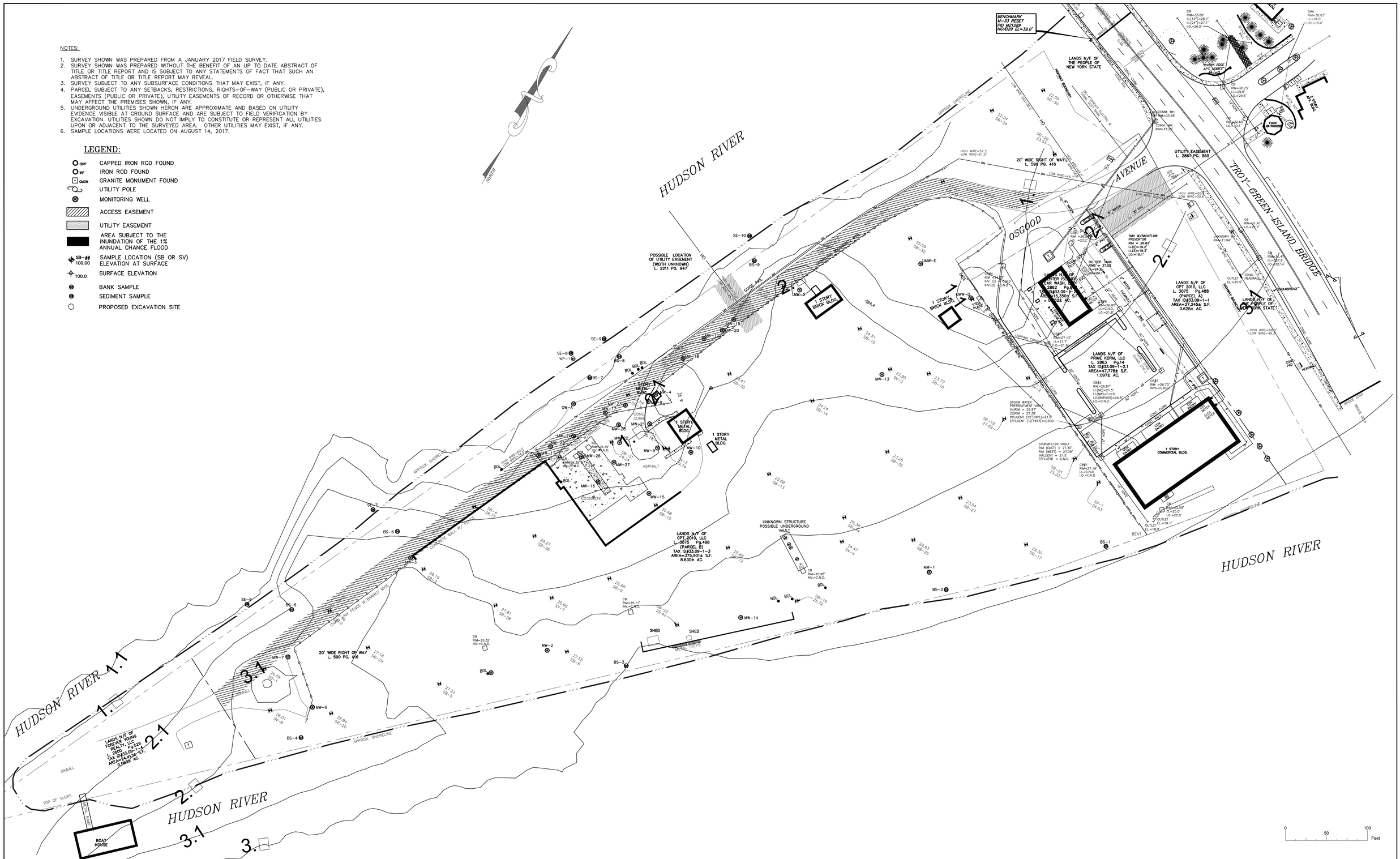
SCALE: NTS | DRAWING NO.: C-3 | SHEET | REV. NO.

NOTES:

1. SURVEY SHOWN WAS PREPARED FROM A JANUARY 2017 FIELD SURVEY.
2. SURVEY SHOWN WAS PREPARED WITHOUT THE BENEFIT OF AN UP TO DATE ABSTRACT OF TITLE OR TITLE REPORT AND IS SUBJECT TO ANY STATEMENTS OF FACT THAT SUCH AN ABSTRACT OF TITLE OR TITLE REPORT MAY REVEAL.
3. SURVEY SUBJECT TO ANY SUBSURFACE CONDITIONS THAT MAY EXIST, IF ANY.
4. PARCEL SUBJECT TO ANY SETBACKS, RESTRICTIONS, RIGHTS-OF-WAY (PUBLIC OR PRIVATE), EASEMENTS (PUBLIC OR PRIVATE), UTILITY EASEMENTS OF RECORD OR OTHERWISE THAT MAY AFFECT THE PREMISES SHOWN, IF ANY.
5. UNDERGROUND UTILITIES SHOWN HEREON ARE APPROXIMATE AND BASED ON UTILITY EVIDENCE VISIBLE AT GROUND SURFACE AND ARE SUBJECT TO FIELD VERIFICATION BY EXCAVATION. UTILITIES SHOWN DO NOT IMPLY TO CONSTITUTE OR REPRESENT ALL UTILITIES UPON OR ADJACENT TO THE SURVEYED AREA. OTHER UTILITIES MAY EXIST, IF ANY.
6. SAMPLE LOCATIONS WERE LOCATED ON AUGUST 14, 2017.

LEGEND:

- CRF — CAPPED IRON ROD FOUND
- IRF — IRON ROD FOUND
- GMON — GRANITE MONUMENT FOUND
- UTILITY POLE
- MONITORING WELL
- ACCESS EASEMENT
- UTILITY EASEMENT
- AREA SUBJECT TO THE INUNDATION OF THE 1% ANNUAL CHANCE FLOOD
- SB-## 100.00 — SAMPLE LOCATION (SB OR SV) ELEVATION AT SURFACE
- 100.0 — SURFACE ELEVATION
- BANK SAMPLE
- SEDIMENT SAMPLE
- PROPOSED EXCAVATION SITE



ENVIROSPEC PROJECT #E17-1600

envirospec ENGINEERING, PLLC
349 NORTHERN BLVD. SUITE 3
ALBANY, NY 12204-1032
P:518.453.2203
F:518.453.2204

W.O. No.	REVISION	DATE	BY	APR.

DRAWING STATUS: FOR REFERENCE ONLY

SOUTH ISLAND APARTMENTS SITE
1 OSGOOD AVENUE/CENTER ISLAND,
TOWN OF GREEN ISLAND, ALBANY COUNTY, NEW YORK

DRAWN: -
DRAWING: MJH

SOUTH ISLAND APARTMENTS SITE HIGH TIDE GROUNDWATER ELEVATION CONTOURS

SCALE	DRAWING No.	SHEET	REV. No.
NTS	C-4		

NOTES:

1. SURVEY SHOWN WAS PREPARED FROM A JANUARY 2017 FIELD SURVEY.
2. SURVEY SHOWN WAS PREPARED WITHOUT THE BENEFIT OF AN UP TO DATE ABSTRACT OF TITLE OR TITLE REPORT AND IS SUBJECT TO ANY STATEMENTS OF FACT THAT SUCH AN ABSTRACT OF TITLE OR TITLE REPORT MAY REVEAL.
3. SURVEY SUBJECT TO ANY SUBSURFACE CONDITIONS THAT MAY EXIST, IF ANY.
4. PARCEL SUBJECT TO ANY SETBACKS, RESTRICTIONS, RIGHTS–OF–WAY (PUBLIC OR PRIVATE), EASEMENTS (PUBLIC OR PRIVATE), UTILITY EASEMENTS OF RECORD OR OTHERWISE THAT MAY AFFECT THE PREMISES SHOWN, IF ANY.
5. UNDERGROUND UTILITIES SHOWN HERON ARE APPROXIMATE AND BASED ON UTILITY EVIDENCE VISIBLE AT GROUND SURFACE AND ARE SUBJECT TO FIELD VERIFICATION BY EXCAVATION. UTILITIES SHOWN DO NOT IMPLY TO CONSTITUTE OR REPRESENT ALL UTILITIES UPON OR ADJACENT TO THE SURVEYED AREA. OTHER UTILITIES MAY EXIST, IF ANY.
6. SAMPLE LOCATIONS WERE LOCATED ON AUGUST 14, 2017.

LEGEND:

- CIRF — CAPPED IRON ROD FOUND
- IRF — IRON ROD FOUND
- GMON — GRANITE MONUMENT FOUND
- UTILITY POLE
- MONITORING WELL
- ACCESS EASEMENT
- UTILITY EASEMENT
- AREA SUBJECT TO THE INUNDATION OF THE 1% ANNUAL CHANCE FLOOD
- SB-## 100.00 — SAMPLE LOCATION (SB OR SV) ELEVATION AT SURFACE
- 100.0 — SURFACE ELEVATION
- BANK SAMPLE
- SEDIMENT SAMPLE
- PROPOSED EXCAVATION SITE

ENVIROSPEC PROJECT #E17–1600

envirospec ENGINEERING, PLLC
349 NORTHERN BLVD. SUITE 3
ALBANY, NY 12204-1032
P:518.453.2203
F:518.453.2204

W.O.	No.	REVISION	DATE	DRN.	APR.

DRAWING STATUS: FOR REFERENCE ONLY

SOUTH ISLAND APARTMENTS SITE
1 OSGOOD AVENUE/CENTER ISLAND,
TOWN OF GREEN ISLAND, ALBANY COUNTY, NEW YORK

DRAWN BY: –
DRAWING MGR:

SOUTH ISLAND APARTMENTS SITE
LOW TIDE GROUNDWATER
ELEVATION CONTOURS

SCALE: NTS
DRAWING No.: C–5
SHEET:
REV. No.:

APPENDIX A
CONCEPTUAL SITE MODEL

envirospec ENGINEERING, PLLC

349 Northern Boulevard Suite 3▪ Albany, NY 12204 ▪ Phone: 518.453.2203 ▪ Fax: 518.453.2204

A Woman Owned Business Enterprise (WBE)

CONCEPTUAL SITE MODEL

South Island Apartments Site

1 Osgood Avenue/Center Island,

Town of Green Island, Albany County, New York

BCP Site # C401074

November 2017

Prepared for:

South Island Apartments, LLC
c/o Couch White, LLP
540 Broadway, 7th Floor
Albany, New York 12201-2222

Prepared by:

349 Northern Blvd. STE 3
Albany, NY 12205

Envirospec Engineering Project E17-1600

TABLE OF CONTENTS

1.0 CONCEPTUAL SITE MODEL

The conceptual site model considers the following:

- How was the site impacted?
- Has a source area been identified? Are there multiple sources?
- Is there a historical or continuing source of contamination?
- Is there evidence of an off-site source area?
- What on-site media are currently impacted by contamination?
- What are potential contaminant pathways that could lead to future migration in soil, soil gas, and/or groundwater?
- What are the actual and potential human and/or environmental receptors?

The following sections address these questions based on the information available from historical sources and the data collected during the 2017 Remedial Investigation (RI).

2.0 PRESENCE OF ON-SITE SOURCE AREAS

The primary contaminants of concern (COCs) at this site, based on soil data collected historically and during the RI, are metals, specifically lead, mercury, and arsenic, and SVOCs.

The metals detected above CSCOs are consistent with the historic fill at the site, and there is no clear source area based on historical data and the data collected in the RI. In general, detections of SVOCs are below CSCOs, except for benzo(a)pyrene, for all soil borings except for the shallow subsurface sample at SB-26. The elevated concentrations of benzo(a)anthracene, benzo(b)fluoranthene, and indeno(1,2,3-cd)pyrene in this area could be associated with a localized historical release. There is no evidence of migration to deeper soils in this area based on the samples collected at 28-30’ bgs.

In addition to metals and SVOCs, there are also the LNAPL-impacted areas near the former loading rack and MW-5. The LNAPL impacts are associated with spills of fuel oil during historical operations at the site. Drawing R-6 shows the LNAPL thicknesses in monitoring wells at the site.

In the former loading rack area, LNAPL impacts are primarily in the center of the loading rack area and along the edge of the adjacent roadway. LNAPL thickness decreases significantly along the northern perimeter of the area at MW-4, MW-8, MW-21, MW-9, and MW-10. No significant

LNAPL layer was measured in MW-15 along the eastern side of the area, though a small amount of oil was observed on the outside of the interface probe when it was removed from the well.

Though about two (2) feet of LNAPL was observed in MW-25 along the southern boundary of the former loading rack, adjacent well MW-11 only showed a thickness of 0.1 feet. Wells further south along the roadway (MW-3 and MW-7) show no sign of LNAPL impacts. Though there were some elevated detections of TPH in bank soil samples, no indications of seeps from the loading rack area to the Hudson on the western side of the site have been observed. TPH was non-detect in the pore water sample collected near this area at WP-1.

There is one well north of the loading rack area (MW-5) that shows more than one (1) foot of LNAPL at the top of the water table. This is consistent with high TPH data at nearby soil boring location SB-23. Given the distance between this well and the former loading rack area, this is potentially due to an isolated spill. Wells MW-12, MW-18, MW-19, and MW-20, which are located between MW-5 and the former loading area, show relatively little LNAPL impact compared to MW-5. Additional characterization is planned between MW-5 and the former loading rack area to further define the extent of proposed deep excavations to address the LNAPL impacts. This information can also be used to further refine the conceptual model in this area.

3.0 POTENTIAL FOR OFF-SITE SOURCES

There are no indications of an off-site source at the site. The adjacent property was historically remediated to address petroleum contamination. Groundwater and soil data collected across the northern boundary of the site near the property boundary do not indicate the presence of off-site source areas.

4.0 POTENTIAL FUTURE MIGRATION

The following pathways were considered in evaluating the potential for future migration of contaminants at the site:

- Migration from shallow to deeper soils
- Migration from soil to groundwater
- Migration from soil and/or groundwater to soil gas
- Groundwater migration across site
- Migration to surface water

The potential significance of these pathways is discussed in the following sections. Metals, SVOCs, VOCs, and LNAPL are addressed for relevant pathways.

4.1 Migration from shallow to deeper soils

Exceedances of CSCOs for metals and SVOCs are primarily observed in the shallow soil samples within the first two (2) feet of the subsurface, with very few exceedances observed in the groundwater interface soil samples at approximately 25-30' bgs. This indicates that the metals and SVOCs in shallow soils are not migrating through the subsurface. This is not considered to be a significant pathway for future contaminant migration at this site.

4.2 Migration from soil to groundwater

The lack of significant detections of metals and SVOCs of concern in groundwater at this site indicates that migration from soil to groundwater is not occurring, and it is not considered to be a pathway of concern for future contaminant migration.

4.3 Migration from soil and/or groundwater to soil gas

The soil vapor samples collected during the RI indicate the presence of BTEX at several locations across the site. This indicates that migration to soil gas may be occurring within the subsurface. Given the depth to groundwater and the low detections of BTEX in groundwater, the impacts to soil gas would likely be due to migration from soil contamination, however, exceedances of CSCOs for VOCs were not observed at this site. VOCs were detected at low levels in soil, however.

4.4 Groundwater migration across site

Migration of contaminants in groundwater is not a significant concern for metals, SVOCs, or VOCs given that few exceedances of groundwater standards were observed for these contaminants. The potential for LNAPL migration was also considered when preparing the conceptual site model. The measured LNAPL thicknesses from the 2017 were compared to historical data available from 2005 to 2016.

LNAPL impacts in most wells have decreased significantly over time after the extraction events. The wells showing the highest product thicknesses are MW-5, MW-22, MW-25, MW-26, and MW-28.

The remaining wells were installed more recently and have fewer historical observations available. However, it should be noted that these wells are located towards the center of the loading rack area. The wells that have shown decreases over time are around the perimeter of the former loading rack. This would seem to indicate that the impacts are localized and that significant migration outside of the former loading rack area is not expected.

4.5 Migration to surface water

There are no indications of migration of contaminants to surface water based on the results from the pore water sample WP-1. These results are provided in Table 14 of Appendix E of the RI Report.

5.0 POTENTIAL RECEPTORS

Based on the potential migration pathways reviewed in Section 4.0, the only potential pathway of concern would be the migration to soil gas due to soil gas results. This is addressed further within the Qualitative Human Health Exposure Assessment submitted with the RI Report as Appendix F. Mitigation of the exposure pathway is also discussed. Other potential exposure concerns related to the presence of COCs at the site are addressed within that assessment. Potential environmental receptors are considered within the Fish and Wildlife Resources Impact Analysis submitted with the RI Report as Appendix G.

APPENDIX B
SOIL BORING LOGS

349 Northern Boulevard Suite 3▪ Albany, NY 12204 ▪ Phone: 518.453.2203 ▪ Fax: 518.453.2204
A Woman Owned Business Enterprise (WBE)

Soil Boring: SB-1

Depth (ft)	Sample Interval (ft)	Recovery (in)	PID Screen (ppm)	Description Include color, texture, structure, odor, etc.; Trace 0-10%, Little 10-20%, Some 20-35%, And 35-50%; D = dry, S = saturated, M = moist
1 – 2	0 – 2” 2” – 2	22”	0.0	Gravel and brick.
3 – 4	2 – 4		0.0	Fill, gravel and brick.
5 – 6	4 - 6	18”	0.0	Fill, gravel and brick.
7 – 8	6 – 8		0.0	Fill and gravel.
9 – 10	8 – 10		0.0	Fill and gravel.
11 – 12	10 – 12	20”	0.0	Fill and gravel.
13 – 14	12 – 14		0.0	Fill and gravel.
15 – 16	14 – 16	20”	0.0	Fill and gravel.
17 – 18	16 – 18		0.0	Fill and gravel.
19 – 20	18 – 20		0.0	Fill and gravel.
21 – 22	20 – 22	28”	0.0	Clay.
23 – 24	22 – 24		0.0	Clay.
25 – 26	24 – 26	30”	0.0	Clay.
27 – 28	26 – 28		0.0	Clay.
29 – 30	28 – 30		0.0	Clay.

Notes:

Performed By: Cascade

Groundwater Interface (▼):28ft

SB-1 BO was an offset soil boring.

Composite Sample Notes:

SB-1 BO – TAL metals.

SB-1 C – TAL metals.

PID Headspace (H/S) Readings

Interval	PID H/S
0-2”	0.6
2”-2	0.6
2-4	0.6
4-6	0.7
6-8	0.7
8-10	0.7
10-12	0.5
12-14	0.5
14-16	0.6
16-18	0.6
18-20	0.6
20-22	0.3
22-24	0.3
24-26	0.2
26-28	0.2
28-30	0.2

Grab/Composite Samples

Interval:	NA
Sample Time:	NA
Sample ID:	NA

Interval:	2” – 2’
Sample Time:	9:31
Sample ID:	SB-1 BO

Interval:	25’ – 30’
Sample Time:	9:25
Sample ID:	SB-1 C

DATE: 7/27/2017

LOCATION: 1 Osgood Avenue, Town of Green Island, NY

LOGGED BY: Rachel Farnum

Soil Boring Log

BORING LOCATION: SB-1

enviroSPEC ENGINEERING, PLLC

Envirospec Engineering, PLLC
349 Northern Blvd., Suite 3
Albany, NY 12204

CLIENT: South Island Apartments, LLC

PROJECT #:E17-1600

PROJECT MANAGER: Gianna Aiezza

Soil Boring: SB-2

Depth (ft)	Sample Interval (ft)	Recovery (in)	PID Screen (ppm)	Description Include color, texture, structure, odor, etc.; Trace 0-10%, Little 10-20%, Some 20-35%, And 35-50%; D = dry, S = saturated, M = moist
1 – 2	0 – 2” 2” – 2	32”	0.1	Brick, glass, gravel and fill.
3 – 4	2 – 4		0.1	Brick, glass, gravel and fill.
5 – 6	4 - 6		0.1	Brick, glass, gravel and fill.
7 – 8	6 – 8	0	NA	NA
9 – 10	8 – 10		NA	NA
11 – 12	10 – 12	13”	0.5	Fill and brick.
13 – 14	12 – 14		0.5	Fill and brick.
15 – 16	14 – 16		0.5	Fill and brick.
17 – 18	16 – 18	18”	0.0	Fill, clay and brick.
19 – 20	18 – 20		0.0	Fill, clay and brick.
21 – 22	20 – 22	16”	0.0	Fill.
23 – 24	22 – 24		0.0	Fill.
25 – 26	24 – 26		0.0	Clay with gravel.
27 – 28	26 – 28	16”	0.0	Clay with gravel.
29 – 30	28 – 30		0.0	Clay with gravel.

Notes:

Performed By: Cascade

Groundwater Interface (▼):28ft

SB-2 BO was an offset soil boring.

Composite Sample Notes:

SB-2 BO – Full analysis.

SB-2 C – TAL Metals.

PID Headspace (H/S) Readings

Interval	PID H/S
0-2”	1.3
2”-2	1.3
2-4	1.3
4-6	NA
6-8	NA
8-10	NA
10-12	0.8
12-14	0.8
14-16	0.8
16-18	0.8
18-20	0.8
20-22	2.0
22-24	2.0
24-26	0.5
26-28	0.5
28-30	0.5

Grab/Composite Samples

Interval:	NA
Sample Time:	NA
Sample ID:	NA

Interval:	2” – 2’
Sample Time:	10:47
Sample ID:	SB-2 BO

Interval:	25’ – 30’
Sample Time:	11:15
Sample ID:	SB-2 C

DATE: 7/28/2017

LOCATION: 1 Osgood Avenue, Town of Green Island, NY

LOGGED BY: Rachel Farnum

Soil Boring Log

BORING LOCATION: SB-2

enviroSPEC ENGINEERING, PLLC

Envirospec Engineering, PLLC
349 Northern Blvd., Suite 3
Albany, NY 12204

CLIENT: South Island Apartments, LLC

PROJECT #:E17-1600

PROJECT MANAGER: Gianna Aiezza

Soil Boring: SB-3

Depth (ft)	Sample Interval (ft)	Recovery (in)	PID Screen (ppm)	Description Include color, texture, structure, odor, etc.; Trace 0-10%, Little 10-20%, Some 20-35%, And 35-50%; D = dry, S = saturated, M = moist
1	0 – 2”	34”	0.0	Brick and fill.
2	2” – 2			
3	2 – 4		0.0	Brick and fill.
4				
5	4 - 6		0.0	Brick and fill.
6		15”		
7	6 – 8		58.0	Fill and clay. Strong odor.
8				
9	8 – 10		58.0	Fill and clay. Strong odor.
10				
11	10 – 12	22”	4.5	Fill and some clay.
12				
13	12 – 14		4.5	Fill and some clay.
14				
15	14 – 16		1.0	Fill, gravel and clay.
16		21”		
17	16 – 18		1.0	Fill and gravel.
18				
19	18 – 20		1.0	Fill and gravel.
20				
21	20 – 22	25”	2.5	Sand and clay.
22				
23	22 – 24		2.5	Sand and clay.
24				
25	24 – 26		2.5	Clay with gravel.
26		42”		
27	26 – 28		0.0	Clay with gravel.
28				
29	28 – 30		0.0	Clay with gravel.
30				

Notes:

Performed By: Cascade

Groundwater Interface (▼):26ft

Extra sample (SD-3 D) taken from 5 – 10 ft at 8:46. To be analyzed for VOCs and TPH.

SB-3 BO was an offset soil boring.

Composite Sample Notes:

SB-3 BO – Full analysis.

SB-3 C – Full analysis .

PID Headspace (H/S) Readings

Interval	PID H/S
0-2”	0.4
2”-2	0.4
2-4	0.4
4-6	400.0
6-8	400.0
8-10	400.0
10-12	80.0
12-14	80.0
14-16	80.0
16-18	5.0
18-20	5.0
20-22	3.8
22-24	3.8
24-26	2.9
26-28	2.9
28-30	2.9

Grab/Composite Samples

Interval:	NA
Sample Time:	NA
Sample ID:	NA

Interval:	2” – 2’
Sample Time:	8:34
Sample ID:	SB-3 BO

Interval:	25’ – 30’
Sample Time:	8:59
Sample ID:	SB-3 C

DATE: 7/28/2017

LOCATION: 1 Osgood Avenue, Town of Green Island, NY

LOGGED BY: Rachel Farnum

Soil Boring Log

BORING LOCATION: SB-3

enviroSPEC ENGINEERING, PLLC

Envirospec Engineering, PLLC
349 Northern Blvd., Suite 3
Albany, NY 12204

CLIENT: South Island Apartments, LLC

PROJECT #:E17-1600

PROJECT MANAGER: Gianna Aiezza

Soil Boring: SB-4

Depth (ft)	Sample Interval (ft)	Recovery (in)	PID Screen (ppm)	Description Include color, texture, structure, odor, etc.; Trace 0-10%, Little 10-20%, Some 20-35%, And 35-50%; D = dry, S = saturated, M = moist
1	0 – 2”	31”	0.0	Fill and some glass.
2	2” – 2			
3	2 – 4		0.0	Fill and some glass.
4				
5	4 - 6		0.0	Fill and some glass.
6		23”		
7	6 – 8		0.0	Fill with small amount of clay.
8				
9	8 – 10		0.0	Fill with small amount of clay.
10				
11	10 – 12	26”	0.0	Fill and clay.
12				
13	12 – 14		0.0	Fill and clay.
14				
15	14 – 16		0.0	Fill and clay.
16		12”		
17	16 – 18		0.0	Fill.
18				
19	18 – 20		0.0	Fill.
20				
21	20 – 22	18”	0.0	Fill.
22				
23	22 – 24		0.0	Fill.
24				
25	24 – 26		0.1	Clay.
26		45”		
27	26 – 28		0.1	Clay.
28				
29	28 – 30		0.1	Clay.
30				

Notes:

Performed By: Cascade

Groundwater Interface (▼):28ft

SB-4 BO was an offset soil boring.

Composite Sample Notes:

SB-4 BO – Full analysis.

SB-4 C – Full analysis.

PID Headspace (H/S) Readings

Interval	PID H/S
0-2”	0.8
2”-2	0.8
2-4	0.8
4-6	0.6
6-8	0.6
8-10	0.6
10-12	1.0
12-14	1.0
14-16	1.0
16-18	0.8
18-20	0.8
20-22	0.2
22-24	0.2
24-26	1.2
26-28	1.2
28-30	1.2

Grab/Composite Samples

Interval:	NA
Sample Time:	NA
Sample ID:	NA

Interval:	2” – 2’
Sample Time:	10:12
Sample ID:	SB-4 BO

Interval:	25’ – 30’
Sample Time:	10:39
Sample ID:	SB-4 C

DATE: 7/27/2017

LOCATION: 1 Osgood Avenue, Town of Green Island, NY

LOGGED BY: Rachel Farnum

Soil Boring Log

BORING LOCATION: SB-4

enviroSPEC ENGINEERING, PLLC

Envirospec Engineering, PLLC
349 Northern Blvd., Suite 3
Albany, NY 12204

CLIENT: South Island Apartments, LLC

PROJECT #:E17-1600

PROJECT MANAGER: Gianna Aiezza

Soil Boring: SB-5

Depth (ft)	Sample Interval (ft)	Recovery (in)	PID Screen (ppm)	Description Include color, texture, structure, odor, etc.; Trace 0-10%, Little 10-20%, Some 20-35%, And 35-50%; D = dry, S = saturated, M = moist
1 – 2	0 – 2” 2” – 2	60”	0.0	Soil, gravel, and fill.
3 – 4	2 – 4		0.0	Brick, ash, and fill.
5 – 6	4 - 6	12”	0.0	Clay.
7 – 8	6 – 8		0.0	Fill, ash, and brick.
9 – 10	8 – 10		0.0	Clay.
11 – 12	10 – 12	12”	0.0	Fill and ash.
13 – 14	12 – 14		0.0	Ash and fill.
15 – 16	14 – 16	12”	0.1	Fill and ash.
17 – 18	16 – 18		0.1	Fill, ash, and wood.
19 – 20	18 – 20		0.1	Clay and fill.
21 – 22	20 – 22	48”	0.0	Clay and fill.
23 – 24	22 – 24		0.0	Fill and ash.
25 – 26	24 – 26	36”	0.1	Ash and fill.
27 – 28	26 – 28		0.1	Sand.
29 – 30	28 – 30		0.1	Sand and rock.

Notes:

Performed By: Cascade

Groundwater Interface (▼):28ft

SB-5 BO was an offset soil boring.

Composite Sample Notes:

SB-5 A- TAL metals.
SB-5 BO – TAL metals.
SB-5 C – TAL metals.

PID Headspace (H/S) Readings

Interval	PID H/S
0-2”	0.7
2”-2	0.6
2-4	0.6
4-6	0.6
6-8	0.4
8-10	0.4
10-12	0.7
12-14	0.7
14-16	2.6
16-18	2.6
18-20	0.9
20-22	0.5
22-24	0.5
24-26	1.2
26-28	1.2
28-30	1.2

Grab/Composite Samples

Interval:	0-2”
Sample Time:	2:50
Sample ID:	SB- 5 A

Interval:	2” – 2’
Sample Time:	2:55
Sample ID:	SB-5 BO

Interval:	25’ – 30’
Sample Time:	3:10
Sample ID:	SB-5 C

DATE: 7/26/2017

LOCATION: 1 Osgood Avenue, Town of Green Island, NY

LOGGED BY: Charlotte Verhoef

Soil Boring Log

BORING LOCATION: SB-5

enviroSPEC ENGINEERING, PLLC
Envirospec Engineering, PLLC
349 Northern Blvd., Suite 3
Albany, NY 12204

CLIENT: South Island Apartments, LLC

PROJECT #:E17-1600

PROJECT MANAGER: Gianna Aiezza

Soil Boring: SB-6

Depth (ft)	Sample Interval (ft)	Recovery (in)	PID Screen (ppm)	Description Include color, texture, structure, odor, etc.; Trace 0-10%, Little 10-20%, Some 20-35%, And 35-50%; D = dry, S = saturated, M = moist
1	0 – 2”	~12”	NA	Fill and gavel.
2	2” – 2			
3	2 – 4		NA	Clay.
4				
5	4 - 6		NA	Gravel and brick.
6		~12”		
7	6 – 8		NA	Gravel and brick.
8				
9	8 – 10		NA	Clay.
10				
11	10 – 12	~24”	NA	Clay.
12				
13	12 – 14		NA	Clay.
14				
15	14 – 16		NA	Sand.
16		~18		
17	16 – 18		NA	Sand.
18				
19	18 – 20		NA	Clay.
20				
21	20 – 22	~30”	NA	Gravel.
22				
23	22 – 24		NA	Clay.
24				
25	24 – 26		NA	Sand and rock.
26		~50”		
27	26 – 28		NA	Clay, rock, and sand.
28				
29	28 – 30		NA	Clay, rock, and sand.
30				

Notes:

Performed By: Cascade

Groundwater Interface (▼):27ft

PID measurements NA due to moisture causing inaccurate readings.

SB-6 BO was an offset soil boring.

Composite Sample Notes:

SB-6 A – TAL metals.
SB-6 BO – TAL metals.
SB-6 C – TAL metals.

PID Headspace (H/S) Readings

Interval	PID H/S
0-2”	NA
2”-2	NA
2-4	NA
4-6	NA
6-8	NA
8-10	NA
10-12	NA
12-14	NA
14-16	NA
16-18	NA
18-20	NA
20-22	NA
22-24	NA
24-26	NA
26-28	NA
28-30	NA

Grab/Composite Samples

Interval:	0 – 2”
Sample Time:	11:05
Sample ID:	SB-6 A

Interval:	2” – 2’
Sample Time:	11:10
Sample ID:	SB-6 BO

Interval:	25’ – 30’
Sample Time:	11:00
Sample ID:	SB-6 C

DATE: 7/24/2017

LOCATION: 1 Osgood Avenue, Town of Green Island, NY

LOGGED BY: Charlotte Verhoef

Soil Boring Log

BORING LOCATION: SB-6

enviroSPEC ENGINEERING, PLLC
Envirospec Engineering, PLLC
349 Northern Blvd., Suite 3
Albany, NY 12204

CLIENT: South Island Apartments, LLC

PROJECT #:E17-1600

PROJECT MANAGER: Gianna Aiezza

Soil Boring: SB-7 surface (offset)

Depth (ft)	Sample Interval (ft)	Recovery (in)	PID Screen (ppm)	Description Include color, texture, structure, odor, etc.; Trace 0-10%, Little 10-20%, Some 20-35%, And 35-50%; D = dry, S = saturated, M = moist
1 – 2	0 – 2” 2” – 2	NA	NA	Soil, fill, rocks, and roots.
3 – 4	2 – 4		NA	NA
5 – 6	4 - 6	NA	NA	NA
7 – 8	6 – 8	NA	NA	NA
9 – 10	8 – 10		NA	NA
11 – 12	10 – 12	NA	NA	NA
13 – 14	12 – 14		NA	NA
15 – 16	14 – 16	NA	NA	NA
17 – 18	16 – 18		NA	NA
19 – 20	18 – 20	NA	NA	NA
21 – 22	20 – 22		NA	NA
23 – 24	22 – 24	NA	NA	NA
25 – 26	24 – 26		NA	NA
27 – 28	26 – 28	NA	NA	NA
29 – 30	28 – 30		NA	NA

Notes:

Performed By: Envirospec

Groundwater Interface (▼):NA

Top of bank near SB-7.

Composite Sample Notes:

SB-7 AO – Full analysis.

PID Headspace (H/S) Readings

Interval	PID H/S
0-2”	0.2
2”-2	NA
2-4	NA
4-6	NA
6-8	NA
8-10	NA
10-12	NA
12-14	NA
14-16	NA
16-18	NA
18-20	NA
20-22	NA
22-24	NA
24-26	NA
26-28	NA
28-30	NA

Grab/Composite Samples

Interval:	0-2”
Sample Time:	8:10
Sample ID:	SB-7 AO

Interval:	NA
Sample Time:	NA
Sample ID:	NA

Interval:	NA
Sample Time:	NA
Sample ID:	NA

DATE: 8/8/2017

LOGGED BY: Rachel Farnum

BORING LOCATION: SB-7

LOCATION: 1 Osgood Avenue, Town of Green Island, NY

Soil Boring Log

enviroSPEC ENGINEERING, PLLC

Envirospec Engineering, PLLC
349 Northern Blvd., Suite 3
Albany, NY 12204

CLIENT: South Island Apartments, LLC

PROJECT #:E17-1600

PROJECT MANAGER: Gianna Aiezza

Soil Boring: SB-7

Depth (ft)	Sample Interval (ft)	Recovery (in)	PID Screen (ppm)	Description Include color, texture, structure, odor, etc.; Trace 0-10%, Little 10-20%, Some 20-35%, And 35-50%; D = dry, S = saturated, M = moist
1	0 – 2”	34”	13.9	Fill, brick and gravel.
2	2” – 2			
3	2 – 4		13.9	Fill, brick and gravel.
4				
5	4 - 6		0.5	Fill, brick and gravel.
6		17”		
7	6 – 8		0.5	Fill.
8				
9	8 – 10		0.5	Fill.
10				
11	10 – 12	11”	0.2	Fill.
12				
13	12 – 14		0.2	Fill.
14				
15	14 – 16		0.2	Fill.
16		26”		
17	16 – 18		0.2	Fill and some clay.
18				
19	18 – 20		0.2	Fill and some clay.
20				
21	20 – 22	16”	0.3	Fill and some clay.
22				
23	22 – 24		0.3	Fill and some clay.
24				
25	24 – 26		0.2	Fill and some clay.
26		40”		
27	26 – 28		0.2	Clay with strong odor.
28				
29	28 – 30		0.2	Clay with strong odor.
30				

Notes:

Performed By: Cascade

Groundwater Interface (▼):27ft

SB-7 BO was an offset soil boring.

A Duplicate was taken at SB-7 BO at 11:30.

Composite Sample Notes:

SB-7 BO – TAL metals.

SB-7 C – TAL metals.

PID Headspace (H/S) Readings

Interval	PID H/S
0-2”	3.6
2”-2	3.6
2-4	3.6
4-6	3.8
6-8	3.8
8-10	3.8
10-12	2.9
12-14	2.9
14-16	2.9
16-18	2.7
18-20	2.7
20-22	1.9
22-24	1.9
24-26	63.8
26-28	63.8
28-30	63.8

Grab/Composite Samples

Interval:	NA
Sample Time:	NA
Sample ID:	NA

Interval:	2” – 2’
Sample Time:	11:27
Sample ID:	SB-7 BO

Interval:	25’ – 30’
Sample Time:	11:32
Sample ID:	SB-7 C

DATE: 7/27/2017

LOCATION: 1 Osgood Avenue, Town of Green Island, NY

LOGGED BY: Rachel Farnum

Soil Boring Log

BORING LOCATION: SB-7

enviroSPEC ENGINEERING, PLLC

Envirospec Engineering, PLLC
349 Northern Blvd., Suite 3
Albany, NY 12204

CLIENT: South Island Apartments, LLC

PROJECT #:E17-1600

PROJECT MANAGER: Gianna Aiezza

Soil Boring: SB-8

Depth (ft)	Sample Interval (ft)	Recovery (in)	PID Screen (ppm)	Description Include color, texture, structure, odor, etc.; Trace 0-10%, Little 10-20%, Some 20-35%, And 35-50%; D = dry, S = saturated, M = moist
1 – 2	0 – 2” 2” – 2	48”	0.0	Soil and gravel.
3 – 4	2 – 4		0.0	Soil, fill, brick, and gravel.
5 – 6	4 - 6	24”	0.0	Soil.
7 – 8	6 – 8		0.0	Fill and sand.
9 – 10	8 – 10		0.0	Fill and sand.
11 – 12	10 – 12	12”	0.0	Fill, soil, and ash.
13 – 14	12 – 14		0.0	Fill, soil, and ash.
15 – 16	14 – 16	24”	0.0	Ash.
17 – 18	16 – 18		0.0	Ash and coal.
19 – 20	18 – 20		0.0	Clay and ash.
21 – 22	20 – 22	24”	3.0	Ash.
23 – 24	22 – 24		109.0	Clay and sand.
25 – 26	24 – 26	36”	108.4	Clay and sand.
27 – 28	26 – 28		22.1	Clay and sand.
29 – 30	28 – 30		1.1	Sand and Rock.

Notes:

Performed By: Cascade

Groundwater Interface (▼):28ft

SB-5 BO was an offset soil boring.

Composite Sample Notes:

SB-8 A- Full analysis.
SB-8 BO – Full analysis.
SB-8 C – Full analysis.

PID Headspace (H/S) Readings

Interval	PID H/S
0-2”	2.8
2”-2	1.1
2-4	1.1
4-6	2.8
6-8	2.8
8-10	2.8
10-12	2.2
12-14	2.2
14-16	1.1
16-18	1.1
18-20	1.8
20-22	2.8
22-24	101.2
24-26	101.2
26-28	256.7
28-30	378.5

Grab/Composite Samples

Interval:	0-2”
Sample Time:	1:40
Sample ID:	SB-8 A

Interval:	2” – 2’
Sample Time:	1:45
Sample ID:	SB-8 B

Interval:	25’ – 30’
Sample Time:	2:20
Sample ID:	SB-8 C

DATE: 7/26/2017

LOCATION: 1 Osgood Avenue, Town of Green Island, NY

LOGGED BY: Charlotte Verhoef

Soil Boring Log

BORING LOCATION: SB-8

enviroSPEC ENGINEERING, PLLC
Envirospec Engineering, PLLC
349 Northern Blvd., Suite 3
Albany, NY 12204

CLIENT: South Island Apartments, LLC

PROJECT #:E17-1600

PROJECT MANAGER: Gianna Aiezza

Soil Boring: SB-9

Depth (ft)	Sample Interval (ft)	Recovery (in)	PID Screen (ppm)	Description Include color, texture, structure, odor, etc.; Trace 0-10%, Little 10-20%, Some 20-35%, And 35-50%; D = dry, S = saturated, M = moist
1	0 – 2”	18”	0.0	Fill and gravel.
2	2” – 2			
3	2 – 4		0.0	Brick and ash.
4				
5	4 - 6	36”	0.0	Fill.
6				
7	6 – 8		75.0	Clay. Strong odor.
8				
9	8 – 10		4.0	Brick and ash
10				
11	10 – 12	<12”	41.8	Brick.
12				
13	12 – 14		9.7	Black ash layer.
14				
15	14 – 16	24”	0.9	Silt and clay
16				
17	16 – 18		0.9	Sand.
18				
19	18 – 20		0.1	Sand.
20				
21	20 – 22	36”	0.0	Fill and gravel.
22				
23	22 – 24		0.0	Silt and clay.
24				
25	24 – 26	48”	0.0	Silt and clay.
26				
27	26 – 28		0.0	Rocks, silt, and clay.
28				
29	28 – 30		0.0	Clay and gravel.
30				

Notes:

Performed By: Cascade

Groundwater Interface (▼):28ft

Composite Sample Notes:

SB-30 B – TAL metals.
SB-30 C – TAL metals.
SB-30 D– VOCs and TPH.

PID Headspace (H/S) Readings

Interval	PID H/S
0-2”	1.8
2”-2	1.8
2-4	1.8
4-6	39.9
6-8	39.9
8-10	5.2
10-12	2.4
12-14	2.4
14-16	1.4
16-18	1.4
18-20	1.2
20-22	4.1
22-24	1.5
24-26	2.6
26-28	2.6
28-30	0.9

Grab/Composite Samples

Interval:	NA
Sample Time:	NA
Sample ID:	NA

Interval:	2” – 2’
Sample Time:	10:50
Sample ID:	SB-9 B

Interval:	25’ – 30’
Sample Time:	11:20
Sample ID:	SB-9 C

Interval:	7’-8’
Sample Time:	11:00
Sample ID:	SB-9 D

DATE: 7/26/2017

LOCATION: 1 Osgood Avenue, Town of Green Island, NY

LOGGED BY: Charlotte Verhoef and Ross Carpinello

Soil Boring Log

BORING LOCATION: SB-9

enviroSPEC ENGINEERING, PLLC
Envirospec Engineering, PLLC
349 Northern Blvd., Suite 3
Albany, NY 12204

CLIENT: South Island Apartments, LLC

PROJECT #:E17-1600

PROJECT MANAGER: Gianna Aiezza

Soil Boring: SB-10

Depth (ft)	Sample Interval (ft)	Recovery (in)	PID Screen (ppm)	Description Include color, texture, structure, odor, etc.; Trace 0-10%, Little 10-20%, Some 20-35%, And 35-50%; D = dry, S = saturated, M = moist
1–2	0 – 2” 2” – 2	<6”	0.0	Brick, gravel, and asphalt.
3–4	2 – 4		0.0	Brick, gravel, and asphalt.
5–6	4 - 6	<12”	0.0	Brick, gravel, and asphalt.
7–8	6 – 8		0.0	Gravel, asphalt, and clay.
9–10	8 – 10		0.0	Gravel, asphalt, and clay.
11–12	10 – 12	<12”	0.0	Gravel and asphalt.
13–14	12 – 14		0.0	Brick, clay, and rocks.
15–16	14 – 16	~18”	0.0	Brick, clay, and rocks.
17–18	16 – 18		0.0	Sand, gravel, brick, and rocks.
19–20	18 – 20		0.0	Sand, gravel, brick, and rocks.
21–22	20 – 22	~24”	0.0	Some brick and clay.
23–24	22 – 24		0.0	Some brick and clay.
25–26	24 – 26	~12”	0.0	Some brick and clay.
27–28	26 – 28		85.0	Clay. Petroleum odor.
29–30	28 – 30		85.0	Clay. Petroleum odor.

Notes:

Performed By: Cascade

Groundwater Interface (▼):28ft

SB-10 BO, SB-10 BO2, SB-10 BO3, and SB-10 CO were offset soil borings.

Duplicate sample was taken from SB-10C at 10:15.

Composite Sample Notes:

SB-10 BO2 – VOCs and TAL metals.
SB-10 BO3 – TPH.
SB-10 C – Full analysis, no TPH.
SB-10 CO-TPH.

PID Headspace (H/S) Readings

Interval	PID H/S
0-2”	25.0
2”-2	25.0
2-4	25.0
4-6	130.0
6-8	130.0
8-10	130.0
10-12	72.2
12-14	72.2
14-16	72.2
16-18	1764
18-20	1764
20-22	746.0
22-24	746.0
24-26	565.0
26-28	565.0
28-30	565.0

Grab/Composite Samples

Interval:	2” – 2’
Sample Time:	10:25
Sample ID:	SB-10 BO2

Interval:	2” – 2’
Sample Time:	10:25
Sample ID:	SB-10 BO3

Interval:	25’ – 30’
Sample Time:	10:03
Sample ID:	SB-10 C

Interval:	25’-30’
Sample Time:	10:03
Sample ID:	SB -10 CO

DATE: 7/21/2017

LOCATION: 1 Osgood Avenue, Town of Green Island, NY

LOGGED BY: Charlotte Verhoef

Soil Boring Log

BORING LOCATION: SB-10

enviroSPEC ENGINEERING, PLLC
Envirospec Engineering, PLLC
349 Northern Blvd., Suite 3
Albany, NY 12204

CLIENT: South Island Apartments, LLC

PROJECT #:E17-1600

PROJECT MANAGER: Gianna Aiezza

Soil Boring: SB-11

Depth (ft)	Sample Interval (ft)	Recovery (in)	PID Screen (ppm)	Description Include color, texture, structure, odor, etc.; Trace 0-10%, Little 10-20%, Some 20-35%, And 35-50%; D = dry, S = saturated, M = moist
1	0 – 2”	18”	0.0	Soil.
2	2” – 2			
3	2 – 4		0.0	Gravel, fill, and soil.
4				
5	4 - 6		0.0	Fill.
6		18”		
7	6 – 8		0.0	Gravel.
8				
9	8 – 10		0.0	Clay.
10				
11	10 – 12	36”	0.0	Clay.
12				
13	12 – 14		0.0	Clay and brick.
14				
15	14 – 16		0.0	Clay and brick.
16		36”		
17	16 – 18		0.0	Clay and brick.
18				
19	18 – 20		1.8	Clay.
20				
21	20 – 22	36”	0.0	Silt, Clay, and Brick.
22				
23	22 – 24		0.0	Silt, Clay, and Brick.
24				
25	24 – 26		23.2	Silt, Clay, and Brick. Strong Odor.
26		60”		
27	26 – 28		67.0	Brick. Strong Odor.
28				
29	28 – 30		89.8	Silt and clay. Strong odor.
30				
31	30 - 32	60”	102.2	Silt and clay.
32				
33	33 - 35		40.7	Silt and clay.
34				
35				

Soil Boring: SB-11 (continued)

Notes:
Performed By: Cascade
Groundwater Interface (▼):28ft

SB-11 BO was an offset soil boring.
Duplicate was taken from SB-11 BO at 9:10.

Composite Sample Notes:

SB-22 A – Full analysis.
SB-22 BO – Full analysis.
SB-22 C – Full analysis.
SB-22 D – VOCs and TPH.

PID Headspace (H/S) Readings

Interval	PID H/S
0-2”	0.0
2”-2	0.3
2-4	0.3
4-6	1.0
6-8	1.0
8-10	1.0
10-12	0.9
12-14	0.9
14-16	0.9
16-18	0.4
18-20	0.4
20-22	0.6
22-24	0.6
24-26	1.6
26-28	1.4
28-30	4.0
30-32	397.7
33-35	1.7

Grab/Composite Samples

Interval:	0-2”
Sample Time:	9:00
Sample ID:	SB-11 A

Interval:	2” – 2’
Sample Time:	9:05
Sample ID:	SB-11 BO

Interval:	30’ – 32’
Sample Time:	9:59
Sample ID:	SB-11 C

Interval:	34’-35’
Sample Time:	10:04
Sample ID:	SB-11 D

DATE: 7/26/2017

LOCATION: 1 Osgood Avenue, Town of Green Island, NY

LOGGED BY: Charlotte Verhoef and Ross Carpinello

Soil Boring Log

BORING LOCATION: SB-11

enviroSPEC ENGINEERING, PLLC
Envirospec Engineering, PLLC
349 Northern Blvd., Suite 3
Albany, NY 12204

CLIENT: South Island Apartments, LLC

PROJECT #:E17-1600

PROJECT MANAGER: Gianna Aiezza

Soil Boring: SB-12

Depth (ft)	Sample Interval (ft)	Recovery (in)	PID Screen (ppm)	Description Include color, texture, structure, odor, etc.; Trace 0-10%, Little 10-20%, Some 20-35%, And 35-50%; D = dry, S = saturated, M = moist
1–2	0 – 2” 2” – 2	~36”	0.0	Fill, sand, ash and gravel.
3–4	2 – 4		0.0	Fill, sand, ash and gravel.
5–6	4 - 6		0.0	Clay. Petroleum odor.
7–8	6 – 8	~24”	3.7	Clay with a black layer at 7-9 feet. Petroleum odor.
9–10	8 – 10		13.8	Clay with a black layer at 7-9 feet. Petroleum odor.
11–12	10 – 12	~24”	67.8	Clay and sand. Petroleum odor.
13–14	12 – 14		67.8	Clay and sand with a black layer at 12-13 feet. Petroleum odor.
15–16	14 – 16		70.2	Clay and sand. Petroleum odor.
17–18	16 – 18	~36”	70.2	Clay, fill and sand. Petroleum odor.
19–20	18 – 20		23.4	Clay, fill and sand. Petroleum odor.
21–22	20 – 22	~54”	8.4	Silt/clay. Petroleum odor.
23–24	22 – 24		0.7	Silt/clay. Petroleum odor.
25–26	24 – 26		0.7	Silt/clay. Petroleum odor.
27–28	26 – 28	~48”	16.5	Silt/clay. Petroleum odor.
29–30	28 – 30		3.1	Silt/clay. Petroleum odor.

Notes:

Performed By: Cascade

Groundwater Interface (▼):28ft

SB-12 BO was an offset soil boring.

An addition sample SB-12 D was taken at 3:20 from 8-10 ft.

Composite Sample Notes:

SB-12 BO – Full Analysis.

SB-12 C – Full Analysis.

SB-12 D – VOCs and TPH.

PID Headspace (H/S) Readings

Interval	PID H/S
0-2”	1.9
2”-2	1.9
2-4	2.4
4-6	2.4
6-8	1.8
8-10	198.6
10-12	84.0
12-14	60.4
14-16	60.4
16-18	88.3
18-20	88.3
20-22	4.5
22-24	6.5
24-26	140.0
26-28	140.0
28-30	4.8

Grab/Composite Samples

Interval:	NA
Sample Time:	NA
Sample ID:	NA

Interval:	2” – 2’
Sample Time:	2:55
Sample ID:	SB-12 BO

Interval:	25’ – 30’
Sample Time:	3:10
Sample ID:	SB-12 C

Interval:	8’ - 10’
Sample Time:	3:20
Sample ID:	SB-12 D

DATE: 7/25/2017

LOCATION: 1 Osgood Avenue, Town of Green Island, NY

LOGGED BY: Charlotte Verhoef and Ross Carpinello

Soil Boring Log

BORING LOCATION: SB-12

enviroSPEC ENGINEERING, PLLC

Envirospec Engineering, PLLC
349 Northern Blvd., Suite 3
Albany, NY 12204

CLIENT: South Island Apartments, LLC

PROJECT #:E17-1600

PROJECT MANAGER: Gianna Aiezza

Soil Boring: SB-13

Depth (ft)	Sample Interval (ft)	Recovery (in)	PID Screen (ppm)	Description Include color, texture, structure, odor, etc.; Trace 0-10%, Little 10-20%, Some 20-35%, And 35-50%; D = dry, S = saturated, M = moist
1	0 – 2”	24”	0.3	Fill, gravel, brick, and ash.
2	2” – 2			
3	2 – 4		0.3	Fill, gravel, brick, and ash.
4				
5	4 - 6		0.7	Clay, Brick, and a black layer
6		36”		
7	6 – 8		0.7	Clay, Brick, and a black layer
8				
9	8 – 10		0.7	Clay, Brick, and a black layer
10				
11	10 – 12	30”	1.3	Fill, gray ash, clay, and gravel.
12				
13	12 – 14		0.3	Fill, gray ash, clay, and gravel.
14				
15	14 – 16		0.3	Fill, gray ash, clay, and gravel.
16		12”		
17	16 – 18		0.3	Fill, clay, gravel.
18				
19	18 – 20		0.3	Fill, clay, gravel.
20				
21	20 – 22	>12”	0.0	Clay and gravel.
22				
23	22 – 24		0.0	Clay and gravel.
24				
25	24 – 26		0.0	Clay and gravel.
26		24”		
27	26 – 28		0.0	Clay and gravel.
28				
29	28 – 30		0.0	Clay and gravel.
30				

Notes:

Performed By: Cascade

Groundwater Interface (▼):27ft

Composite Sample Notes:

SB-13 B- Full analysis.
SB-13 C – Full analysis.
SB-13 D – VOCs, TPH, TAL metals, and SPLP RCRA metals.

PID Headspace (H/S) Readings

Interval	PID H/S
0-2”	1.0
2”-2	1.0
2-4	3.6
4-6	3.6
6-8	51.0
8-10	3.3
10-12	3.5
12-14	3.5
14-16	2.8
16-18	5.4
18-20	5.4
20-22	2.8
22-24	4.3
24-26	5.5
26-28	1.5
28-30	1.5

Grab/Composite Samples

Interval:	2” – 2’
Sample Time:	11:54
Sample ID:	SB-13 B

Interval:	25’ - 28’
Sample Time:	12:40
Sample ID:	SB-13 C

Interval:	7’ - 9’
Sample Time:	11:40
Sample ID:	SB-13 D

DATE: 7/20/2017

LOCATION: 1 Osgood Avenue, Town of Green Island, NY

LOGGED BY: Charlotte Verhoef

Soil Boring Log

BORING LOCATION: SB-13

enviroSPEC ENGINEERING, PLLC
Envirospec Engineering, PLLC
349 Northern Blvd., Suite 3
Albany, NY 12204

CLIENT: South Island Apartments, LLC

PROJECT #:E17-1600

PROJECT MANAGER: Gianna Aiezza

Soil Boring: SB-14 Offset (revisit)

Depth (ft)	Sample Interval (ft)	Recovery (in)	PID Screen (ppm)	Description Include color, texture, structure, odor, etc.; Trace 0-10%, Little 10-20%, Some 20-35%, And 35-50%; D = dry, S = saturated, M = moist
1	0 – 2”	NA	NA	NA
2	2” – 2			
3	2 – 4		NA	NA
4				
5	4 - 6		NA	NA
6		NA		
7	6 – 8		NA	NA
8				
9	8 – 10		NA	NA
10				
11	10 – 12	NA	NA	NA
12				
13	12 – 14		NA	NA
14				
15	14 – 16		NA	NA
16		NA		
17	16 – 18		NA	NA
18				
19	18 – 20		NA	NA
20				
21	20 – 22	33”	82.6	Clay and some gravel. Strong odor.
22				
23	22 – 24		82.6	Clay and some gravel. Strong odor.
24				
25	24 – 26		82.3	Clay and some gravel. Strong odor.
26		36”		
27	26 – 28		30.0	Fill, clay, and gravel.
28				
29	28 – 30		30.0	Fill, clay, and gravel.
30				

Notes:

Performed By: Cascade

Groundwater Interface (▼):26ft

SB-14CO was an offset soil boring.

PID only conducted 20-30 feet – where sampling was not conducted before.

Composite Sample Notes:

SB-14 CO – TAL Metal and SPLP only.

PID Headspace (H/S) Readings

Interval	PID H/S
0-2”	NA
2”-2	NA
2-4	NA
4-6	NA
6-8	NA
8-10	NA
10-12	NA
12-14	NA
14-16	NA
16-18	NA
18-20	NA
20-22	248.0
22-24	248.0
24-26	248.0
26-28	190.0
28-30	190.0

Grab/Composite Samples

Interval:	NA
Sample Time:	NA
Sample ID:	NA

Interval:	NA
Sample Time:	NA
Sample ID:	NA

Interval:	25’ – 30’
Sample Time:	10:02
Sample ID:	SB-14 CO

DATE: 7/31/2017

LOCATION: 1 Osgood Avenue, Town of Green Island, NY

LOGGED BY: Rachel Farnum

Soil Boring Log

BORING LOCATION: SB-14 O

enviroSPEC ENGINEERING, PLLC

Envirospec Engineering, PLLC
349 Northern Blvd., Suite 3
Albany, NY 12204

CLIENT: South Island Apartments, LLC

PROJECT #:E17-1600

PROJECT MANAGER: Gianna Aiezza

Soil Boring: SB-14

Depth (ft)	Sample Interval (ft)	Recovery (in)	PID Screen (ppm)	Description Include color, texture, structure, odor, etc.; Trace 0-10%, Little 10-20%, Some 20-35%, And 35-50%; D = dry, S = saturated, M = moist
1	0 – 2”	<48”	0.1	Brick.
2	2” – 2			
3	2 – 4		0.1	Gravel, ash, brick, and clay.
4				
5	4 - 6		0.2	Gravel, ash, brick, and clay.
6		<24”		
7	6 – 8		0.2	Gravel, ash, brick, and clay.
8				
9	8 – 10		0.2	Gravel, ash, brick, and clay.
10				
11	10 – 12	<24”	0.2	Gravel, brick, and clay.
12				
13	12 – 14		0.2	Gravel, brick, and clay.
14				
15	14 – 16		5.1	Clay with strong odor.
16		<48”		
17	16 – 18		5.1	Clay with strong odor.
18				
19	18 – 20		5.1	Clay with strong odor.
20				
21	20 – 22			
22				
23	22 – 24			
24				
25	24 – 26			
26				
27	26 – 28			
28				
29	28 – 30			
30				

Notes:

Performed By: Cascade

Groundwater Interface (▼):20ft

SB-14 BO was an additional offset soil boring. The offset boring (2” – 2 ft) was also more brick. A sample was taken from the 3 – 5 ft because there was clay to sample.

Composite Sample Notes:

SB-14 BO – Full analysis.

SB-14 C – Full analysis.

PID Headspace (H/S) Readings

Interval	PID H/S
0-2”	1.6
2”-2	1.6
2-4	9.7
4-6	9.7
6-8	2.7
8-10	2.7
10-12	3.8
12-14	3.8
14-16	3.8
16-18	94.3
18-20	94.3
20-22	
22-24	
24-26	
26-28	
28-30	

Grab/Composite Samples

Interval:	NA
Sample Time:	NA
Sample ID:	NA

Interval:	3’ – 5’
Sample Time:	10:45
Sample ID:	SB – 14 BO

Interval:	15’ – 20’
Sample Time:	10:33
Sample ID:	SB-14 C

DATE: 7/20/2017

LOCATION: 1 Osgood Avenue, Town of Green Island, NY

LOGGED BY: Rachel Farnum and Charlotte Verhoef

Soil Boring Log

BORING LOCATION: SB-14

enviroSPEC ENGINEERING, PLLC

Envirospec Engineering, PLLC
349 Northern Blvd., Suite 3
Albany, NY 12204

CLIENT: South Island Apartments, LLC

PROJECT #:E17-1600

PROJECT MANAGER: Gianna Aiezza

Soil Boring: SB-15 Offset (revisit)

Depth (ft)	Sample Interval (ft)	Recovery (in)	PID Screen (ppm)	Description Include color, texture, structure, odor, etc.; Trace 0-10%, Little 10-20%, Some 20-35%, And 35-50%; D = dry, S = saturated, M = moist
1	0 – 2”	37”	NA	Fill, brick, and clay.
2	2” – 2			
3	2 – 4		NA	Fill, brick, and clay.
4				
5	4 - 6		NA	Fill and clay.
6		22”		
7	6 – 8		NA	Fill and clay.
8				
9	8 – 10		NA	Fill and clay.
10				
11	10 – 12	18”	NA	Fill and gravel.
12				
13	12 – 14		NA	Fill and gravel.
14				
15	14 – 16		NA	Sand and fill.
16		22”		
17	16 – 18		NA	Sand and fill.
18				
19	18 – 20		NA	Sand and fill.
20				
21	20 – 22	54”	0.0	Clay.
22				
23	22 – 24		0.0	Clay.
24				
25	24 – 26		0.0	Clay.
26		60”		
27	26 – 28		0.0	Clay.
28				
29	28 – 30		0.0	Clay.
30				

Notes:

Performed By: Cascade

Groundwater Interface (▼):26ft

PID only conducted 20-30 feet – where sampling was not conducted before.

SB-15 BO2 was an additional offset soil boring.

Composite Sample Notes:

SB-15 BO2 – Full analysis (no TAL metals).
SB-15 C – Full analysis.

PID Headspace (H/S) Readings

Interval	PID H/S
0-2”	NA
2”-2	NA
2-4	NA
4-6	NA
6-8	NA
8-10	NA
10-12	NA
12-14	NA
14-16	NA
16-18	NA
18-20	NA
20-22	4.3
22-24	4.3
24-26	0.3
26-28	0.3
28-30	0.3

Grab/Composite Samples

Interval:	NA
Sample Time:	NA
Sample ID:	NA

Interval:	2” – 2’
Sample Time:	8:07
Sample ID:	SB-15 BO2

Interval:	25’ – 30’
Sample Time:	8:40
Sample ID:	SB-15 CO

DATE: 7/31/2017

LOCATION: 1 Osgood Avenue, Town of Green Island, NY

LOGGED BY: Rachel Farnum

Soil Boring Log

BORING LOCATION: SB-15 O

enviroSPEC ENGINEERING, PLLC
Envirospec Engineering, PLLC
349 Northern Blvd., Suite 3
Albany, NY 12204

CLIENT: South Island Apartments, LLC

PROJECT #:E17-1600

PROJECT MANAGER: Gianna Aiezza

Soil Boring: SB-15 surface

Depth (ft)	Sample Interval (ft)	Recovery (in)	PID Screen (ppm)	Description Include color, texture, structure, odor, etc.; Trace 0-10%, Little 10-20%, Some 20-35%, And 35-50%; D = dry, S = saturated, M = moist
1	0 – 2” 2” – 2	NA	NA	Fill and some rocks.
3	2 – 4		NA	NA
5	4 - 6		NA	NA
7	6 – 8	NA	NA	NA
9	8 – 10		NA	NA
11	10 – 12	NA	NA	NA
13	12 – 14		NA	NA
15	14 – 16		NA	NA
17	16 – 18	NA	NA	NA
19	18 – 20		NA	NA
21	20 – 22	NA	NA	NA
23	22 – 24		NA	NA
25	24 – 26		NA	NA
27	26 – 28	NA	NA	NA
29	28 – 30		NA	NA

Notes:

Performed By: Envirospec

Groundwater Interface (▼):NA

Composite Sample Notes:

SB-15 A – TAL metals.

PID Headspace (H/S) Readings

Interval	PID H/S
0-2”	NA
2”-2	NA
2-4	NA
4-6	NA
6-8	NA
8-10	NA
10-12	NA
12-14	NA
14-16	NA
16-18	NA
18-20	NA
20-22	NA
22-24	NA
24-26	NA
26-28	NA
28-30	NA

Grab/Composite Samples

Interval:	0-2”
Sample Time:	7:40
Sample ID:	SB-15 A

Interval:	NA
Sample Time:	NA
Sample ID:	NA

Interval:	NA
Sample Time:	NA
Sample ID:	NA

DATE: 8/8/2017

LOCATION: 1 Osgood Avenue, Town of Green Island, NY

LOGGED BY: Rachel Farnum

Soil Boring Log

BORING LOCATION: SB-15

enviroSPEC ENGINEERING, PLLC

Envirospec Engineering, PLLC
349 Northern Blvd., Suite 3
Albany, NY 12204

CLIENT: South Island Apartments, LLC

PROJECT #:E17-1600

PROJECT MANAGER: Gianna Aiezza

Soil Boring: SB-15

Depth (ft)	Sample Interval (ft)	Recovery (in)	PID Screen (ppm)	Description Include color, texture, structure, odor, etc.; Trace 0-10%, Little 10-20%, Some 20-35%, And 35-50%; D = dry, S = saturated, M = moist
1	0 – 2”	~6”	0.0	Ash, brick, and clay.
2	2” – 2			
3	2 – 4		0.0	Ash, brick, and clay.
4				
5	4 - 6		0.0	Ash, brick, and clay.
6		~36”		
7	6 – 8		0.0	Gravel, brick, fill and clay.
8				
9	8 – 10		0.0	Gravel, brick, fill and clay.
10				
11	10 – 12	~24”	0.0	Gravel, stones, fill and clay.
12				
13	12 – 14		0.0	Gravel, stones, fill and clay.
14				
15	14 – 16		0.0	Sand and fill.
16		~24”		
17	16 – 18		0.0	Sand and fill.
18				
19	18 – 20		0.0	Sand and fill.
20				
21	20 – 22			
22				
23	22 – 24			
24				
25	24 – 26			
26				
27	26 – 28			
28				
29	28 – 30			
30				

Notes:

Performed By: Cascade

Groundwater Interface (▼):20ft

SB-15 O was an additional offset soil boring.
There was not enough to composite for a SB-15 B.

Composite Sample Notes:

SB-15 O – TAL metals.
SB-15 C – TAL metals.

PID Headspace (H/S) Readings

Interval	PID H/S
0-2”	2.6
2”-2	1.8
2-4	1.8
4-6	3.0
6-8	3.0
8-10	3.0
10-12	2.3
12-14	2.3
14-16	1.8
16-18	1.8
18-20	1.8
20-22	
22-24	
24-26	
26-28	
28-30	

Grab/Composite Samples

Interval:	0 – 2 feet
Sample Time:	8:10
Sample ID:	SB-15 O

Interval:	NA
Sample Time:	NA
Sample ID:	NA

Interval:	15’ – 20’
Sample Time:	8:40
Sample ID:	SB-15 C

DATE: 7/20/2017

LOCATION: 1 Osgood Avenue, Town of Green Island, NY

LOGGED BY: Rachel Farnum and Charlotte Verhoef

Soil Boring Log

BORING LOCATION: SB-15

enviroSPEC ENGINEERING, PLLC
Envirospec Engineering, PLLC
349 Northern Blvd., Suite 3
Albany, NY 12204

CLIENT: South Island Apartments, LLC

PROJECT #:E17-1600

PROJECT MANAGER: Gianna Aiezza

Soil Boring: SB-16

Depth (ft)	Sample Interval (ft)	Recovery (in)	PID Screen (ppm)	Description Include color, texture, structure, odor, etc.; Trace 0-10%, Little 10-20%, Some 20-35%, And 35-50%; D = dry, S = saturated, M = moist
1	0 – 2”	~24”	NA	Fill, rocks and gravel. No odor or visual petroleum.
2	2” – 2			
3	2 – 4		NA	Fill, rocks and gravel. No odor or visual petroleum.
4				
5	4 - 6		NA	Fill, sand and gravel. No odor or visual petroleum.
6		~18”		
7	6 – 8		NA	Fill, ash and gravel. No odor or visual petroleum.
8				
9	8 – 10		NA	Fill, ash and gravel. No odor or visual petroleum.
10				
11	10 – 12	~18”	NA	Ash, gravel, rocks and gravel. No odor or visual petroleum.
12				
13	12 – 14		NA	Ash, gravel, rocks and gravel. No odor or visual petroleum.
14				
15	14 – 16		NA	Ash, gravel, rocks and gravel. No odor or visual petroleum.
16		~30”		
17	16 – 18		NA	Ash, gravel, rocks and gravel. No odor or visual petroleum.
18				
19	18 – 20		NA	Ash, gravel, rocks and gravel. No odor or visual petroleum.
20				
21	20 – 22	~24”	NA	Sand, fill, brick and clay. No odor or visual petroleum.
22				
23	22 – 24		NA	Sand, fill, brick and clay. No odor or visual petroleum.
24				
25	24 – 26		NA	Sand, fill, brick and clay. No odor or visual petroleum.
26		~18”		
27	26 – 28		NA	Clay. No odor or visual petroleum.
28				
29	28 – 30		NA	Clay. No odor or visual petroleum.
30				

Notes:

Performed By: Cascade

Groundwater Interface (▼):27ft

SB-16 BO was an offset soil boring.

PID measurements NA due to moisture causing inaccurate readings.

Composite Sample Notes:

SB-16 BO – Full Analysis.
SB-16 C – Full Analysis.

PID Headspace (H/S) Readings

Interval	PID H/S
0-2”	NA
2”-2	NA
2-4	NA
4-6	NA
6-8	NA
8-10	NA
10-12	NA
12-14	NA
14-16	NA
16-18	NA
18-20	NA
20-22	NA
22-24	NA
24-26	NA
26-28	NA
28-30	NA

Grab/Composite Samples

Interval:	NA
Sample Time:	NA
Sample ID:	NA

Interval:	2” – 2’
Sample Time:	11:00
Sample ID:	SB-16 BO

Interval:	28’ – 30’
Sample Time:	11:25
Sample ID:	SB-16 C

DATE: 7/25/2017

LOCATION: 1 Osgood Avenue, Town of Green Island, NY

LOGGED BY: Charlotte Verhoef

Soil Boring Log

BORING LOCATION: SB-16

enviroSPEC ENGINEERING, PLLC
Envirospec Engineering, PLLC
349 Northern Blvd., Suite 3
Albany, NY 12204

CLIENT: South Island Apartments, LLC

PROJECT #:E17-1600

PROJECT MANAGER: Gianna Aiezza

Soil Boring: SB-17

Depth (ft)	Sample Interval (ft)	Recovery (in)	PID Screen (ppm)	Description Include color, texture, structure, odor, etc.; Trace 0-10%, Little 10-20%, Some 20-35%, And 35-50%; D = dry, S = saturated, M = moist
1	0 – 2”	~36”	NA	Fill, wood and gravel. No odor or visual petroleum.
2	2” – 2			
3	2 – 4		NA	Fill, wood and gravel. No odor or visual petroleum.
4				
5	4 - 6		NA	Fill, wood and gravel. No odor or visual petroleum.
6		~36”		
7	6 – 8		NA	Soil, ash, clay, gravel and fill. No odor or visual petroleum.
8				
9	8 – 10		NA	Soil, ash, clay, gravel and fill. No odor or visual petroleum.
10				
11	10 – 12	~24”	NA	Soil, ash, clay, gravel and fill. No odor or visual petroleum.
12				
13	12 – 14		NA	Soil, ash, clay, gravel and fill. No odor or visual petroleum.
14				
15	14 – 16		NA	Soil, ash, clay, gravel and fill. No odor or visual petroleum.
16		~36”		
17	16 – 18		NA	Brick, ash, clay, gravel and fill. No odor or visual petroleum. Black layer at 17-18 feet.
18				
19	18 – 20		NA	Brick, ash, clay, gravel and fill. No odor or visual petroleum.
20				
21	20 – 22	~48”	NA	Brick, ash, clay, gravel and fill. No odor or visual petroleum.
22				
23	22 – 24		NA	Brick, ash, clay, gravel and fill. No odor or visual petroleum.
24				
25	24 – 26		NA	Brick, ash, clay, gravel and fill. No odor or visual petroleum.
26		~36”		
27	26 – 28		NA	Clay. Petroleum odor.
28				
29	28 – 30		NA	Clay. Petroleum odor.
30				

Notes:

Performed By: Cascade

Groundwater Interface (▼):28ft

SB-17 BO was an offset soil boring.

PID measurements NA due to moisture causing inaccurate readings.

Composite Sample Notes:

SB-17 A – Full analysis.
SB-17 BO – Full analysis.
SB-17 C – Full analysis.

PID Headspace (H/S) Readings

Interval	PID H/S
0-2”	NA
2”-2	NA
2-4	NA
4-6	NA
6-8	NA
8-10	NA
10-12	NA
12-14	NA
14-16	NA
16-18	NA
18-20	NA
20-22	NA
22-24	NA
24-26	NA
26-28	NA
28-30	NA

Grab/Composite Samples

Interval:	0 - 2”
Sample Time:	2:50
Sample ID:	SB-17 A

Interval:	2” – 2’
Sample Time:	2:55
Sample ID:	SB-17 BO

Interval:	25’ – 30’
Sample Time:	3:10
Sample ID:	SB-17 C

DATE: 7/24/2017

LOCATION: 1 Osgood Avenue, Town of Green Island, NY

LOGGED BY: Charlotte Verhoef

Soil Boring Log

BORING LOCATION: SB-17

enviroSPEC ENGINEERING, PLLC
Envirospec Engineering, PLLC
349 Northern Blvd., Suite 3
Albany, NY 12204

CLIENT: South Island Apartments, LLC

PROJECT #:E17-1600

PROJECT MANAGER: Gianna Aiezza

Soil Boring: SB-18 Offset (revisit)

Depth (ft)	Sample Interval (ft)	Recovery (in)	PID Screen (ppm)	Description Include color, texture, structure, odor, etc.; Trace 0-10%, Little 10-20%, Some 20-35%, And 35-50%; D = dry, S = saturated, M = moist
1 – 2	0 – 2” 2” – 2	NA	NA	NA
3 – 4	2 – 4		NA	NA
5 – 6	4 - 6		NA	NA
7 – 8	6 – 8	NA	NA	NA
9 – 10	8 – 10		NA	NA
11 – 12	10 – 12	NA	NA	NA
13 – 14	12 – 14		NA	NA
15 – 16	14 – 16		NA	NA
17 – 18	16 – 18	NA	NA	NA
19 – 20	18 – 20		NA	NA
21 – 22	20 – 22	24”	0.0	Clay and fill.
23 – 24	22 – 24		0.0	Clay and fill.
25 – 26	24 – 26		0.0	Clay and fill.
27 – 28	26 – 28	60”	0.0	Clay and gravel.
29 – 30	28 – 30		0.0	Clay and gravel.

Notes:

Performed By: Cascade

Groundwater Interface (▼):26ft

Composite Sample Notes:

SB-18 CO – TAL Metal and SPLP only.

PID Headspace (H/S) Readings

Interval	PID H/S
0-2”	NA
2”-2	NA
2-4	NA
4-6	NA
6-8	NA
8-10	NA
10-12	NA
12-14	NA
14-16	NA
16-18	NA
18-20	NA
20-22	0.9
22-24	0.9
24-26	0.9
26-28	0.7
28-30	0.7

Grab/Composite Samples

Interval:	NA
Sample Time:	NA
Sample ID:	NA

Interval:	NA
Sample Time:	NA
Sample ID:	NA

Interval:	25’ – 30’
Sample Time:	9:27
Sample ID:	SB-18 CO

DATE: 7/31/2017

LOCATION: 1 Osgood Avenue, Town of Green Island, NY

LOGGED BY: Rachel Farnum

Soil Boring Log

BORING LOCATION: SB-18 O

enviroSPEC ENGINEERING, PLLC

Envirospec Engineering, PLLC
349 Northern Blvd., Suite 3
Albany, NY 12204

CLIENT: South Island Apartments, LLC

PROJECT #:E17-1600

PROJECT MANAGER: Gianna Aiezza

Soil Boring: SB-18

Depth (ft)	Sample Interval (ft)	Recovery (in)	PID Screen (ppm)	Description Include color, texture, structure, odor, etc.; Trace 0-10%, Little 10-20%, Some 20-35%, And 35-50%; D = dry, S = saturated, M = moist
1	0 – 2”	~6”,~24” and ~24”	0.1	Fill and gravel.
2	2” – 2			
3	2 – 4		0.0	Fill, brick, and seashells.
4				
5	4 - 6	~36”	0.0	Fill, brick, and seashells.
6				
7	6 – 8		0.0	Fill, brick and clay.
8				
9	8 – 10		0.0	Fill, brick and clay.
10				
11	10 – 12	~18”	0.0	Clay and some brick.
12				
13	12 – 14		0.0	Clay and some brick.
14				
15	14 – 16	~36”	0.0	Clay and some brick.
16				
17	16 – 18		0.0	Clay and some brick.
18				
19	18 – 20		0.0	Clay and some brick.
20				
21	20 – 22			
22				
23	22 – 24			
24				
25	24 – 26			
26				
27	26 – 28			
28				
29	28 – 30			
30				

Notes:

Performed By: Cascade

Groundwater Interface (▼):20ft

SB-18 O1 and SB-18 O2 were additional offset soil borings.
SB-18 01 soil boring filed all the jars except for the SPLP metals jar.
This jar was filled by SB-18 O2 soil boring.

Composite Sample Notes:

SB-18 O1 – Full analysis.
SB-18 C – Full analysis.

PID Headspace (H/S) Readings

Interval	PID H/S
0-2”	3.5
2”-2	1.4
2-4	1.4
4-6	5.2
6-8	5.2
8-10	5.2
10-12	2.4
12-14	2.4
14-16	1.5
16-18	1.5
18-20	1.5
20-22	
22-24	
24-26	
26-28	
28-30	

Grab/Composite Samples

Interval:	0 – 2 feet
Sample Time:	9:45
Sample ID:	SB-18 O1

Interval:	NA
Sample Time:	NA
Sample ID:	NA

Interval:	15’ – 20’
Sample Time:	9:40
Sample ID:	SB-18 C

DATE: 7/20/2017

LOGGED BY: Rachel Farnum

BORING LOCATION: SB-18

LOCATION: 1 Osgood Avenue, Town of Green Island, NY

Soil Boring Log

enviroSPEC ENGINEERING, PLLC
Envirospec Engineering, PLLC
349 Northern Blvd., Suite 3
Albany, NY 12204

CLIENT: South Island Apartments, LLC

PROJECT #:E17-1600

PROJECT MANAGER: Gianna Aiezza

Soil Boring: SB-19 Offset (revisit)

Depth (ft)	Sample Interval (ft)	Recovery (in)	PID Screen (ppm)	Description Include color, texture, structure, odor, etc.; Trace 0-10%, Little 10-20%, Some 20-35%, And 35-50%; D = dry, S = saturated, M = moist
1	0 – 2”	41”	NA	Fill, gravel, and rocks.
2	2” – 2			
3	2 – 4		NA	Fill, gravel, and rocks.
4				
5	4 - 6		NA	Fill, gravel, and rocks.
6		NA		
7	6 – 8		NA	NA
8				
9	8 – 10		NA	NA
10				
11	10 – 12	NA	NA	NA
12				
13	12 – 14		NA	NA
14				
15	14 – 16		NA	NA.
16		NA		
17	16 – 18		NA	NA
18				
19	18 – 20		NA	NA
20				
21	20 – 22	NA	NA	NA
22				
23	22 – 24		NA	NA
24				
25	24 – 26		NA	Sand and gravel.
26		42”		
27	26 – 28		NA	Sand and gravel.
28				
29	28 – 30		NA	Sand and gravel.
30				

Notes:

Performed By: Cascade

Groundwater Interface (▼):27ft

PID only conducted – Was conducted at previous soil boring at the same location.

SB-19BO2 was an additional offset soil boring.

Composite Sample Notes:

SB-19 BO2 – Full analysis (no TAL metals or SVOCs).

SB-19 CO – Full analysis (no TAL metals or SVOCs).

PID Headspace (H/S) Readings

Interval	PID H/S
0-2”	NA
2”-2	NA
2-4	NA
4-6	NA
6-8	NA
8-10	NA
10-12	NA
12-14	NA
14-16	NA
16-18	NA
18-20	NA
20-22	NA
22-24	NA
24-26	NA
26-28	NA
28-30	NA

Grab/Composite Samples

Interval:	NA
Sample Time:	NA
Sample ID:	NA

Interval:	2” – 2’
Sample Time:	10:29
Sample ID:	SB-19 BO2

Interval:	25’ – 30’
Sample Time:	10:50
Sample ID:	SB-19 CO

DATE: 7/31/2017

LOCATION: 1 Osgood Avenue, Town of Green Island, NY

LOGGED BY: Rachel Farnum

Soil Boring Log

BORING LOCATION: SB-19 O

enviroSPEC ENGINEERING, PLLC

Envirospec Engineering, PLLC
349 Northern Blvd., Suite 3
Albany, NY 12204

CLIENT: South Island Apartments, LLC

PROJECT #:E17-1600

PROJECT MANAGER: Gianna Aiezza

Soil Boring: SB-19 surface (offset)

Depth (ft)	Sample Interval (ft)	Recovery (in)	PID Screen (ppm)	Description Include color, texture, structure, odor, etc.; Trace 0-10%, Little 10-20%, Some 20-35%, And 35-50%; D = dry, S = saturated, M = moist
1–2	0 – 2” 2” – 2	NA	NA	Fill, rock, gravel, and brick.
3–4	2 – 4		NA	NA
5–6	4 - 6	NA	NA	NA
7–8	6 – 8		NA	NA
9–10	8 – 10		NA	NA
11–12	10 – 12	NA	NA	NA
13–14	12 – 14		NA	NA
15–16	14 – 16		NA	NA
17–18	16 – 18	NA	NA	NA
19–20	18 – 20		NA	NA
21–22	20 – 22	NA	NA	NA
23–24	22 – 24		NA	NA
25–26	24 – 26	NA	NA	NA
27–28	26 – 28		NA	NA
29–30	28 – 30		NA	NA

Notes:

Performed By: Envirospec

Groundwater Interface (▼):NA

Composite Sample Notes:

SB-19 AO – Full analysis (no TAL metals or SVOC).

PID Headspace (H/S) Readings

Interval	PID H/S
0-2”	0.2
2”-2	NA
2-4	NA
4-6	NA
6-8	NA
8-10	NA
10-12	NA
12-14	NA
14-16	NA
16-18	NA
18-20	NA
20-22	NA
22-24	NA
24-26	NA
26-28	NA
28-30	NA

Grab/Composite Samples

Interval:	0-2”
Sample Time:	8:45
Sample ID:	SB-19 AO

Interval:	NA
Sample Time:	NA
Sample ID:	NA

Interval:	NA
Sample Time:	NA
Sample ID:	NA

Interval:	NA
Sample Time:	NA
Sample ID:	NA

DATE: 8/8/2017

LOCATION: 1 Osgood Avenue, Town of Green Island, NY

LOGGED BY: Rachel Farnum

Soil Boring Log

BORING LOCATION: SB-19

enviroSPEC ENGINEERING, PLLC

Envirospec Engineering, PLLC
349 Northern Blvd., Suite 3
Albany, NY 12204

CLIENT: South Island Apartments, LLC

PROJECT #:E17-1600

PROJECT MANAGER: Gianna Aiezza

Soil Boring: SB-19

Depth (ft)	Sample Interval (ft)	Recovery (in)	PID Screen (ppm)	Description Include color, texture, structure, odor, etc.; Trace 0-10%, Little 10-20%, Some 20-35%, And 35-50%; D = dry, S = saturated, M = moist
1	0 – 2”	~24”	NA	Fill, clay, brick, gavel, and soil.
2	2” – 2			
3	2 – 4		NA	Fill, clay, brick, and gavel
4				
5	4 - 6		NA	Fill, clay, brick, and gavel.
6		~24”		
7	6 – 8		NA	Fill, clay, brick, and gavel. Black layer from 7’-9’.
8				
9	8 – 10		NA	Fill, clay and sand. Black layer from 7’-9’.
10				
11	10 – 12	~18”	NA	Fill, clay and sand.
12				
13	12 – 14		NA	Fill, clay and sand.
14				
15	14 – 16		NA	Sand, fill, and gravel.
16		~18”		
17	16 – 18		NA	Sand, fill, and gravel.
18				
19	18 – 20		NA	Sand, fill, and gravel.
20				
21	20 – 22	~36”	NA	Clay.
22				
23	22 – 24		NA	Clay.
24				
25	24 – 26		NA	Clay.
26		~18”		
27	26 – 28		NA	Clay.
28				
29	28 – 30		NA	Clay.
30				

Notes:

Performed By: Cascade

Groundwater Interface (▼):28ft

PID measurements NA due to moisture causing inaccurate readings.

SB-19 BO was an offset soil boring.

Composite Sample Notes:

SB-19 A – TAL metals.
SB-19 BO – TAL metals.
SB-19 C – TAL metals.

PID Headspace (H/S) Readings

Interval	PID H/S
0-2”	NA
2”-2	NA
2-4	NA
4-6	NA
6-8	NA
8-10	NA
10-12	NA
12-14	NA
14-16	NA
16-18	NA
18-20	NA
20-22	NA
22-24	NA
24-26	NA
26-28	NA
28-30	NA

Grab/Composite Samples

Interval:	0 – 2”
Sample Time:	1:45
Sample ID:	SB-21 A

Interval:	2” – 2’
Sample Time:	1:50
Sample ID:	SB-19 BO

Interval:	25’ – 30’
Sample Time:	1:40
Sample ID:	SB-19 C

DATE: 7/24/2017

LOCATION: 1 Osgood Avenue, Town of Green Island, NY

LOGGED BY: Charlotte Verhoef

Soil Boring Log

BORING LOCATION: SB-19

enviroSPEC ENGINEERING, PLLC
Envirospec Engineering, PLLC
349 Northern Blvd., Suite 3
Albany, NY 12204

CLIENT: South Island Apartments, LLC

PROJECT #:E17-1600

PROJECT MANAGER: Gianna Aiezza

Soil Boring: SB-20 Offset (revisit)

Depth (ft)	Sample Interval (ft)	Recovery (in)	PID Screen (ppm)	Description Include color, texture, structure, odor, etc.; Trace 0-10%, Little 10-20%, Some 20-35%, And 35-50%; D = dry, S = saturated, M = moist
1	0 – 2”	12”	NA	Fill.
2	2” – 2			
3	2 – 4		NA	Fill.
4				
5	4 - 6		NA	Fill and brick.
6		12”		
7	6 – 8		NA	Fill and brick.
8				
9	8 – 10		NA	Fill and brick.
10				
11	10 – 12	18”	NA	Fill.
12				
13	12 – 14		NA	Fill.
14				
15	14 – 16		NA	Fill.
16		16”		
17	16 – 18		NA	Fill.
18				
19	18 – 20		NA	Fill.
20				
21	20 – 22	36”	NA	Fill and clay.
22				
23	22 – 24		NA	Fill and clay.
24				
25	24 – 26		NA	Clay.
26		60”		
27	26 – 28		NA	Clay.
28				
29	28 – 30		NA	Clay.
30				

Notes:

Performed By: Cascade

Groundwater Interface (▼):27ft

PID only conducted – Was conducted at previous soil boring at the same location.

SB-20 BO2 was an additional offset soil boring.

Composite Sample Notes:

SB-20 AO – Full analysis (no TAL metals or SVOCs).

SB-20 BO2 – Full analysis (no TAL metals or SVOCs).

SB-20 CO – Full analysis (no TAL metals or SVOCs).

PID Headspace (H/S) Readings

Interval	PID H/S
0-2”	NA
2”-2	NA
2-4	NA
4-6	NA
6-8	NA
8-10	NA
10-12	NA
12-14	NA
14-16	NA
16-18	NA
18-20	NA
20-22	NA
22-24	NA
24-26	NA
26-28	NA
28-30	NA

Grab/Composite Samples

Interval:	0 – 2”
Sample Time:	7:20
Sample ID:	SB-20 AO

Interval:	2” – 2’
Sample Time:	6:45
Sample ID:	SB-20 BO2

Interval:	25’ – 30’
Sample Time:	7:20
Sample ID:	SB-20 CO

DATE: 7/31/2017

LOCATION: 1 Osgood Avenue, Town of Green Island, NY

LOGGED BY: Rachel Farnum

Soil Boring Log

BORING LOCATION: SB-20 O

enviroSPEC ENGINEERING, PLLC

Envirospec Engineering, PLLC
349 Northern Blvd., Suite 3
Albany, NY 12204

CLIENT: South Island Apartments, LLC

PROJECT #:E17-1600

PROJECT MANAGER: Gianna Aiezza

Soil Boring: SB-20

Depth (ft)	Sample Interval (ft)	Recovery (in)	PID Screen (ppm)	Description Include color, texture, structure, odor, etc.; Trace 0-10%, Little 10-20%, Some 20-35%, And 35-50%; D = dry, S = saturated, M = moist
1	0 – 2”	21”	0.0	Fill and gravel.
2	2” – 2			
3	2 – 4		0.0	Fill and gravel.
4				
5	4 - 6		0.0	Fill and gravel.
6		21”		
7	6 – 8		0.0	Fill and gravel.
8				
9	8 – 10		0.0	Fill and gravel.
10				
11	10 – 12	18”	0.0	Fill and gravel.
12				
13	12 – 14		0.0	Fill and gravel.
14				
15	14 – 16		0.0	Fill and gravel.
16		22”		
17	16 – 18		0.0	Fill and gravel.
18				
19	18 – 20		0.0	Fill and gravel.
20				
21	20 – 22	30”	0.0	Clay.
22				
23	22 – 24		0.0	Clay.
24				
25	24 – 26		0.0	Clay with small gravel layer.
26		46”		
27	26 – 28		0.0	Clay.
28				
29	28 – 30		0.0	Clay.
30				

Notes:

Performed By: Cascade

Groundwater Interface (▼):28ft

SB-20 BO was an offset soil boring.

Composite Sample Notes:

SB-20 A – TAL Metals.
SB-20 BO – TAL Metals.
SB-20 C – TAL Metals.

PID Headspace (H/S) Readings

Interval	PID H/S
0-2”	0.7
2”-2	0.7
2-4	0.7
4-6	0.7
6-8	0.7
8-10	0.7
10-12	0.6
12-14	0.6
14-16	0.4
16-18	0.4
18-20	0.4
20-22	0.4
22-24	0.4
24-26	0.4
26-28	0.4
28-30	0.4

Grab/Composite Samples

Interval:	0 - 2”
Sample Time:	8:37
Sample ID:	SB-20 A

Interval:	2” – 2’
Sample Time:	8:29
Sample ID:	SB-20 BO

Interval:	25’ – 30’
Sample Time:	8:27
Sample ID:	SB-20 C

DATE: 7/27/2017

LOCATION: 1 Osgood Avenue, Town of Green Island, NY

LOGGED BY: Rachel Farnum

Soil Boring Log

BORING LOCATION: SB-20

enviroSPEC ENGINEERING, PLLC
Envirospec Engineering, PLLC
349 Northern Blvd., Suite 3
Albany, NY 12204

CLIENT: South Island Apartments, LLC

PROJECT #:E17-1600

PROJECT MANAGER: Gianna Aiezza

Soil Boring: SB-21

Depth (ft)	Sample Interval (ft)	Recovery (in)	PID Screen (ppm)	Description Include color, texture, structure, odor, etc.; Trace 0-10%, Little 10-20%, Some 20-35%, And 35-50%; D = dry, S = saturated, M = moist
1 – 2	0 – 2” 2” – 2	~30”	NA	Soil, fill and gravel.
3 – 4	2 – 4		NA	Clay, fill, brick and ash.
5 – 6	4 - 6	~18”	NA	Clay, fill, brick and ash.
7 – 8	6 – 8		NA	Clay, wood, brick and ash.
9 – 10	8 – 10		NA	Clay, wood, brick and ash.
11 – 12	10 – 12	~12”	NA	Fill with a black layer. Petroleum odor. This layer has previously been sampled.
13 – 14	12 – 14		NA	Fill with a black layer. Petroleum odor. This layer has previously been sampled.
15 – 16	14 – 16	0	NA	NA
17 – 18	16 – 18		NA	NA
19 – 20	18 – 20		NA	NA
21 – 22	20 – 22	~12”	NA	Clay and gravel. Petroleum odor. This layer has previously been sampled.
23 – 24	22 – 24		NA	Clay and gravel. Petroleum odor. This layer has previously been sampled.
25 – 26	24 – 26	~12”	NA	Gravel, sand and clay. Petroleum odor.
27 – 28	26 – 28		NA	Gravel, sand and clay. Petroleum odor.
29 – 30	28 – 30		NA	Gravel, sand and clay. Petroleum odor.

Notes:

Performed By: Cascade

Groundwater Interface (▼):29ft

SB-21 BO was an offset soil boring.

PID measurements NA due to moisture causing inaccurate readings.

Composite Sample Notes:

SB-21 A – TAL metals.
SB-21 BO – TAL metals.
SB-21 C – TAL metals.

PID Headspace (H/S) Readings

Interval	PID H/S
0-2”	NA
2”-2	NA
2-4	NA
4-6	NA
6-8	NA
8-10	NA
10-12	NA
12-14	NA
14-16	NA
16-18	NA
18-20	NA
20-22	NA
22-24	NA
24-26	NA
26-28	NA
28-30	NA

Grab/Composite Samples

Interval:	0 – 2”
Sample Time:	2:05
Sample ID:	SB-21 A

Interval:	2” – 2’
Sample Time:	2:07
Sample ID:	SB-21 BO

Interval:	25’ – 30’
Sample Time:	2:30
Sample ID:	SB-21 C

DATE: 7/24/2017

LOCATION: 1 Osgood Avenue, Town of Green Island, NY

LOGGED BY: Charlotte Verhoef and Ross Carpinello

Soil Boring Log

BORING LOCATION: SB-21

enviroSPEC ENGINEERING, PLLC
Envirospec Engineering, PLLC
349 Northern Blvd., Suite 3
Albany, NY 12204

CLIENT: South Island Apartments, LLC

PROJECT #:E17-1600

PROJECT MANAGER: Gianna Aiezza

Soil Boring: SB-22

Depth (ft)	Sample Interval (ft)	Recovery (in)	PID Screen (ppm)	Description Include color, texture, structure, odor, etc.; Trace 0-10%, Little 10-20%, Some 20-35%, And 35-50%; D = dry, S = saturated, M = moist
1	0 – 2”	18”	0.0	Soil, gravel, and fill.
2	2” – 2			
3	2 – 4		0.0	Gravel, fill, and ash.
4				
5	4 - 6		0.0	Fill and ash.
6		12”		
7	6 – 8		0.0	Fill and brick.
8				
9	8 – 10		0.0	Ash and gravel.
10				
11	10 – 12	30”	0.0	Fill and ash.
12				
13	12 – 14		0.0	Gravel, clay, and rock.
14				
15	14 – 16		0.0	Silt and clay.
16		12”		
17	16 – 18		0.0	Rocks and soil.
18				
19	18 – 20		0.0	Soil.
20				
21	20 – 22	36”	0.9	Soil and gravel.
22				
23	22 – 24		12.2	Fill and Clay. Strong odor.
24				
25	24 – 26		59.0	Gravel. Strong odor.
26		36”		
27	26 – 28		4.1	Clay and gravel. Strong odor.
28				
29	28 – 30		17.3	Silt, Clay, and gravel. Strong odor.
30				

Notes:

Performed By: Cascade

Groundwater Interface (▼):29ft

Composite Sample Notes:

SB-22 A- TAL metals.
SB-22 BO – TAL metals.
SB-22 C – TAL metals.
SB-22 D– VOCs and TPH.

PID Headspace (H/S) Readings

Interval	PID H/S
0-2”	2.4
2”-2	1.5
2-4	1.5
4-6	1.5
6-8	1.3
8-10	1.3
10-12	2.0
12-14	2.0
14-16	1.5
16-18	2.9
18-20	2.9
20-22	4.0
22-24	192.8
24-26	134.6
26-28	134.6
28-30	5.8

Grab/Composite Samples

Interval:	0-2”
Sample Time:	12:35
Sample ID:	SB-22 A

Interval:	2” – 2’
Sample Time:	12:40
Sample ID:	SB-22 B

Interval:	25’ – 30’
Sample Time:	1:15
Sample ID:	SB-22 C

Interval:	25’-27’
Sample Time:	1:20
Sample ID:	SB-22 D

DATE: 7/26/2017

LOCATION: 1 Osgood Avenue, Town of Green Island, NY

LOGGED BY: Charlotte Verhoef

Soil Boring Log

BORING LOCATION: SB-22

enviroSPEC ENGINEERING, PLLC
Envirospec Engineering, PLLC
349 Northern Blvd., Suite 3
Albany, NY 12204

CLIENT: South Island Apartments, LLC

PROJECT #:E17-1600

PROJECT MANAGER: Gianna Aiezza

Soil Boring: SB-23 surface (offset)

Depth (ft)	Sample Interval (ft)	Recovery (in)	PID Screen (ppm)	Description Include color, texture, structure, odor, etc.; Trace 0-10%, Little 10-20%, Some 20-35%, And 35-50%; D = dry, S = saturated, M = moist
1–2	0 – 2” 2” – 2	NA	NA	Soil, roots, and wood.
3–4	2 – 4		NA	NA
5–6	4 - 6	NA	NA	NA
7–8	6 – 8		NA	NA
9–10	8 – 10		NA	NA
11–12	10 – 12	NA	NA	NA
13–14	12 – 14		NA	NA
15–16	14 – 16		NA	NA
17–18	16 – 18	NA	NA	NA
19–20	18 – 20		NA	NA
21–22	20 – 22	NA	NA	NA
23–24	22 – 24		NA	NA
25–26	24 – 26	NA	NA	NA
27–28	26 – 28		NA	NA
29–30	28 – 30		NA	NA

Notes:

Performed By: Envirospec

Groundwater Interface (▼):NA

Composite Sample Notes:

SB-23 AO – TAL metals.

PID Headspace (H/S) Readings

Interval	PID H/S
0-2”	NA
2”-2	NA
2-4	NA
4-6	NA
6-8	NA
8-10	NA
10-12	NA
12-14	NA
14-16	NA
16-18	NA
18-20	NA
20-22	NA
22-24	NA
24-26	NA
26-28	NA
28-30	NA

Grab/Composite Samples

Interval:	0-2”
Sample Time:	7:25
Sample ID:	SB-23 AO

Interval:	NA
Sample Time:	NA
Sample ID:	NA

Interval:	NA
Sample Time:	NA
Sample ID:	NA

Interval:	NA
Sample Time:	NA
Sample ID:	NA

DATE: 8/8/2017

LOCATION: 1 Osgood Avenue, Town of Green Island, NY

LOGGED BY: Rachel Farnum

Soil Boring Log

BORING LOCATION: SB-23

enviroSPEC ENGINEERING, PLLC

Envirospec Engineering, PLLC
349 Northern Blvd., Suite 3
Albany, NY 12204

CLIENT: South Island Apartments, LLC

PROJECT #:E17-1600

PROJECT MANAGER: Gianna Aiezza

Soil Boring: SB-23

Depth (ft)	Sample Interval (ft)	Recovery (in)	PID Screen (ppm)	Description Include color, texture, structure, odor, etc.; Trace 0-10%, Little 10-20%, Some 20-35%, And 35-50%; D = dry, S = saturated, M = moist
1	0 – 2”	33”	0.0	Fill, rocks and gravel.
2	2” – 2			
3	2 – 4		0.0	Fill, rocks and gravel.
4				
5	4 - 6		0.0	Fill, some clay, rocks and gravel.
6		13”		
7	6 – 8		0.0	Fill with some black material.
8				
9	8 – 10		0.0	Fill and gravel.
10				
11	10 – 12	23”	0.3	Fill and gravel.
12				
13	12 – 14		0.3	Fill and gravel.
14				
15	14 – 16		0.0	Fill and gravel.
16		18”		
17	16 – 18		0.0	Fill and gravel.
18				
19	18 – 20		0.0	Fill and gravel.
20				
21	20 – 22	18”	4.7	Fill.
22				
23	22 – 24		4.7	Fill.
24				
25	24 – 26		4.7	Fill.
26		20”		
27	26 – 28		85.0	Fill, lots of rocks and gravel.
28				
29	28 – 30		85.0	Fill, lots of rocks and gravel.
30				

Notes:

Performed By: Cascade

Groundwater Interface (▼):27ft

SB-23 BO was an offset soil boring.

Composite Sample Notes:

SB-7 BO – Full Analysis.

SB-7 C – TAL metals, VOCs, SVOCs and TPH (not enough recovery to do Full Analysis).

PID Headspace (H/S) Readings

Interval	PID H/S
0-2”	0.5
2”-2	0.5
2-4	0.5
4-6	1.4
6-8	1.4
8-10	1.4
10-12	1.3
12-14	1.3
14-16	2.3
16-18	2.3
18-20	2.3
20-22	40.0
22-24	40.0
24-26	150.0
26-28	150.0
28-30	150.0

Grab/Composite Samples

Interval:	NA
Sample Time:	NA
Sample ID:	NA

Interval:	2” – 2’
Sample Time:	1:14
Sample ID:	SB-23 BO

Interval:	25’ – 30’
Sample Time:	1:40
Sample ID:	SB-23 C

DATE: 7/27/2017

LOCATION: 1 Osgood Avenue, Town of Green Island, NY

LOGGED BY: Rachel Farnum

Soil Boring Log

BORING LOCATION: SB-23

enviroSPEC ENGINEERING, PLLC

Envirospec Engineering, PLLC
349 Northern Blvd., Suite 3
Albany, NY 12204

CLIENT: South Island Apartments, LLC

PROJECT #:E17-1600

PROJECT MANAGER: Gianna Aiezza

Soil Boring: SB-24 surface (offset)

Depth (ft)	Sample Interval (ft)	Recovery (in)	PID Screen (ppm)	Description Include color, texture, structure, odor, etc.; Trace 0-10%, Little 10-20%, Some 20-35%, And 35-50%; D = dry, S = saturated, M = moist
1	0 – 2”	NA	NA	Soil, rocks and roots.
2	2” – 2			
3	2 – 4		NA	NA
4				
5	4 - 6		NA	NA
6		NA		
7	6 – 8		NA	NA
8				
9	8 – 10		NA	NA
10				
11	10 – 12	NA	NA	NA
12				
13	12 – 14		NA	NA
14				
15	14 – 16		NA	NA
16		NA		
17	16 – 18		NA	NA
18				
19	18 – 20		NA	NA
20				
21	20 – 22	NA	NA	NA
22				
23	22 – 24		NA	NA
24				
25	24 – 26		NA	NA
26		NA		
27	26 – 28		NA	NA
28				
29	28 – 30		NA	NA
30				

Notes:

Performed By: Envirospec

Groundwater Interface (▼):NA

Composite Sample Notes:

SB-24 AO – Full analysis, No TAL metal.

PID Headspace (H/S) Readings

Interval	PID H/S
0-2”	0.3
2”-2	NA
2-4	NA
4-6	NA
6-8	NA
8-10	NA
10-12	NA
12-14	NA
14-16	NA
16-18	NA
18-20	NA
20-22	NA
22-24	NA
24-26	NA
26-28	NA
28-30	NA

Grab/Composite Samples

Interval:	0-2”
Sample Time:	8:32
Sample ID:	SB-24 AO

Interval:	NA
Sample Time:	NA
Sample ID:	NA

Interval:	NA
Sample Time:	NA
Sample ID:	NA

Interval:	NA
Sample Time:	NA
Sample ID:	NA

DATE: 8/8/2017

LOCATION: 1 Osgood Avenue, Town of Green Island, NY

LOGGED BY: Rachel Farnum

Soil Boring Log

BORING LOCATION: SB-24

enviroSPEC ENGINEERING, PLLC

Envirospec Engineering, PLLC
349 Northern Blvd., Suite 3
Albany, NY 12204

CLIENT: South Island Apartments, LLC

PROJECT #:E17-1600

PROJECT MANAGER: Gianna Aiezza

Soil Boring: SB-24

Depth (ft)	Sample Interval (ft)	Recovery (in)	PID Screen (ppm)	Description Include color, texture, structure, odor, etc.; Trace 0-10%, Little 10-20%, Some 20-35%, And 35-50%; D = dry, S = saturated, M = moist
1 – 2	0 – 2” 2” – 2	~18”	0.0	Soil.
3 – 4	2 – 4		0.0	Soil.
5 – 6	4 - 6	~18”	0.0	Soil.
7 – 8	6 – 8		0.0	Brick, fill and sand.
9 – 10	8 – 10		0.0	Brick, fill and sand.
11 – 12	10 – 12	<1”	0.0	Soil, gravel and brick.
13 – 14	12 – 14		0.0	Soil, gravel and brick.
15 – 16	14 – 16	~24”	0.0	Soil, gravel and brick.
17 – 18	16 – 18		0.0	Soil, gravel, sand and brick.
19 – 20	18 – 20		0.0	Soil, gravel, sand and brick.
21 – 22	20 – 22	~60”	0.0	Soil, gravel, sand, clay and brick.
23 – 24	22 – 24		0.0	Soil, gravel, sand, clay and brick.
25 – 26	24 – 26	~60”	0.0	Soil, gravel, sand, clay and brick.
27 – 28	26 – 28		0.2	Fill and brick. At 28-29 feet white granular powder.
29 – 30	28 – 30		0.0	Fill and brick.

Notes:

Performed By: Cascade

Groundwater Interface (▼):29ft

SB-24 BO was an offset soil boring.
A Duplicate sample was taken from SB-24 A at 9:00 to be analyzed for TAL Metals.

Composite Sample Notes:

SB-24 A – TAL Metals.
SB-24 BO – TAL Metals.
SB-24 C – TAL Metals.

PID Headspace (H/S) Readings

Interval	PID H/S
0-2”	2.4
2”-2	2.0
2-4	2..0
4-6	0.8
6-8	0.8
8-10	0.8
10-12	1.2
12-14	1.2
14-16	1.4
16-18	1.4
18-20	1.2
20-22	0.0
22-24	0.0
24-26	1.8
26-28	0.2
28-30	0.6

Grab/Composite Samples

Interval:	0 – 2”
Sample Time:	8:50
Sample ID:	SB-24 A

Interval:	2” – 2’
Sample Time:	8:55
Sample ID:	SB-24 BO

Interval:	25’ – 30’
Sample Time:	9:00
Sample ID:	SB-24 C

DATE: 7/24/2017

LOCATION: 1 Osgood Avenue, Town of Green Island, NY

LOGGED BY: Charlotte Verhoef and Ross Carpinello

Soil Boring Log

BORING LOCATION: SB-24

enviroSPEC ENGINEERING, PLLC
Envirospec Engineering, PLLC
349 Northern Blvd., Suite 3
Albany, NY 12204

CLIENT: South Island Apartments, LLC

PROJECT #:E17-1600

PROJECT MANAGER: Gianna Aiezza

Soil Boring: SB-25

Depth (ft)	Sample Interval (ft)	Recovery (in)	PID Screen (ppm)	Description Include color, texture, structure, odor, etc.; Trace 0-10%, Little 10-20%, Some 20-35%, And 35-50%; D = dry, S = saturated, M = moist
1–2	0 – 2” 2” – 2	~36”	NA	Fill, ash and gravel. No odor or visual petroleum.
3–4	2 – 4		NA	Fill, ash and gravel. No odor or visual petroleum.
5–6	4 - 6		NA	Fill, ash and gravel. No odor or visual petroleum.
7–8	6 – 8	~24”	NA	Fill, ash and gravel. Black layer at 7-9 feet. Odor present but no visual petroleum.
9–10	8 – 10		NA	Fill, ash and gravel. Black layer at 7-9 feet. Odor present but no visual petroleum.
11–12	10 – 12	~24”	NA	Ash, gravel and shells. Odor present but no visual petroleum.
13–14	12 – 14		NA	Ash, gravel and shells. Odor present but no visual petroleum.
15–16	14 – 16		NA	Ash, gravel and shells. Odor present but no visual petroleum.
17–18	16 – 18	~12”	NA	Sand, ash and brown/black layer. Odor present but no visual petroleum.
19–20	18 – 20		NA	Sand, ash and brown/black layer. Odor present but no visual petroleum.
21–22	20 – 22	~24”	NA	Sand, gravel and wood. No odor or visual petroleum.
23–24	22 – 24		NA	Sand, gravel and wood. No odor or visual petroleum.
25–26	24 – 26	~48”	NA	Sand and gravel. No odor or visual petroleum.
27–28	26 – 28		NA	Sand and gravel. No odor or visual petroleum.
29–30	28 – 30		NA	Sand and gravel. No odor or visual petroleum.

Notes:

Performed By: Cascade

Groundwater Interface (▼):30ft

SB-25 BO was an offset soil boring.

PID measurements NA due to moisture causing inaccurate readings.

Composite Sample Notes:

SB-25 BO – TAL metals.

SB-25 C – TAL metals.

PID Headspace (H/S) Readings

Interval	PID H/S
0-2”	NA
2”-2	NA
2-4	NA
4-6	NA
6-8	NA
8-10	NA
10-12	NA
12-14	NA
14-16	NA
16-18	NA
18-20	NA
20-22	NA
22-24	NA
24-26	NA
26-28	NA
28-30	NA

Grab/Composite Samples

Interval:	NA
Sample Time:	NA
Sample ID:	NA

Interval:	2” – 2’
Sample Time:	9:45
Sample ID:	SB-25 BO

Interval:	25’ – 30’
Sample Time:	10:10
Sample ID:	SB-25 C

DATE: 7/25/2017

LOCATION: 1 Osgood Avenue, Town of Green Island, NY

LOGGED BY: Charlotte Verhoef

Soil Boring Log

BORING LOCATION: SB-25

enviroSPEC ENGINEERING, PLLC

Envirospec Engineering, PLLC
349 Northern Blvd., Suite 3
Albany, NY 12204

CLIENT: South Island Apartments, LLC

PROJECT #:E17-1600

PROJECT MANAGER: Gianna Aiezza

Soil Boring: SB-26

Depth (ft)	Sample Interval (ft)	Recovery (in)	PID Screen (ppm)	Description Include color, texture, structure, odor, etc.; Trace 0-10%, Little 10-20%, Some 20-35%, And 35-50%; D = dry, S = saturated, M = moist
1 – 2	0 – 2” 2” – 2	~30”	NA	Fill, brick, soil, ash and gravel. No odor or visual petroleum.
3 – 4	2 – 4		NA	Fill, brick, soil, ash and gravel. No odor or visual petroleum.
5 – 6	4 - 6		NA	Fill, brick, soil, ash and gravel. No odor or visual petroleum.
7 – 8	6 – 8	~18”	NA	Fill, brick, soil, ash and gravel. No odor or visual petroleum.
9 – 10	8 – 10		NA	Fill, brick, soil, ash and gravel. No odor or visual petroleum.
11 – 12	10 – 12	~18”	NA	Ash, gravel, brick and clay. No odor or visual petroleum.
13 – 14	12 – 14		NA	Ash, gravel, brick and clay. No odor or visual petroleum.
15 – 16	14 – 16		NA	Ash, gravel, brick and clay. No odor or visual petroleum.
17 – 18	16 – 18	~18”	NA	Ash, gravel and gravel. No odor or visual petroleum.
19 – 20	18 – 20		NA	Ash, gravel and gravel. No odor or visual petroleum.
21 – 22	20 – 22	~30”	NA	Gravel and clay. No odor or visual petroleum.
23 – 24	22 – 24		NA	Gravel and clay. No odor or visual petroleum.
25 – 26	24 – 26		NA	Gravel and clay. No odor or visual petroleum.
27 – 28	26 – 28	~48”	NA	Gravel and clay. No odor or visual petroleum.
29 – 30	28 – 30		NA	Gravel and clay. No odor or visual petroleum.

Notes:

Performed By: Cascade

Groundwater Interface (▼):29ft

At SB-26 A MS/MSD was taken at 8:45.
SB-26 BO was an offset soil boring.

PID measurements NA due to moisture causing inaccurate readings.

Composite Sample Notes:

SB-26 A – Full Analysis.
SB-26 BO – Full Analysis.
SB-26 C – Full Analysis.

PID Headspace (H/S) Readings

Interval	PID H/S
0-2”	NA
2”-2	NA
2-4	NA
4-6	NA
6-8	NA
8-10	NA
10-12	NA
12-14	NA
14-16	NA
16-18	NA
18-20	NA
20-22	NA
22-24	NA
24-26	NA
26-28	NA
28-30	NA

Grab/Composite Samples

Interval:	0-2”
Sample Time:	8:00
Sample ID:	SB-26A

Interval:	2” – 2’
Sample Time:	8:10
Sample ID:	SB-26 BO

Interval:	28’ – 30’
Sample Time:	8:25
Sample ID:	SB-26 C

DATE: 7/25/2017

LOCATION: 1 Osgood Avenue, Town of Green Island, NY

LOGGED BY: Charlotte Verhoef

Soil Boring Log

BORING LOCATION: SB-26

enviroSPEC ENGINEERING, PLLC
Envirospec Engineering, PLLC
349 Northern Blvd., Suite 3
Albany, NY 12204

CLIENT: South Island Apartments, LLC

PROJECT #:E17-1600

PROJECT MANAGER: Gianna Aiezza

Soil Boring: SB-27

Depth (ft)	Sample Interval (ft)	Recovery (in)	PID Screen (ppm)	Description Include color, texture, structure, odor, etc.; Trace 0-10%, Little 10-20%, Some 20-35%, And 35-50%; D = dry, S = saturated, M = moist
1	0 – 2”	31”	0.0	Gavel and soil.
2	2” – 2			
3	2 – 4		0.0	Fill, clay, and white rocks.
4				
5	4 - 6		0.0	Gravel, sand, and black/ash layer.
6		23”		
7	6 – 8		0.0	Gravel, soil, and fill. Black layer from 7’ - 9’
8				
9	8 – 10		0.0	Gravel.
10				
11	10 – 12	26”	1.8	Black layer.
12				
13	12 – 14		0.7	Clay and rocks.
14				
15	14 – 16		0.6	Fill and clay.
16		12”		
17	16 – 18		0.2	Clay and gravel.
18				
19	18 – 20		0.4	Clay and white rocks.
20				
21	20 – 22	18”	0.8	Gravel and clay.
22				
23	22 – 24		0.8	Gravel and clay.
24				
25	24 – 26		NA	NA
26		NA		
27	26 – 28		NA	NA
28				
29	28 – 30		NA	NA
30				

Notes:

Performed By: Cascade

Groundwater Interface (▼):25ft

SB-27 DO and SB-27 DO2 were offset soil borings.

Composite Sample Notes:

SB-27 B – TAL metals.
SB-27 C – TAL metals.
SB-27 DO- VOCs and TPH
SB-27 DO2- VOCs and THP

PID Headspace (H/S) Readings

Interval	PID H/S
0-2”	0.0
2”-2	0.0
2-4	1200
4-6	1200
6-8	130.0
8-10	130.0
10-12	70.0
12-14	70.0
14-16	122.0
16-18	122.0
18-20	1071
20-22	1071
22-24	147.0
24-26	147.0
26-28	NA
28-30	NA

Grab/Composite Samples

Interval:	2” – 2’
Sample Time:	8:30
Sample ID:	SB-27 B

Interval:	26’ – 27’
Sample Time:	88:32
Sample ID:	SB-27 C

Interval:	4’ - 5’
Sample Time:	8:35
Sample ID:	SB-27 DO

Interval:	18’ - 20’
Sample Time:	9:11
Sample ID:	SB-27 DO2

DATE: 7/21/2017

LOCATION: 1 Osgood Avenue, Town of Green Island, NY

LOGGED BY: Charlotte Verhoef

Soil Boring Log

BORING LOCATION: SB-27

enviroSPEC ENGINEERING, PLLC
Envirospec Engineering, PLLC
349 Northern Blvd., Suite 3
Albany, NY 12204

CLIENT: South Island Apartments, LLC

PROJECT #:E17-1600

PROJECT MANAGER: Gianna Aiezza

Soil Boring: SB-28

Depth (ft)	Sample Interval (ft)	Recovery (in)	PID Screen (ppm)	Description Include color, texture, structure, odor, etc.; Trace 0-10%, Little 10-20%, Some 20-35%, And 35-50%; D = dry, S = saturated, M = moist
1–2	0 – 2” 2” – 2	35”	0.0	Fill.
3–4	2 – 4		0.0	Fill.
5–6	4 - 6	32”	0.0	Fill.
7–8	6 – 8		8.5	Fill and brick.
9–10	8 – 10		0.3	Fill and brick.
11–12	10 – 12	20”	4.6	Brick and clay. Black layer with strong odor.
13–14	12 – 14		69.8	Brick and clay. Black layer with strong odor.
15–16	14 – 16	31”	57.6	Brick and clay. Black layer with strong odor.
17–18	16 – 18		57.6	Brick and clay. Black layer with strong odor.
19–20	18 – 20		57.6	Brick and clay. Black layer with strong odor.
21–22	20 – 22	24”	127.6	Clay.
23–24	22 – 24		0.3	Clay.
25–26	24 – 26	48”	2.9	Clay.
27–28	26 – 28		2.9	Clay.
29–30	28 – 30		2.9	Clay.

Notes:

Performed By: Cascade

Groundwater Interface (▼):29ft

SB-28 BO2 was an additional offset soil boring.

Composite Sample Notes:

SB-28 BO – Full analysis.

SB-28 C – Full analysis.

PID Headspace (H/S) Readings

Interval	PID H/S
0-2”	0.1
2”-2	0.1
2-4	0.1
4-6	3.9
6-8	3.9
8-10	3.9
10-12	23.2
12-14	23.2
14-16	58.9
16-18	58.9
18-20	257
20-22	257
22-24	0.1
24-26	0.1
26-28	9.0
28-30	9.0

Grab/Composite Samples

Interval:	NA
Sample Time:	NA
Sample ID:	NA

Interval:	2” – 2’
Sample Time:	7:43
Sample ID:	SB-28 BO

Interval:	25’ – 30’
Sample Time:	8:07
Sample ID:	SB-28 C

DATE: 7/28/2017

LOCATION: 1 Osgood Avenue, Town of Green Island, NY

LOGGED BY: Rachel Farnum

Soil Boring Log

BORING LOCATION: SB-28

enviroSPEC ENGINEERING, PLLC

Envirospec Engineering, PLLC
349 Northern Blvd., Suite 3
Albany, NY 12204

CLIENT: South Island Apartments, LLC

PROJECT #:E17-1600

PROJECT MANAGER: Gianna Aiezza

Soil Boring: SB-29

Depth (ft)	Sample Interval (ft)	Recovery (in)	PID Screen (ppm)	Description Include color, texture, structure, odor, etc.; Trace 0-10%, Little 10-20%, Some 20-35%, And 35-50%; D = dry, S = saturated, M = moist
1	0 – 2”	36”	0.3	Sand, gravel and fill.
2	2” – 2			
3	2 – 4		0.3	Sand, gravel and fill.
4				
5	4 - 6		0.3	Clay.
6		12”		
7	6 – 8		0.3	Fill and gravel.
8				
9	8 – 10		0.3	Fill and gravel.
10				
11	10 – 12	<1”	NA	Fill and gravel.
12				
13	12 – 14		NA	Fill and gravel.
14				
15	14 – 16		0.1	Fill and gravel.
16		13”		
17	16 – 18		0.1	Fill and gravel.
18				
19	18 – 20		0.1	Fill and gravel.
20				
21	20 – 22	16”	0.1	Fill and clay.
22				
23	22 – 24		0.1	Fill and clay.
24				
25	24 – 26		0.1	Clay.
26		60”		
27	26 – 28		0.1	Clay.
28				
29	28 – 30		0.1	Clay.
30				

Notes:

Performed By: Cascade

Groundwater Interface (▼):29ft

SB-29 BO was an offset soil boring.

Composite Sample Notes:

SB-29 BO – Full analysis (Duplicate taken at 9:50 – SB-29 BO Duplicate).

SB-29 C – Full analysis

PID Headspace (H/S) Readings

Interval	PID H/S
0-2”	0.8
2”-2	0.8
2-4	0.8
4-6	4.1
6-8	4.1
8-10	4.1
10-12	4.2
12-14	4.2
14-16	4.2
16-18	1.9
18-20	1.9
20-22	1.5
22-24	1.5
24-26	0.8
26-28	0.8
28-30	0.8

Grab/Composite Samples

Interval:	NA
Sample Time:	NA
Sample ID:	NA

Interval:	2” – 2’
Sample Time:	9:40
Sample ID:	SB-29 BO

Interval:	25’ – 30’
Sample Time:	10:10
Sample ID:	SB-29 C

DATE: 7/28/2017

LOCATION: 1 Osgood Avenue, Town of Green Island, NY

LOGGED BY: Rachel Farnum

Soil Boring Log

BORING LOCATION: SB-29

enviroSPEC ENGINEERING, PLLC

Envirospec Engineering, PLLC
349 Northern Blvd., Suite 3
Albany, NY 12204

CLIENT: South Island Apartments, LLC

PROJECT #:E17-1600

PROJECT MANAGER: Gianna Aiezza

Soil Boring: SB-30

Depth (ft)	Sample Interval (ft)	Recovery (in)	PID Screen (ppm)	Description Include color, texture, structure, odor, etc.; Trace 0-10%, Little 10-20%, Some 20-35%, And 35-50%; D = dry, S = saturated, M = moist
1	0 – 2”	18”	0.0	Rocks and ash.
2	2” – 2			
3	2 – 4		0.0	Sand.
4				
5	4 - 6	12”	0.0	Brick.
6				
7	6 – 8		0.0	Fill and Rocks.
8				
9	8 – 10		0.0	Clay.
10				
11	10 – 12	30”	25.0	Brick. Strong odor.
12				
13	12 – 14		29.0	Clay. Strong odor.
14				
15	14 – 16	12”	8.5	Clay. Strong odor.
16				
17	16 – 18		0.1	Brick and clay. Strong odor.
18				
19	18 – 20		86.2	Clay and silt. Strong odor.
20				
21	20 – 22	36”	512.0	Brick and fill. Strong odor.
22				
23	22 – 24		320.0	Clay. Strong odor.
24				
25	24 – 26	36”	437.0	Clay. Strong odor.
26				
27	26 – 28		157.0	Silt and clay. Strong odor.
28				
29	28 – 30		22.6	Clay. Strong odor.
30				

Notes:

Performed By: Cascade

Groundwater Interface (▼):28ft

Composite Sample Notes:

SB-30 B – TAL metals.
SB-30 C – TAL metals.
SB-30 D– VOCs and TPH.

PID Headspace (H/S) Readings

Interval	PID H/S
0-2”	0.3
2”-2	0.3
2-4	0.3
4-6	0.3
6-8	0.3
8-10	0.3
10-12	0.4
12-14	45.9
14-16	1.9
16-18	1250
18-20	989.6
20-22	322.1
22-24	989.6
24-26	330.1
26-28	330.1
28-30	93.6

Grab/Composite Samples

Interval:	NA
Sample Time:	NA
Sample ID:	NA

Interval:	2” – 2’
Sample Time:	7:50
Sample ID:	SB-30 B

Interval:	25’ – 30’
Sample Time:	8:20
Sample ID:	SB-30 C

Interval:	18’-20’
Sample Time:	8:30
Sample ID:	SB-30 D

DATE: 7/26/2017

LOCATION: 1 Osgood Avenue, Town of Green Island, NY

LOGGED BY: Charlotte Verhoef

Soil Boring Log

BORING LOCATION: SB-30

enviroSPEC ENGINEERING, PLLC
Envirospec Engineering, PLLC
349 Northern Blvd., Suite 3
Albany, NY 12204

CLIENT: South Island Apartments, LLC

PROJECT #:E17-1600

PROJECT MANAGER: Gianna Aiezza

Soil Boring: SB-31

Depth (ft)	Sample Interval (ft)	Recovery (in)	PID Screen (ppm)	Description Include color, texture, structure, odor, etc.; Trace 0-10%, Little 10-20%, Some 20-35%, And 35-50%; D = dry, S = saturated, M = moist
1	0 – 2”	~6”	0.0	Brick, clay and ash.
2	2” – 2			
3	2 – 4		0.0	Brick, clay and ash.
4				
5	4 - 6		0.0	Brick, clay and ash.
6		~10”		
7	6 – 8		0.0	Brick, clay and ash.
8				
9	8 – 10		0.0	Brick, clay and ash.
10				
11	10 – 12	~24”	0.0	Brick, clay and ash.
12				
13	12 – 14		0.0	Brick, clay and ash.
14				
15	14 – 16		0.0	Brick, clay and ash.
16		~18”		
17	16 – 18		0.0	Brick, clay and ash.
18				
19	18 – 20		1.8	Brick, clay and ash.
20				
21	20 – 22	~18”	0.0	Clay.
22				
23	22 – 24		0.0	Clay.
24				
25	24 – 26		130.0	Clay.
26		~48”		
27	26 – 28		86.8	Clay.
28				
29	28 – 30		36.5	Clay.
30				
31	30 - 32		0.3	Clay and gravel.
32				
33	33 - 35	~48”	0.3	Clay and gravel.
34				
35				

Soil Boring: SB-31 (continued)

Notes:
Performed By: Cascade
Groundwater Interface (▼):33ft

Duplicate was taken from SB-31 C at 12:40.

Composite Sample Notes:

SB-31 B – Full analysis (no VOCs and TPH).
SB-31 C – TAL Metals.
SB-31 D – VOCs and TPH.

PID Headspace (H/S) Readings

Interval	PID H/S
0-2”	45.0
2”-2	45.0
2-4	45.0
4-6	26.4
6-8	26.4
8-10	26.4
10-12	14.6
12-14	14.6
14-16	14.6
16-18	4922.0
18-20	4922.0
20-22	452.0
22-24	452.0
24-26	90.1
26-28	90.1
28-30	48.5
30-32	48.5
33-35	48.5

Grab/Composite Samples

Interval:	NA
Sample Time:	NA
Sample ID:	NA

Interval:	1’ – 3’
Sample Time:	11:10
Sample ID:	SB-31 B

Interval:	30’ – 35’
Sample Time:	12:35
Sample ID:	SB-31 C

Interval:	19’-20’
Sample Time:	12:05
Sample ID:	SB-31 D

DATE: 7/21/2017

LOCATION: 1 Osgood Avenue, Town of Green Island, NY

LOGGED BY: Charlotte Verhoef and Ross Carpinello

Soil Boring Log

BORING LOCATION: SB-31

enviroSPEC ENGINEERING, PLLC
Envirospec Engineering, PLLC
349 Northern Blvd., Suite 3
Albany, NY 12204

CLIENT: South Island Apartments, LLC

PROJECT #:E17-1600

PROJECT MANAGER: Gianna Aiezza

Soil Boring: SB-32

Depth (ft)	Sample Interval (ft)	Recovery (in)	PID Screen (ppm)	Description Include color, texture, structure, odor, etc.; Trace 0-10%, Little 10-20%, Some 20-35%, And 35-50%; D = dry, S = saturated, M = moist
1 – 2	0 – 2” 2” – 2	18”	0.0	Fill, sand, glass, and shells.
3 – 4	2 – 4		0.0	Soil and brick.
5 – 6	4 - 6	30”	0.0	Soil and brick.
7 – 8	6 – 8		0.0	Clay.
9 – 10	8 – 10		0.0	Clay.
11 – 12	10 – 12	24”	1.8	Clay, brick, and gravel.
13 – 14	12 – 14		0.7	Clay, brick, and gravel.
15 – 16	14 – 16	0”	0.6	Clay, brick, and gravel.
17 – 18	16 – 18			No Recovery.
19 – 20	18 – 20			No Recovery.
21 – 22	20 – 22	>12”		Gravel and clay.
23 – 24	22 – 24			Gravel and clay.
25 – 26	24 – 26	60”		Clay.
27 – 28	26 – 28			Clay.
29 – 30	28 – 30			Clay.

Notes:

Performed By: Cascade

Groundwater Interface (▼):25ft

Duplicate sample was taken at SB-32 A on 2:30 for PCB/PEST and SPLP RCRA metals.

Composite Sample Notes:

SB-32 A- Full analysis.
SB-32 B – Full analysis.
SB-32 C – Full analysis.

PID Headspace (H/S) Readings

Interval	PID H/S
0-2”	67.6
2”-2	3.5
2-4	3.5
4-6	1.7
6-8	1.7
8-10	1.7
10-12	10.9
12-14	1.9
14-16	10.9
16-18	NA
18-20	NA
20-22	11.5
22-24	11.5
24-26	11.5
26-28	30.5
28-30	30.5

Grab/Composite Samples

Interval:	0 – 2”
Sample Time:	2:20
Sample ID:	SB-32 A

Interval:	2” – 2’
Sample Time:	1:32
Sample ID:	SB-32 B

Interval:	25’ - 30’
Sample Time:	1:40
Sample ID:	SB-32 C

DATE: 7/21/2017

LOCATION: 1 Osgood Avenue, Town of Green Island, NY

LOGGED BY: Charlotte Verhoef

Soil Boring Log

BORING LOCATION: SB-32

enviroSPEC ENGINEERING, PLLC
Envirospec Engineering, PLLC
349 Northern Blvd., Suite 3
Albany, NY 12204

CLIENT: South Island Apartments, LLC

PROJECT #:E17-1600

PROJECT MANAGER: Gianna Aiezza

Soil Boring: SB-33 surface (offset)

Depth (ft)	Sample Interval (ft)	Recovery (in)	PID Screen (ppm)	Description Include color, texture, structure, odor, etc.; Trace 0-10%, Little 10-20%, Some 20-35%, And 35-50%; D = dry, S = saturated, M = moist
1	0 – 2”	NA	NA	Soil, roots, and some rocks.
2	2” – 2			
3	2 – 4		NA	NA
4				
5	4 - 6		NA	NA
6		NA		
7	6 – 8		NA	NA
8				
9	8 – 10		NA	NA
10				
11	10 – 12	NA	NA	NA
12				
13	12 – 14		NA	NA
14				
15	14 – 16		NA	NA
16		NA		
17	16 – 18		NA	NA
18				
19	18 – 20		NA	NA
20				
21	20 – 22	NA	NA	NA
22				
23	22 – 24		NA	NA
24				
25	24 – 26		NA	NA
26		NA		
27	26 – 28		NA	NA
28				
29	28 – 30		NA	NA
30				

Notes:

Performed By: Envirospec

Groundwater Interface (▼):NA

Composite Sample Notes:

SB-33 AO – TAL metals.

PID Headspace (H/S) Readings

Interval	PID H/S
0-2”	NA
2”-2	NA
2-4	NA
4-6	NA
6-8	NA
8-10	NA
10-12	NA
12-14	NA
14-16	NA
16-18	NA
18-20	NA
20-22	NA
22-24	NA
24-26	NA
26-28	NA
28-30	NA

Grab/Composite Samples

Interval:	0-2”
Sample Time:	7:34
Sample ID:	SB-33 AO

Interval:	NA
Sample Time:	NA
Sample ID:	NA

Interval:	NA
Sample Time:	NA
Sample ID:	NA

Interval:	NA
Sample Time:	NA
Sample ID:	NA

DATE: 8/8/2017

LOCATION: 1 Osgood Avenue, Town of Green Island, NY

LOGGED BY: Rachel Farnum

Soil Boring Log

BORING LOCATION: SB-33

enviroSPEC ENGINEERING, PLLC

Envirospec Engineering, PLLC
349 Northern Blvd., Suite 3
Albany, NY 12204

CLIENT: South Island Apartments, LLC

PROJECT #:E17-1600

PROJECT MANAGER: Gianna Aiezza

Soil Boring: SB-33

Depth (ft)	Sample Interval (ft)	Recovery (in)	PID Screen (ppm)	Description Include color, texture, structure, odor, etc.; Trace 0-10%, Little 10-20%, Some 20-35%, And 35-50%; D = dry, S = saturated, M = moist
1	0 – 2”	34”	0.0	Fill, rocks and bricks.
2	2” – 2			
3	2 – 4		0.0	Fill, rocks and bricks.
4				
5	4 - 6		0.0	Fill, rocks and bricks.
6		11”		
7	6 – 8		0.0	Fill and gravel.
8				
9	8 – 10		0.0	Fill and gravel.
10				
11	10 – 12	27”	0.5	Fill, some clay and brick.
12				
13	12 – 14		0.5	Fill, some clay and brick.
14				
15	14 – 16		0.0	Fill and clay.
16		29”		
17	16 – 18		0.0	Fill and clay.
18				
19	18 – 20		0.0	Fill and clay.
20				
21	20 – 22	29”	0.0	Fill and clay.
22				
23	22 – 24		0.0	Fill and clay.
24				
25	24 – 26		0.0	Fill and clay.
26		36”		
27	26 – 28		0.1	Sand and clay.
28				
29	28 – 30		0.1	Sand and clay.
30				

Notes:

Performed By: Cascade

Groundwater Interface (▼):27ft

SB-33 BO was an offset soil boring.

SB-33 D was sampled at 2:47 from 25’-30’ interval.

Composite Sample Notes:

SB-33 BO – TAL metals.

SB-33 C – TAL metals.

SB-33 D – PCBs, Pesticides and SPLP.

PID Headspace (H/S) Readings

Interval	PID H/S
0-2”	1.4
2”-2	1.4
2-4	1.4
4-6	0.7
6-8	0.7
8-10	0.7
10-12	0.9
12-14	0.9
14-16	0.4
16-18	0.4
18-20	0.4
20-22	0.4
22-24	0.4
24-26	0.4
26-28	0.3
28-30	0.3

Grab/Composite Samples

Interval:	NA
Sample Time:	NA
Sample ID:	NA

Interval:	2” – 2’
Sample Time:	2:13
Sample ID:	SB-33 BO

Interval:	25’ – 30’
Sample Time:	2:40
Sample ID:	SB-33 C

Interval:	25’-30’
Sample Time:	2:47
Sample ID:	SB-33 D

DATE: 7/27/2017

LOCATION: 1 Osgood Avenue, Town of Green Island, NY

LOGGED BY: Rachel Farnum

Soil Boring Log

BORING LOCATION: SB-33

enviroSPEC ENGINEERING, PLLC

Envirospec Engineering, PLLC
349 Northern Blvd., Suite 3
Albany, NY 12204

CLIENT: South Island Apartments, LLC

PROJECT #:E17-1600

PROJECT MANAGER: Gianna Aiezza

Soil Boring: SB-34

Depth (ft)	Sample Interval (ft)	Recovery (in)	PID Screen (ppm)	Description Include color, texture, structure, odor, etc.; Trace 0-10%, Little 10-20%, Some 20-35%, And 35-50%; D = dry, S = saturated, M = moist
1	0 – 2”	~18”	0.0	Soil, gravel, and fill.
2	2” – 2			
3	2 – 4		0.0	Soil, gravel, and fill.
4				
5	4 - 6		0.0	Gravel, silt and fill.
6		~18”		
7	6 – 8		0.0	Gravel, silt and fill.
8				
9	8 – 10		0.0	Black soil layer.
10				
11	10 – 12	~24”	0.0	Sand, coarse gravel.
12				
13	12 – 14		0.0	Sand, coarse gravel with an additional black layer.
14				
15	14 – 16		0.0	Black layer.
16		~24”		
17	16 – 18		0.0	Grey gravel with silt.
18				
19	18 – 20		0.0	Grey gravel with silt.
20				
21	20 – 22	~6”	0.0	Soil, gravel with fill.
22				
23	22 – 24		0.0	Soil, gravel with fill.
24				
25	24 – 26		0.0	Clay.
26		~6”		
27	26 – 28		85.0	Clay and gravel.
28				
29	28 – 30		85.0	Clay and gravel.
30				

Notes:

Performed By: Cascade

Groundwater Interface (▼):29ft

SB-34 BO was an offset soil boring.

SB-34 D taken from black layer at 7-9-feet at 1:28.

Composite Sample Notes:

SB-34 BO – TAL metals.

SB-34 C – TAL metals.

SB-34 D – PCBs and pesticides.

PID Headspace (H/S) Readings

Interval	PID H/S
0-2”	0.5
2”-2	0.5
2-4	0.5
4-6	50
6-8	15
8-10	15
10-12	5.0
12-14	5.0
14-16	5.0
16-18	1.5
18-20	1.5
20-22	9.5
22-24	9.5
24-26	9.5
26-28	10.7
28-30	10.7

Grab/Composite Samples

Interval:	NA
Sample Time:	NA
Sample ID:	NA

Interval:	0 – 2 feet
Sample Time:	2:03
Sample ID:	SB-34 BO

Interval:	28’ – 30’
Sample Time:	2:02
Sample ID:	SB-34 C

DATE: 7/20/2017

LOCATION: 1 Osgood Avenue, Town of Green Island, NY

LOGGED BY: Charlotte Verhoef

Soil Boring Log

BORING LOCATION: SB-34

enviroSPEC ENGINEERING, PLLC

Envirospec Engineering, PLLC
349 Northern Blvd., Suite 3
Albany, NY 12204

CLIENT: South Island Apartments, LLC

PROJECT #:E17-1600

PROJECT MANAGER: Gianna Aiezza

Soil Boring: SB-35 Offset (revisit)

Depth (ft)	Sample Interval (ft)	Recovery (in)	PID Screen (ppm)	Description Include color, texture, structure, odor, etc.; Trace 0-10%, Little 10-20%, Some 20-35%, And 35-50%; D = dry, S = saturated, M = moist
1	0 – 2”	NA	NA	NA
2	2” – 2			
3	2 – 4		NA	NA
4				
5	4 - 6		NA	NA
6		NA		
7	6 – 8		NA	NA
8				
9	8 – 10		NA	NA
10				
11	10 – 12	NA	NA	NA
12				
13	12 – 14		NA	NA
14				
15	14 – 16		NA	NA
16		NA		
17	16 – 18		NA	NA
18				
19	18 – 20		NA	NA
20				
21	20 – 22	NA	NA	NA
22				
23	22 – 24		NA	NA
24				
25	24 – 26		NA	Sand and gravel.
26		~24”		
27	26 – 28		NA	Sand and gravel.
28				
29	28 – 30		NA	Sand and gravel.
30				

Notes:

Performed By: Cascade

Groundwater Interface (▼):26ft

SB-35 CO2 is an offset soil boring.
Only sampled TAL metals due to poor recovery.

Composite Sample Notes:

SB-35 CO2 – TAL metals.

PID Headspace (H/S) Readings

Interval	PID H/S
0-2”	NA
2”-2	NA
2-4	NA
4-6	NA
6-8	NA
8-10	NA
10-12	NA
12-14	NA
14-16	NA
16-18	NA
18-20	NA
20-22	NA
22-24	NA
24-26	0.0
26-28	50.2
28-30	50.2

Grab/Composite Samples

Interval:	NA
Sample Time:	NA
Sample ID:	NA

Interval:	NA
Sample Time:	NA
Sample ID:	NA

Interval:	26’ - 27’
Sample Time:	7:44
Sample ID:	SB-35 CO2

DATE: 7/21/2017

LOGGED BY: Charlotte Verhoef

BORING LOCATION: SB-35

LOCATION: 1 Osgood Avenue, Town of Green Island, NY

Soil Boring Log

enviroSPEC ENGINEERING, PLLC
Envirospec Engineering, PLLC
349 Northern Blvd., Suite 3
Albany, NY 12204

CLIENT: South Island Apartments, LLC

PROJECT #:E17-1600

PROJECT MANAGER: Gianna Aiezza

Soil Boring: SB-35

Depth (ft)	Sample Interval (ft)	Recovery (in)	PID Screen (ppm)	Description Include color, texture, structure, odor, etc.; Trace 0-10%, Little 10-20%, Some 20-35%, And 35-50%; D = dry, S = saturated, M = moist
1	0 – 2”	~24”	2.4	Gravel.
2	2” – 2			
3	2 – 4		1.8	Fill and brick.
4				
5	4 - 6		5.4	Black layer.
6		~36”		
7	6 – 8		6.0	Some gravel and a black layer.
8				
9	8 – 10		6.0	Some gravel and a black layer.
10				
11	10 – 12	~12”	10.0	Clay.
12				
13	12 – 14		3.0	Clay.
14				
15	14 – 16		0.0	Clay.
16		~30		
17	16 – 18		1.5	Silt and sand.
18				
19	18 – 20		0.0	Silt and sand.
20				
21	20 – 22	~18”	0.0	Clay.
22				
23	22 – 24		1.7	Fill and gravel.
24				
25	24 – 26		0.9	Fill and gravel.
26		NA		
27	26 – 28		NA	NA
28				
29	28 – 30		NA	NA
30				

Notes:

Performed By: Cascade

Groundwater Interface (▼):25ft

SB-35 BO was an offset soil boring.
Sample SB35-CO2 was taken the following day in an offset boring.

Composite Sample Notes:

SB-35 BO – Full analysis.
SB-35 D – Full analysis.

PID Headspace (H/S) Readings

Interval	PID H/S
0-2”	20.3
2”-2	20.3
2-4	237.0
4-6	29.6
6-8	29.6
8-10	328.0
10-12	177.0
12-14	177.0
14-16	13.5
16-18	13.8
18-20	55
20-22	180
22-24	80.0
24-26	12.5
26-28	NA
28-30	NA

Grab/Composite Samples

Interval:	NA
Sample Time:	NA
Sample ID:	NA

Interval:	2” – 2’
Sample Time:	3:04
Sample ID:	SB-35 BO

Interval:	NA
Sample Time:	NA
Sample ID:	NA

Interval:	8’ - 10’
Sample Time:	2:27
Sample ID:	SB-35 D

DATE: 7/20/2017

LOGGED BY: Rachel Farnum

BORING LOCATION: SB-35

LOCATION: 1 Osgood Avenue, Town of Green Island, NY

Soil Boring Log

enviroSPEC ENGINEERING, PLLC
Envirospec Engineering, PLLC
349 Northern Blvd., Suite 3
Albany, NY 12204

CLIENT: South Island Apartments, LLC

PROJECT #:E17-1600

PROJECT MANAGER: Gianna Aiezza

Soil Boring: SB-36

Depth (ft)	Sample Interval (ft)	Recovery (in)	PID Screen (ppm)	Description Include color, texture, structure, odor, etc.; Trace 0-10%, Little 10-20%, Some 20-35%, And 35-50%; D = dry, S = saturated, M = moist
1 – 2	0 – 2” 2” – 2	32”	0.0	Large brick layer, gravel and fill.
3 – 4	2 – 4		0.0	Large brick layer, gravel and fill.
5 – 6	4 - 6	16”	0.0	Large brick layer, gravel and fill.
7 – 8	6 – 8		0.0	Fill.
9 – 10	8 – 10		0.0	Fill, small black layer.
11 – 12	10 – 12	23”	0.0	Fill and gravel.
13 – 14	12 – 14		0.0	Fill and gravel.
15 – 16	14 – 16	25”	0.0	Fill, gravel and clay.
17 – 18	16 – 18		0.0	Fill and gravel.
19 – 20	18 – 20		0.0	Clay.
21 – 22	20 – 22	40”	2.5	Fill and clay.
23 – 24	22 – 24		2.5	Fill and clay.
25 – 26	24 – 26	38”	2.5	Clay.
27 – 28	26 – 28		0.0	Clay.
29 – 30	28 – 30		0.0	Clay.

Notes:

Performed By: Cascade

Groundwater Interface (▼):29ft

SB-36 BO was an offset soil boring.

Composite Sample Notes:

SB-36 BO – TAL metals.

SB-36 C – Full analysis (due to good recovery).

PID Headspace (H/S) Readings

Interval	PID H/S
0-2”	0.1
2”-2	0.1
2-4	0.1
4-6	1.5
6-8	1.5
8-10	1.5
10-12	0.2
12-14	0.2
14-16	0.2
16-18	6.1
18-20	6.1
20-22	5.6
22-24	5.6
24-26	1.3
26-28	1.3
28-30	1.3

Grab/Composite Samples

Interval:	NA
Sample Time:	NA
Sample ID:	NA

Interval:	2” – 2’
Sample Time:	7:08
Sample ID:	SB-36 BO

Interval:	25’ – 30’
Sample Time:	7:25
Sample ID:	SB-36 C

DATE: 7/28/2017

LOGGED BY: Rachel Farnum

BORING LOCATION: SB-36

LOCATION: 1 Osgood Avenue, Town of Green Island, NY

Soil Boring Log

enviroSPEC ENGINEERING, PLLC

Envirospec Engineering, PLLC
349 Northern Blvd., Suite 3
Albany, NY 12204

CLIENT: South Island Apartments, LLC

PROJECT #:E17-1600

PROJECT MANAGER: Gianna Aiezza

APPENDIX C
GROUNDWATER SAMPLING LOGS

349 Northern Boulevard Suite 3▪ Albany, NY 12204 ▪ Phone: 518.453.2203 ▪ Fax: 518.453.2204
A Woman Owned Business Enterprise (WBE)

envirospec ENGINEERING, PLLC
349 Northern Blvd Suite 3
Albany, NY 12204
Phone: 518.453.2203
Fax: 518.689.4800
www.envirospeceng.com

Well Sampling Field Record

WELL NO MW-13
Date(s) 9/12/17

Weather	Temperature
Cloudy	High Low

Project	South Island Apartments Brownfields Project	Project No.	E17-1600
Location	Green Island, NY		

Well Info

Well #:	MW-13	Well Location:	
Well Diameter (in):		Well Condition:	
A. Total Well Depth (ft bgs):	33.9' Top of casing	Depth to Bedrock (ft):	
B. TOC to Grade (ft):		TOC Elevation (ft):	
C. Depth to Water TOC (ft):	26.35 Top of Casing	G. Volume Factors:	2-inch well = 0.163 gal/ft
D. Water Column Height (ft):	7.55	*= (A + B) - C*	4-inch well = 0.653 gal/ft
E. Total Well Volume (gal):	1.23	*=D*G*	6-inch well = 1.468 gal/ft
F. Purge (3 volumes) (gal):	3.69	*=E*3*	8-inch well = 2.609 gal/ft

Purge

Purge Date:		Pump/Method:	
Purge Start Time:	1:29	Approx Flow Rate:	0.234 ml/min
Purge Stop Time:	2:27	Approx Volume Removed:	4 gallons
Did well dry out?			

Sampling

Date:		pH			
Time:	2:30	Temp (ºC)			
Sample ID:	MW-13	Conductivity (mS/cm)			
Sample Method:		TDS (ppm)			
		ORP (mV)			
		Turbidity (NTU)			
		DO (mg/L)			

Appearance

Comments:

MW-13 sample at 2:30

envirospec ENGINEERING, PLLC
349 Northern Blvd Suite 3
Albany, NY 12204
Phone: 518.453.2203
Fax: 518.689.4800
www.envirospeceng.com

Well Sampling Field Record

WELL NO	UMW-D
Date(s)	9/12/17

Weather	Temperature
Clear	High 80 Low 58

Project	South Island Apartments Brownfields Project	Project No.	E17-1600
Location	Green Island, NY		

Well Info

Well #:	UMW-D	Well Location:	
Well Diameter (in):		Well Condition:	
A. Total Well Depth (ft bgs):	32.6' Top of casing	Depth to Bedrock (ft):	
B. TOC to Grade (ft):		TOC Elevation (ft):	
C. Depth to Water TOC (ft):	26.15 Top of Casing	G. Volume Factors:	2-inch well = 0.163 gal/ft
D. Water Column Height (ft):	6.45	= *(A + B) - C*	4-inch well = 0.653 gal/ft
E. Total Well Volume (gal):	1.05	*=D*G*	6-inch well = 1.468 gal/ft
F. Purge (3 volumes) (gal):	3.15	*=E*3*	8-inch well = 2.609 gal/ft

11.9 L

Purge

Purge Date:	9/12/17	Pump/Method:	
Purge Start Time:	8:36	Approx Flow Rate:	0.2 l/min
Purge Stop Time:	9:36	Approx Volume Removed:	4 gallons
Did well dry out?	No		

Sampling

Date:	9/12/17	pH			
Time:	9:40	Temp (ºC)			
Sample ID:	UMW-D	Conductivity (mS/cm)			
Sample Method:	Low flow	TDS (ppm)			
		ORP (mV)			
		Turbidity (NTU)			
		DO (mg/L)			

Appearance

Comments:

DUP – 10:40
MS – 11:20
MSD – 11:50

349 Northern Blvd Suite 3
Albany, NY 12204
Phone: 518.453.2203
Fax: 518.689.4800
www.envirospeceng.com

Well Sampling Field Record

WELL NO	MW-7
Date(s)	9/13/17

Weather	Temperature
Cloudy	High _____ Low _____

Project	South Island Apartments Brownfields Project	Project No.	E17-1600
Location	Green Island, NY		

Well Info

Well #:	MW-7	Well Location:	
Well Diameter (in):	4”	Well Condition:	
A. Total Well Depth (ft bgs):	32.5’	Depth to Bedrock (ft):	
B. TOC to Grade (ft):		TOC Elevation (ft):	
C. Depth to Water TOC (ft):	26.25	G. Volume Factors:	2-inch well = 0.163 gal/ft
D. Water Column Height (ft):	6.25	*= (A + B) - C*	4-inch well = 0.653 gal/ft
E. Total Well Volume (gal):	4.08	*=D*G*	6-inch well = 1.468 gal/ft
F. Purge (3 volumes) (gal):	12.24	*=E*3*	8-inch well = 2.609 gal/ft

Purge

Purge Date:	9/13/17	Pump/Method:	
Purge Start Time:	1:01	Approx Flow Rate:	0.23 ml/min
Purge Stop Time:		Approx Volume Removed:	
Did well dry out?			

Sampling

Date:	9/13/17	pH			
Time:		Temp (ºC)			
Sample ID:		Conductivity (mS/cm)			
Sample Method:		TDS (ppm)			
		ORP (mV)			
		Turbidity (NTU)			
		DO (mg/L)			

Appearance

Comments:

PID -> 0.0 ppm

envirospec ENGINEERING, PLLC
349 Northern Blvd Suite 3
Albany, NY 12204
Phone: 518.453.2203
Fax: 518.689.4800
www.envirospeceng.com

Well Sampling Field Record

WELL NO MW-2
Date(s) 9/13/17

Weather	Temperature
Clear	High ____ Low ____

Project	South Island Apartments Brownfields Project	Project No.	E17-1600
Location	Green Island, NY		

Well Info

Well #:	MW-2	Well Location:	
Well Diameter (in):	4"	Well Condition:	
A. Total Well Depth (ft bgs):	38.4'	Depth to Bedrock (ft):	
B. TOC to Grade (ft):		TOC Elevation (ft):	
C. Depth to Water TOC (ft):	28.65' to top of casing	G. Volume Factors:	2-inch well = 0.163 gal/ft
D. Water Column Height (ft):	9.75'	*= (A + B) - C*	4-inch well = 0.653 gal/ft
E. Total Well Volume (gal):	6.4	*=D*G*	6-inch well = 1.468 gal/ft
F. Purge (3 volumes) (gal):	19.1	*=E*3*	8-inch well = 2.609 gal/ft

Based on parameters leveling out

Purge

Purge Date:	9/13/17	Pump/Method:	Peristaltic Pump
Purge Start Time:	10:12	Approx Flow Rate:	0.25 ml/min
Purge Stop Time:	11:10	Approx Volume Removed:	
Did well dry out?			

Sampling

Date:	9/13/17	pH			
Time:	11:10	Temp (ºC)			
Sample ID:		Conductivity (mS/cm)			
Sample Method:	Peristaltic and Bailer (VOCs)	TDS (ppm)			
		ORP (mV)			
		Turbidity (NTU)			
		DO (mg/L)			

Appearance

Clear

Comments:

PID -> 0.0 ppm

envirospec ENGINEERING, PLLC
349 Northern Blvd Suite 3
Albany, NY 12204
Phone: 518.453.2203
Fax: 518.689.4800
www.envirospeceng.com

Well Sampling Field Record

WELL NO	MW-14	
Date(s)	9/13/17	
Weather	Temperature	
Clear	High	
	Low	

Project	South Island Apartments Brownfields Project	Project No.	E17-1600
Location	Green Island, NY		

Well Info

Well #:	MW-14	Well Location:	
Well Diameter (in):	4"	Well Condition:	
A. Total Well Depth (ft bgs):	33.2'	Depth to Bedrock (ft):	
B. TOC to Grade (ft):		TOC Elevation (ft):	
C. Depth to Water TOC (ft):	27.6' to top of case	G. Volume Factors:	2-inch well = 0.163 gal/ft
D. Water Column Height (ft):	5.6'	*= (A + B) - C*	4-inch well = 0.653 gal/ft
E. Total Well Volume (gal):	0.9128	*=D*G*	6-inch well = 1.468 gal/ft
F. Purge (3 volumes) (gal):	2.74	*=E*3*	8-inch well = 2.609 gal/ft

Based on parameters leveling out

Purge

Purge Date:	9/13/17	Pump/Method:	
Purge Start Time:	7:58	Approx Flow Rate:	0.279 L/min
Purge Stop Time:		Approx Volume Removed:	2.5-3 gallons
Did well dry out?			

Sampling

Date:	9/13/17	pH			
Time:	8:36	Temp (ºC)			
Sample ID:	MW-14	Conductivity (mS/cm)			
Sample Method:		TDS (ppm)			
		ORP (mV)			
		Turbidity (NTU)			
		DO (mg/L)			

Appearance

Clear

Comments

PID -> 0.0 ppm

envirospec ENGINEERING, PLLC
349 Northern Blvd Suite 3
Albany, NY 12204
Phone: 518.453.2203
Fax: 518.689.4800
www.envirospeceng.com

Well Sampling Field Record

WELL NO MW-7
Date(s) 9/14/17

Weather	Temperature
Cloudy	High Low 68

Project	South Island Apartments Brownfields Project	Project No.	E17-1600
Location	Green Island, NY		

Well Info

Well #:	MW-7	Well Location:	
Well Diameter (in):	4"	Well Condition:	
A. Total Well Depth (ft bgs):	32.5'	Depth to Bedrock (ft):	
B. TOC to Grade (ft):		TOC Elevation (ft):	
C. Depth to Water TOC (ft):	28.15	G. Volume Factors:	2-inch well = 0.163 gal/ft
D. Water Column Height (ft):	4.35	= *(A + B) - C*	4-inch well = 0.653 gal/ft
E. Total Well Volume (gal):	2.84	=*D*G*	6-inch well = 1.468 gal/ft
F. Purge (3 volumes) (gal):	8.5	=*E*3*	8-inch well = 2.609 gal/ft

Purge

Purge Date:	9/14/17	Pump/Method:	Peristaltic
Purge Start Time:	7:52	Approx Flow Rate:	0.2 ml/min
Purge Stop Time:	8:37	Approx Volume Removed:	3 gallons
Did well dry out?	No		

Sampling

Date:	9/14/17	pH			
Time:	8:40 pm	Temp (ºC)			
Sample ID:	MW-7	Conductivity (mS/cm)			
Sample Method:	Peristaltic and Bailer (VOCs)	TDS (ppm)			
		ORP (mV)			
		Turbidity (NTU)			
		DO (mg/L)			

Appearance

Clear

Comments:

PID -> 0.0 ppm

349 Northern Blvd Suite 3
Albany, NY 12204
Phone: 518.453.2203
Fax: 518.689.4800
www.envirospeceng.com

Well Sampling Field Record

WELL NO	MW-11
Date(s)	9/14/17

Weather	Temperature
Cloudy	High 70 Low 68

Project	South Island Apartments Brownfields Project	Project No.	E17-1600
Location	Green Island, NY		

Well Info

Well #:	MW-11	Well Location:	
Well Diameter (in):	2”	Well Condition:	
A. Total Well Depth (ft bgs):	30.55’	Depth to Bedrock (ft):	
B. TOC to Grade (ft):		TOC Elevation (ft):	
C. Depth to Water TOC (ft):	26.15	G. Volume Factors:	2-inch well = 0.163 gal/ft
D. Water Column Height (ft):	4.4	*= (A + B) - C*	4-inch well = 0.653 gal/ft
E. Total Well Volume (gal):	0.72	*=D*G*	6-inch well = 1.468 gal/ft
F. Purge (3 volumes) (gal):	2.2	*=E*3*	8-inch well = 2.609 gal/ft

Purge

Purge Date:	9/14/17	Pump/Method:	
Purge Start Time:		Approx Flow Rate:	0.158 ml/min turning up to 0.2 ml/min
Purge Stop Time:		Approx Volume Removed:	
Did well dry out?			

Sampling

Date:		pH			
Time:	1:40 pm	Temp (ºC)			
Sample ID:		Conductivity (mS/cm)			
Sample Method:		TDS (ppm)			
		ORP (mV)			
		Turbidity (NTU)			
		DO (mg/L)			

Appearance

There was oil on sensor earlier but is clean now.
Water has odor and a slight sheen

Comments

PID -> 6.7 ppm

349 Northern Blvd Suite 3
Albany, NY 12204
Phone: 518.453.2203
Fax: 518.689.4800
www.envirospeceng.com

Well Sampling Field Record

WELL NO	MW-3
Date(s)	9/14/17

Weather	Temperature
Cloudy	High 70 Low 68

Project	South Island Apartments Brownfields Project	Project No.	E17-1600
Location	Green Island, NY		

Well Info

Well #:	MW-3	Well Location:	
Well Diameter (in):	4”	Well Condition:	
A. Total Well Depth (ft bgs):	37.60’	Depth to Bedrock (ft):	
B. TOC to Grade (ft):		TOC Elevation (ft):	
C. Depth to Water TOC (ft):	29.20	G. Volume Factors:	2-inch well = 0.163 gal/ft
D. Water Column Height (ft):	8.4	*= (A + B) - C*	4-inch well = 0.653 gal/ft
E. Total Well Volume (gal):	5.485	*=D*G*	6-inch well = 1.468 gal/ft
F. Purge (3 volumes) (gal):	16.46	*=E*3*	8-inch well = 2.609 gal/ft

Purge

Purge Date:	9/14/17	Pump/Method:	Perastaltic Pump
Purge Start Time:	10:14	Approx Flow Rate:	0.2 l/min
Purge Stop Time:	11:09	Approx Volume Removed:	
Did well dry out?	No		

Sampling

Date:	9/14/17	pH			
Time:	11:10 pm	Temp (ºC)			
Sample ID:	MW-3	Conductivity (mS/cm)			
Sample Method:	Perastaltic pump and Bailer (VOCs)	TDS (ppm)			
		ORP (mV)			
		Turbidity (NTU)			
		DO (mg/L)			

Appearance

Clean

Comments:

PID -> 0.0 ppm

envirospec ENGINEERING, PLLC
349 Northern Blvd Suite 3
Albany, NY 12204
Phone: 518.453.2203
Fax: 518.689.4800
www.envirospeceng.com

Well Sampling Field Record

WELL NO	MW-4
Date(s)	9/14/17

Weather	Temperature
	High _____ Low _____

Project	South Island Apartments Brownfields Project	Project No.	E17-1600
Location	Green Island, NY		

Well Info

Well #:	MW-4	Well Location:	
Well Diameter (in):	4”	Well Condition:	Casing Damaged
A. Total Well Depth (ft bgs):	36’	Depth to Bedrock (ft):	
B. TOC to Grade (ft):		TOC Elevation (ft):	
C. Depth to Water TOC (ft):	29.15	G. Volume Factors:	2-inch well = 0.163 gal/ft
D. Water Column Height (ft):	6.85	*= (A + B) - C*	4-inch well = 0.653 gal/ft
E. Total Well Volume (gal):	4.47	*=D*G*	6-inch well = 1.468 gal/ft
F. Purge (3 volumes) (gal):	13.419	*=E*3*	8-inch well = 2.609 gal/ft

Purge

Purge Date:	9/11/17	Pump/Method:	Perastaltic
Purge Start Time:	3:04	Approx Flow Rate:	0.15 l/min
Purge Stop Time:	3:59	Approx Volume Removed:	2 gallons
Did well dry out?	No		

Sampling

Date:	9/14/17	pH			
Time:	4:00 pm	Temp (ºC)			
Sample ID:		Conductivity (mS/cm)			
Sample Method:		TDS (ppm)			
		ORP (mV)			
		Turbidity (NTU)			
		DO (mg/L)			

Appearance

Comments

29.05’ ->Oil ->29.15’

envirospec ENGINEERING, PLLC
349 Northern Blvd Suite 3
Albany, NY 12204
Phone: 518.453.2203
Fax: 518.689.4800
www.envirospeceng.com

Well Sampling Field Record

WELL NO MW-21
Date(s) 9/15/17

Weather	Temperature
	High _____ Low _____

Project	South Island Apartments Brownfields Project	Project No.	E17-1600
Location	Green Island, NY		

Well Info

Well #:	MW-21	Well Location:	
Well Diameter (in):	4"	Well Condition:	
A. Total Well Depth (ft bgs):	31	Depth to Bedrock (ft):	
B. TOC to Grade (ft):		TOC Elevation (ft):	
C. Depth to Water TOC (ft):	27.7	G. Volume Factors:	2-inch well = 0.163 gal/ft
D. Water Column Height (ft):	3.3	*= (A + B) - C*	4-inch well = 0.653 gal/ft
E. Total Well Volume (gal):	2.15	*=D*G*	6-inch well = 1.468 gal/ft
F. Purge (3 volumes) (gal):	6.46	*=E*3*	8-inch well = 2.609 gal/ft

Purge

Purge Date:	9/15/17	Pump/Method:	
Purge Start Time:		Approx Flow Rate:	
Purge Stop Time:		Approx Volume Removed:	
Did well dry out?			

Sampling

Date:		pH			
Time:		Temp (ºC)			
Sample ID:		Conductivity (mS/cm)			
Sample Method:		TDS (ppm)			
		ORP (mV)			
		Turbidity (NTU)			
		DO (mg/L)			

Appearance

Comments:

envirospec ENGINEERING, PLLC
349 Northern Blvd Suite 3
Albany, NY 12204
Phone: 518.453.2203
Fax: 518.689.4800
www.envirospeceng.com

Well Sampling Field Record

WELL NO	MW-9		
Date(s)	9/15/17		
Weather		Temperature	
		High	
		Low	

Project	South Island Apartments Brownfields Project	Project No.	E17-1600
Location	Green Island, NY		

Well Info

Well #:	MW-9	Well Location:	
Well Diameter (in):	2"	Well Condition:	
A. Total Well Depth (ft bgs):	30	Depth to Bedrock (ft):	
B. TOC to Grade (ft):		TOC Elevation (ft):	
C. Depth to Water TOC (ft):	27.7	G. Volume Factors:	2-inch well = 0.163 gal/ft
D. Water Column Height (ft):	2.3	= *(A + B) - C*	4-inch well = 0.653 gal/ft
E. Total Well Volume (gal):	0.375	=*D*G*	6-inch well = 1.468 gal/ft
F. Purge (3 volumes) (gal):	1.13	=*E*3*	8-inch well = 2.609 gal/ft

Purge

Purge Date:		Pump/Method:	
Purge Start Time:		Approx Flow Rate:	90 ml/min
Purge Stop Time:		Approx Volume Removed:	
Did well dry out?			

Sampling

Date:		pH			
Time:		Temp (ºC)			
Sample ID:		Conductivity (mS/cm)			
Sample Method:		TDS (ppm)			
		ORP (mV)			
		Turbidity (NTU)			
		DO (mg/L)			

Appearance

Comments

PID – 6.7ppm

envirospec ENGINEERING, PLLC
349 Northern Blvd Suite 3
Albany, NY 12204
Phone: 518.453.2203
Fax: 518.689.4800
www.envirospeceng.com

Well Sampling Field Record

WELL NO	MW-27		
Date(s)	9/15/17		
Weather		Temperature	
Hazy		High	
		Low	

Project	South Island Apartments Brownfields Project	Project No.	E17-1600
Location	Green Island, NY		

Well Info

Well #:	MW-27	Well Location:	
Well Diameter (in):	4"	Well Condition:	
A. Total Well Depth (ft bgs):	34	Depth to Bedrock (ft):	
B. TOC to Grade (ft):		TOC Elevation (ft):	
C. Depth to Water TOC (ft):	29	G. Volume Factors:	2-inch well = 0.163 gal/ft
D. Water Column Height (ft):	5'	= *(A + B) - C*	4-inch well = 0.653 gal/ft
E. Total Well Volume (gal):	3.265	=*D*G*	6-inch well = 1.468 gal/ft
F. Purge (3 volumes) (gal):	9.795	=*E*3*	8-inch well = 2.609 gal/ft

Purge

Purge Date:	9/15/17	Pump/Method:	
Purge Start Time:		Approx Flow Rate:	
Purge Stop Time:		Approx Volume Removed:	
Did well dry out?			

Sampling

Date:		pH			
Time:		Temp (ºC)			
Sample ID:		Conductivity (mS/cm)			
Sample Method:		TDS (ppm)			
		ORP (mV)			
		Turbidity (NTU)			
		DO (mg/L)			

Appearance

Dark Grey Color, Odor, Sheen

Comments:

PID 23.7 ppm

envirospec ENGINEERING, PLLC
349 Northern Blvd Suite 3
Albany, NY 12204
Phone: 518.453.2203
Fax: 518.689.4800
www.envirospeceng.com

Well Sampling Field Record

WELL NO	MW-10		
Date(s)	9/15/17		
Weather		Temperature	
Hazy		High	
		Low	

Project	South Island Apartments Brownfields Project	Project No.	E17-1600
Location	Green Island, NY		

Well Info

Well #:	MW-10	Well Location:	
Well Diameter (in):		Well Condition:	
A. Total Well Depth (ft bgs):	30.35'	Depth to Bedrock (ft):	
B. TOC to Grade (ft):		TOC Elevation (ft):	
C. Depth to Water TOC (ft):	27.92'	G. Volume Factors:	2-inch well = 0.163 gal/ft
D. Water Column Height (ft):	2.43'	*= (A + B) - C*	4-inch well = 0.653 gal/ft
E. Total Well Volume (gal):	0.396	*=D*G*	6-inch well = 1.468 gal/ft
F. Purge (3 volumes) (gal):	1.19	*=E*3*	8-inch well = 2.609 gal/ft

Purge

Purge Date:	9/15/17	Pump/Method:	Perastaltic Pump
Purge Start Time:	8:05	Approx Flow Rate:	0.2 l/min
Purge Stop Time:	8:45	Approx Volume Removed:	
Did well dry out?			

Sampling

Date:	9/15/17	pH			
Time:	8:45	Temp (ºC)			
Sample ID:		Conductivity (mS/cm)			
Sample Method:		TDS (ppm)			
		ORP (mV)			
		Turbidity (NTU)			
		DO (mg/L)			

Appearance

Oil at 27.9-27.92'

Comments

PID – 5.9 ppm

Sheen and odor

Well location UMW-D
Date 9/12/2017

Time (min)	pH	Specific Conductance (mS/cm)	Temperature (°C)	Turbidity (NTU)	Dissolved oxygen (mg/L)	ORP	Depth to Water (ft)
5	8.13	1.187	13.06	27.5	0.94	75.7	26.1
10	7.85	1.179	13.04	20.5	1.14	99.7	26.1
15	7.68	1.187	13.05	21.4	1.189	121.3	26.05
20	7.43	1.166	13.05	15.6	1.76	145.5	26
25	7.32	1.157	13.07	13.6	1.88	160.3	
30	7.12	1.15	13.21	12.7	1.91	176.1	26
35	7.06	1.143	13.16	12.1	2.01	184.5	25.95
40	7.05	1.135	13.17	11.2	2.13	192.6	25.9
45	7.05	1.129	13.16	11.3	2.24	200.3	
50	7.02	1.124	13.18	10.5	2.41	208.8	25.85
55	7.02	1.118	13.18	10.5	2.47	214.6	25.85
60	7	1.115	13.32	10.3	2.6	220.5	25.78

Low flow rate less than 10.0 ml/min

Well location	MW-13
Date	9/12/2017

Time (min)	pH	Specific Conductance (mS/cm)	Temperature (°C)	Turbidity (NTU)	Dissolved oxygen (mg/L)	ORP	Depth to Water (ft)
5	7.89	0.846	14.75	58.4	0.4	-199.3	28.4
10	7.99	0.852	14.39	51.2	0.3	-202.2	26.6
15	7.6	0.853	14.28	53.3	0.25	-176.7	26.6
20	7.3	0.854	14.28	44.9	0.23	-155.7	26.55
25	7.16	0.852	14.32	41.4	0.19	-146.9	26.6
30	7.04	0.853	14.33	38.8	0.22	-136.4	26.6
35	6.95	0.854	14.12	36.2	0.19	-128.7	26.6
40	6.97	0.852	14.09	29.6	0.17	-126.6	26.65
45	6.86	0.85	14.09	25.8	0.15	-119.7	26.65
50	6.8	0.849	14.14	19	0.14	-114	26.74
55	6.79	0.849	14.14	17.4	0.16	-113.3	26.78

Low flow rate less than 10.0 ml/min

Well location: MW-14
Date: 9/13/2017

Time (min)	pH	Specific Conductance (mS/cm)	Temperature (°C)	Turbidity (NTU)	Dissolved oxygen (mg/L)	ORP	Depth to Water (ft)
5	10.16	0.59	11.95	20	4.62	-43	27.5
10	9.39	0.582	11.85	14.4	4.31	13.7	27.45
15	8.64	0.58	11.89	11.5	4.32	72.37	27.4
20	8.2	0.58	11.9	11.4	4.24	102.6	27.4
25	8.04	0.578	11.9	9.6	4.12	116	27.35
30	7.83	0.576	11.9	8.4	4.27	136.4	27.3
35	7.69	0.576	12	7.9	4.16	150.5	27.25
40	7.53	0.576	11.99	7.8	3.88	164.6	27.2

Low flow rate less than 10.0 ml/min

Well location	MW-2
Date	9/13/2017

Time (min)	pH	Specific Conductance (mS/cm)	Temperature (°C)	Turbidity (NTU)	Dissolved oxygen (mg/L)	ORP	Depth to Water (ft)
5	7.09	0.657	15.14	6.2	4.09	150.5	28.4
10	7.01	0.654	15.02	5.4	3.45	172.5	28.4
15	6.97	0.655	14.94	7.1	3.74	208.2	28.35
20	6.99	0.656	14.94	5.6	3.6	234.9	28.32
25	6.97	0.655	15.04	5.3	3.78	262.8	28.32
30	6.95	0.657	15.27	5.5	3.27	300.9	28.2
35	6.89	0.652	15.38	5.6	3.39	321.5	28.2
40	6.97	0.658	15.47	4.6	3.58	339.4	28.2
45	6.89	0.654	15.35	4.9	3.44	366.9	28.2
50	6.89	0.654	15.63	4.6	3.31	375.3	28.2
55	6.86	0.654	15.7	4.6	3.38	386.9	28.2
60	6.83	0.652	15.8	4.8	3.25	396.8	28.22

Low flow rate less than 10.0 ml/min

Well location	MW-7
Date	9/13/2017 and 9/14/2017

9/13 tide going out well not recharging

Time (min)		pH	Specific Conductance (mS/cm)	Temperature (°C)	Turbidity (NTU)	Dissolved oxygen (mg/L)	ORP	Depth to Water (ft)
9/13/17	5	6.45	0.852	15.14	84.1	1.19	1	26.95
	10	6.4	0.848	14.66	89.2	1.22	15.6	27.6
	15	6.33	0.846	14.43	74.2	1.17	24.5	28
	20	6.36	0.846	14.23	100.7	0.6	22.6	28.6
	25	6.42	0.845	14.24	67.2	0.62	19.1	28.75
9/14/17	5	8.85	0.835	14	54.6	0.47	-139.7	29
	10	8.55	0.831	14.05	44.9	0.42	-117.2	29.3
	15	8.06	0.831	13.82	54.6	0.35	-92.1	29.6
	20	7.86	0.83	13.85	45.3	0.31	-78.1	29.9
	25	7.58	0.827	13.81	37.2	0.34	-59.7	30
	30	7.39	0.829	13.81	29.8	0.31	-52.3	30.2
	35	7.24	0.832	13.71	21	0.26	-52.6	30.2
	40	7.22	0.831	13.69	15.2	0.23	-58.9	30.22
	45	7.18	0.83	13.7	13.7	0.23	-54.9	30.23

Low flow rate	less than 10.0 ml/min

Well location MW-11
Date 9/14/2017

Time (min)	pH	Specific Conductance (mS/cm)	Temperature (°C)	Turbidity (NTU)	Dissolved oxygen (mg/L)	ORP	Depth to Water (ft)
5	8.18	1.336	15.67	12.5	0.35	-209.9	26.05
10	8.05	1.325	15.44	10.5	0.26	-204.6	26.05
15	7.69	1.318	15.4	9.8	0.23	-186.1	26.08
20	7.49	1.316	15.4	9.6	0.21	-144.8	26.08
25	7.31	1.311	15.44	8.9	0.19	-165.7	26.1
30	7.11	1.307	15.36	9.4	0.18	-154.3	26.2
35	7.04	1.305	15.31	8.3	0.17	-150.4	26.3
40	6.99	1.305	15.28	9.5	0.17	-147.7	26.3

Low flow rate less than 10.0 ml/min

Well location MW-3
Date 9/14/2017

Time (min)	pH	Specific Conductance (mS/cm)	Temperature (°C)	Turbidity (NTU)	Dissolved oxygen (mg/L)	ORP	Depth to Water (ft)
5	6.82	1.042	15.62	202.1	0.5	-69.6	29.1
10	6.95	1.038	15.43	163.8	0.35	-52	29.1
15	6.9	1.033	15.42	135	0.31	-51	29.05
20	6.86	1.029	15.56	114.4	0.2	-50.4	29
25	6.87	1.028	15.58	94.8	0.25	-50.2	28.95
30	6.84	1.023	15.49	78	0.25	-51	28.9
35	6.84	1.02	15.47	73.9	0.23	-49.4	28.8
40	6.81	1.017	15.35	66.2	0.22	-48	28.8
45	6.78	1.017	15.75	59.8	0.22	-45.1	28.8
50	6.76	1.012	16	51.4	0.23	-44.3	28.7
55	6.75	1.011	16.16	42.7	0.24	-43.2	28.7

Low flow rate less than 10.0 ml/min

Well location MW-4
Date 9/14/2017

Time (min)	pH	Specific Conductance (mS/cm)	Temperature (°C)	Turbidity (NTU)	Dissolved oxygen (mg/L)	ORP	Depth to Water (ft)
5	8.33	1.019	15.63	13.1	0.44	0.44	29.2
10	8.52	1.016	15.35	12	0.3	0.3	29.3
15	8.36	1.015	15.3	11.8	0.26	0.26	29.3
20	8.01	1.011	15.29	9.9	0.24	0.24	29.3
25	7.63	1.011	15.31	11.2	0.22	0.22	29.35
30	7.38	1.013	15.29	10.8	0.21	0.21	29.4
35	7.38	1.008	15.5	9.9	0.2	0.2	29.45
40	7.19	1.008	15.48	9.5	0.19	0.19	29.5
45	7.01	1.007	15.66	10	0.19	0.19	29.55
50	6.96	1.009	15.45	9.6	0.18	0.18	29.55
55	6.94	1.008	15.56	9.8	0.18	0.18	29.6

Low flow rate less than 10.0 ml/min

Well location	MW-10
Date	9/15/2017

Time (min)	pH	Specific Conductance (mS/cm)	Temperature (°C)	Turbidity (NTU)	Dissolved oxygen (mg/L)	ORP	Depth to Water (ft)
5	7.66	2.457	14.13	25.8	1.45	-174.9	29.87
10	7.89	2.482	14.23	15.1	1.84	-181.2	29.05
15	7.75	2.521	14.35	15.7	1.91	-177.9	29
20	7.59	2.523	14.52	13	1.8	-172.7	29
25	7.48	2.523	14.7	12.4	1.55	-166.6	29.05
30	7.36	2.514	15.17	13.2	1.26	-162.3	29.1
35	7.28	2.733	14.63	15.9	1.96	-160.2	29.3
40	7.27	2.637	14.5	18	1.96	-161.3	29.35

Low flow rate less than 10.0 ml/min

Well location	MW-27
Date	9/15/2017

Time (min)	pH	Specific Conductance (mS/cm)	Temperature (°C)	Turbidity (NTU)	Dissolved oxygen (mg/L)	ORP	Depth to Water (ft)
5	8.16	1.727	17.59	1206.1	6.01	-175.8	
10							
15							
20							
25							
30							
35							
40							
45							
50							
55							

Low flow rate less than 10.0 ml/min

Well location MW-9
Date 9/15/2017

Time (min)	pH	Specific Conductance (mS/cm)	Temperature (°C)	Turbidity (NTU)	Dissolved oxygen (mg/L)	ORP	Depth to Water (ft)
5	7.87	-174.5	18.29	28.3	5.5	-176.4	28.3
10	8.03	-78.7	18.1	31	5.69	-178.9	28.35
15							
20							
25							
30							

Low flow rate less than 10.0 ml/min

envirospec ENGINEERING, PLLC
349 Northern Blvd Suite 3
Albany, NY 12204
Phone: 518.453.2203
Fax: 518.689.4800
www.envirospeceng.com

Well Sampling Field Record

WELL NO UMW-D
Date(s) 10/25/17

Weather	Temperature
Mostly cloudy	High 66 Low 53

Project	South Island Apartments Project	Project No.	E17-1600
Location	Green Island, NY		

Well Info

Well #:	UMW-D	Well Location:	-
Well Diameter (in):	2	Well Condition:	-
A. Total Well Depth (ft bgs):	32.6	Depth to Bedrock (ft):	-
B. TOC to Grade (ft):	-	TOC Elevation (ft):	-
C. Depth to Water TOC (ft):	25.25	G. Volume Factors:	2-inch well = 0.163 gal/ft
D. Water Column Height (ft):	7.35	*= (A + B) - C*	4-inch well = 0.653 gal/ft
E. Total Well Volume (gal):	1.198	*=D*G*	6-inch well = 1.468 gal/ft
F. Purge (3 volumes) (gal):	3.59	*=E*3*	8-inch well = 2.609 gal/ft

Purge

Purge Date:	10/25/17	Pump/Method:	Geosub Pump
Purge Start Time:	7:49am	Approx Flow Rate:	1.2L/min
Purge Stop Time:	7:59am	Approx Volume Removed:	4gal
Did well dry out?	No		

Sampling

Date:	10/25/17	pH			
Time:	8:20am	Temp (ºC)			
Sample ID:	UMW-D	Conductivity (mS/cm)			
Sample Method:	Geosub Pump, Bailer for VOCs	TDS (ppm)			
		ORP (mV)			
		Turbidity (NTU)			
		DO (mg/L)			

Appearance

Not documented.

Comments:

PID = 0ppm

MS @ 8:50am
MSD @ 9:05am

envirospec ENGINEERING, PLLC
349 Northern Blvd Suite 3
Albany, NY 12204
Phone: 518.453.2203
Fax: 518.689.4800
www.envirospeceng.com

Well Sampling Field Record

WELL NO	MW-13
Date(s)	10/25/17

Weather	Temperature
Mostly cloudy	High 66 Low 53

Project	South Island Apartments Project	Project No.	E17-1600
Location	Green Island, NY		

Well Info

Well #:	MW-13	Well Location:	-
Well Diameter (in):	2	Well Condition:	-
A. Total Well Depth (ft bgs):	34.1	Depth to Bedrock (ft):	-
B. TOC to Grade (ft):	-	TOC Elevation (ft):	-
C. Depth to Water TOC (ft):	25.3	G. Volume Factors:	2-inch well = 0.163 gal/ft
D. Water Column Height (ft):	8.8	*= (A + B) - C*	4-inch well = 0.653 gal/ft
E. Total Well Volume (gal):	1.43	*=D*G*	6-inch well = 1.468 gal/ft
F. Purge (3 volumes) (gal):	4.3	*=E*3*	8-inch well = 2.609 gal/ft

Purge

Purge Date:	10/25/17	Pump/Method:	Geosub Pump
Purge Start Time:	10:00am	Approx Flow Rate:	600mL/min
Purge Stop Time:	10:03am	Approx Volume Removed:	5gal
Did well dry out?	No		

Sampling

Date:	10/25/17	pH			
Time:	10:10am	Temp (ºC)			
Sample ID:	MW-13	Conductivity (mS/cm)			
Sample Method:	Geosub Pump, Bailer for VOCs	TDS (ppm)			
		ORP (mV)			
		Turbidity (NTU)			
		DO (mg/L)			

Appearance

Not documented.

Comments:

PID = 0ppm

envirospec ENGINEERING, PLLC
349 Northern Blvd Suite 3
Albany, NY 12204
Phone: 518.453.2203
Fax: 518.689.4800
www.envirospeceng.com

Well Sampling Field Record

WELL NO	MW-14
Date(s)	10/25/17

Weather	Temperature
Mostly cloudy	High 66 Low 53

Project	South Island Apartments Project	Project No.	E17-1600
Location	Green Island, NY		

Well Info

Well #:	MW-14	Well Location:	-
Well Diameter (in):	2	Well Condition:	-
A. Total Well Depth (ft bgs):	33.0	Depth to Bedrock (ft):	-
B. TOC to Grade (ft):	-	TOC Elevation (ft):	-
C. Depth to Water TOC (ft):	26.25	G. Volume Factors:	2-inch well = 0.163 gal/ft
D. Water Column Height (ft):	6.75	*= (A + B) - C*	4-inch well = 0.653 gal/ft
E. Total Well Volume (gal):	1.1	*=D*G*	6-inch well = 1.468 gal/ft
F. Purge (3 volumes) (gal):	3.3	*=E*3*	8-inch well = 2.609 gal/ft

Purge

Purge Date:	10/25/17	Pump/Method:	Geosub Pump
Purge Start Time:	11:04am	Approx Flow Rate:	0.55L/min
Purge Stop Time:	11:12am	Approx Volume Removed:	3.3gal
Did well dry out?	No		

Sampling

Date:	10/25/17	pH			
Time:	11:20am	Temp (ºC)			
Sample ID:	MW-14	Conductivity (mS/cm)			
Sample Method:	Geosub Pump, Bailer for VOCs	TDS (ppm)			
		ORP (mV)			
		Turbidity (NTU)			
		DO (mg/L)			

Appearance

Not documented.

Comments:

PID = 0.0ppm
Sampling flow rate = 0.45L/min

envirospec ENGINEERING, PLLC
349 Northern Blvd Suite 3
Albany, NY 12204
Phone: 518.453.2203
Fax: 518.689.4800
www.envirospeceng.com

Well Sampling Field Record

WELL NO	MW-2
Date(s)	10/25/17

Weather	Temperature
Mostly cloudy	High 66 Low 53

Project	South Island Apartments Project	Project No.	E17-1600
Location	Green Island, NY		

Well Info

Well #:	MW-2	Well Location:	-
Well Diameter (in):	4	Well Condition:	-
A. Total Well Depth (ft bgs):	37.1	Depth to Bedrock (ft):	-
B. TOC to Grade (ft):	-	TOC Elevation (ft):	-
C. Depth to Water TOC (ft):	29.45	G. Volume Factors:	2-inch well = 0.163 gal/ft
D. Water Column Height (ft):	7.65	*= (A + B) - C*	4-inch well = 0.653 gal/ft
E. Total Well Volume (gal):	5.0	*=D*G*	6-inch well = 1.468 gal/ft
F. Purge (3 volumes) (gal):	15.0	*=E*3*	8-inch well = 2.609 gal/ft

Purge

Purge Date:	10/25/17	Pump/Method:	Geosub Pump
Purge Start Time:	1:12pm	Approx Flow Rate:	0.6L/min
Purge Stop Time:	1:39pm	Approx Volume Removed:	15gal
Did well dry out?	No		

Sampling

Date:	10/25/17	pH			
Time:	1:46pm	Temp (ºC)			
Sample ID:	MW-2	Conductivity (mS/cm)			
Sample Method:	Geosub Pump, Bailer for VOCs	TDS (ppm)			
		ORP (mV)			
		Turbidity (NTU)			
		DO (mg/L)			

Appearance

Not documented.

Comments:

PID = 0.0ppm
Sampling flow rate = 0.375L/min

envirospec ENGINEERING, PLLC
349 Northern Blvd Suite 3
Albany, NY 12204
Phone: 518.453.2203
Fax: 518.689.4800
www.envirospeceng.com

Well Sampling Field Record

WELL NO MW-3
Date(s) 10/26/17

Weather	Temperature
Scattered rain	High 54 Low 49

Project	South Island Apartments Project	Project No.	E17-1600
Location	Green Island, NY		

Well Info

Well #:	MW-3	Well Location:	-
Well Diameter (in):	4	Well Condition:	Casing damaged.
A. Total Well Depth (ft bgs):	38	Depth to Bedrock (ft):	-
B. TOC to Grade (ft):	-	TOC Elevation (ft):	-
C. Depth to Water TOC (ft):	29.05	G. Volume Factors:	2-inch well = 0.163 gal/ft
D. Water Column Height (ft):	7.35	*= (A + B) - C*	4-inch well = 0.653 gal/ft
E. Total Well Volume (gal):	4.79	*=D*G*	6-inch well = 1.468 gal/ft
F. Purge (3 volumes) (gal):	14.4	*=E*3*	8-inch well = 2.609 gal/ft

Purge

Purge Date:	10/26/17	Pump/Method:	Geosub Pump
Purge Start Time:	9:15am	Approx Flow Rate:	0.5L/min
Purge Stop Time:	10:27am	Approx Volume Removed:	12gal
Did well dry out?	No		

Sampling

Date:	10/26/17	pH			
Time:	10:40	Temp (ºC)			
Sample ID:	MW-3	Conductivity (mS/cm)			
Sample Method:	Geosub Pump, Bailer for VOCs	TDS (ppm)			
		ORP (mV)			
		Turbidity (NTU)			
		DO (mg/L)			

Appearance

Rusty

Comments

PID = 0.0ppm

Sampling flow rate = 0.3L/min

envirospec ENGINEERING, PLLC
349 Northern Blvd Suite 3
Albany, NY 12204
Phone: 518.453.2203
Fax: 518.689.4800
www.envirospeceng.com

Well Sampling Field Record

WELL NO	MW-4
Date(s)	10/26/17

Weather	Temperature
Scattered rain	High 54 Low 49

Project	South Island Apartments Project	Project No.	E17-1600
Location	Green Island, NY		

Well Info

Well #:	MW-4	Well Location:	-
Well Diameter (in):	4	Well Condition:	Damaged.
A. Total Well Depth (ft bgs):	35.9	Depth to Bedrock (ft):	-
B. TOC to Grade (ft):	-	TOC Elevation (ft):	-
C. Depth to Water TOC (ft):	29.1	G. Volume Factors:	2-inch well = 0.163 gal/ft
D. Water Column Height (ft):	6.8	*= (A + B) - C*	4-inch well = 0.653 gal/ft
E. Total Well Volume (gal):	4.44	*=D*G*	6-inch well = 1.468 gal/ft
F. Purge (3 volumes) (gal):	13.3	*=E*3*	8-inch well = 2.609 gal/ft

Purge

Purge Date:	10/26/17	Pump/Method:	Geosub Pump
Purge Start Time:	11:39am	Approx Flow Rate:	0.7L/min
Purge Stop Time:	12:10pm	Approx Volume Removed:	9gal
Did well dry out?	No		

Sampling

Date:	10/26/17	pH			
Time:	12:15pm	Temp (ºC)			
Sample ID:	MW-4	Conductivity (mS/cm)			
Sample Method:	Geosub Pump, Bailer for VOCs	TDS (ppm)			
		ORP (mV)			
		Turbidity (NTU)			
		DO (mg/L)			

Appearance

Black, odor → purged to clear

Comments:

PID = 1.9ppm
Sample flow rate: 0.3L/min

envirospec ENGINEERING, PLLC
349 Northern Blvd Suite 3
Albany, NY 12204
Phone: 518.453.2203
Fax: 518.689.4800
www.envirospeceng.com

Well Sampling Field Record

WELL NO MW-11
Date(s) 10/27/17

Weather	Temperature
Partly cloudy	High 60 Low 42

Project	South Island Apartments Project	Project No.	E17-1600
Location	Green Island, NY		

Well Info

Well #:	MW-11	Well Location:	-
Well Diameter (in):	2	Well Condition:	-
A. Total Well Depth (ft bgs):	29.9	Depth to Bedrock (ft):	-
B. TOC to Grade (ft):	-	TOC Elevation (ft):	-
C. Depth to Water TOC (ft):	27.9	G. Volume Factors:	2-inch well = 0.163 gal/ft
D. Water Column Height (ft):	2	*= (A + B) - C*	4-inch well = 0.653 gal/ft
E. Total Well Volume (gal):	0.326	*=D*G*	6-inch well = 1.468 gal/ft
F. Purge (3 volumes) (gal):	1	*=E*3*	8-inch well = 2.609 gal/ft

Purge

Purge Date:	10/27/17	Pump/Method:	Geosub Pump
Purge Start Time:	8:37am	Approx Flow Rate:	0.35L/min
Purge Stop Time:	8:56am	Approx Volume Removed:	2.7gal
Did well dry out?	No		

Sampling

Date:	10/27/17	pH			
Time:	9:10am	Temp (ºC)			
Sample ID:	MW-11	Conductivity (mS/cm)			
Sample Method:	Geosub Pump, Bailer for VOCs	TDS (ppm)			
		ORP (mV)			
		Turbidity (NTU)			
		DO (mg/L)			

Appearance

Not documented.

Comments

NA

envirospec ENGINEERING, PLLC
349 Northern Blvd Suite 3
Albany, NY 12204
Phone: 518.453.2203
Fax: 518.689.4800
www.envirospeceng.com

Well Sampling Field Record

WELL NO	MW-7
Date(s)	10/26/17 & 10/27/17

Weather	Temperature
Cloudy	High 60 Low 42

Project	South Island Apartments Brownfields Project	Project No.	E17-1600
Location	Green Island, NY		

Well Info

Well #:	MW-7	Well Location:	-
Well Diameter (in):	4	Well Condition:	-
A. Total Well Depth (ft bgs):	33.4	Depth to Bedrock (ft):	-
B. TOC to Grade (ft):	-	TOC Elevation (ft):	-
C. Depth to Water TOC (ft):	27.4	G. Volume Factors:	2-inch well = 0.163 gal/ft
D. Water Column Height (ft):	6	= *(A + B) - C*	4-inch well = 0.653 gal/ft
E. Total Well Volume (gal):	39.18	*=D*G*	6-inch well = 1.468 gal/ft
F. Purge (3 volumes) (gal):	~12	*=E*3*	8-inch well = 2.609 gal/ft

Purge

Purge Date:	10/26/17 & 10/27/17	Pump/Method:	Geosub Pump
Purge Start Time:	-	Approx Flow Rate:	0.6L/min
Purge Stop Time:	-	Approx Volume Removed:	5gal
Did well dry out?	Well purged dry both days		

Sampling

Date:	No	pH			
Time:	Sample	Temp (ºC)			
Sample ID:	Collected	Conductivity (mS/cm)			
Sample Method:	-	TDS (ppm)			
		ORP (mV)			
		Turbidity (NTU)			
		DO (mg/L)			

Appearance

Not documented.

Comments:

Sample flow rate: 0.3L/min.. NO SAMPLE COLLECTED.. Purged dry twice

PID = 0.1ppm

envirospec ENGINEERING, PLLC
349 Northern Blvd Suite 3
Albany, NY 12204
Phone: 518.453.2203
Fax: 518.689.4800
www.envirospeceng.com

Well Sampling Field Record

WELL NO	MW-10
Date(s)	10/27/17

Weather	Temperature
Partly cloudy	High 60 Low 42

Project	South Island Apartments Project	Project No.	E17-1600
Location	Green Island, NY		

Well Info

Well #:	MW-10	Well Location:	-
Well Diameter (in):	2	Well Condition:	-
A. Total Well Depth (ft bgs):	30.35	Depth to Bedrock (ft):	-
B. TOC to Grade (ft):	-	TOC Elevation (ft):	-
C. Depth to Water TOC (ft):	28	G. Volume Factors:	2-inch well = 0.163 gal/ft
D. Water Column Height (ft):	1.65	*= (A + B) - C*	4-inch well = 0.653 gal/ft
E. Total Well Volume (gal):	0.269	*=D*G*	6-inch well = 1.468 gal/ft
F. Purge (3 volumes) (gal):	0.8	*=E*3*	8-inch well = 2.609 gal/ft

Purge

Purge Date:	10/27/17	Pump/Method:	Geosub Pump
Purge Start Time:	11:14am	Approx Flow Rate:	0.3L/min
Purge Stop Time:	11:30am	Approx Volume Removed:	1.25
Did well dry out?	Yes (well recharged fast though)		

Sampling

Date:	10/27/17	pH			
Time:	12:35pm	Temp (ºC)			
Sample ID:	MW-10	Conductivity (mS/cm)			
Sample Method:	Geosub Pump, Bailer for VOCs	TDS (ppm)			
		ORP (mV)			
		Turbidity (NTU)			
		DO (mg/L)			

Appearance

Sheen, odor, product.

Comments

PID = 4.6ppm

Well location UMW-D
Date 10/25/2017

Time (min)	pH	Specific Conductance (mS/cm)	Temperature (°C)	Turbidity (NTU)	Dissolved oxygen (mg/L)	ORP	Depth to Water (ft)
7:49	6.74	0.746	14.27	187	6.18	140	-
7:50	6.71	0.75	14.6	185.7	4.2	139.2	-
7:54	6.78	0.751	14.21	89.4	5.27	137.1	-
7:57	6.82	0.762	14.11	57.3	6.84	132	-
7:59	6.79	0.764	14.11	34.4	5.3	130.1	-

Low flow rate 1.2L/min (purge)

Well location: MW-13
Date: 10/25/2017

Time (min)	pH	Specific Conductance (mS/cm)	Temperature (°C)	Turbidity (NTU)	Dissolved oxygen (mg/L)	ORP	Depth to Water (ft)
10:00	6.75	0.586	13.99	25.5	3.79	-47.3	-
10:02	6.64	0.57	13.77	12.9	3.35	-45.7	-
10:03	6.66	0.563	13.75	8.2	5.03	-43.8	-

Low flow rate 600mL/min (purge)

Well location MW-14
Date 10/25/2017

Time (min)	pH	Specific Conductance (mS/cm)	Temperature (°C)	Turbidity (NTU)	Dissolved oxygen (mg/L)	ORP	Depth to Water (ft)
11:08	7.14	0.367	13.52	4.3	6.09	88.4	-
11:10	6.65	0.358	13.26	4.9	6.29	103.8	-
11:12	6.22	0.357	13.23	3.6	6.82	100.4	-

Low flow rate 0.55L/min (purge)

Well location MW-2
Date 10/25/2017

Time (min)	pH	Specific Conductance (mS/cm)	Temperature (°C)	Turbidity (NTU)	Dissolved oxygen (mg/L)	ORP	Depth to Water (ft)
1:14	7.01	0.458	17.2	19.9	6.47	65.7	30.2
1:18	6.9	0.447	16.09	11	6.27	74.3	30.24
1:22	6.93	0.442	16	7.4	6.66	69.5	30.6
1:26	6.91	0.443	15.81	4.8	6.77	75.6	30.3
1:29	6.92	0.44	15.82	5.5	6.96	79.8	30.32
1:33	6.98	0.443	15.85	4.8	6.97	78.8	30.35
1:37	6.98	0.445	15.22	3.2	6.95	81.4	30.35

Low flow rate 0.6L/min (purge)

Well location	MW-3
Date	10/26/2017

Time (min)	pH	Specific Conductance (mS/cm)	Temperature (°C)	Turbidity (NTU)	Dissolved oxygen (mg/L)	ORP	Depth to Water (ft)
9:19	6.79	0.366	13.77	671.8	4.00	10.2	29.22
9:23	6.84	0.370	13.98	410.8	4.05	-4.5	29.22
9:28	6.82	0.362	13.98	269.1	3.96	-15.7	29.15
9:34	6.79	0.355	13.88	179.3	3.22	-17.5	29.15
9:59	6.75	0.339	13.97	151.7	3.24	-19.9	29.15
10:05	6.81	0.336	13.95	115.4	3.27	-22.9	29.05
10:10	6.83	0.332	13.92	85.4	3.39	-22.2	29.03
10:14	6.78	0.325	13.88	66.9	3.22	-21.6	29.05
10:18	6.83	0.330	13.95	55.5	3.36	-22.9	29.05
10:23	6.83	0.326	13.96	53.6	3.36	-25.2	29.10
10:27	6.84	0.315	13.97	44.8	3.46	-22.5	28.70

Low flow rate 0.5L/min (purge)

Well location MW-4
Date 10/26/2017

Time (min)	pH	Specific Conductance (mS/cm)	Temperature (°C)	Turbidity (NTU)	Dissolved oxygen (mg/L)	ORP	Depth to Water (ft)	
11:42	6.75	0.62	13.55	9.9	2.13	-86.7	NA	oil covers sensor
11:47	6.77	0.355	13.66	4.3	2.87	-90.7	29.37	
11:51	6.77	0.35	13.74	4.1	2.86	-87.2	29.4	
11:55	6.77	0.345	13.73	4.2	2.85	-87.6	29.4	
12:00	6.77	0.340	13.73	2.7	2.62	-92.6	29.45	
12:05	6.77	0.332	13.70	2.1	2.86	-90.2	29.50	
12:10	6.77	0.332	13.72	2.6	2.76	-86.9	29.50	

Low flow rate 0.7L/min (purge)

Well location	MW-11
Date	10/27/2017

Time (min)	pH	Specific Conductance (mS/cm)	Temperature (°C)	Turbidity (NTU)	Dissolved oxygen (mg/L)	ORP	Depth to Water (ft)
8:42	6.77	0.444	13.65	996.5	3.00	-77.4	NA
8:46	6.75	0.449	14.36	121.2	3.33	-81.7	NA
8:50	6.76	0.427	14.31	81.5	3.13	-85.9	NA
8:56	6.75	0.413	14.45	14.8	3.10	-72.2	NA

Low flow rate 0.35L/min (purge)

Well location	MW-7
Date	10/26/2017 & 10/27/17

Time (min)	pH	Specific Conductance (mS/cm)	Temperature (°C)	Turbidity (NTU)	Dissolved oxygen (mg/L)	ORP	Depth to Water (ft)
8:33	6.54	0.378	13.70	117.06	2.57	13.3	29.8
8:37	6.43	0.351	13.40	252.7	2.81	14.8	-
8:41	6.45	0.444	13.05	116.0	4.04	5.5	-
8:45	PURGED DRY	-	-	-	-	-	-
10/27/2017							
10:25	6.88	0.315	14.12	192.2	4.30	19.3	29.15
	PURGED DRY						

Low flow rate 0.6L/min (purge)

Well location	MW-10
Date	10/27/2017

Time (min)	pH	Specific Conductance (mS/cm)	Temperature (°C)	Turbidity (NTU)	Dissolved oxygen (mg/L)	ORP	Depth to Water (ft)
11:16	6.98	0.645	14.47	64.9	2.76	-91.2	NA
11:20	6.96	0.698	14.46	24.8	3.03	-105.8	NA
11:25	7	0.720	14.46	9.3	3.12	-121.1	NA

Low flow rate 0.3L/min (purge)

APPENDIX D
PHOTO LOGS

349 Northern Boulevard Suite 3▪ Albany, NY 12204 ▪ Phone: 518.453.2203 ▪ Fax: 518.453.2204
A Woman Owned Business Enterprise (WBE)

Envirospec Engineering,PLLC
Photographic Record

Site Name:	**Green Island Remediation**	**Project Number:**	**17-1600**
Site Location:	**Green Island**		

Photographer:

RC

Date:7/20/2017

Direction:

Comments:

Location: SB-13

Photographer:

RC

Date:7/20/2017

Direction:

Comments:

Location: SB-15 0-5 ft

Envirospec Engineering,PLLC
Photographic Record

Site Name:	**Green Island Remediation**	**Project Number:**	**17-1600**
Site Location:	**Green Island**		

Photographer:

RC

Date:7/20/2017

Direction:

Comments:

Location: SB-15
5ft-10ft

Photographer:

RC

Date:7/20/2017

Direction:

Comments:

Location: SB-15

Envirospec Engineering,PLLC
Photographic Record

Site Name:	**Green Island Remediation**	**Project Number:**	**17-1600**
Site Location:	**Green Island**		

Photographer:

RC

Date:7/20/2017

Direction:

Comments:

Location: SB-18

Photographer:

RC

Date:7/20/2017

Direction:

Comments:

Location: SB-34

Envirospec Engineering,PLLC
Photographic Record

Site Name:	**Green Island Remediation**	**Project Number:**	**17-1600**
Site Location:	**Green Island**		

Photographer:

RC

Date:7/21/2017

Direction:

Comments:

Location: SB-10

Photographer:
RC

Date: 7/21/2017

Direction:

Comments:

Location: SB-27

Envirospec Engineering,PLLC
Photographic Record

Site Name:	**Green Island Remediation**	**Project Number:**	**17-1600**
Site Location:	**Green Island**		

Photographer:

RC

Date: 7/21/17

Direction:

Comments:

Location: SB-31

Photographer:

RC

Date: 7/24/2017

Direction:

Comments:

Location: SB-6

Envirospec Engineering,PLLC
Photographic Record

Site Name:	**Green Island Remediation**	**Project Number:**	**17-1600**
Site Location:	**Green Island**		

Photographer:

RC

Date:7/24/2017

Direction:

Comments: Location:

SB-17

(left to right)

25'-30'

20'-25'

15'-20'

10'-15'

5'-10'

0-5'

0-2'(offset)

Photographer:
RC

Date: 7/24/2017

Direction:

Comments:

Location:
SB-19 (front to back)
0-2'(offset)
0-5'
5'-10'
10'-15'
15'-20'
20'-25'
25'-30

Envirospec Engineering,PLLC
Photographic Record

Site Name:	**Green Island Remediation**	**Project Number:**	**17-1600**
Site Location:	**Green Island**		

Photographer:

RC

Date:7/24/2017

Direction:

Comments: Location:

SB-21 (front to back)

0-2'(offset)

0-5'

5'-10'

10'-15'

15'-20'

20'-25'

Photographer:
RC

Date: 7/24/2017

Direction:

Comments:

Location: SB-24

Envirospec Engineering,PLLC
Photographic Record

Site Name:	**Green Island Remediation**	**Project Number:**	**17-1600**
Site Location:	**Green Island**		

Photographer:

RC

Date:7/25/2017

Direction:

Comments:

Location:
SB-12
(left to right)
25'-30'
20'-25'
15'-20'
10'-15'
5'-10'
0-5'
0-2' (offset)

Photographer:

RC

Date:7/25/2017

Direction:

Comments:

Location: SB-16
(front to back)
0-5'
5'-10'
10'-15'
15'-20'
20'-25'
25'-30'

Envirospec Engineering,PLLC
Photographic Record

Site Name:	**Green Island Remediation**	**Project Number:**	**17-1600**
Site Location:	**Green Island**		

Photographer:

RC

Date:7/25/2017

Direction:

Comments:

Location: SB-26

(From front to back)

25'-30';20'-25'

15'-20';10'-15'

5'-10';0-5'

0-2'(offset)

Photographer:

RC

Date:7/25/2017

Direction:

Comments:

Location: SB-25

(from front to back)

30'-25';20'-25'

15'-20';10'-15'

5'-10';0-5'

0-2' (offset)

Envirospec Engineering,PLLC
Photographic Record

Site Name:	**Green Island Remediation**	**Project Number:**	**17-1600**
Site Location:	**Green Island**		

Photographer:
RC

Date: 7/26/2017

Direction:

Comments:

Location:
SB-30 (left to right)
20'-25'
15'-20'
10'-15'
5'-10'
0-5'

Envirospec Engineering,PLLC
Photographic Record

Site Name:	**Green Island Remediation**	**Project Number:**	**17-1600**
Site Location:	**Green Island**		

Photographer:

RC

Date:7/26/2017

Direction:

Comments:

Location:SB-11
5'-10' (left)
0-5' (center)
0-2' (offset)(right)

Photographer:

RC

Date:7/26/2017

Direction:

Comments:

Location:SB-11
(from left to right)
25'-30'
20'-25'
15'-20'
10'-15'
5'-10'
0-5'

Envirospec Engineering,PLLC
Photographic Record

Site Name:	**Green Island Remediation**	**Project Number:**	**17-1600**
Site Location:	**Green Island**		

Photographer:

RC

Date:7/26/2017

Direction:

Comments:

Location:SB-11
30'-35' (left)

Photographer:

RC

Date:7/26/2017

Direction:

Comments:

Location:SB-9
0-5 ft(offset)

Envirospec Engineering,PLLC
Photographic Record

Site Name:	**Green Island Remediation**	**Project Number:**	**17-1600**
Site Location:	**Green Island**		

Photographer:

Date:

Direction:

Comments:

Location:

Photographer:

RC

Date:7/26/2017

Direction:

Comments:

Location:SB-9

(left to right)

20'-25'

15'-20'

10'-15'

5'-10'

0-5'

Envirospec Engineering,PLLC
Photographic Record

Site Name:	**Green Island Remediation**	**Project Number:**	**17-1600**
Site Location:	**Green Island**		

Photographer:

RC

Date:7/26/2017

Direction:

Comments:

Location:SB-9
25'-30'
20'-25'
10'-15'
5'-10'

Photographer:

RC

Date:7/26/2017

Direction:

Comments:

Location:SB-22
2"-2'(offset)

Envirospec Engineering,PLLC
Photographic Record

Site Name:	**Green Island Remediation**	**Project Number:**	**17-1600**
Site Location:	**Green Island**		

Photographer:

RC

Date:7/26/2017

Direction:

Comments:

Location:SB-22
(from left to right)
15'-20'
10'-15'
5'-10'
2"-5'

Photographer:

RC

Date:7/26/2017

Direction:

Comments:

Location:SB-22
(from left to right)
20'-25'
15'-20'
10'-20'
5'-10'
2"-5'

Envirospec Engineering,PLLC
Photographic Record

Site Name:	**Green Island Remediation**	**Project Number:**	**17-1600**
Site Location:	**Green Island**		

Photographer:

RC

Date:7/26/2017

Direction:

Comments:

Location:SB-22

(from left to right)

25'-30' (left)

20'-25'

15'-20'

10'-15'

5'-10'

Photographer:

Date:

Direction:

Comments:

Location:

Envirospec Engineering,PLLC
Photographic Record

Site Name:	**Green Island Remediation**	**Project Number:**	**17-1600**
Site Location:	**Green Island**		

Photographer:

Date:

Direction:

Comments:

Location:

Photographer:

RC

Date:7/26/2017

Direction:

Comments:

Location:SB-8
(from left to right)

10'-15'
5'-10'
0-5'
2"-2'(offset)

Envirospec Engineering,PLLC
Photographic Record

Site Name:	**Green Island Remediation**	**Project Number:**	**17-1600**
Site Location:	**Green Island**		

Photographer:

RC

Date:7/26/2017

Direction:

Comments:

Location:SB-8
15'-20' (closest)

Photographer:

Date:

Direction:

Comments:

Location:

Envirospec Engineering,PLLC
Photographic Record

Site Name:	**Green Island Remediation**	**Project Number:**	**17-1600**
Site Location:	**Green Island**		

Photographer:

RC

Date:7/26/2017

Direction:

Comments:

Location:SB-5
(in order form left to right)
25'-30'
20'-25'
15'-20'
10'-15'
5'-10'
0-5'
2"-2' (offset)

Photographer:

RC

Date:7/26/2017

Direction:

Comments:

Photo of the Geoprobe that was used.

Envirospec Engineering,PLLC
Photographic Record

Site Name:	**Green Island Remediation**	**Project Number:**	**17-1600**
Site Location:	**Green Island**		

Photographer:

RC

Date:7/27/2017

Direction:

Comments:

Location:SB-20

0'-5'(right)

5'-10'(center)

10'-15'(left)

Photographer:

RC

Date:7/27/2017

Direction:

Comments:

Location:SB-20

15'-20'(left)

10'-15'(right)

Envirospec Engineering,PLLC
Photographic Record

Site Name:	**Green Island Remediation**	**Project Number:**	**17-1600**
Site Location:	**Green Island**		

Photographer:

RC

Date:7/27/2017

Direction:

Comments:

Location:SB-20
20'-25'

Photographer:

RC

Date:7/27/2017

Direction:

Comments:

Location:SB-20
25'-30'

Envirospec Engineering,PLLC
Photographic Record

Site Name:	**Green Island Remediation**	**Project Number:**	**17-1600**
Site Location:	**Green Island**		

Photographer:

RC

Date:7/27/2017

Direction:

Comments:

Location:SB-20
0-2' (offset)

Photographer:

Date:

Direction:

Comments:

Location:

Envirospec Engineering,PLLC
Photographic Record

Site Name:	**Green Island Remediation**	**Project Number:**	**17-1600**
Site Location:	**Green Island**		

Photographer:

Date:

Direction:

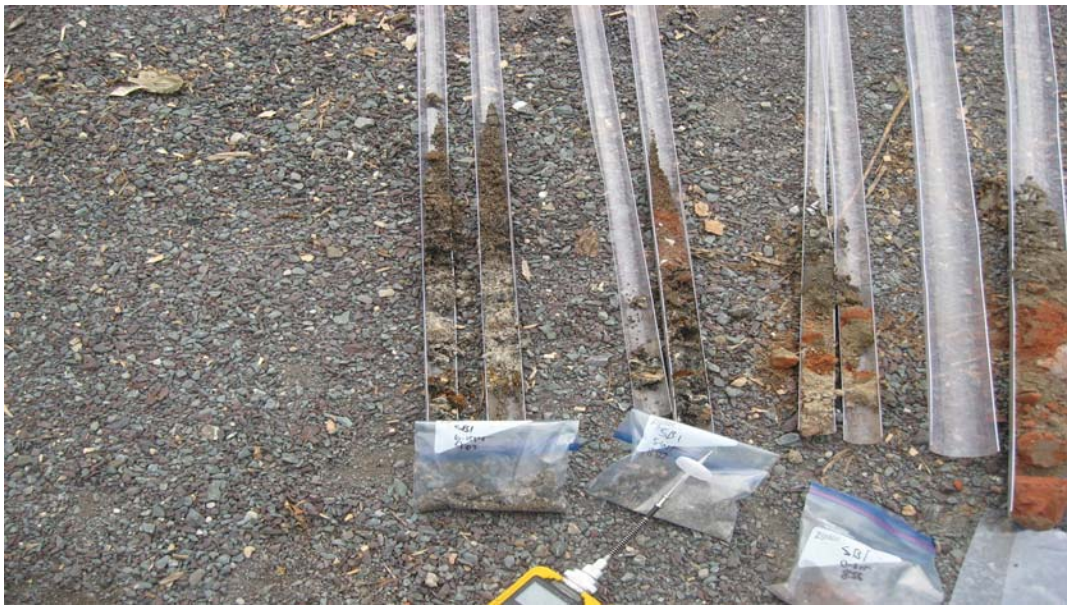
Comments:
Location:

Photographer:
RC

Date:7/27/2017

Direction:

Comments:
Location:SB-1
(from left to right)
10'-15'
5'-10'
0-5'
0-2'(offset)



Envirospec Engineering,PLLC
Photographic Record

Site Name:	**Green Island Remediation**	**Project Number:**	**17-1600**
Site Location:	**Green Island**		

Photographer:

RC

Date:7/26/2017

Direction:

Comments:

Location: SB-1

(from left to right)

25'-30'

20'-25'

15'-20'

10'-15'

Photographer:

RC

Date:7/26/2017

Direction:

Comments:

Location: SB-4

(from left to right)

0-2' (offset)

0-5'

5'-10'

10'-15'

Envirospec Engineering,PLLC
Photographic Record

Site Name:	**Green Island Remediation**	**Project Number:**	**17-1600**
Site Location:	**Green Island**		

Photographer:

RC

Date:7/26/2017

Direction:

Comments:

Location: SB-4
15'-20'

Photographer:

RC

Date:7/26/2017

Direction:

Comments:

Location: SB-7
(from left to right)
0-2' (offset)
0-5'
5-10'

Envirospec Engineering,PLLC
Photographic Record

Site Name:	**Green Island Remediation**	**Project Number:**	**17-1600**
Site Location:	**Green Island**		

Photographer:

RC

Date:7/27/2017

Direction:

Comments:

Location: SB-23
(from left to right)
0-2' (offset)
0-5'
5-10'
10'-15'

Photographer:

Date:

Direction:

Comments:

Location:

Envirospec Engineering,PLLC
Photographic Record

Site Name:	**Green Island Remediation**	**Project Number:**	**17-1600**
Site Location:	**Green Island**		

Photographer:

RC

Date:7/27/2017

Direction:

Comments:

Location: SB-33
(from right to left)
0-2' (offset)
0-5'
5'-10'
10'-15'
15'-20'

Photographer:

RC

Date:7/27/2017

Direction:

Comments:

Location: SB-33

Envirospec Engineering,PLLC
Photographic Record

Site Name:	**Green Island Remediation**	**Project Number:**	**17-1600**
Site Location:	**Green Island**		

Photographer:

Date:

Direction:

Comments:

Location:

Photographer:

RC

Date:7/28/2017

Direction:

Comments:

Location:SB-36

(from left to right)

15'-20'

10'-15'

5'-10'

0-5'

0-2' (offset)

Envirospec Engineering,PLLC
Photographic Record

Site Name:	**Green Island Remediation**	**Project Number:**	**17-1600**
Site Location:	**Green Island**		

Photographer:

RC

Date:7/28/2017

Direction:

Comments:

Location:SB-29

0-2' (offset)

Photographer:

RC

Date:7/28/2017

Direction:

Comments:

Location:SB-29

5'-10'(farthest)

0-5' (closest)

Envirospec Engineering,PLLC
Photographic Record

Site Name:	**Green Island Remediation**	**Project Number:**	**17-1600**
Site Location:	**Green Island**		

Photographer:

RC

Date:7/28/2017

Direction:

Comments:

Location:SB-29

(from left to right)

20'-25'

15'-20'

10'-15'

Photographer:

Date:

Direction:

Comments:

Location:

Envirospec Engineering,PLLC
Photographic Record

Site Name:	**Green Island Remediation**	**Project Number:**	**17-1600**
Site Location:	**Green Island**		

Photographer:

Date:

Direction:

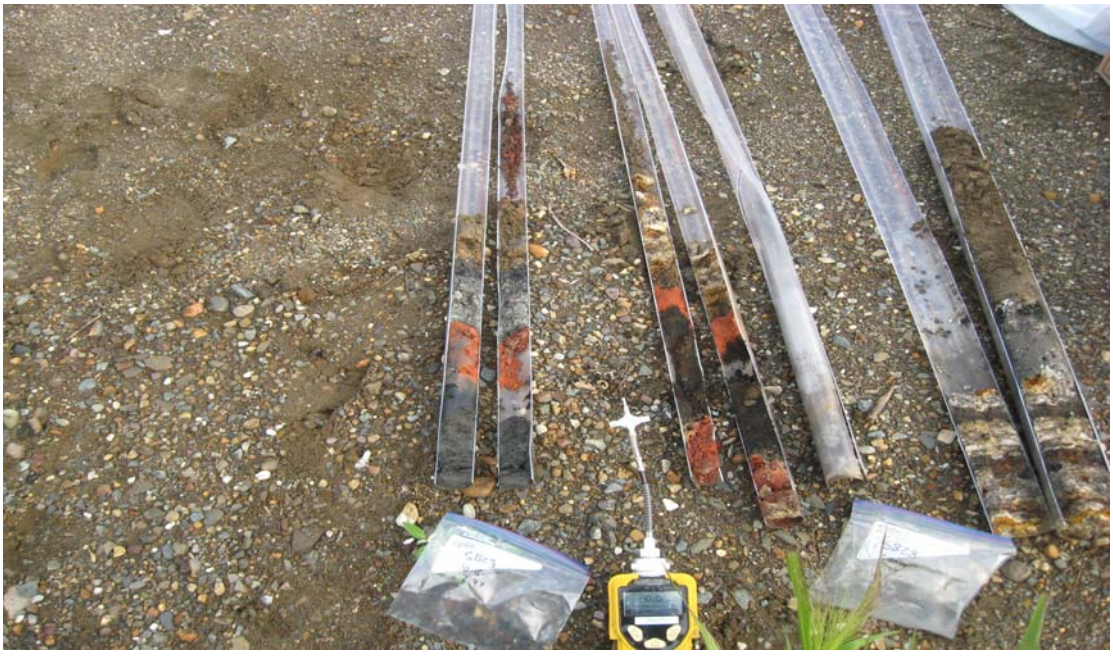
Comments:
Location:

Photographer:
RC

Date:7/28/2017

Direction:

Comments:
Location:SB-28
(right to left)
0-2'(offset)
0-5'
5'-10'
10'-15'



Envirospec Engineering,PLLC
Photographic Record

Site Name:	**Green Island Remediation**	**Project Number:**	**17-1600**
Site Location:	**Green Island**		

Photographer:

RC

Date:7/28/2017

Direction:

Comments:

Location: SB-28

(from left to right)

25'-30'

20'-25'

15'-20'

10'-15'

Photographer:

RC

Date:7/28/2017

Direction:

Comments:

Location: SB-2
5'-10' (left)
0-5'(center
0-2' (offset)

Envirospec Engineering,PLLC
Photographic Record

Site Name:	**Green Island Remediation**	**Project Number:**	**17-1600**
Site Location:	**Green Island**		

Photographer:

RC

Date:7/28/2017

Direction:

Comments:

Location: SB-2

15'-20'(left)

Envirospec Engineering,PLLC
Photographic Record

Site Name:	**Green Island Remediation**	**Project Number:**	**17-1600**
Site Location:	**Green Island**		

Photographer:

RC

Date: 7/31/2017

Direction:

Comments:

Location: SB-15
20'-25'

Photographer:

Date:

Direction:

Comments:

Location:

Envirospec Engineering,PLLC
Photographic Record

Site Name:	**Green Island Remediation**	**Project Number:**	**17-1600**
Site Location:	**Green Island**		

Photographer:

RC

Date:7/31/2017

Direction:

Comments:

Location: SB-18
25'-30'(left)
20'-25' (right)

Photographer:

RC

Date:7/31/2017

Direction:

Comments:

Location: SB-14
20'-25'

Envirospec Engineering,PLLC
Photographic Record

Site Name:	**Green Island Remediation**	**Project Number:**	**17-1600**

Site Location: Green Islandand

Photographer:

RC

Date:8/03/2017

Direction:

Comments:

Location: BS-3A

Photographer:

RC

Date:8/03/2017

Direction:

Comments:

Location: BS-3B

Envirospec Engineering,PLLC
Photographic Record

Site Name:	**Green Island Remediation**	**Project Number:**	**17-1600**

Site Location: Green Island

Photographer: RC	
Date:8/03/2017	
Direction:	
Comments: Location: BS-4B	
Photographer:	
Date:	
Direction:	
Comments:	

Envirospec Engineering,PLLC
Photographic Record

Site Name:	**Green Island Remediation**	**Project Number:**	**17-1600**
Site Location:	**Green Island**		

Photographer:

RC

Date:8/08/2017

Direction:

Comments:

Location of BS-5

Photographer:

RC

Date:8/08/2017

Direction:

Comments:

Location of BS-6
and SE-7

Envirospec Engineering,PLLC
Photographic Record

Site Name:	**Green Island Remediation**	**Project Number:**	**17-1600**
Site Location:	**Green Island**		

Photographer:

RC

Date:8/08/2017

Direction:

Comments:

Location of BS-7

Photographer:

RC

Date:8/08/2017

Direction:

Comments:

Location SE-6

Envirospec Engineering,PLLC
Photographic Record

Site Name:	**Green Island Remediation**	**Project Number:**	**17-1600**
Site Location:	**Green Island**		

Photographer:

CV

Date:8/08/2017

Direction:

Comments:

Location SB-9

Photographer:

CV

Date:8/08/2017

Direction:

Comments:

Location SB-9

Envirospec Engineering,PLLC
Photographic Record

Site Name:	**Green Island Remediation**	**Project Number:**	**17-1600**
Site Location:	**Green Island**		

Photographer:

Date:

Direction:

Comments:

Location:

Photographer:

RC

Date:8/08/2017

Direction:

Comments:

Area between SE-9 and SE-10

Envirospec Engineering,PLLC
Photographic Record

Site Name:	**Green Island Remediation**	**Project Number:**	**17-1600**
Site Location:	**Green Island**		

Photographer:

RC

Date:8/08/2017

Direction:

Comments:
Pore water sample trench

Photographer:

RC

Date:8/08/2017

Direction:

Comments:

Pore water sample trench

Envirospec Engineering,PLLC
Photographic Record

Site Name:	**Green Island Remediation**	**Project Number:**	**17-1600**
Site Location:	**Green Island**		

Photographer:

Date:

Direction:

Comments:

Photographer:

RC

Date:8/08/2017

Direction:

Comments:

water pore sample

Envirospec Engineering,PLLC
Photographic Record

Site Name:	**Green Island Remediation**	**Project Number:**	**17-1600**
Site Location:	**Green Island**		

Photographer:

RC

Date:8/08/2017

Direction:

Comments:

Location of pore water sample trench

Photographer:

Date:

Direction:

Comments:

Envirospec Engineering,PLLC
Photographic Record

Site Name:	**Green Island Remediation**	**Project Number:**	**17-1600**
Site Location:	**Green Island**		

Photographer:

RC

Date:8/08/2017

Direction:

Comments:

Location SE-8

Photographer:

Date:

Direction:

Comments:

Envirospec Engineering,PLLC
Photographic Record

Site Name:	**Green Island Remediation**	**Project Number:**	**17-1600**
Site Location:	**Green Island**		

Photographer:

RC

Date:8/08/2017

Direction:

Comments:

Location of BS-8
and SE-9

Photographer:

RC

Date:8/08/2017

Direction:

Comments:

Location SE-10

Envirospec Engineering,PLLC
Photographic Record

Site Name:	**Green Island Remediation**	**Project Number:**	**17-1600**
Site Location:	**Green Island**		

Photographer:

RC

Date:8/08/2017

Direction:

Comments:

View of bank
form SE-9

Photographer:

RC

Date:8/08/2017

Direction:

Comments:

View of bank
form SE-9

Envirospec Engineering,PLLC
Photographic Record

Site Name:	**Green Island Remediation**	**Project Number:**	**17-1600**
Site Location:	**Green Island**		

Photographer:

RC

Date:8/08/2017

Direction:

Comments:

View of bank
form SE-9

Photographer:

CV

Date:8/08/2017

Direction:

Comments:

View of bank
from SE-10

APPENDIX E
TABLES OF SAMPLE RESULTS

envirospec ENGINEERING, PLLC

349 Northern Boulevard Suite 3▪ Albany, NY 12204 ▪ Phone: 518.453.2203 ▪ Fax: 518.453.2204

A Woman Owned Business Enterprise (WBE)

TABLE 13. Soil Analytical Results

					Sample ID	SB-13 B	SB-13 C	SB-13 D BLACK LAYER	SB-14 BO	SB-14 C	SB-15 C	SB-15 O	SB-18 C	SB-18 O1	SB-34 BO	SB-34 C	SB-34 D BLACK LAYER
					Depth	1'-2'	25'-30'	7'-9'	3'-5'	15'-20'	15'-20'	0-2'	15'-20'	0-2'	1'-2'	28'-30'	7'-9'
					Sample Date	7/20/2017	7/20/2017	7/20/2017	7/20/2017	7/20/2017	7/20/2017	7/20/2017	7/20/2017	7/20/2017	7/20/2017	7/20/2017	7/20/2017
Contaminants	Part 703 Groundwater A Standard **(3)**	6 NYCRR-375.6.8(b) Unrestricted Use	6 NYCRR-375.6.8(b) Residential	6 NYCRR-375.6.8(b) Commercial	6 NYCRR-375.6.8(b) Industrial											
Metals																
Aluminum						9910	8970	4070	8610	7700	7140	8640	7910	7470	9450	5340	NA*
Antimony						2.1 J	ND	ND	ND	ND	ND	ND	ND	4.9	2.6 J	ND	NA*
Arsenic		13	16	16	16	14.3	5.7	7.9	16.2	3.4	2.9	6.4	3.5	30.1	20.3	4.3	NA*
Barium		350	400	400	10000	235	78.1	52.8	73.5	51.1	42.3	51.5	46.7	203	349	32.8	NA*
Beryllium		7.2	72	590	2700	0.29	0.20 J	ND	ND	0.15 J	0.070 J	0.15 J	0.13 J	1.2	0.52	0.11 J	NA*
Cadmium		2.5	4.3	9.3	60	1.3	0.28	0.77	1.3	0.22	0.19	0.22	0.26	1.6	0.9	0.12 J	NA*
Calcium						9830	2860	3690	19200	3690	3790	2040	4220	8020	13900	968	NA*
Chromium **(1)**		1	110	140	800	18.60	13.70	ND	7.50	7.40	6.70	5.40	7.40	20.20	15.40	4.40	NA*
Cobalt						10.8	7.9	10.5	16.2	7.4	6.8	4.9	7.5	10.3	12.1	4.6	NA*
Copper		50	270	270	10000	118	26.2	102	33.7	10.7	8.5	18.2	11.7	173	156	8.7	NA*
Iron						34900	20300	57900	66500	16700	15000	18900	16600	33000	22400	14300	NA*
Lead		63	400	1000	3900	711	71.8	342	60.4	9.8	6.2	49.1	6.3	687	2290	6.4	NA*
Magnesium						3340	3650	1220	6480	4000	3940	1790	4190	2150	2070	2940	NA*
Manganese		1600	2000	10000	10000	656	281	371	1450	342	142	252	207	495	392	391	NA*
Nickel		30	310	310	10000	25.2	17.5	18.6	30.9	15.5	13.5	10.2	15.5	36.1	29.1	10.3	NA*
Potassium						1960	1340	925	1370	1090	970	884	1070	1540	2290	675	NA*
Selenium		3.9	180	1500	6800	1.2	0.35 J	1.9	1.4	ND	0.37 J	0.34 J	ND	1.3	1.8	ND	NA*
Silver		2	180	1500	6800	4.5	2.5	6.4	7	2	1.8	2.2	2	4.5	3.3	1.8	NA*
Sodium						ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA*
Thallium						ND	ND	ND	0.50 J	ND	ND	ND	ND	ND	ND	ND	NA*
Vanadium						24.8	16.6	11.5	31.1	14.7	13.5	16.4	15.4	24.5	28.5	7.6	NA*
Zinc		109	10000	10000	10000	474	80.1	53.1	53.9	48.8	42.4	90.1	49.8	558	530	32.6	NA*
Mercury		0.18	0.81	2.8	5.7	2.6	0.14	6.9	0.067	ND	0.012 J	0.018 J	ND	1.1	11.6	ND	NA*
Metals, SPLP																	
Arsenic	0.025					NA*	NA*	ND	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
Barium	1					NA*	NA*	0.011 J	0.0066 J	0.021 J	NA*	NA*	0.0094 J	0.022 J	NA*	NA*	NA*
Cadmium	0.005					NA*	NA*	ND	ND	ND	NA*	NA*	0.000078 J	0.000061 J	NA*	NA*	NA*
Chromium	0.05					NA*	NA*	0.0020 J	0.0024 J	0.0053 J	NA*	NA*	0.0094 J	0.0091 J	NA*	NA*	NA*
Lead	0.025					NA*	NA*	0.074 J	0.011 J	0.0044 J	NA*	NA*	0.0043 J	0.071 J	NA*	NA*	NA*
Selenium	0.01					NA*	NA*	ND	ND	ND	NA*	NA*	ND	0.0064 J	NA*	NA*	NA*
Silver	0.05					NA*	NA*	ND	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
Mercury	0.0007					NA*	NA*	0.00024	ND	ND	NA*	NA*	ND	0.00031	NA*	NA*	NA*
Pesticides																	
4,4'-DDD		0.0033	13	92	180	NA*	NA*	NA*	ND	ND	NA*	NA*	ND	ND	NA*	NA*	ND
4,4'-DDE		0.0033	8.9	62	120	NA*	NA*	NA*	ND	ND	NA*	NA*	ND	ND	NA*	NA*	ND
4,4'-DDT		0.0033	7.9	47	94	NA*	NA*	NA*	ND	ND	NA*	NA*	ND	ND	NA*	NA*	ND
Aldrin		0.005	0.097	0.68	1.4	NA*	NA*	NA*	ND	ND	NA*	NA*	ND	ND	NA*	NA*	ND
Dieldrin		0.005	0.2	1.4	2.8	NA*	NA*	NA*	ND	ND	NA*	NA*	ND	ND	NA*	NA*	ND
Endosulfan I		2.4	24	200	920	NA*	NA*	NA*	ND	ND	NA*	NA*	ND	ND	NA*	NA*	ND
Endosulfan II		2.4	24	200	920	NA*	NA*	NA*	ND	ND	NA*	NA*	ND	ND	NA*	NA*	ND
Endosulfan sulfate		2.4	24	200	920	NA*	NA*	NA*	ND	ND	NA*	NA*	ND	ND	NA*	NA*	ND
Endrin		0.014	11	89	410	NA*	NA*	NA*	ND	ND	NA*	NA*	ND	ND	NA*	NA*	ND
Endrin aldehyde						NA*	NA*	NA*	ND	ND	NA*	NA*	ND	ND	NA*	NA*	ND
Endrin ketone						NA*	NA*	NA*	ND	ND	NA*	NA*	ND	ND	NA*	NA*	ND
Heptachlor		0.042	2.1	15	29	NA*	NA*	NA*	ND	ND	NA*	NA*	ND	ND	NA*	NA*	ND
Heptachlor epoxide						NA*	NA*	NA*	ND	ND	NA*	NA*	ND	ND	NA*	NA*	ND
Methoxychlor						NA*	NA*	NA*	ND	ND	NA*	NA*	ND	ND	NA*	NA*	ND
Toxaphene						NA*	NA*	NA*	ND	ND	NA*	NA*	ND	ND	NA*	NA*	ND
alpha-BHC		0.02	0.48	3.4	6.8	NA*	NA*	NA*	ND	ND	NA*	NA*	ND	ND	NA*	NA*	ND
alpha-Chlordane		0.094	4.2	24	47	NA*	NA*	NA*	ND	ND	NA*	NA*	ND	ND	NA*	NA*	ND
beta-BHC		0.036	0.36	3	14	NA*	NA*	NA*	ND	ND	NA*	NA*	ND	ND	NA*	NA*	ND
delta-BHC		0.04	100	500	1000	NA*	NA*	NA*	ND	ND	NA*	NA*	ND	ND	NA*	NA*	ND
gamma-BHC (Lindane)		0.1	1.3	9.2	23	NA*	NA*	NA*	ND	ND	NA*	NA*	ND	ND	NA*	NA*	ND
gamma-Chlordane						NA*	NA*	NA*	ND	ND	NA*	NA*	ND	ND	NA*	NA*	ND

TABLE 13. Soil Analytical Results

					Sample ID	SB-13 B	SB-13 C	SB-13 D BLACK LAYER	SB-14 BO	SB-14 C	SB-15 C	SB-15 O	SB-18 C	SB-18 O1	SB-34 BO	SB-34 C	SB-34 D BLACK LAYER
					Depth	1'-2'	25'-30'	7'-9'	3'-5'	15'-20'	15'-20'	0-2'	15'-20'	0-2'	1'-2'	28'-30'	7'-9'
					Sample Date	7/20/2017	7/20/2017	7/20/2017	7/20/2017	7/20/2017	7/20/2017	7/20/2017	7/20/2017	7/20/2017	7/20/2017	7/20/2017	7/20/2017
Contaminants	Part 703 Groundwater A Standard **(3)**	6 NYCRR-375.6.8(b) Unrestricted Use	6 NYCRR-375.6.8(b) Residential	6 NYCRR-375.6.8(b) Commercial	6 NYCRR-375.6.8(b) Industrial												
PCBs																	
PCB-1016 (Aroclor 1016)		0.1	1	1	25	NA*	NA*	NA*	ND	ND	NA*	NA*	ND	ND	NA*	NA*	ND
PCB-1221 (Aroclor 1221)		0.1	1	1	25	NA*	NA*	NA*	ND	ND	NA*	NA*	ND	ND	NA*	NA*	ND
PCB-1232 (Aroclor 1232)		0.1	1	1	25	NA*	NA*	NA*	ND	ND	NA*	NA*	ND	ND	NA*	NA*	ND
PCB-1242 (Aroclor 1242)		0.1	1	1	25	NA*	NA*	NA*	ND	ND	NA*	NA*	ND	ND	NA*	NA*	ND
PCB-1248 (Aroclor 1248)		0.1	1	1	25	NA*	NA*	NA*	ND	ND	NA*	NA*	ND	ND	NA*	NA*	ND
PCB-1254 (Aroclor 1254)		0.1	1	1	25	NA*	NA*	NA*	ND	ND	NA*	NA*	ND	ND	NA*	NA*	ND
PCB-1260 (Aroclor 1260)		0.1	1	1	25	NA*	NA*	NA*	ND	ND	NA*	NA*	ND	ND	NA*	NA*	ND
VOCs																	
1,1,1-Trichloroethane		0.68	100	500	1000	NA*	NA*	ND	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
1,1,2,2-Tetrachloroethane						NA*	NA*	ND	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
1,1,2-Trichloroethane						NA*	NA*	ND	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
1,1,2-Trichlorotrifluoroethane						NA*	NA*	ND	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
1,1-Dichloroethane		0.27	26	240	480	NA*	NA*	ND	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
1,1-Dichloroethene		0.33	100	500	10000	NA*	NA*	ND	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
1,2,4-Trichlorobenzene						NA*	NA*	ND	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
1,2-Dibromo-3-chloropropane						NA*	NA*	ND	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
1,2-Dibromoethane (EDB)						NA*	NA*	ND	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
1,2-Dichlorobenzene		1.1	100	500	1000	NA*	NA*	ND	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
1,2-Dichloroethane		0.02	3.1	30	60	NA*	NA*	ND	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
1,2-Dichloropropane						NA*	NA*	ND	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
1,3-Dichlorobenzene		2.4	49	280	560	NA*	NA*	ND	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
1,4-Dichlorobenzene		1.8	13	130	250	NA*	NA*	ND	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
2-Butanone (MEK)		0.12	100	500	1000	NA*	NA*	0.0604	ND	ND	NA*	NA*	0.0447	ND	NA*	NA*	NA*
2-Hexanone						NA*	NA*	ND	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
4-Methyl-2-pentanone (MIBK)						NA*	NA*	ND	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
Acetone		0.05	100	500	1000	NA*	NA*	0.22	0.0323	ND	NA*	NA*	0.205	0.0049	NA*	NA*	NA*
Benzene		0.06	4.8	44	89	NA*	NA*	0.0343	0.0044	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
Bromodichloromethane						NA*	NA*	ND	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
Bromoform						NA*	NA*	ND	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
Bromomethane						NA*	NA*	ND	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
Carbon disulfide						NA*	NA*	0.0044	ND	ND	NA*	NA*	0.0014 J	ND	NA*	NA*	NA*
Carbon tetrachloride		0.76	2.4	22	44	NA*	NA*	ND	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
Chlorobenzene		1.1	100	500	1000	NA*	NA*	ND	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
Chloroethane						NA*	NA*	ND	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
Chloroform		0.37	49	350	700	NA*	NA*	ND	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
Chloromethane						NA*	NA*	ND	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
Cyclohexane						NA*	NA*	ND	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
Dibromochloromethane						NA*	NA*	ND	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
Dichlorodifluoromethane						NA*	NA*	ND	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
Ethylbenzene		1	41	390	780	NA*	NA*	0.0091	0.0012 J	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
Isopropylbenzene (Cumene)						NA*	NA*	0.0116	ND	0.617	NA*	NA*	ND	ND	NA*	NA*	NA*
Methyl acetate						NA*	NA*	ND	ND	0.134 J	NA*	NA*	ND	ND	NA*	NA*	NA*
Methyl-tert-butyl ether		0.12	100	500	1000	NA*	NA*	ND	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
Methylcyclohexane						NA*	NA*	0.114	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
Methylene Chloride		0.05	100	500	1000	NA*	NA*	ND	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
Styrene						NA*	NA*	ND	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
Tetrachloroethene		1.3	19	150	300	NA*	NA*	ND	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
Toluene		0.7	100	500	1000	NA*	NA*	0.0188	0.0072	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
Trichloroethene		0.47	21	200	400	NA*	NA*	ND	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
Trichlorofluoromethane						NA*	NA*	ND	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
Vinyl chloride		0.02	0.9	13	27	NA*	NA*	ND	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
Xylene (Total) **(2)**		0.26	100	500	1000	NA*	NA*	0.0347	0.0111	ND	NA*	NA*	ND	0.0028 J	NA*	NA*	NA*
cis-1,2-Dichloroethene		0.25	100	500	1000	NA*	NA*	ND	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
cis-1,3-Dichloropropene						NA*	NA*	ND	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
trans-1,2-Dichloroethene		0.19	100	500	1000	NA*	NA*	ND	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
trans-1,3-Dichloropropene						NA*	ND	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*	NA*

TABLE 13. Soil Analytical Results

					Sample ID	SB-13 B	SB-13 C	SB-13 D BLACK LAYER	SB-14 BO	SB-14 C	SB-15 C	SB-15 O	SB-18 C	SB-18 O1	SB-34 BO	SB-34 C	SB-34 D BLACK LAYER
					Depth	1'-2'	25'-30'	7'-9'	3'-5'	15'-20'	15'-20'	0-2'	15'-20'	0-2'	1'-2'	28'-30'	7'-9'
					Sample Date	7/20/2017	7/20/2017	7/20/2017	7/20/2017	7/20/2017	7/20/2017	7/20/2017	7/20/2017	7/20/2017	7/20/2017	7/20/2017	7/20/2017
Contaminants	Part 703 Groundwater A Standard **(3)**	6 NYCRR-375.6.8(b) Unrestricted Use	6 NYCRR-375.6.8(b) Residential	6 NYCRR-375.6.8(b) Commercial	6 NYCRR-375.6.8(b) Industrial												
SVOCs																	
1,2,4-Trichlorobenzene						NA*	NA*	ND	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
2,2'-Oxybis(1-chloropropane)						NA*	NA*	ND	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
2,4,5-Trichlorophenol						NA*	NA*	ND	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
2,4,6-Trichlorophenol						NA*	NA*	ND	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
2,4-Dichlorophenol						NA*	NA*	ND	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
2,4-Dimethylphenol						NA*	NA*	ND	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
2,4-Dinitrophenol						NA*	NA*	ND	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
2,4-Dinitrotoluene						NA*	NA*	ND	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
2,6-Dinitrotoluene						NA*	NA*	ND	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
2-Chloronaphthalene						NA*	NA*	ND	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
2-Chlorophenol						NA*	NA*	ND	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
2-Methylnaphthalene						NA*	NA*	0.37	ND	ND	NA*	NA*	ND	0.17	NA*	NA*	NA*
2-Methylphenol(o-Cresol)		0.33	100	500	1000	NA*	NA*	ND	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
2-Nitroaniline						NA*	NA*	ND	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
2-Nitrophenol						NA*	NA*	ND	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
3&4-Methylphenol(m&p Cresol)		0.33	100	500	1000	NA*	NA*	0.0987	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
3,3'-Dichlorobenzidine						NA*	NA*	ND	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
3-Nitroaniline						NA*	NA*	ND	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
4,6-Dinitro-2-methylphenol						NA*	NA*	ND	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
4-Bromophenylphenyl ether						NA*	NA*	ND	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
4-Chloro-3-methylphenol						NA*	NA*	ND	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
4-Chloroaniline						NA*	NA*	ND	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
4-Chlorophenylphenyl ether						NA*	NA*	ND	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
4-Nitroaniline						NA*	NA*	ND	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
4-Nitrophenol						NA*	NA*	ND	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
Acenaphthene		20	100	500	1000	NA*	NA*	0.119	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
Acenaphthylene		100	100	500	1000	NA*	NA*	ND	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
Acetophenone						NA*	NA*	ND	ND	ND	NA*	NA*	ND	0.0904	NA*	NA*	NA*
Anthracene		100	100	500	1000	NA*	NA*	0.172	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
Atrazine						NA*	NA*	ND	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
Benzaldehyde						NA*	NA*	ND	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
Benzo(a)anthracene		1	1	5.6	11	NA*	NA*	0.342	ND	ND	NA*	NA*	ND	0.292	NA*	NA*	NA*
Benzo(a)pyrene		1	1	1	1.1	NA*	NA*	0.211	ND	ND	NA*	NA*	ND	0.362	NA*	NA*	NA*
Benzo(b)fluoranthene		1	1	5.6	11	NA*	NA*	0.342	ND	ND	NA*	NA*	ND	0.728	NA*	NA*	NA*
Benzo(g,h,i)perylene		100	100	500	1000	NA*	NA*	0.107	ND	ND	NA*	NA*	ND	0.206	NA*	NA*	NA*
Benzo(k)fluoranthene		0.8	3.9	56	110	NA*	NA*	0.129	ND	ND	NA*	NA*	ND	0.322	NA*	NA*	NA*
Biphenyl (Diphenyl)						NA*	NA*	0.103	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
Butylbenzylphthalate						NA*	NA*	ND	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
Caprolactam						NA*	NA*	ND	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
Carbazole						NA*	NA*	0.0911	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
Chrysene		1	3.9	56	110	NA*	NA*	0.523	ND	ND	NA*	NA*	ND	0.422	NA*	NA*	NA*
Di-n-butylphthalate						NA*	NA*	ND	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
Di-n-octylphthalate						NA*	NA*	ND	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
Dibenz(a,h)anthracene		0.33	0.33	0.56	1.1	NA*	NA*	ND	ND	ND	NA*	NA*	ND	0.0936	NA*	NA*	NA*
Dibenzofuran		7	59	350	1000	NA*	NA*	0.123	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
Diethylphthalate						NA*	NA*	ND	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
Dimethylphthalate						NA*	NA*	ND	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
Fluoranthene		100	100	500	1000	NA*	NA*	0.566	0.116	ND	NA*	NA*	ND	0.451	NA*	NA*	NA*
Fluorene		30	100	500	1000	NA*	NA*	0.249	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
Hexachloro-1,3-butadiene						NA*	NA*	ND	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
Hexachlorobenzene		0.33	1.2	6	12	NA*	NA*	ND	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
Hexachlorocyclopentadiene						NA*	NA*	ND	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
Hexachloroethane						NA*	NA*	ND	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
Indeno(1,2,3-cd)pyrene		0.5	0.5	5.6	11	NA*	NA*	0.101	ND	ND	NA*	NA*	ND	0.209	NA*	NA*	NA*
Isophorone						NA*	NA*	ND	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
N-Nitroso-di-n-propylamine						NA*	NA*	ND	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
N-Nitrosodiphenylamine						NA*	NA*	ND	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
Naphthalene		12	100	500	1000	NA*	NA*	0.336	ND	ND	NA*	NA*	0.136	0.143	NA*	NA*	NA*
Nitrobenzene						NA*	NA*	ND	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*

TABLE 13. Soil Analytical Results

	Sample ID	SB-13 B	SB-13 C	SB-13 D BLACK LAYER	SB-14 BO	SB-14 C	SB-15 C	SB-15 O	SB-18 C	SB-18 O1	SB-34 BO	SB-34 C	SB-34 D BLACK LAYER
	Depth	1'-2'	25'-30'	7'-9'	3'-5'	15'-20'	15'-20'	0-2'	15'-20'	0-2'	1'-2'	28'-30'	7'-9'
	Sample Date	7/20/2017	7/20/2017	7/20/2017	7/20/2017	7/20/2017	7/20/2017	7/20/2017	7/20/2017	7/20/2017	7/20/2017	7/20/2017	7/20/2017
Contaminants	Part 703 Groundwater A Standard **(3)**	6 NYCRR-375.6.8(b) Unrestricted Use	6 NYCRR-375.6.8(b) Residential	6 NYCRR-375.6.8(b) Commercial	6 NYCRR-375.6.8(b) Industrial												
Pentachlorophenol		0.8	6.7	6.7	55	NA*	NA*	ND	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
Phenanthrene		100	100	500	1000	NA*	NA*	0.883	ND	ND	NA*	NA*	ND	0.286	NA*	NA*	NA*
Phenol		0.33	100	500	1000	NA*	NA*	ND	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
Pyrene		100	100	500	1000	NA*	NA*	0.537	0.0863	ND	NA*	NA*	ND	0.825	NA*	NA*	NA*
bis(2-Chloroethoxy)methane						NA*	NA*	ND	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
bis(2-Chloroethyl) ether						NA*	NA*	ND	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
bis(2-Ethylhexyl)phthalate						NA*	NA*	ND	ND	ND	NA*	NA*	ND	0.344	NA*	NA*	NA*
TPH																	
Total Petroleum Hydrocarbons						NA*	NA*	381	140	268	NA*	NA*	167	723	NA*	NA*	NA*

Notes:

(1) Standards based on Chromium, hexavalent.
(2) Standards based on Xylene (mixed).
(3) Groundwater standards only provided for those metals for which SPLP analyses were completed.
(4) 'ND' = Not Detected
(5) 'NA*' = Not Analyzed
(6) All results in ppm
(7) Results exceeding Groundwater A Standard's are RED
(8) Results exceeding unrestricted use SCOs are ORANGE
(9) Results exceeding residential SCOs are RED
(10) Results exceeding commercial SCOs are BLUE
(11) Results exceeding industrial SCOs are GREEN

TABLE 13. Soil Analytical Results

					Sample ID	SB-10B	SB-10C	SB-10C DUP	SB-27 DO	SB-27 DO2	SB-27B	SB-27C	SB-31 D	SB-31B	SB-31C	SB-31C DUP	SB-32A DUP	SB-32A	SB-32B	SB-32C	SB-35 BO	SB-35 CO2	SB-35 D
					Depth	1'-3'	28'-30'	28'-30'	4'-5'	18'-20'	2'-3'	26'-27'	19'-20'	1'-3'	30'-35'	30'-35'	0-2"	0-2"	2"-2'	25'-30'	2'-4'	26'-27'	5'-10'
					Sample Date	7/21/2017	7/21/2017	7/21/2017	7/21/2017	7/21/2017	7/21/2017	7/21/2017	7/21/2017	7/21/2017	7/21/2017	7/21/2017	7/21/2017	7/21/2017	7/21/2017	7/21/2017	7/20/2017	7/21/2017	7/20/2017
Contaminants	Part 703 Groundwater A Standard **(3)**	6 NYCRR-375.6.8(b) Unrestricted Use	6 NYCRR-375.6.8(b) Residential	6 NYCRR-375.6.8(b) Commercial	6 NYCRR-375.6.8(b) Industrial																	
Metals																						
Aluminum						15500	8870	8060	NA*	NA*	15000	8780	NA*	11700	7550	7060	NA*	12000	9510	7950	9240	7760	9410
Antimony						ND	ND	ND	NA*	NA*	ND	ND	NA*	ND	ND	ND	NA*	ND	ND	ND	ND	ND	ND
Arsenic		13	16	16	16	13.2	3.7	3.8	NA*	NA*	8.1	3.4	NA*	17	4.1	2.4	NA*	15.1	11.5	3.6	11.8	3.9	6.7
Barium		350	400	400	10000	249	62.9	41.4	NA*	NA*	116	39.4	NA*	286	35.1	32.3	NA*	358	150	47.6	133	57.7	84.7
Beryllium		7.2	72	590	2700	0.36	0.19 J	0.12 J	NA*	NA*	0.52	0.065 J	NA*	0.5	0.037 J	0.077 J	NA*	8.4	0.65	0.11 J	ND	0.13 J	ND
Cadmium		2.5	4.3	9.3	60	0.92	0.15 J	0.16 J	NA*	NA*	0.49	0.19	NA*	0.91	0.25	0.10 J	NA*	2.4	1.4	0.14 J	1	0.15 J	0.84
Calcium						41300	4990	4260	NA*	NA*	7770	1250	NA*	32900	3290	3210	NA*	8110	9360	4680	2980	1640	3510
Chromium **(1)**		1	110	140	800	16.7	7.9	7	NA*	NA*	13.9	5.6	NA*	21.1	3.8	4.5	NA*	75.8	21.9	6.5	16.7	7.5	4.8
Cobalt						10.8	7.8	7.2	NA*	NA*	11.5	6.6	NA*	8.7	7.5	6.2	NA*	20.9	10.4	6.9	12.1	6.2	11.2
Copper		50	270	270	10000	111	12.6	10.1	NA*	NA*	32.4	9.9	NA*	115	12.8	7.9	NA*	569	389	13.8	87.1	12.2	45.4
Iron						43900	17700	16300	NA*	NA*	30500	19100	NA*	41400	35500	15200	NA*	60000	40600	20900	61200	17700	56400
Lead		63	400	1000	3900	373	8.9	6.9	NA*	NA*	17	5.7	NA*	521	47.9	5.1	NA*	1030	387	30.9	198	9.1	128
Magnesium						5640	4650	4150	NA*	NA*	6810	5240	NA*	3830	3830	3970	NA*	4290	3860	4130	2460	3670	2430
Manganese		1600	2000	10000	10000	1040	247	146	NA*	NA*	776	309	NA*	576	427	280	NA*	666	495	361	747	200	654
Nickel		30	310	310	10000	32.4	17.9	15.7	NA*	NA*	25.9	15.2	NA*	22	15.8	13.3	NA*	122	36.3	14.7	24.8	13.4	19.3
Potassium						2780	1460	1520	NA*	NA*	1950	830	NA*	2260	1400	1240	NA*	2570	1880	1440	1480	1270	1720
Selenium		3.9	180	1500	6800	1.1	0.37 J	0.39 J	NA*	NA*	0.41 J	ND	NA*	1.8	ND	ND	NA*	1.6	1.2	ND	1.1	ND	1.1
Silver		2	180	1500	6800	3.9	1.9	1.8	NA*	NA*	3.4	2.3	NA*	4.2	3.2	1.7	NA*	6.3	3.8	1.9	7	2.2	6.3
Sodium						1290	ND	ND	NA*	NA*	ND	ND	NA*	325 J	ND	ND	NA*	ND	ND	ND	ND	ND	ND
Thallium						0.21 J	ND	ND	NA*	NA*	ND	ND	NA*	ND	0.31 J	ND	NA*	0.44 J	ND	ND	ND	ND	ND
Vanadium						25.6	17.4	16.4	NA*	NA*	22	12	NA*	27.5	15.6	11.7	NA*	27.7	24.8	14.2	30.8	13.3	21.8
Zinc		109	10000	10000	10000	289	54.7	50.6	NA*	NA*	82.7	47.7	NA*	405	41.8	43.9	NA*	1820	438	51.8	179	43.1	104
Mercury		0.18	0.81	2.8	5.7	2.6	ND	ND	NA*	NA*	0.066	0.052	NA*	1.5	0.042	ND	NA*	2.5	0.93	ND	0.65	ND	0.49
Metals, SPLP																						
Arsenic	0.025					NA*	ND	NA*	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	ND	ND	ND	ND	ND	NA*	0.029
Barium	1					NA*	0.0079 J	NA*	NA*	NA*	NA*	NA*	NA*	0.037 J	NA*	NA*	0.021 J	0.022 J	0.013 J	0.0067 J	0.054 J	NA*	0.010 J
Cadmium	0.005					NA*	ND	NA*	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	ND	ND	0.000070 J	ND	ND	NA*	ND
Chromium	0.05					NA*	0.0043 J	NA*	NA*	NA*	NA*	NA*	NA*	0.011	NA*	NA*	0.0091 J	0.0087 J	0.0050 J	0.0026 J	0.03	NA*	0.0042 J
Lead	0.025					NA*	ND	NA*	NA*	NA*	NA*	NA*	NA*	0.15	NA*	NA*	0.091	0.087	0.018	ND	0.035	NA*	0.0046 J
Selenium	0.01					NA*	ND	NA*	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	ND	ND	ND	ND	ND	NA*	ND
Silver	0.05					NA*	ND	NA*	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	ND	ND	ND	ND	ND	NA*	ND
Mercury	0.0007					NA*	ND	NA*	NA*	NA*	NA*	NA*	NA*	0.00064	NA*	NA*	0.00035	0.00037	0.00024	ND	0.00028	NA*	ND
Pesticides																						
4,4'-DDD		0.0033	13	92	180	NA*	ND	NA*	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	ND	ND	ND	ND	ND	NA*	ND
4,4'-DDE		0.0033	8.9	62	120	NA*	ND	NA*	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	ND	ND	ND	ND	ND	NA*	ND
4,4'-DDT		0.0033	7.9	47	94	NA*	ND	NA*	NA*	NA*	NA*	NA*	NA*	0.0203	NA*	NA*	ND	0.0054	ND	ND	ND	NA*	ND
Aldrin		0.005	0.097	0.68	1.4	NA*	ND	NA*	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	ND	ND	ND	ND	ND	NA*	ND
Dieldrin		0.005	0.2	1.4	2.8	NA*	ND	NA*	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	ND	ND	ND	ND	ND	NA*	ND
Endosulfan I		2.4	24	200	920	NA*	ND	NA*	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	ND	ND	ND	ND	ND	NA*	ND
Endosulfan II		2.4	24	200	920	NA*	ND	NA*	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	0.0192	ND	ND	ND	ND	NA*	ND
Endosulfan sulfate		2.4	24	200	920	NA*	ND	NA*	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	ND	ND	ND	ND	ND	NA*	ND
Endrin		0.014	11	89	410	NA*	ND	NA*	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	ND	ND	ND	ND	ND	NA*	ND
Endrin aldehyde						NA*	ND	NA*	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	ND	ND	ND	ND	ND	NA*	ND
Endrin ketone						NA*	ND	NA*	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	ND	0.0044	ND	ND	ND	NA*	ND
Heptachlor		0.042	2.1	15	29	NA*	ND	NA*	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	ND	ND	ND	ND	ND	NA*	ND
Heptachlor epoxide						NA*	ND	NA*	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	ND	ND	ND	ND	ND	NA*	ND
Methoxychlor						NA*	ND	NA*	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	ND	ND	ND	ND	ND	NA*	ND
Toxaphene						NA*	ND	NA*	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	ND	ND	ND	ND	ND	NA*	ND
alpha-BHC		0.02	0.48	3.4	6.8	NA*	ND	NA*	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	0.0028	ND	ND	ND	ND	NA*	ND
alpha-Chlordane		0.094	4.2	24	47	NA*	ND	NA*	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	ND	ND	ND	ND	ND	NA*	ND
beta-BHC		0.036	0.36	3	14	NA*	ND	NA*	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	ND	ND	ND	ND	ND	NA*	ND
delta-BHC		0.04	100	500	1000	NA*	ND	NA*	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	ND	ND	ND	ND	ND	NA*	ND
gamma-BHC (Lindane)		0.1	1.3	9.2	23	NA*	ND	NA*	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	ND	ND	ND	ND	ND	NA*	ND
gamma-Chlordane						NA*	ND	NA*	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	ND	ND	ND	ND	ND	NA*	ND

TABLE 13. Soil Analytical Results

					Sample ID	SB-10B	SB-10C	SB-10C DUP	SB-27 DO	SB-27 DO2	SB-27B	SB-27C	SB-31 D	SB-31B	SB-31C	SB-31C DUP	SB-32A DUP	SB-32A	SB-32B	SB-32C	SB-35 BO	SB-35 CO2	SB-35 D
					Depth	1'-3'	28'-30'	28'-30'	4'-5'	18'-20'	2'-3'	26'-27'	19'-20'	1'-3'	30'-35'	30'-35'	0-2"	0-2"	2"-2'	25'-30'	2'-4'	26'-27'	5'-10'
					Sample Date	7/21/2017	7/21/2017	7/21/2017	7/21/2017	7/21/2017	7/21/2017	7/21/2017	7/21/2017	7/21/2017	7/21/2017	7/21/2017	7/21/2017	7/21/2017	7/21/2017	7/21/2017	7/20/2017	7/21/2017	7/20/2017
Contaminants	Part 703 Groundwater A Standard **(3)**	6 NYCRR-375.6.8(b) Unrestricted Use	6 NYCRR-375.6.8(b) Residential	6 NYCRR-375.6.8(b) Commercial	6 NYCRR-375.6.8(b) Industrial																	
PCBs																						
PCB-1016 (Aroclor 1016)		0.1	1	1	25	NA*	ND	NA*	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	ND	ND	ND	ND	ND	NA*	ND
PCB-1221 (Aroclor 1221)		0.1	1	1	25	NA*	ND	NA*	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	ND	ND	ND	ND	ND	NA*	ND
PCB-1232 (Aroclor 1232)		0.1	1	1	25	NA*	ND	NA*	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	ND	ND	ND	ND	ND	NA*	ND
PCB-1242 (Aroclor 1242)		0.1	1	1	25	NA*	ND	NA*	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	ND	ND	ND	ND	ND	NA*	ND
PCB-1248 (Aroclor 1248)		0.1	1	1	25	NA*	ND	NA*	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	ND	ND	ND	ND	ND	NA*	ND
PCB-1254 (Aroclor 1254)		0.1	1	1	25	NA*	ND	NA*	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	ND	ND	ND	ND	ND	NA*	ND
PCB-1260 (Aroclor 1260)		0.1	1	1	25	NA*	ND	NA*	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	ND	ND	ND	ND	ND	NA*	ND
VOCs																						
1,1,1-Trichloroethane		0.68	100	500	1000	ND	ND	ND	ND	ND	NA*	NA*	ND	NA*	NA*	NA*	NA*	ND	ND	ND	ND	NA*	ND
1,1,2,2-Tetrachloroethane						ND	ND	ND	ND	ND	NA*	NA*	ND	NA*	NA*	NA*	NA*	ND	ND	ND	ND	NA*	ND
1,1,2-Trichloroethane						ND	ND	ND	ND	ND	NA*	NA*	ND	NA*	NA*	NA*	NA*	ND	ND	ND	ND	NA*	ND
1,1,2-Trichlorotrifluoroethane						ND	ND	ND	ND	ND	NA*	NA*	ND	NA*	NA*	NA*	NA*	ND	ND	ND	ND	NA*	ND
1,1-Dichloroethane		0.27	26	240	480	ND	ND	ND	ND	ND	NA*	NA*	ND	NA*	NA*	NA*	NA*	ND	ND	ND	ND	NA*	ND
1,1-Dichloroethene		0.33	100	500	1000	ND	ND	ND	ND	ND	NA*	NA*	ND	NA*	NA*	NA*	NA*	ND	ND	ND	ND	NA*	ND
1,2,4-Trichlorobenzene						ND	ND	ND	ND	ND	NA*	NA*	ND	NA*	NA*	NA*	NA*	ND	ND	ND	ND	NA*	ND
1,2-Dibromo-3-chloropropane						ND	ND	ND	ND	ND	NA*	NA*	ND	NA*	NA*	NA*	NA*	ND	ND	ND	ND	NA*	ND
1,2-Dibromoethane (EDB)						ND	ND	ND	ND	ND	NA*	NA*	ND	NA*	NA*	NA*	NA*	ND	ND	ND	ND	NA*	ND
1,2-Dichlorobenzene		1.1	100	500	1000	ND	ND	ND	ND	ND	NA*	NA*	ND	NA*	NA*	NA*	NA*	ND	ND	ND	ND	NA*	ND
1,2-Dichloroethane		0.02	3.1	30	60	ND	ND	ND	ND	ND	NA*	NA*	ND	NA*	NA*	NA*	NA*	ND	ND	ND	ND	NA*	ND
1,2-Dichloropropane						ND	ND	ND	ND	ND	NA*	NA*	ND	NA*	NA*	NA*	NA*	ND	ND	ND	ND	NA*	ND
1,3-Dichlorobenzene		2.4	49	280	560	ND	ND	ND	ND	ND	NA*	NA*	ND	NA*	NA*	NA*	NA*	ND	ND	ND	ND	NA*	ND
1,4-Dichlorobenzene		1.8	13	130	250	ND	ND	ND	ND	ND	NA*	NA*	ND	NA*	NA*	NA*	NA*	ND	ND	ND	ND	NA*	ND
2-Butanone (MEK)		0.12	100	500	1000	ND	ND	ND	0.0584	ND	NA*	NA*	ND	NA*	NA*	NA*	NA*	ND	ND	ND	0.0513	NA*	ND
2-Hexanone						ND	ND	ND	ND	ND	NA*	NA*	ND	NA*	NA*	NA*	NA*	ND	ND	ND	ND	NA*	ND
4-Methyl-2-pentanone (MIBK)						ND	ND	ND	ND	ND	NA*	NA*	ND	NA*	NA*	NA*	NA*	ND	ND	ND	ND	NA*	ND
Acetone		0.05	100	500	1000	0.0076	ND	ND	0.258	0.0629	NA*	NA*	0.0103	NA*	NA*	NA*	NA*	ND	0.0025	0.0138	0.158	NA*	ND
Benzene		0.06	4.8	44	89	ND	ND	ND	ND	ND	NA*	NA*	ND	NA*	NA*	NA*	NA*	ND	ND	ND	0.0014 J	NA*	ND
Bromodichloromethane						ND	ND	ND	ND	ND	NA*	NA*	ND	NA*	NA*	NA*	NA*	ND	ND	ND	ND	NA*	ND
Bromoform						ND	ND	ND	ND	ND	NA*	NA*	ND	NA*	NA*	NA*	NA*	ND	ND	ND	ND	NA*	ND
Bromomethane						ND	ND	ND	ND	ND	NA*	NA*	ND	NA*	NA*	NA*	NA*	ND	ND	ND	ND	NA*	ND
Carbon disulfide						ND	ND	ND	ND	ND	NA*	NA*	0.0017 J	NA*	NA*	NA*	NA*	ND	ND	ND	0.0019 J	NA*	ND
Carbon tetrachloride		0.76	2.4	22	44	ND	ND	ND	ND	ND	NA*	NA*	ND	NA*	NA*	NA*	NA*	ND	ND	ND	ND	NA*	ND
Chlorobenzene		1.1	100	500	1000	ND	ND	ND	ND	ND	NA*	NA*	ND	NA*	NA*	NA*	NA*	ND	ND	ND	ND	NA*	ND
Chloroethane						ND	ND	ND	ND	ND	NA*	NA*	ND	NA*	NA*	NA*	NA*	ND	ND	ND	ND	NA*	ND
Chloroform		0.37	49	350	700	ND	ND	ND	ND	ND	NA*	NA*	ND	NA*	NA*	NA*	NA*	ND	ND	ND	ND	NA*	ND
Chloromethane						ND	ND	ND	ND	ND	NA*	NA*	ND	NA*	NA*	NA*	NA*	ND	ND	ND	ND	NA*	ND
Cyclohexane						ND	1.34	3.4	0.0026 J	ND	NA*	NA*	ND	NA*	NA*	NA*	NA*	ND	ND	ND	ND	NA*	0.372
Dibromochloromethane						ND	ND	ND	ND	ND	NA*	NA*	ND	NA*	NA*	NA*	NA*	ND	ND	ND	ND	NA*	ND
Dichlorodifluoromethane						ND	ND	ND	ND	ND	NA*	NA*	ND	NA*	NA*	NA*	NA*	ND	ND	ND	ND	NA*	ND
Ethylbenzene		1	41	390	780	ND	ND	ND	ND	ND	NA*	NA*	ND	NA*	NA*	NA*	NA*	ND	ND	ND	0.0025	NA*	0.408
Isopropylbenzene (Cumene)						ND	4.18	2.57	0.0049	ND	NA*	NA*	ND	NA*	NA*	NA*	NA*	ND	ND	ND	0.0022 J	NA*	0.235 J
Methyl acetate						ND	0.902	1.85	ND	ND	NA*	NA*	ND	NA*	NA*	NA*	NA*	ND	ND	ND	ND	NA*	0.503
Methyl-tert-butyl ether		0.12	100	500	1000	ND	ND	ND	0.0071	ND	NA*	NA*	ND	NA*	NA*	NA*	NA*	ND	ND	ND	ND	NA*	ND
Methylcyclohexane						ND	6.91	12.1	0.0125	ND	NA*	NA*	ND	NA*	NA*	NA*	NA*	ND	ND	ND	0.0106	NA*	1.27
Methylene Chloride		0.05	100	500	1000	ND	ND	ND	ND	ND	NA*	NA*	ND	NA*	NA*	NA*	NA*	ND	ND	ND	ND	NA*	ND
Styrene						ND	ND	ND	ND	ND	NA*	NA*	ND	NA*	NA*	NA*	NA*	ND	ND	ND	ND	NA*	ND
Tetrachloroethene		1.3	19	150	300	ND	ND	ND	ND	ND	NA*	NA*	ND	NA*	NA*	NA*	NA*	ND	ND	ND	ND	NA*	ND
Toluene		0.7	100	500	1000	ND	ND	ND	ND	0.0011 J	NA*	NA*	ND	NA*	NA*	NA*	NA*	ND	ND	ND	0.0019 J	NA*	0.16 J
Trichloroethene		0.47	21	200	400	ND	ND	ND	ND	ND	NA*	NA*	ND	NA*	NA*	NA*	NA*	ND	ND	ND	ND	NA*	ND
Trichlorofluoromethane						ND	ND	ND	ND	ND	NA*	NA*	ND	NA*	NA*	NA*	NA*	ND	ND	ND	ND	NA*	ND
Vinyl chloride		0.02	0.9	13	27	ND	ND	ND	ND	ND	NA*	NA*	ND	NA*	NA*	NA*	NA*	ND	ND	ND	ND	NA*	ND
Xylene (Total) **(2)**		0.26	100	500	1000	ND	ND	ND	0.0019 J	ND	NA*	NA*	ND	NA*	NA*	NA*	NA*	ND	ND	ND	0.0062	NA*	0.802
cis-1,2-Dichloroethene		0.25	100	500	1000	ND	ND	ND	ND	ND	NA*	NA*	ND	NA*	NA*	NA*	NA*	ND	ND	ND	ND	NA*	ND
cis-1,3-Dichloropropene						ND	ND	ND	ND	ND	NA*	NA*	ND	NA*	NA*	NA*	NA*	ND	ND	ND	ND	NA*	ND
trans-1,2-Dichloroethene		0.19	100	500	1000	ND	ND	ND	ND	ND	NA*	NA*	ND	NA*	NA*	NA*	NA*	ND	ND	ND	ND	NA*	ND
trans-1,3-Dichloropropene						ND	ND	ND	ND	ND	NA*	NA*	ND	NA*	NA*	NA*	NA*	ND	ND	ND	ND	NA*	ND

TABLE 13. Soil Analytical Results

					Sample ID	SB-10B	SB-10C	SB-10C DUP	SB-27 DO	SB-27 DO2	SB-27B	SB-27C	SB-31 D	SB-31B	SB-31C	SB-31C DUP	SB-32A DUP	SB-32A	SB-32B	SB-32C	SB-35 BO	SB-35 CO2	SB-35 D
					Depth	1'-3'	28'-30'	28'-30'	4'-5'	18'-20'	2'-3'	26'-27'	19'-20'	1'-3'	30'-35'	30'-35'	0-2"	0-2"	2"-2'	25'-30'	2'-4'	26'-27'	5'-10'
					Sample Date	7/21/2017	7/21/2017	7/21/2017	7/21/2017	7/21/2017	7/21/2017	7/21/2017	7/21/2017	7/21/2017	7/21/2017	7/21/2017	7/21/2017	7/21/2017	7/21/2017	7/21/2017	7/20/2017	7/21/2017	7/20/2017
Contaminants	Part 703 Groundwater A Standard **(3)**	6 NYCRR-375.6.8(b) Unrestricted Use	6 NYCRR-375.6.8(b) Residential	6 NYCRR-375.6.8(b) Commercial	6 NYCRR-375.6.8(b) Industrial																	
SVOCs																						
1,2,4-Trichlorobenzene						ND	ND	ND	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	NA*	ND	ND	ND	ND	NA*	ND
2,2'-Oxybis(1-chloropropane)						ND	ND	ND	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	NA*	ND	ND	ND	ND	NA*	ND
2,4,5-Trichlorophenol						ND	ND	ND	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	NA*	ND	ND	ND	ND	NA*	ND
2,4,6-Trichlorophenol						ND	ND	ND	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	NA*	ND	ND	ND	ND	NA*	ND
2,4-Dichlorophenol						ND	ND	ND	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	NA*	ND	ND	ND	ND	NA*	ND
2,4-Dimethylphenol						ND	ND	ND	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	NA*	ND	ND	ND	ND	NA*	ND
2,4-Dinitrophenol						ND	ND	ND	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	NA*	ND	ND	ND	ND	NA*	ND
2,4-Dinitrotoluene						ND	ND	ND	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	NA*	ND	ND	ND	ND	NA*	ND
2,6-Dinitrotoluene						ND	ND	ND	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	NA*	ND	ND	ND	ND	NA*	ND
2-Chloronaphthalene						ND	ND	ND	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	NA*	ND	ND	ND	ND	NA*	ND
2-Chlorophenol						ND	ND	ND	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	NA*	ND	ND	ND	ND	NA*	ND
2-Methylnaphthalene						0.0807	ND	ND	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	NA*	0.15	ND	ND	0.628	NA*	3.26
2-Methylphenol(o-Cresol)		0.33	100	500	1000	ND	ND	ND	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	NA*	ND	ND	ND	ND	NA*	ND
2-Nitroaniline						ND	ND	ND	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	NA*	ND	ND	ND	ND	NA*	ND
2-Nitrophenol						ND	ND	ND	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	NA*	ND	ND	ND	ND	NA*	ND
3&4-Methylphenol(m&p Cresol)		0.33	100	500	1000	ND	ND	ND	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	NA*	ND	ND	ND	ND	NA*	ND
3,3'-Dichlorobenzidine						ND	ND	ND	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	NA*	ND	ND	ND	ND	NA*	ND
3-Nitroaniline						ND	ND	ND	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	NA*	ND	ND	ND	ND	NA*	ND
4,6-Dinitro-2-methylphenol						ND	ND	ND	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	NA*	ND	ND	ND	ND	NA*	ND
4-Bromophenylphenyl ether						ND	ND	ND	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	NA*	ND	ND	ND	ND	NA*	ND
4-Chloro-3-methylphenol						ND	ND	ND	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	NA*	ND	ND	ND	ND	NA*	ND
4-Chloroaniline						ND	ND	ND	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	NA*	ND	ND	ND	ND	NA*	ND
4-Chlorophenylphenyl ether						ND	ND	ND	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	NA*	ND	ND	ND	ND	NA*	ND
4-Nitroaniline						ND	ND	ND	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	NA*	ND	ND	ND	ND	NA*	ND
4-Nitrophenol						ND	ND	ND	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	NA*	ND	ND	ND	ND	NA*	ND
Acenaphthene		20	100	500	1000	ND	ND	ND	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	NA*	0.0956	ND	ND	0.325	NA*	ND
Acenaphthylene		100	100	500	1000	ND	ND	ND	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	NA*	0.137	ND	ND	0.374	NA*	ND
Acetophenone						ND	ND	ND	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	NA*	ND	ND	ND	ND	NA*	ND
Anthracene		100	100	500	1000	ND	0.89	1.92	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	NA*	0.347	0.106	ND	0.933	NA*	0.275
Atrazine						ND	ND	ND	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	NA*	ND	ND	ND	ND	NA*	ND
Benzaldehyde						ND	ND	ND	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	NA*	0.178	ND	ND	ND	NA*	ND
Benzo(a)anthracene		1	1	5.6	11	0.254	ND	0.164	NA*	NA*	NA*	NA*	NA*	0.113	NA*	NA*	NA*	1.69	0.456	ND	2.37	NA*	ND
Benzo(a)pyrene		1	1	1	1.1	0.268	ND	ND	NA*	NA*	NA*	NA*	NA*	0.103	NA*	NA*	NA*	1.74	0.446	ND	2.04	NA*	ND
Benzo(b)fluoranthene		1	1	5.6	11	0.479	ND	ND	NA*	NA*	NA*	NA*	NA*	0.201	NA*	NA*	NA*	2.49	0.617	ND	3.21	NA*	0.101
Benzo(g,h,i)perylene		100	100	500	1000	0.162	ND	ND	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	NA*	0.822	0.268	ND	0.616	NA*	ND
Benzo(k)fluoranthene		0.8	3.9	56	110	0.252	ND	ND	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	NA*	1.14	0.333	ND	1.5	NA*	ND
Biphenyl (Diphenyl)						ND	ND	ND	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	NA*	ND	ND	ND	0.117	NA*	ND
Butylbenzylphthalate						ND	ND	ND	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	NA*	0.261	ND	ND	ND	NA*	ND
Caprolactam						ND	ND	ND	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	NA*	ND	ND	ND	ND	NA*	ND
Carbazole						ND	ND	ND	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	NA*	0.121	ND	ND	0.397	NA*	ND
Chrysene		1	3.9	56	110	0.353	ND	0.411	NA*	NA*	NA*	NA*	NA*	0.187	NA*	NA*	NA*	1.86	0.527	ND	2.21	NA*	0.0983
Di-n-butylphthalate						ND	ND	ND	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	NA*	ND	ND	ND	ND	NA*	ND
Di-n-octylphthalate						ND	ND	ND	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	NA*	ND	ND	ND	ND	NA*	ND
Dibenz(a,h)anthracene		0.33	0.33	0.56	1.1	ND	ND	ND	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	NA*	0.25	0.0873	ND	0.21	NA*	ND
Dibenzofuran		7	59	350	1000	ND	ND	ND	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	NA*	ND	ND	ND	0.328	NA*	ND
Diethylphthalate						ND	ND	ND	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	NA*	ND	ND	ND	ND	NA*	ND
Dimethylphthalate						ND	ND	ND	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	NA*	ND	ND	ND	ND	NA*	ND
Fluoranthene		100	100	500	1000	0.406	ND	0.612	NA*	NA*	NA*	NA*	NA*	0.154	NA*	NA*	NA*	2.92	0.8	ND	4.26	NA*	0.183
Fluorene		30	100	500	1000	ND	ND	ND	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	NA*	0.102	ND	ND	0.587	NA*	1.31
Hexachloro-1,3-butadiene						ND	ND	ND	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	NA*	ND	ND	ND	ND	NA*	ND
Hexachlorobenzene		0.33	1.2	6	12	ND	ND	ND	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	NA*	ND	ND	ND	ND	NA*	ND
Hexachlorocyclopentadiene						ND	ND	ND	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	NA*	ND	ND	ND	ND	NA*	ND
Hexachloroethane						ND	ND	ND	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	NA*	ND	ND	ND	ND	NA*	ND
Indeno(1,2,3-cd)pyrene		0.5	0.5	5.6	11	0.107	ND	ND	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	NA*	0.884	0.26	ND	0.697	NA*	ND
Isophorone						ND	ND	ND	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	NA*	ND	ND	ND	ND	NA*	ND
N-Nitroso-di-n-propylamine						ND	ND	ND	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	NA*	ND	ND	ND	ND	NA*	ND
N-Nitrosodiphenylamine						ND	ND	ND	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	NA*	ND	ND	ND	ND	NA*	ND
Naphthalene		12	100	500	1000	ND	ND	6.24	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	NA*	0.128	ND	ND	0.391	NA*	1.2
Nitrobenzene						ND	ND	ND	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	NA*	ND	ND	ND	ND	NA*	ND
Pentachlorophenol		0.8	6.7	6.7	55	ND	ND	ND	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	NA*	ND	ND	ND	ND	NA*	ND
Phenanthrene		100	100	500	1000	0.433	4.84	7.69	NA*	NA*	NA*	NA*	NA*	0.182	NA*	NA*	NA*	1.72	0.521	ND	4.8	NA*	3.72
Phenol		0.33	100	500	1000	ND	ND	ND	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	NA*	ND	ND	ND	ND	NA*	ND
Pyrene		100	100	500	1000	0.849	1.58	2.02	NA*	NA*	NA*	NA*	NA*	0.183	NA*	NA*	NA*	3.59	0.889	ND	3.86	NA*	0.313
bis(2-Chloroethoxy)methane						ND	ND	ND	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	NA*	ND	ND	ND	ND	NA*	ND
bis(2-Chloroethyl) ether						ND	ND	ND	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	NA*	ND	ND	ND	ND	NA*	ND
bis(2-Ethylhexyl)phthalate						ND	ND	ND	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	NA*	0.111	ND	ND	0.0939	NA*	ND
TPH																						
Total Petroleum Hydrocarbons						197	7490	2860	269	116	NA*	NA*	353	NA*	NA*	NA*	NA*	182	177	269	873	NA*	1390

Notes:

(1) Standards based on Chromium, hexavalent.
(2) Standards based on Xylene (mixed).
(3) Groundwater standards only provided for those metals for which SPLP analyses were completed
(4) All units in ppm
(5) 'ND' = Not Detected
(6) 'NA*' = Not Analyzed

(7) Results exceeding Groundwater A Standard's are RED
(8) Results exceeding unrestricted use SCOs are ORANGE
(9) Results exceeding residential SCOs are RED
(10) Results exceeding commercial SCOs are BLUE
(11) Results exceeeding industrial SCOs are GREEN

Couch White
Green Island, NY

Prepared By: Envirospec Engineering, PLLC.

TABLE 13. Soil Analytical Results

Contaminants	6 NYCRR-375.6.8(b) Unrestricted Use	6 NYCRR-375.6.8(b) Residential	6 NYCRR-375.6.8(b) Commercial	6 NYCRR-375.6.8(b) Industrial	SB-19A 0-2" 7/24/2017	SB-19BO 2"-2' 7/24/2017	SB-19C 25'-30' 7/24/2017	SB-21A 0-2" 7/24/2017	SB-21BO 2"-2' 7/24/2017	SB-21C 25'-30' 7/24/2017	SB-24A 0-2" 7/24/2017	SB-24A DUP 0-2" 7/24/2017	SB-24BO 2"-2' 7/24/2017	SB-24C 29'-30' 7/24/2017	SB-6A 0-2" 7/24/2017	SB-6BO 2"-2' 7/24/2017	SB-6C 25'-30' 7/24/2017
Metals																	
Aluminum					12600	12000	7950	12600	8240	4220	11800	11500	14000	6900	11900	9850	7040
Antimony					3.2 J	3.5 J	ND	5.7	1.3 J	2.6 J	ND	ND	ND	ND	ND	ND	ND
Arsenic	13	16	16	16	17.4	19	4.6	8	18.8	14.6	16.7	13.7	11.6	5	12.8	9.3	3.3
Barium	350	400	400	10000	395	360	41.8	252	206	59.8	166	148	105	43.6	273	123	36.1
Beryllium	7.2	72	590	2700	1.6	0.57	0.13 J	0.51	0.39	ND	ND	ND	ND	0.11 J	0.39	0.25 J	0.10 J
Cadmium	2.5	4.3	9.3	60	2.3	2.6	0.27	0.52	1.4	1.3	2	1.8	1.4	0.15	1.5	0.54	0.12 J
Calcium					6280	5270	2670	4640	3620	1660	19200	21200	23700	1190	8640	6470	4790
Chromium **(1)**	1	110	140	800	33	23.2	4.9	7.7	11	64.5	35.4	36.5	41.7	2.8	32.2	9.1	4.8
Cobalt					16.8	11.4	5.7	12.3	8.2	7.1	9.4	10.1	10.7	6.4	11.8	9.5	5.2
Copper	50	270	270	10000	327	361	21	48.2	163	53.8	91.5	78.7	68.6	17.8	129	65.2	8.5
Iron					59700	55000	17200	34000	30900	69600	40700	36300	37600	29800	39700	29200	15900
Lead	63	400	1000	3900	1330	1340	39.7	175	1670	740	477	407	254	48.2	637	222	11.3
Magnesium					3610	2720	3240	5190	2060	1620	4360	4880	4700	3750	5070	4470	3280
Manganese	1600	2000	10000	10000	613	499	270	1010	496	268	472	471	565	392	745	719	162
Nickel	30	310	310	10000	79.8	38.2	13.9	25.2	24.2	19.3	39.8	41.3	37.2	15.1	33	23.2	12.5
Potassium					2310	2120	1050	1750	1740	1130	2310	2070	1890	1180	2490	1870	1230
Selenium	3.9	180	1500	6800	2.8	2.3	0.52 J	0.52 J	2.7	3.9	3.7	3.4	1.1	0.28 J	0.88	0.61	ND
Silver	2	180	1500	6800	7	4.6	1.6	2.3	2.8	4.9	3.9	3.5	3.1	2.7	3.9	2.7	1.6
Sodium					317	258 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Thallium					0.67	0.55 J	ND	1.2	0.72	0.34 J	ND	ND	ND	0.29 J	0.36 J	0.6	D
Vanadium					31	54.7	13.6	19.9	30.9	13.9	91.4	91.7	67.6	11.3	38.6	23.8	12.9
Zinc	109	10000	10000	10000	1090	922	96.1	368	364	478	432	403	313	43.1	470	174	40.3
Mercury	0.18	0.81	2.8	5.7	5.9	14.1	0.024 J	0.36	0.9	0.34	0.44	0.4	0.24	0.46	4.5	1.6	ND
SVOCs																	
1,2,4-Trichlorobenzene					ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*
2,2'-Oxybis(1-chloropropane)					ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*
2,4,5-Trichlorophenol					ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*
2,4,6-Trichlorophenol					ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*
2,4-Dichlorophenol					ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*
2,4-Dimethylphenol					ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*
2,4-Dinitrophenol					ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*
2,4-Dinitrotoluene					ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*
2,6-Dinitrotoluene					ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*
2-Chloronaphthalene					ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*
2-Chlorophenol					ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*
2-Methylnaphthalene					0.134	0.118	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*
2-Methylphenol(o-Cresol)	0.33	100	500	1000	ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*
2-Nitroaniline					ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*
2-Nitrophenol					ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*
3&4-Methylphenol(m&p Cresol)	0.33	100	500	1000	ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*
3,3'-Dichlorobenzidine					ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*
3-Nitroaniline					ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*
4,6-Dinitro-2-methylphenol					ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*
4-Bromophenylphenyl ether					ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*
4-Chloro-3-methylphenol					ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*
4-Chloroaniline					ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*
4-Chlorophenylphenyl ether					ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*
4-Nitroaniline					ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*
4-Nitrophenol					ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*
Acenaphthene	20	100	500	1000	0.0804	0.202	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*
Acenaphthylene	100	100	500	1000	0.0936	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*
Acetophenone					ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*
Anthracene	100	100	500	1000	0.267	0.623	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*
Atrazine					ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*
Benzaldehyde					ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*
Benzo(a)anthracene	1	1	5.6	11	1.43	2.21	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*
Benzo(a)pyrene	1	1	1	1.1	1.47	2.09	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*
Benzo(b)fluoranthene	1	1	5.6	11	2.3	3.22	0.0881	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*
Benzo(g,h,i)perylene	100	100	500	1000	0.661	0.77	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*

TABLE 13. Soil Analytical Results

Contaminants	6 NYCRR-375.6.8(b) Unrestricted Use	6 NYCRR-375.6.8(b) Residential	6 NYCRR-375.6.8(b) Commercial	6 NYCRR-375.6.8(b) Industrial	SB-19A 0-2" 7/24/2017	SB-19BO 2"-2' 7/24/2017	SB-19C 25'-30' 7/24/2017	SB-21A 0-2" 7/24/2017	SB-21BO 2"-2' 7/24/2017	SB-21C 25'-30' 7/24/2017	SB-24A 0-2" 7/24/2017	SB-24A DUP 0-2" 7/24/2017	SB-24BO 2"-2' 7/24/2017	SB-24C 29'-30' 7/24/2017	SB-6A 0-2" 7/24/2017	SB-6BO 2"-2' 7/24/2017	SB-6C 25'-30' 7/24/2017
Benzo(k)fluoranthene	0.8	3.9	56	110	0.861	1.84	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*
Biphenyl (Diphenyl)					ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*
Butylbenzylphthalate					ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*
Caprolactam					ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*
Carbazole					0.0992	0.254	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*
Chrysene	1	3.9	56	110	1.68	2.39	0.082	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*
Di-n-butylphthalate					ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*
Di-n-octylphthalate					ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*
Dibenz(a,h)anthracene	0.33	0.33	0.56	1.1	0.206	0.216	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*
Dibenzofuran	7	59	350	1000	ND	0.156	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*
Diethylphthalate					ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*
Dimethylphthalate					ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*
Fluoranthene	100	100	500	1000	2.29	3.7	0.118	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*
Fluorene	30	100	500	1000	0.0824	0.24	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*
Hexachloro-1,3-butadiene					ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*
Hexachlorobenzene	0.33	1.2	6	12	ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*
Hexachlorocyclopentadiene					ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*
Hexachloroethane					ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*
Indeno(1,2,3-cd)pyrene	0.5	0.5	5.6	11	0.741	0.735	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*
Isophorone					ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*
N-Nitroso-di-n-propylamine					ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*
N-Nitrosodiphenylamine					ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*
Naphthalene	12	100	500	1000	0.228	0.144	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*
Nitrobenzene					ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*
Pentachlorophenol	0.8	6.7	6.7	55	ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*
Phenanthrene	100	100	500	1000	1.29	3.14	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*
Phenol	0.33	100	500	1000	ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*
Pyrene	100	100	500	1000	2.84	4.34	0.107	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*
bis(2-Chloroethoxy)methane					ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*
bis(2-Chloroethyl) ether					ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*
bis(2-Ethylhexyl)phthalate					0.118	0.145	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*

Notes:

(1) Standards based on Chromium, hexavalent.
(2) Groundwater standards only provided for those metals for which SPLP analyses were completed.
(3) All results in ppm
(4) 'ND' = Not Detected
(5) 'NA*' = Not Analyzed
(6) Results exceeding Groundwater A Standard's are RED
(7) Results exceeding unrestricted use SCOs are ORANGE
(8) Results exceeding residential SCOs are RED
(9) Results exceeding commercial SCOs are BLUE
(10) Results exceeeding industrial SCOs are GREEN

TABLE 13. Soil Analytical Results

					Sample ID	SB-16BO	SB-16C	SB-17A	SB-17BO	SB-17C	SB-25BO	SB-25C	SB-26A MS/MSD	SB-26BO	SB-26C
					Depth	2"-2'	28'-30'	0-2"	2"-2'	28'-30'	2"-2'	25'-30'	0-2"	2"-2'	28'-30'
					Sample Date	7/25/2017	7/25/2017	7/24/2017	7/24/2017	7/24/2017	7/25/2017	7/25/2017	7/25/2017	7/25/2017	7/25/2017
Contaminants	Part 703 Groundwater A Standard **(3)**	6 NYCRR-375.6.8(b) Unrestricted Use	6 NYCRR-375.6.8(b) Residential	6 NYCRR-375.6.8(b) Commercial	6 NYCRR-375.6.8(b) Industrial										
Metals															
Aluminum						12600	7020	8390	4390	5780	7220	9400	11000	9970	5160
Antimony						ND	ND	4.8	4.7	0.95 J	3.9 J	ND	ND	ND	ND
Arsenic		13	16	16	16	11	4.1	14.6	45.1	7.5	16	4.5	9.4	10.2	56.6
Barium		350	400	400	10000	414	48.3	295	231	75	153	97.9	197	261	24.7
Beryllium		7.2	72	590	2700	0.48	0.12 J	0.47	0.042 J	0.19 J	0.76	0.20 J	0.29 J	0.32	ND
Cadmium		2.5	4.3	9.3	60	0.74	0.15	0.97	0.58	0.2	0.43	0.25	1.2	1.5	1.3
Calcium						9530	1420	3680	2220	4960	1880	2600	16200	24000	1250
Chromium **(1)**		1	110	140	800	9.9	3.8	15	17.8	8.9	8.6	5.7	25.6	66.8	77.6
Cobalt						12.3	5.8	9.7	5.9	9.6	9.1	10.1	11.3	10.8	30.9
Copper		50	270	270	10000	51	12.1	146	85.1	59.5	91.2	14.7	81.9	107	49.7
Iron						39400	16800	31300	44900	14600	27800	28000	35700	30800	102000
Lead		63	400	1000	3900	240	16.9	1090	524	197	1010	29.3	454	751	6.8
Magnesium						6930	3330	1820	957	2170	359	5840	6570	5890	2360
Manganese		1600	2000	10000	10000	698	545	357	152	156	212	890	578	583	290
Nickel		30	310	310	10000	30.1	13.7	26.6	18.8	16	28	17.7	54.4	50.4	72.9
Potassium						1980	973	1740	2460	1090	1310	1270	2170	2100	1020
Selenium		3.9	180	1500	6800	0.76	0.45 J	2.3	11	1	1.9	0.46 J	1.2	1.5	1.9
Silver		2	180	1500	6800	3.1	1.6	3	3.6	1.4	2.5	1.9	2.7	2.8	7.5
Sodium						ND	ND	ND	ND	ND	ND	ND	ND	495	ND
Thallium						0.68	0.55 J	0.43 J	7.5	ND	ND	0.91	0.49 J	0.54 J	ND
Vanadium						24.6	12.8	37.7	29.9	20.5	26.3	13.8	102	99.8	8.9
Zinc		109	10000	10000	10000	311	50	576	254	124	224	51.8	324	404	33.9
Mercury		0.18	0.81	2.8	5.7	0.51	ND	1.4	1.6	0.18	0.53	ND	0.67	0.73	0.016 J
Metals, SPLP															
Arsenic	0.025					ND	ND	ND	0.0098 J	ND	NA*	NA*	ND	ND	ND
Barium	1					0.010 J	0.015 J	0.0075 J	0.0096 J	0.011 J	NA*	NA*	0.0093 J	0.031 J	0.020 J
Cadmium	0.005					ND	ND	0.00020 J	0.000081 J	ND	NA*	NA*	ND	ND	0.00013 J
Chromium	0.05					0.0031 J	0.0044 J	0.0020 J	0.0030 J	0.0018 J	NA*	NA*	0.0040 J	0.0098 J	0.0038 J
Lead	0.025					0.0086	0.019	0.038	0.031	0.0039 J	NA*	NA*	0.019 J	0.098	0.033
Selenium	0.01					ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
Silver	0.05					ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
Mercury	0.0007					ND	ND	ND	0.0021	ND	NA*	NA*	ND	0.00025	ND
Pesticides															
4,4'-DDD		0.0033	13	92	180	ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
4,4'-DDE		0.0033	8.9	62	120	ND	ND	ND	ND	ND	NA*	NA*	0.0062	ND	ND
4,4'-DDT		0.0033	7.9	47	94	ND	ND	ND	ND	ND	NA*	NA*	0.0307	0.0165	ND
Aldrin		0.005	0.097	0.68	1.4	ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
Dieldrin		0.005	0.2	1.4	2.8	ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
Endosulfan I		2.4	24	200	920	ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
Endosulfan II		2.4	24	200	920	ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
Endosulfan sulfate		2.4	24	200	920	ND	ND	ND	ND	ND	NA*	NA*	ND	0.0149	ND
Endrin		0.014	11	89	410	ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
Endrin aldehyde						ND	ND	ND	ND	ND	NA*	NA*	ND	0.0075	ND
Endrin ketone						ND	ND	ND	0.0091	ND	NA*	NA*	ND	ND	ND
Heptachlor		0.042	2.1	15	29	ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
Heptachlor epoxide						ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
Methoxychlor						ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
Toxaphene						ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
alpha-BHC		0.02	0.48	3.4	6.8	ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND

TABLE 13. Soil Analytical Results

					Sample ID	SB-16BO	SB-16C	SB-17A	SB-17BO	SB-17C	SB-25BO	SB-25C	SB-26A MS/MSD	SB-26BO	SB-26C
					Depth	2"-2'	28'-30'	0-2"	2"-2'	28'-30'	2"-2'	25'-30'	0-2"	2"-2'	28'-30'
					Sample Date	7/25/2017	7/25/2017	7/24/2017	7/24/2017	7/24/2017	7/25/2017	7/25/2017	7/25/2017	7/25/2017	7/25/2017
Contaminants	Part 703 Groundwater A Standard **(3)**	6 NYCRR-375.6.8(b) Unrestricted Use	6 NYCRR-375.6.8(b) Residential	6 NYCRR-375.6.8(b) Commercial	6 NYCRR-375.6.8(b) Industrial										
alpha-Chlordane		0.094	4.2	24	47	ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
beta-BHC		0.036	0.36	3	14	ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
delta-BHC		0.04	100	500	1000	ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
gamma-BHC (Lindane)		0.1	1.3	9.2	23	ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
gamma-Chlordane						ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
PCBs															
PCB-1016 (Aroclor 1016)		0.1	1	1	25	ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
PCB-1221 (Aroclor 1221)		0.1	1	1	25	ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
PCB-1232 (Aroclor 1232)		0.1	1	1	25	ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
PCB-1242 (Aroclor 1242)		0.1	1	1	25	ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
PCB-1248 (Aroclor 1248)		0.1	1	1	25	ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
PCB-1254 (Aroclor 1254)		0.1	1	1	25	ND	ND	ND	ND	ND	NA*	NA*	ND	0.059	ND
PCB-1260 (Aroclor 1260)		0.1	1	1	25	ND	ND	ND	ND	ND	NA*	NA*	0.0982	0.0746	ND
VOCs															
1,1,1-Trichloroethane		0.68	100	500	1000	ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
1,1,2,2-Tetrachloroethane						ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
1,1,2-Trichloroethane						ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
1,1,2-Trichlorotrifluoroethane						ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
1,1-Dichloroethane		0.27	26	240	480	ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
1,1-Dichloroethene		0.33	100	500	10000	ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
1,2,4-Trichlorobenzene						ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
1,2-Dibromo-3-chloropropane						ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
1,2-Dibromoethane (EDB)						ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
1,2-Dichlorobenzene		1.1	100	500	1000	ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
1,2-Dichloroethane		0.02	3.1	30	60	ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
1,2-Dichloropropane						ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
1,3-Dichlorobenzene		2.4	49	280	560	ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
1,4-Dichlorobenzene		1.8	13	130	250	ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
2-Butanone (MEK)		0.12	100	500	1000	ND	ND	ND	0.143 J	ND	NA*	NA*	ND	ND	ND
2-Hexanone						ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
4-Methyl-2-pentanone (MIBK)						ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
Acetone		0.05	100	500	1000	0.0064	0.0229	ND	ND	0.0393	NA*	NA*	0.0025 J	ND	ND
Benzene		0.06	4.8	44	89	ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
Bromodichloromethane						ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
Bromoform						ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
Bromomethane						ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
Carbon disulfide						ND	ND	ND	ND	0.0033	NA*	NA*	ND	ND	ND
Carbon tetrachloride		0.76	2.4	22	44	ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
Chlorobenzene		1.1	100	500	1000	ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
Chloroethane						ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
Chloroform		0.37	49	350	700	ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
Chloromethane						ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
Cyclohexane						ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
Dibromochloromethane						ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
Dichlorodifluoromethane						ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
Ethylbenzene		1	41	390	780	ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
Isopropylbenzene (Cumene)						ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
Methyl acetate						ND	ND	ND	0.228	ND	NA*	NA*	ND	ND	ND
Methyl-tert-butyl ether		0.12	100	500	1000	ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
Methylcyclohexane						ND	ND	ND	0.111 J	ND	NA*	NA*	ND	ND	ND
Methylene Chloride		0.05	100	500	1000	ND	ND	ND	ND	ND	NA*	NA*	0.0016 J	ND	ND

TABLE 13. Soil Analytical Results

					Sample ID	SB-16BO	SB-16C	SB-17A	SB-17BO	SB-17C	SB-25BO	SB-25C	SB-26A MS/MSD	SB-26BO	SB-26C
					Depth	2"-2'	28'-30'	0-2"	2"-2'	28'-30'	2"-2'	25'-30'	0-2"	2"-2'	28'-30'
					Sample Date	7/25/2017	7/25/2017	7/24/2017	7/24/2017	7/24/2017	7/25/2017	7/25/2017	7/25/2017	7/25/2017	7/25/2017
Contaminants	Part 703 Groundwater A Standard **(3)**	6 NYCRR-375.6.8(b) Unrestricted Use	6 NYCRR-375.6.8(b) Residential	6 NYCRR-375.6.8(b) Commercial	6 NYCRR-375.6.8(b) Industrial										
Styrene						ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
Tetrachloroethene		1.3	19	150	300	ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
Toluene		0.7	100	500	1000	ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
Trichloroethene		0.47	21	200	400	ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
Trichlorofluoromethane						ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
Vinyl chloride		0.02	0.9	13	27	ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
Xylene (Total) **(2)**		0.26	100	500	1000	ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
cis-1,2-Dichloroethene		0.25	100	500	1000	ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
cis-1,3-Dichloropropene						ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
trans-1,2-Dichloroethene		0.19	100	500	1000	ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
trans-1,3-Dichloropropene						ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
SVOCs															
1,2,4-Trichlorobenzene						ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
2,2'-Oxybis(1-chloropropane)						ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
2,4,5-Trichlorophenol						ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
2,4,6-Trichlorophenol						ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
2,4-Dichlorophenol						ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
2,4-Dimethylphenol						ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
2,4-Dinitrophenol						ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
2,4-Dinitrotoluene						ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
2,6-Dinitrotoluene						ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
2-Chloronaphthalene						ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
2-Chlorophenol						ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
2-Methylnaphthalene						ND	ND	0.304	0.118	ND	NA*	NA*	0.129	0.407	ND
2-Methylphenol(o-Cresol)		0.33	100	500	1000	ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
2-Nitroaniline						ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
2-Nitrophenol						ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
3&4-Methylphenol(m&p Cresol)		0.33	100	500	1000	ND	ND	ND	ND	ND	NA*	NA*	ND	0.0809	ND
3,3'-Dichlorobenzidine						ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
3-Nitroaniline						ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
4,6-Dinitro-2-methylphenol						ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
4-Bromophenylphenyl ether						ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
4-Chloro-3-methylphenol						ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
4-Chloroaniline						ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
4-Chlorophenylphenyl ether						ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
4-Nitroaniline						ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
4-Nitrophenol						ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
Acenaphthene		20	100	500	1000	ND	ND	ND	ND	ND	NA*	NA*	0.12	0.529	ND
Acenaphthylene		100	100	500	1000	ND	ND	ND	ND	ND	NA*	NA*	0.111	0.899	ND
Acetophenone						ND	ND	ND	0.109	ND	NA*	NA*	ND	ND	ND
Anthracene		100	100	500	1000	0.0873	ND	0.116	ND	0.12	NA*	NA*	0.317	2.32	ND
Atrazine						ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
Benzaldehyde						ND	ND	ND	0.372	ND	NA*	NA*	0.251	ND	ND
Benzo(a)anthracene		1	1	5.6	11	0.381	ND	0.416	ND	0.311	NA*	NA*	0.856	5.84	ND
Benzo(a)pyrene		1	1	1	1.1	0.409	ND	0.462	0.138	0.265	NA*	NA*	0.834	6.09	ND
Benzo(b)fluoranthene		1	1	5.6	11	0.581	0.0575 J	0.719	0.347	0.281	NA*	NA*	1.17	9.21	ND
Benzo(g,h,i)perylene		100	100	500	1000	0.258	ND	0.221	0.144	0.155	NA*	NA*	0.423	3.99	ND
Benzo(k)fluoranthene		0.8	3.9	56	110	0.301	ND	0.291	ND	0.125	NA*	NA*	0.519	6.31	ND
Biphenyl (Diphenyl)						ND	ND	ND	ND	ND	NA*	NA*	ND	0.149	ND
Butylbenzylphthalate						ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
Caprolactam						ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
Carbazole						ND	ND	ND	ND	ND	NA*	NA*	0.183	1.3	ND
Chrysene		1	3.9	56	110	0.413	ND	0.547	0.825	0.28	NA*	NA*	0.977	7.21	ND

TABLE 13. Soil Analytical Results

					Sample ID	SB-16BO	SB-16C	SB-17A	SB-17BO	SB-17C	SB-25BO	SB-25C	SB-26A MS/MSD	SB-26BO	SB-26C
					Depth	2"-2'	28'-30'	0-2"	2"-2'	28'-30'	2"-2'	25'-30'	0-2"	2"-2'	28'-30'
					Sample Date	7/25/2017	7/25/2017	7/24/2017	7/24/2017	7/24/2017	7/25/2017	7/25/2017	7/25/2017	7/25/2017	7/25/2017
Contaminants	Part 703 Groundwater A Standard **(3)**	6 NYCRR-375.6.8(b) Unrestricted Use	6 NYCRR-375.6.8(b) Residential	6 NYCRR-375.6.8(b) Commercial	6 NYCRR-375.6.8(b) Industrial										
Di-n-butylphthalate						ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
Di-n-octylphthalate						ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
Dibenz(a,h)anthracene		0.33	0.33	0.56	1.1	ND	ND	ND	ND	ND	NA*	NA*	0.134	1.04	ND
Dibenzofuran		7	59	350	1000	ND	ND	ND	ND	ND	NA*	NA*	0.0951	0.75	ND
Diethylphthalate						ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
Dimethylphthalate						ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
Fluoranthene		100	100	500	1000	0.65	0.128	1.1	0.373	0.753	NA*	NA*	1.79	14	0.141
Fluorene		30	100	500	1000	ND	ND	ND	ND	ND	NA*	NA*	0.11	0.938	ND
Hexachloro-1,3-butadiene						ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
Hexachlorobenzene		0.33	1.2	6	12	ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
Hexachlorocyclopentadiene						ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
Hexachloroethane						ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
Indeno(1,2,3-cd)pyrene		0.5	0.5	5.6	11	0.265	ND	0.199	0.0882	0.134	NA*	NA*	0.361	3.84	ND
Isophorone						0.276	ND	0.755	0.581	ND	NA*	NA*	ND	ND	ND
N-Nitroso-di-n-propylamine						ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
N-Nitrosodiphenylamine						ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
Naphthalene		12	100	500	1000	ND	ND	0.225	0.0924	ND	NA*	NA*	0.141	0.983	ND
Nitrobenzene						ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
Pentachlorophenol		0.8	6.7	6.7	55	ND	ND	D	ND	ND	NA*	NA*	ND	ND	ND
Phenanthrene		100	100	500	1000	0.379	0.104	0.471	0.208	0.337	NA*	NA*	1.42	11.5	0.155
Phenol		0.33	100	500	1000	ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
Pyrene		100	100	500	1000	0.698	0.0952	0.748	0.262	0.49	NA*	NA*	1.61	13	0.105
bis(2-Chloroethoxy)methane						ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
bis(2-Chloroethyl) ether						ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
bis(2-Ethylhexyl)phthalate						ND	ND	0.0883 J	0.116	ND	NA*	NA*	0.122	0.122	ND
TPH															
Total Petroleum Hydrocarbons						ND	232	252	284	221	NA*	NA*	253	596	403

Notes:

(1) Standards based on Chromium, hexavalent.
(2) Standards based on Xylene (mixed).
(3) Groundwater standards only provided for those metals for which SPLP analyses were completed.
(4) 'ND' = Not Detected
(5) 'NA*' = Not Analyzed
(6) All results in ppm
(7) Results exceeding Groundwater A Standard's are RED
(8) Results exceeding unrestricted use SCOs are ORANGE
(9) Results exceeding residential SCOs are RED
(10) Results exceeding commercial SCOs are BLUE
(11) Results exceeding industrial SCOs are GREEN

TABLE 13. Soil Analytical Results

	Sample ID					SB-11B DUP	SB-11A	SB-11B	SB-11C	SB-11D	SB-12 BO	SB-12C	SB-12D	SB-22A	SB-22B	SB-22C	SB-22D	SB-30 B	SB-30 C	SB-30 D	SB-8A	SB-8B	SB-8C	SB-9B	SB-9C	SB-9D
	Depth					2"-2'	0-2"	2"-2'	30'-32'	30'-36'	2"-2'	25'-30'	8'-10'	0-2"	2"-2'	25'-30'	25'-27'	2"-2'	25'-30'	18'-20'	0-2"	2"-2'	28'-30'	2"-2'	25'-30'	7'-8'
	Sample Date					7/26/2017	7/26/2017	7/26/2017	7/26/2017	7/26/2017	7/25/2017	7/25/2017	7/25/2017	7/26/2017	7/26/2017	7/26/2017	7/26/2017	7/26/2017	7/26/2017	7/26/2017	7/26/2017	7/26/2017	7/26/2017	7/26/2017	7/26/2017	7/26/2017
Contaminants	Part 703 Groundwater A Standard (3)	6 NYCRR-375.6.8(b) Unrestricted Use	6 NYCRR-375.6.8(b) Residential	6 NYCRR-375.6.8(b) Commercial	6 NYCRR-375.6.8(b) Industrial																					
Metals																										
Aluminum						10400	10600	8670	9620	NA*	7440	9370	NA*	7630	8250	8270	NA*	7760	5480	NA*	27100	12000	6680	9850	7010	NA*
Antimony						ND	0.58 J	ND	ND	NA*	3.8 J	ND	NA*	3.3	ND	ND	NA*	16.2	ND	NA*	4	7.1	ND	ND	ND	NA*
Arsenic		13	16	16	16	10.6	8.1	12.5	6.5	NA*	16	6.9	NA*	29.9	19.4	5.4	NA*	11.9	4.1	NA*	13.2	18.3	8.4	8.6	3.4	NA*
Barium		350	400	400	10000	158	133	138	73.9	NA*	309	45.5	NA*	315	263	45.5	NA*	242	22.6	NA*	409	368	101	145	30.4	NA*
Beryllium		7.2	72	590	2700	0.37	0.22 J	0.32	0.36	NA*	0.17 J	0.17 J	NA*	0.18 J	0.26 J	0.13 J	NA*	0.61	ND	NA*	0.72	1.4	ND	0.54	0.080 J	NA*
Cadmium		2.5	4.3	9.3	60	1.1	1.3	1.1	0.15 J	NA*	1.9	0.17 J	NA*	9	2.3	0.16	NA*	1.2	0.051 J	NA*	1.6	1.8	0.38	0.39	0.070 J	NA*
Calcium						18600	21600	13700	3970	NA*	36300	4500	NA*	6970	8360	1390	NA*	3160	1670	NA*	10100	12200	3100	2560	1300	NA*
Chromium**(1)**		1	110	140	800	20.5	25.5	16.2	10.7	NA*	23.7	11	NA*	36.1	52.4	9.2	NA*	18.1	5.4	NA*	65.6	51.7	11	12.8	6.1	NA*
Cobalt						9.1	8.9	8.9	7.6	NA*	7.8	8.6	NA*	12.1	11.5	6.2	NA*	8.2	4.4	NA*	15.8	14.2	6.4	8.3	4.4	NA*
Copper		50	270	270	10000	84.6	64.9	186	18.2	NA*	1740	17.3	NA*	216	226	153	NA*	150	5.1	NA*	143	282	35.6	294	6.4	NA*
Iron						26800	21400	27500	19100	NA*	44900	20600	NA*	108000	62100	19600	NA*	24200	12000	NA*	54800	41900	27300	22700	14100	NA*
Lead		63	400	1000	3900	369	456	469	70.7	NA*	2200	7.7	NA*	1150	963	28.1	NA*	1060	3.6	NA*	1260	1230	481	116	3.8	NA*
Magnesium						4720	5630	3250	3650	NA*	1650	4770	NA*	2410	2770	3790	NA*	2020	2470	NA*	2930	3630	2780	3100	3300	NA*
Manganese		1600	2000	10000	10000	459	567	478	249	NA*	366	193	NA*	613	566	199	NA*	349	109	NA*	1480	580	231	326	108	NA*
Nickel		30	310	310	10000	25.4	23.5	21.2	15.4	NA*	23.2	18	NA*	44.6	30.1	15.2	NA*	29.2	9	NA*	38.5	63.5	13.8	23.3	9.9	NA*
Potassium						1700	2000	1570	1370	NA*	2340	1380	NA*	1870	1920	1100	NA*	1560	861	NA*	4080	2370	1090	1500	874	NA*
Selenium		3.9	180	1500	6800	0.76	0.59 J	0.46 J	0.40 J	NA*	1.8	1	NA*	1.7	1.6	0.50 J	NA*	1	ND	NA*	1.6	1.8	1.4	0.83	0.42 J	NA*
Silver		2	180	1500	6800	ND	0.19 J	0.25 J	ND	NA*	0.54 J	ND	NA*	15.9	ND	0.16 J	NA*	0.45 J	ND	NA*	0.12 J	0.49 J	ND	ND	ND	NA*
Sodium						ND	ND	ND	ND	NA*	ND	ND	NA*	ND	ND	ND	NA*	ND	ND	NA*	ND	ND	ND	ND	ND	NA*
Thallium						ND	ND	ND	ND	NA*	ND	ND	NA*	ND	ND	ND	NA*	ND	ND	NA*	ND	ND	ND	ND	ND	NA*
Vanadium						27.6	33.2	25	20.7	NA*	22.9	18.7	NA*	22.3	29.6	16.5	NA*	25.6	10.6	NA*	54.6	31.3	12.1	26.5	10.3	NA*
Zinc		109	10000	10000	10000	315	385	310	59.9	NA*	873	47.9	NA*	615	823	78.6	NA*	432	29.3	NA*	645	897	193	177	32.5	NA*
Mercury		0.18	0.81	2.8	5.7	0.84	0.52	1.1	ND	NA*	19.3	0.048	NA*	4.6	2	0.059	NA*	1.1	ND	NA*	1.6	8.5	0.51	1	ND	NA*
Metals, SPLP																										
Arsenic	0.025					ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	ND	ND	ND	NA*	NA*	NA*
Barium	1					0.014 J	0.012 J	0.016 J	0.0089 J	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	0.012 J	0.022 J	0.024 J	NA*	NA*	NA*
Cadmium	0.005					0.00021 J	0.00014 J	0.00021 J	0.00013 J	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	0.00024 J	0.00019 J	0.000086 J	NA*	NA*	NA*
Chromium	0.05					0.0053 J	0.0035 J	0.0046 J	0.0028 J	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	0.0049 J	0.0079 J	0.0043 J	NA*	NA*	NA*
Lead	0.025					0.061	0.022	0.068	0.0058	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	0.044	0.064	0.062	NA*	NA*	NA*
Selenium	0.01					ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	ND	ND	ND	NA*	NA*	NA*
Silver	0.05					ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	ND	ND	ND	NA*	NA*	NA*
Mercury	0.0007					ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	ND	0.00049	0.00022	NA*	NA*	NA*
Pesticides																										
4,4'-DDD		0.0033	13	92	180	ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	ND	ND	ND	NA*	NA*	NA*
4,4'-DDE		0.0033	8.9	62	120	ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	ND	ND	ND	NA*	NA*	NA*
4,4'-DDT		0.0033	7.9	47	94	ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	ND	ND	ND	NA*	NA*	NA*
Aldrin		0.005	0.097	0.68	1.4	ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	ND	ND	ND	NA*	NA*	NA*
Dieldrin		0.005	0.2	1.4	2.8	ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	ND	ND	ND	NA*	NA*	NA*
Endosulfan I		2.4	24	200	920	ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	ND	ND	ND	NA*	NA*	NA*
Endosulfan II		2.4	24	200	920	ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	ND	ND	ND	NA*	NA*	NA*
Endosulfan sulfate		2.4	24	200	920	ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	ND	ND	ND	NA*	NA*	NA*
Endrin		0.014	11	89	410	ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	ND	ND	ND	NA*	NA*	NA*
Endrin aldehyde						ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	ND	ND	ND	NA*	NA*	NA*
Endrin ketone						ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	ND	ND	ND	NA*	NA*	NA*
Heptachlor		0.042	2.1	15	29	ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	ND	ND	ND	NA*	NA*	NA*
Heptachlor epoxide						ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	ND	ND	ND	NA*	NA*	NA*
Methoxychlor						ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	ND	ND	ND	NA*	NA*	NA*
Toxaphene						ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	ND	ND	ND	NA*	NA*	NA*
alpha-BHC		0.02	0.48	3.4	6.8	ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	ND	ND	ND	NA*	NA*	NA*
alpha-Chlordane		0.094	4.2	24	47	ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	ND	ND	ND	NA*	NA*	NA*
beta-BHC		0.036	0.36	3	14	ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	ND	ND	ND	NA*	NA*	NA*
delta-BHC		0.04	100	500	1000	ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	ND	ND	ND	NA*	NA*	NA*
gamma-BHC (Lindane)		0.1	1.3	9.2	23	ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	ND	ND	ND	NA*	NA*	NA*
gamma-Chlordane						ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	ND	ND	ND	NA*	NA*	NA*
PCBs																										
PCB-1016 (Aroclor 1016)		0.1	1	1	25	ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	ND	ND	ND	NA*	NA*	NA*
PCB-1221 (Aroclor 1221)		0.1	1	1	25	ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	ND	ND	ND	NA*	NA*	NA*
PCB-1232 (Aroclor 1232)		0.1	1	1	25	ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	ND	ND	ND	NA*	NA*	NA*
PCB-1242 (Aroclor 1242)		0.1	1	1	25	ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	ND	ND	ND	NA*	NA*	NA*
PCB-1248 (Aroclor 1248)		0.1	1	1	25	ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	ND	ND	ND	NA*	NA*	NA*
PCB-1254 (Aroclor 1254)		0.1	1	1	25	ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	ND	ND	ND	NA*	NA*	NA*
PCB-1260 (Aroclor 1260)		0.1	1	1	25	ND	ND	ND	0.171	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	ND	ND	ND	NA*	NA*	NA*
VOCs																										
1,1,1-Trichloroethane		0.68	100	500	1000	ND	ND	ND	ND	ND	NA*	NA*	ND	NA*	NA*	NA*	ND	NA*	NA*	ND	ND	ND	ND	NA*	NA*	ND
1,1,2,2-Tetrachloroethane						ND	ND	ND	ND	ND	NA*	NA*	ND	NA*	NA*	NA*	ND	NA*	NA*	ND	ND	ND	ND	NA*	NA*	ND
1,1,2-Trichloroethane						ND	ND	ND	ND	ND	NA*	NA*	ND	NA*	NA*	NA*	ND	NA*	NA*	ND	ND	ND	ND	NA*	NA*	ND
1,1,2-Trichlorotrifluoroethane						ND	ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	ND	ND	ND	ND	NA*	NA*	ND
1,1-Dichloroethane		0.27	26	240	480	ND	ND	ND	ND	ND	NA*	NA*	ND	NA*	NA*	NA*	ND	NA*	NA*	ND	ND	ND	ND	NA*	NA*	ND
1,1-Dichloroethene		0.33	100	500	10000	ND	ND	ND	ND	ND	NA*	NA*	ND	NA*	NA*	NA*	ND	NA*	NA*	ND	ND	ND	ND	NA*	NA*	ND
1,2,4-Trichlorobenzene						ND	ND	ND	ND	ND	NA*	NA*	ND	NA*	NA*	NA*	ND	NA*	NA*	ND	ND	ND	ND	NA*	NA*	ND
1,2-Dibromo-3-chloropropane						ND	ND	ND	ND	ND	NA*	NA*	ND	NA*	NA*	NA*	ND	NA*	NA*	ND	ND	ND	ND	NA*	NA*	ND
1,2-Dibromoethane (EDB)						ND	ND	ND	ND	ND	NA*	NA*	ND	NA*	NA*	NA*	ND	NA*	NA*	ND	ND	ND	ND	NA*	NA*	ND
1,2-Dichlorobenzene		1.1	100	500	1000	ND	ND	ND	ND	ND	NA*	NA*	ND	NA*	NA*	NA*	ND	NA*	NA*	ND	ND	ND	ND	NA*	NA*	ND
1,2-Dichloroethane		0.02	3.1	30	60	ND	ND	ND	ND	ND	NA*	NA*	ND	NA*	NA*	NA*	ND	NA*	NA*	ND	ND	ND	ND	NA*	NA*	ND
1,2-Dichloropropane						ND	ND	ND	ND	ND	NA*	NA*	ND	NA*	NA*	NA*	ND	NA*	NA*	ND	ND	ND	ND	NA*	NA*	ND
1,3-Dichlorobenzene		2.4	49	280	560	ND	ND	ND	ND	ND	NA*	NA*	ND	NA*	NA*	NA*	ND	NA*	NA*	ND	ND	ND	ND	NA*	NA*	ND
1,4-Dichlorobenzene		1.8	13	130	250	ND	ND	ND	ND	ND	NA*	NA*	ND	NA*	NA*	NA*	ND	NA*	NA*	ND	ND	ND	ND	NA*	NA*	ND
2-Butanone (MEK)		0.12	100	500	1000	ND	ND	ND	ND	0.106	NA*	NA*	ND	NA*	NA*	NA*	ND	NA*	NA*	ND	ND	ND	ND	NA*	NA*	ND
2-Hexanone						ND	ND	ND	ND	ND	NA*	NA*	ND	NA*	NA*	NA*	ND	NA*	NA*	ND	ND	ND	ND	NA*	NA*	ND
4-Methyl-2-pentanone (MIBK)						ND	ND	ND	ND	ND	NA*	NA*	ND	NA*	NA*	NA*	ND	NA*	NA*	ND	ND	ND	ND	NA*	NA*	ND
Acetone		0.05	100	500	1000	ND	0.0015 J	ND	ND	ND	NA*	NA*	ND	NA*	NA*	NA*	ND	NA*	NA*	ND	ND	ND	ND	NA*	NA*	ND
Benzene		0.06	4.8	44	89	ND	ND	ND	ND	ND	NA*	NA*	ND	NA*	NA*	NA*	ND	NA*	NA*	0.176	ND	ND	ND	NA*	NA*	0.0243
Bromodichloromethane						ND	ND	ND	ND	ND	NA*	NA*	ND	NA*	NA*	NA*	ND	NA*	NA*	ND	ND	ND	ND	NA*	NA*	ND
Bromoform						ND	ND	ND	ND	ND	NA*	NA*	ND	NA*	NA*	NA*	ND	NA*	NA*	ND	ND	ND	ND	NA*	NA*	ND
Bromomethane						ND	ND	ND	ND	ND	NA*	NA*	ND	NA*	NA*	NA*	ND	NA*	NA*	ND	ND	ND	ND	NA*	NA*	ND
Carbon disulfide						ND	ND	ND	ND	0.0129	NA*	NA*	ND	NA*	NA*	NA*	ND	NA*	NA*	ND	ND	ND	ND	NA*	NA*	0.0017 J
Carbon tetrachloride		0.76	2.4	22	44	ND	ND	ND	ND	ND	NA*	NA*	ND	NA*	NA*	NA*	ND	NA*	NA*	ND	ND	ND	ND	NA*	NA*	ND
Chlorobenzene		1.1	100	500	1000	ND	ND	ND	ND	ND	NA*	NA*	ND	NA*	NA*	NA*	ND	NA*	NA*	ND	ND	ND	ND	NA*	NA*	ND
Chloroethane						ND	ND	ND	ND	ND	NA*	NA*	ND	NA*	NA*	NA*	ND	NA*	NA*	ND	ND	ND	ND	NA*	NA*	ND
Chloroform		0.37	49	350	700	ND	ND	ND	ND	ND	NA*	NA*	ND	NA*	NA*	NA*	ND	NA*	NA*	ND	ND	ND	ND	NA*	NA*	ND
Chloromethane						ND	ND	ND	ND	ND	NA*	NA*	ND	NA*	NA*	NA*	ND	NA*	NA*	ND	ND	ND	ND	NA*	NA*	ND
Cyclohexane						ND	ND	ND	5.87	0.0887	NA*	NA*	ND	NA*	NA*	NA*	ND	NA*	NA*	3.66	ND	ND	0.232	NA*	NA*	0.0111
Dibromochloromethane						ND	ND	ND	ND	ND	NA*	NA*	ND	NA*	NA*	NA*	ND	NA*	NA*	ND	ND	ND	ND	NA*	NA*	ND
Dichlorodifluoromethane						ND	ND	ND	ND	ND	NA*	NA*	ND	NA*	NA*	NA*	ND	NA*	NA*	ND	ND	ND	ND	NA*	NA*	ND
Ethylbenzene		1	41	390	780	0.003	0.0013 J	0.0026 J	ND	0.0015 J	NA*	NA*	ND	NA*	NA*	NA*	ND	NA*	NA*	6.06	ND	ND	ND	NA*	NA*	0.0013 J
Isopropylbenzene (Cumene)						0.0043	ND	ND	2.01	0.0436	NA*	NA*	0.329	NA*	NA*	NA*	3.06	NA*	NA*	1.12	ND	ND	0.772	NA*	NA*	0.0031
Methyl acetate						ND	ND	ND	ND	ND	NA*	NA*	0.0976 J	NA*	NA*	NA*	ND	NA*	NA*	ND	ND	ND	0.282	NA*	NA*	ND
Methyl-tert-butyl ether		0.12	100	500	1000	ND	ND	ND	ND	ND	NA*	NA*	ND	NA*	NA*	NA*	ND	NA*	NA*	ND	ND	ND	ND	NA*	NA*	ND
Methylcyclohexane						0.0037	ND	ND	21.5	0.225	NA*	NA*	ND	NA*	NA*	NA*	ND	NA*	NA*	3.81	ND	ND	2.04	NA*	NA*	0.0247
Methylene Chloride		0.05	100	500	1000	0.0019 J	0.0015 J	0.0018 J	ND	ND	NA*	NA*	ND	NA*	NA*	NA*	ND	NA*	NA*	ND	0.0015 J	0.0019 J	ND	NA*	NA*	0.0014 J
Styrene						ND	ND	ND	ND	ND	NA*	NA*	ND	NA*	NA*	NA*	ND	NA*	NA*	ND	ND	ND	ND	NA*	NA*	ND
Tetrachloroethene		1.3	19	150	300	ND	ND	ND	ND	ND	NA*	NA*	ND	NA*	NA*	NA*	ND	NA*	NA*	ND	ND	ND	ND	NA*	NA*	ND

TABLE 13. Soil Analytical Results

	Sample ID	SB-11B DUP	SB-11A	SB-11B	SB-11C	SB-11D	SB-12 BO	SB-12C	SB-12D	SB-22A	SB-22B	SB-22C	SB-22D	SB-30 B	SB-30 C	SB-30 D	SB-8A	SB-8B	SB-8C	SB-9B	SB-9C	SB-9D
	Depth	2"-2'	0-2"	2"-2'	30'-32'	30'-36'	2"-2'	25'-30'	8'-10'	0-2"	2"-2'	25'-30'	25'-27'	2"-2'	25'-30'	18'-20'	0-2"	2"-2'	28'-30'	2"-2'	25'-30'	7'-8'
	Sample Date	7/26/2017	7/26/2017	7/26/2017	7/26/2017	7/26/2017	7/25/2017	7/25/2017	7/25/2017	7/26/2017	7/26/2017	7/26/2017	7/26/2017	7/26/2017	7/26/2017	7/26/2017	7/26/2017	7/26/2017	7/26/2017	7/26/2017	7/26/2017	7/26/2017	7/26/2017
Contaminants	Part 703 Groundwater A Standard **(3)**	6 NYCRR-375.6.8(b) Unrestricted Use	6 NYCRR-375.6.8(b) Residential	6 NYCRR-375.6.8(b) Commercial	6 NYCRR-375.6.8(b) Industrial																	
Toluene		0.7	100	500	1000	ND	ND	ND	ND	0.0014 J	NA*	NA*	ND	NA*	NA*	NA*	ND	NA*	NA*	0.0498 J	ND	ND	ND	NA*	NA*	0.0012 J
Trichloroethene		0.47	21	200	400	ND	ND	ND	ND	ND	NA*	NA*	ND	NA*	NA*	NA*	ND	NA*	NA*	ND	ND	ND	ND	NA*	NA*	ND
Trichlorofluoromethane						ND	ND	ND	ND	ND	NA*	NA*	ND	NA*	NA*	NA*	ND	NA*	NA*	ND	ND	ND	ND	NA*	NA*	ND
Vinyl chloride		0.02	0.9	13	27	ND	ND	ND	ND	ND	NA*	NA*	ND	NA*	NA*	NA*	ND	NA*	NA*	ND	ND	ND	ND	NA*	NA*	ND
Xylene (Total) **(2)**		0.26	100	500	1000	ND	ND	ND	ND	0.0078	NA*	NA*	ND	NA*	NA*	NA*	0.0643 J	NA*	NA*	0.641	ND	ND	0.147 J	NA*	NA*	0.0019 J
cis-1,2-Dichloroethene		0.25	100	500	1000	ND	ND	ND	ND	ND	NA*	NA*	ND	NA*	NA*	NA*	ND	NA*	NA*	ND	ND	ND	ND	NA*	NA*	ND
cis-1,3-Dichloropropene						ND	ND	ND	ND	ND	NA*	NA*	ND	NA*	NA*	NA*	ND	NA*	NA*	ND	ND	ND	ND	NA*	NA*	ND
trans-1,2-Dichloroethene		0.19	100	500	1000	ND	ND	ND	ND	ND	NA*	NA*	ND	NA*	NA*	NA*	ND	NA*	NA*	ND	ND	ND	ND	NA*	NA*	ND
trans-1,3-Dichloropropene						ND	ND	ND	ND	ND	NA*	NA*	ND	NA*	NA*	NA*	ND	NA*	NA*	ND	ND	ND	ND	NA*	NA*	ND
SVOCs																										
1,2,4-Trichlorobenzene						ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	ND	ND	ND	NA*	NA*	NA*
2,2'-Oxybis(1-chloropropane)						ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	ND	ND	ND	NA*	NA*	NA*
2,4,5-Trichloropheno						ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	ND	ND	ND	NA*	NA*	NA*
2,4,6-Trichlorophenol						ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	ND	ND	ND	NA*	NA*	NA*
2,4-Dichlorophenol						ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	ND	ND	ND	NA*	NA*	NA*
2,4-Dimethylphenol						ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	ND	ND	ND	NA*	NA*	NA*
2,4-Dinitrophenol						ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	ND	ND	ND	NA*	NA*	NA*
2,4-Dinitrotoluene						ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	ND	ND	ND	NA*	NA*	NA*
2,6-Dinitrotoluene						ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	ND	ND	ND	NA*	NA*	NA*
2-Chloronaphthalene						ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	ND	ND	ND	NA*	NA*	NA*
2-Chlorophenol						ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	ND	ND	ND	NA*	NA*	NA*
2-Methylnaphthalene						0.135	0.0821	ND	0.158	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	ND	0.0939	ND	NA*	NA*	NA*
2-Methylphenol(o-Cresol)		0.33	100	500	1000	ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	ND	ND	ND	NA*	NA*	NA*
2-Nitroaniline						ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	ND	ND	ND	NA*	NA*	NA*
2-Nitrophenol						ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	ND	ND	ND	NA*	NA*	NA*
3&4-Methylphenol(m&p Cresol)		0.33	100	500	1000	ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	ND	ND	ND	NA*	NA*	NA*
3,3'-Dichlorobenzidine						ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	ND	ND	ND	NA*	NA*	NA*
3-Nitroaniline						ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	ND	ND	ND	NA*	NA*	NA*
4,6-Dinitro-2-methylphenol						ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	ND	ND	ND	NA*	NA*	NA*
4-Bromophenylphenyl ether						ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	ND	ND	ND	NA*	NA*	NA*
4-Chloro-3-methylphenol						ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	ND	ND	ND	NA*	NA*	NA*
4-Chloroaniline						ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	ND	ND	ND	NA*	NA*	NA*
4-Chlorophenylphenyl ether						ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	ND	ND	ND	NA*	NA*	NA*
4-Nitroaniline						ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	ND	ND	ND	NA*	NA*	NA*
4-Nitrophenol						ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	ND	ND	ND	NA*	NA*	NA*
Acenaphthene		20	100	500	1000	ND	ND	ND	0.913	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	ND	0.27	ND	NA*	NA*	NA*
Acenaphthylene		100	100	500	1000	0.0996	0.0891	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	ND	ND	ND	NA*	NA*	NA*
Acetophenone						ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	ND	ND	ND	NA*	NA*	NA*
Anthracene		100	100	500	1000	0.243	0.202	0.129	0.714	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	0.115	0.587	ND	ND	NA*	NA*	NA*
Atrazine						ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	ND	ND	ND	ND	NA*	NA*	NA*
Benzaldehyde						ND	0.152	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	ND	ND	ND	ND	NA*	NA*	NA*
Benzo(a)anthracene		1	1	5.6	11	0.831	1.43	0.595	0.221	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	0.64	1.48	ND	ND	NA*	NA*	NA*
Benzo(a)pyrene		1	1	1	1.1	1.1	1.66	0.689	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	0.723	1.33	ND	ND	NA*	NA*	NA*
Benzo(b)fluoranthene		1	1	5.6	11	1.7	2.71	0.964	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	1.02	1.81	ND	ND	NA*	NA*	NA*
Benzo(g,h,i)perylene		100	100	500	1000	0.517	0.728	0.434	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	0.334	0.549	ND	ND	NA*	NA*	NA*
Benzo(k)fluoranthene		0.8	3.9	56	110	0.755	1.33	0.396	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	0.476	0.942	ND	ND	NA*	NA*	NA*
Biphenyl (Diphenyl)						ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	ND	ND	ND	ND	NA*	NA*	NA*
Butylbenzylphthalate						ND	0.16	0.109	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	ND	ND	ND	ND	NA*	NA*	NA*
Caprolactam						ND	ND	0.306	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	ND	ND	ND	ND	NA*	NA*	NA*
Carbazole						0.158	0.152	0.0976	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	ND	0.292	ND	ND	NA*	NA*	NA*
Chrysene		1	3.9	56	110	1.26	1.68	0.72	0.65	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	0.733	1.59	ND	ND	NA*	NA*	NA*
Di-n-butylphthalate						ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	ND	ND	ND	ND	NA*	NA*	NA*
Di-n-octylphthalate						ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	ND	ND	ND	ND	NA*	NA*	NA*
Dibenz(a,h)anthracene		0.33	0.33	0.56	1.1	0.144	0.23	0.111	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	0.112	0.163	ND	ND	NA*	NA*	NA*
Dibenzofuran		7	59	350	1000	ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	ND	0.253	ND	ND	NA*	NA*	NA*
Diethylphthalate						ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	ND	ND	ND	ND	NA*	NA*	NA*
Dimethylphthalate						ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	ND	ND	ND	ND	NA*	NA*	NA*
Fluoranthene		100	100	500	1000	2.24	2.59	1.37	0.395	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	1.45	3.54	ND	ND	NA*	NA*	NA*
Fluorene		30	100	500	1000	ND	ND	ND	1.23	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	ND	0.295	ND	ND	NA*	NA*	NA*
Hexachloro-1,3-butadiene						ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	ND	ND	ND	ND	NA*	NA*	NA*
Hexachlorobenzene		0.33	1.2	6	12	ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	ND	ND	ND	ND	NA*	NA*	NA*
Hexachlorocyclopentadiene						ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	ND	ND	ND	ND	NA*	NA*	NA*
Hexachloroethane						ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	ND	ND	ND	ND	NA*	NA*	NA*
Indeno(1,2,3-cd)pyrene		0.5	0.5	5.6	11	0.48	0.683	0.446	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	0.4	0.64	ND	ND	NA*	NA*	NA*
Isophorone						ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	ND	ND	ND	ND	NA*	NA*	NA*
N-Nitroso-di-n-propylamine						ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	ND	ND	ND	ND	NA*	NA*	NA*
N-Nitrosodiphenylamine						ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	ND	ND	ND	ND	NA*	NA*	NA*
Naphthalene		12	100	500	1000	0.119	ND	0.0828	0.207	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	ND	0.208	ND	ND	NA*	NA*	NA*
Nitrobenzene						ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	ND	ND	ND	ND	NA*	NA*	NA*
Pentachlorophenol		0.8	6.7	6.7	55	ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	ND	ND	ND	ND	NA*	NA*	NA*
Phenanthrene		100	100	500	1000	1.47	0.841	0.871	3.68	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	0.696	2.85	ND	ND	NA*	NA*	NA*
Phenol		0.33	100	500	1000	ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	ND	ND	ND	ND	NA*	NA*	NA*
Pyrene		100	100	500	1000	2.07	2.24	1.12	0.963	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	1.32	2.9	ND	ND	NA*	NA*	NA*
bis(2-Chloroethoxy)methane						ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	ND	ND	ND	ND	NA*	NA*	NA*
bis(2-Chloroethyl) ether						ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	ND	ND	ND	ND	NA*	NA*	NA*
bis(2-Ethylhexyl)phthalate						0.0846	0.277	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	ND	ND	ND	ND	NA*	NA*	NA*
TPH																										
Total Petroleum Hydrocarbons						535	883	364	5620	403	NA*	NA*	1210	NA*	NA*	NA*	1310	NA*	NA*	270	268	322	265	NA*	NA*	3590

Notes:

(1) Standards based on Chromium, hexavalent.
(2) Standards based on Xylene (mixed).
(3) Groundwater standards only provided for those metals for which SPLP analyses were completed
(4) All results in ppm
(5) 'ND' = Not Detected
(6) 'NA*' = Not Analyzed
(7) Results exceeding Groundwater A Standard's are RED
(8) Results exceeding unrestricted use SCOs are ORANGE
(9) Results exceeding residential SCOs are RED
(10) Results exceeding commercial SCOs are BLUE
(11) Results exceeeding industrial SCOs are GREEN

TABLE 13. Soil Analytical Results

Contaminants	Part 703 Groundwater A Standard (3)	6 NYCRR-375.6.8(b) Unrestricted Use	6 NYCRR-375.6.8(b) Residential	6 NYCRR-375.6.8(b) Commercial	6 NYCRR-375.6.8(b) Industrial	Sample ID	SB-1BO	SB-1C	SB-20A	SB-20BO	SB-20C	SB-23BO	SB-23C	SB-33BO	SB-4BO	SB-4C	SB-5A	SB-5BO	SB-5C	SB-7BO	SB-7BO DUP	SB-7C
						Depth	2"-2'	25'-30'	0-2"	2"-3'	25'-30'	2"-2'	25'-30'	2"-2'	2"-2'	25'-30'	0-2"	2"-2'	25'-30'	2"-2'	2"-2'	25'-30'
						Sample Date	7/27/2017	7/27/2017	7/27/2017	7/27/2017	7/27/2017	7/27/2017	7/27/2017	7/27/2017	7/27/2017	7/27/2017	7/26/2017	7/26/2017	7/26/2017	7/27/2017	7/27/2017	7/27/2017
Metals																						
Aluminum							14100	6070	12400	11300	6850	12800	8680	13600	10500	8310	8760	8530	6170	11600	12400	7590
Antimony							ND	ND	ND	ND	ND	ND	ND	11.3	ND	ND	ND	505	ND	ND	0.26 J	ND
Arsenic		13	16	16	16		13.8	6.1	19.1	19.7	5.7	13.9	5.6	16	17.9	7.7	12.1	42.6	6.5	23.5	19.2	4.6
Barium		350	400	400	10000		196	26.2	257	300	49	192	45.7	274	476	43.2	182	1740	60.1	308	408	31.4
Beryllium		7.2	72	590	2700		0.34	0.12 J	0.59	0.67	0.24 J	0.29	ND	0.86	0.55	0.27 J	0.44	ND	0.21 J	0.39	0.24 J	0.22 J
Cadmium		2.5	4.3	9.3	60		0.65	0.057 J	1.1	1.3	0.14 J	0.9	0.21	0.5	1.9	0.26	0.8	6.6	0.17	1.6	1.1	0.13 J
Calcium							77800	2610	3490	6340	6230	36600	14600	122000	29000	6170	2960	20900	3100	15700	35200	5440
Chromium (1)		1	110	140	800		12.2	5.4	20	18.6	7.4	13	9.5	4.9	26.2	11.2	17.2	28.5	6.9	20.5	13	7.8
Cobalt							8.3	5.8	13.9	10.1	6.8	8.8	5	5.4	9.9	7.5	9.8	9.6	5.6	10.2	8.2	6.7
Copper		50	270	270	10000		37.5	10.4	242	185	30	63.7	13.5	1990	302	18.1	98	556	32.4	357	724	9.9
Iron							25700	15400	42800	33900	14800	34000	21000	28800	36400	16100	34500	109000	16000	60100	36300	16300
Lead		63	400	1000	3900		476	15.7	746	1310	124	332	50.3	673	1290	26.9	521	6520	158	1820	867	16.8
Magnesium							8880	3120	4630	3090	3670	8450	3300	7140	3990	4900	3220	2590	2680	4360	4790	4450
Manganese		1600	2000	10000	10000		605	298	830	476	322	943	585	2190	1930	285	531	1500	381	719	964	423
Nickel		30	310	310	10000		18.7	11.9	49	24.1	13.2	41.1	10.5	9.6	27	14.5	24.1	33	12.7	25	16.8	14.6
Potassium							2340	1020	2360	2290	1100	2860	1260	2360	2620	1350	1610	3960	948	2720	2530	1260
Selenium		3.9	180	1500	6800		0.35 J	0.35 J	1.6	2.2	0.51 J	1.1	ND	ND	2.6	0.36 J	1.2	7	0.38 J	2.5	2.1	ND
Silver		2	180	1500	6800		1.3	0.91	2.6	2.3	0.88	1.8	1.2	1.5	3.1	0.99	2.2	5.3	1	3.7	2.4	0.96
Sodium							781	ND	ND	ND	ND	277	ND	986	246 J	ND	ND	ND	ND	ND	569	ND
Thallium							ND	ND	0.30 J	ND	ND	ND	ND	ND	0.52 J	ND	ND	0.68	ND	0.29 J	ND	ND
Vanadium							33	12.3	34.5	32.1	13.9	28.5	17.8	16.7	24.1	15.2	18.5	20.8	12.7	23.9	22.6	13
Zinc		109	10000	10000	10000		267	39.5	569	612	79	274	45	104	948	86.1	384	2990	92.7	518	540	61.9
Mercury		0.18	0.81	2.8	5.7		0.89	0.096	6.7	25.1	0.23	0.57	0.031 J	1	2.3	0.95	2.1	2.1	0.32	5	39.4	0.033 J
Metals, SPLP																						
Arsenic	0.025						NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
Barium	1						NA*	NA*	NA*	NA*	NA*	0.016 J	NA*	NA*	0.022 J	0.017 J	NA*	NA*	NA*	NA*	NA*	NA*
Cadmium	0.005						NA*	NA*	NA*	NA*	NA*	0.00010 J	NA*	NA*	0.00027 J	0.00020 J	NA*	NA*	NA*	NA*	NA*	NA*
Chromium	0.05						NA*	NA*	NA*	NA*	NA*	0.0053 J	NA*	NA*	0.027	0.0067 J	NA*	NA*	NA*	NA*	NA*	NA*
Lead	0.025						NA*	NA*	NA*	NA*	NA*	0.017	NA*	NA*	0.12	0.035	NA*	NA*	NA*	NA*	NA*	NA*
Selenium	0.01						NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
Silver	0.05						NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
Mercury	0.0007						NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
Pesticides																						
4,4'-DDD		0.0033	13	92	180		NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
4,4'-DDE		0.0033	8.9	62	120		NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
4,4'-DDT		0.0033	7.9	47	94		NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
Aldrin		0.005	0.097	0.68	1.4		NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
Dieldrin		0.005	0.2	1.4	2.8		NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
Endosulfan I		2.4	24	200	920		NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
Endosulfan II		2.4	24	200	920		NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
Endosulfan sulfate		2.4	24	200	920		NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
Endrin		0.014	11	89	410		NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
Endrin aldehyde							NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
Endrin ketone							NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
Heptachlor		0.042	2.1	15	29		NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
Heptachlor epoxide							NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
Methoxychlor							NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
Toxaphene							NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
alpha-BHC		0.02	0.48	3.4	6.8		NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
alpha-Chlordane		0.094	4.2	24	47		NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
beta-BHC		0.036	0.36	3	14		NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
delta-BHC		0.04	100	500	1000		NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
gamma-BHC (Lindane)		0.1	1.3	9.2	23		NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
gamma-Chlordane							NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
PCBs																						
PCB-1016 (Aroclor 1016)		0.1	1	1	25		NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
PCB-1221 (Aroclor 1221)		0.1	1	1	25		NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
PCB-1232 (Aroclor 1232)		0.1	1	1	25		NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
PCB-1242 (Aroclor 1242)		0.1	1	1	25		NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
PCB-1248 (Aroclor 1248)		0.1	1	1	25		NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
PCB-1254 (Aroclor 1254)		0.1	1	1	25		NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
PCB-1260 (Aroclor 1260)		0.1	1	1	25		NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*

TABLE 13. Soil Analytical Results

					Sample ID	SB-1BO	SB-1C	SB-20A	SB-20BO	SB-20C	SB-23BO	SB-23C	SB-33BO	SB-4BO	SB-4C	SB-5A	SB-5BO	SB-5C	SB-7BO	SB-7BO DUP	SB-7C
					Depth	2"-2'	25'-30'	0-2"	2"-3'	25'-30'	2"-2'	25'-30'	2"-2'	2"-2'	25'-30'	0-2"	2"-2'	25'-30'	2"-2'	2"-2'	25'-30'
					Sample Date	7/27/2017	7/27/2017	7/27/2017	7/27/2017	7/27/2017	7/27/2017	7/27/2017	7/27/2017	7/27/2017	7/27/2017	7/26/2017	7/26/2017	7/26/2017	7/27/2017	7/27/2017	7/27/2017
Contaminants	Part 703 Groundwater A Standard **(3)**	6 NYCRR-375.6.8(b) Unrestricted Use	6 NYCRR-375.6.8(b) Residential	6 NYCRR-375.6.8(b) Commercial	6 NYCRR-375.6.8(b) Industrial															
VOCs																				
1,1,1-Trichloroethane		0.68	100	500	1000	NA*	NA*	NA*	NA*	NA*	ND	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
1,1,2,2-Tetrachloroethane						NA*	NA*	NA*	NA*	NA*	ND	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
1,1,2-Trichloroethane						NA*	NA*	NA*	NA*	NA*	ND	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
1,1,2-Trichlorotrifluoroethane						NA*	NA*	NA*	NA*	NA*	ND	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
1,1-Dichloroethane		0.27	26	240	480	NA*	NA*	NA*	NA*	NA*	ND	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
1,1-Dichloroethene		0.33	100	500	1000	NA*	NA*	NA*	NA*	NA*	ND	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
1,2,4-Trichlorobenzene						NA*	NA*	NA*	NA*	NA*	ND	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
1,2-Dibromo-3-chloropropane						NA*	NA*	NA*	NA*	NA*	ND	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
1,2-Dibromoethane (EDB)						NA*	NA*	NA*	NA*	NA*	ND	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
1,2-Dichlorobenzene		1.1	100	500	1000	NA*	NA*	NA*	NA*	NA*	ND	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
1,2-Dichloroethane		0.02	3.1	30	60	NA*	NA*	NA*	NA*	NA*	ND	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
1,2-Dichloropropane						NA*	NA*	NA*	NA*	NA*	ND	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
1,3-Dichlorobenzene		2.4	49	280	560	NA*	NA*	NA*	NA*	NA*	ND	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
1,4-Dichlorobenzene		1.8	13	130	250	NA*	NA*	NA*	NA*	NA*	ND	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
2-Butanone (MEK)		0.12	100	500	1000	NA*	NA*	NA*	NA*	NA*	ND	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
2-Hexanone						NA*	NA*	NA*	NA*	NA*	ND	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
4-Methyl-2-pentanone (MIBK)						NA*	NA*	NA*	NA*	NA*	ND	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
Acetone		0.05	100	500	1000	NA*	NA*	NA*	NA*	NA*	ND	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
Benzene		0.06	4.8	44	89	NA*	NA*	NA*	NA*	NA*	ND	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
Bromodichloromethane						NA*	NA*	NA*	NA*	NA*	ND	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
Bromoform						NA*	NA*	NA*	NA*	NA*	ND	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
Bromomethane						NA*	NA*	NA*	NA*	NA*	ND	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
Carbon disulfide						NA*	NA*	NA*	NA*	NA*	ND	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
Carbon tetrachloride		0.76	2.4	22	44	NA*	NA*	NA*	NA*	NA*	ND	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
Chlorobenzene		1.1	100	500	1000	NA*	NA*	NA*	NA*	NA*	ND	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
Chloroethane						NA*	NA*	NA*	NA*	NA*	ND	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
Chloroform		0.37	49	350	700	NA*	NA*	NA*	NA*	NA*	ND	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
Chloromethane						NA*	NA*	NA*	NA*	NA*	ND	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
Cyclohexane						NA*	NA*	NA*	NA*	NA*	ND	9.74	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
Dibromochloromethane						NA*	NA*	NA*	NA*	NA*	ND	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
Dichlorodifluoromethane						NA*	NA*	NA*	NA*	NA*	ND	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
Ethylbenzene		1	41	390	780	NA*	NA*	NA*	NA*	NA*	ND	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
Isopropylbenzene (Cumene)						NA*	NA*	NA*	NA*	NA*	ND	1.2	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
Methyl acetate						NA*	NA*	NA*	NA*	NA*	0.0082	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
Methyl-tert-butyl ether		0.12	100	500	1000	NA*	NA*	NA*	NA*	NA*	ND	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
Methylcyclohexane						NA*	NA*	NA*	NA*	NA*	ND	30.2	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
Methylene Chloride		0.05	100	500	1000	NA*	NA*	NA*	NA*	NA*	0.0024 J	ND	NA*	0.0023 J	0.0014 J	NA*	NA*	NA*	NA*	NA*	NA*
Styrene						NA*	NA*	NA*	NA*	NA*	ND	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
Tetrachloroethene		1.3	19	150	300	NA*	NA*	NA*	NA*	NA*	ND	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
Toluene		0.7	100	500	1000	NA*	NA*	NA*	NA*	NA*	ND	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
Trichloroethene		0.47	21	200	400	NA*	NA*	NA*	NA*	NA*	ND	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
Trichlorofluoromethane						NA*	NA*	NA*	NA*	NA*	ND	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
Vinyl chloride		0.02	0.9	13	27	NA*	NA*	NA*	NA*	NA*	ND	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
Xylene (Total) **(2)**		0.26	100	500	1000	NA*	NA*	NA*	NA*	NA*	ND	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
cis-1,2-Dichloroethene		0.25	100	500	1000	NA*	NA*	NA*	NA*	NA*	ND	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
cis-1,3-Dichloropropene						NA*	NA*	NA*	NA*	NA*	ND	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
trans-1,2-Dichloroethene		0.19	100	500	1000	NA*	NA*	NA*	NA*	NA*	ND	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
trans-1,3-Dichloropropene						NA*	NA*	NA*	NA*	NA*	ND	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*

TABLE 13. Soil Analytical Results

					Sample ID	SB-1BO	SB-1C	SB-20A	SB-20BO	SB-20C	SB-23BO	SB-23C	SB-33BO	SB-4BO	SB-4C	SB-5A	SB-5BO	SB-5C	SB-7BO	SB-7BO DUP	SB-7C
					Depth	2"-2'	25'-30'	0-2"	2"-3'	25'-30'	2"-2'	25'-30'	2"-2'	2"-2'	25'-30'	0-2"	2"-2'	25'-30'	2"-2'	2"-2'	25'-30'
					Sample Date	7/27/2017	7/27/2017	7/27/2017	7/27/2017	7/27/2017	7/27/2017	7/27/2017	7/27/2017	7/27/2017	7/27/2017	7/26/2017	7/26/2017	7/26/2017	7/27/2017	7/27/2017	7/27/2017
Contaminants	Part 703 Groundwater A Standard **(3)**	6 NYCRR-375.6.8(b) Unrestricted Use	6 NYCRR-375.6.8(b) Residential	6 NYCRR-375.6.8(b) Commercial	6 NYCRR-375.6.8(b) Industrial															
SVOCs																				
1,2,4-Trichlorobenzene						NA*	NA*	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	ND
2,2'-Oxybis(1-chloropropane)						NA*	NA*	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	ND
2,4,5-Trichlorophenol						NA*	NA*	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	ND
2,4,6-Trichlorophenol						NA*	NA*	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	ND
2,4-Dichlorophenol						NA*	NA*	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	ND
2,4-Dimethylphenol						NA*	NA*	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	ND
2,4-Dinitrophenol						NA*	NA*	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	ND
2,4-Dinitrotoluene						NA*	NA*	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	ND
2,6-Dinitrotoluene						NA*	NA*	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	ND
2-Chloronaphthalene						NA*	NA*	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	ND
2-Chlorophenol						NA*	NA*	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	ND
2-Methylnaphthalene						NA*	NA*	0.109	ND	ND	ND	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	ND
2-Methylphenol(o-Cresol)		0.33	100	500	1000	NA*	NA*	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	ND
2-Nitroaniline						NA*	NA*	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	ND
2-Nitrophenol						NA*	NA*	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	ND
3&4-Methylphenol(m&p Cresol)		0.33	100	500	1000	NA*	NA*	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	ND
3,3'-Dichlorobenzidine						NA*	NA*	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	ND
3-Nitroaniline						NA*	NA*	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	ND
4,6-Dinitro-2-methylphenol						NA*	NA*	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	ND
4-Bromophenylphenyl ether						NA*	NA*	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	ND
4-Chloro-3-methylphenol						NA*	NA*	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	ND
4-Chloroaniline						NA*	NA*	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	ND
4-Chlorophenylphenyl ether						NA*	NA*	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	ND
4-Nitroaniline						NA*	NA*	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	ND
4-Nitrophenol						NA*	NA*	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	ND
Acenaphthene		20	100	500	1000	NA*	NA*	ND	0.12	ND	ND	2.7	NA*	0.183	0.129	NA*	NA*	NA*	NA*	NA*	ND
Acenaphthylene		100	100	500	1000	NA*	NA*	0.113	0.0973	ND	ND	ND	NA*	0.112	ND	NA*	NA*	NA*	NA*	NA*	ND
Acetophenone						NA*	NA*	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	ND
Anthracene		100	100	500	1000	NA*	NA*	0.195	0.369	ND	0.13	1.2	NA*	0.481	0.234	NA*	NA*	NA*	NA*	NA*	0.948
Atrazine						NA*	NA*	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	ND
Benzaldehyde						NA*	NA*	0.146	ND	ND	ND	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	ND
Benzo(a)anthracene		1	1	5.6	11	NA*	NA*	0.499	1.76	0.147	0.573	ND	NA*	1.83	0.417	NA*	NA*	NA*	NA*	NA*	0.185
Benzo(a)pyrene		1	1	1	1.1	NA*	NA*	0.589	1.71	0.124	0.578	ND	NA*	1.9	0.324	NA*	NA*	NA*	NA*	NA*	ND
Benzo(b)fluoranthene		1	1	5.6	11	NA*	NA*	1.09	2.65	0.15	0.934	ND	NA*	2.77	0.422	NA*	NA*	NA*	NA*	NA*	ND
Benzo(g,h,i)perylene		100	100	500	1000	NA*	NA*	0.235	0.543	ND	0.156	ND	NA*	0.746	0.153	NA*	NA*	NA*	NA*	NA*	ND
Benzo(k)fluoranthene		0.8	3.9	56	110	NA*	NA*	0.485	1.34	0.07 J	0.495	ND	NA*	1.16	0.191	NA*	NA*	NA*	NA*	NA*	ND
Biphenyl (Diphenyl)						NA*	NA*	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	ND
Butylbenzylphthalate						NA*	NA*	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	ND
Caprolactam						NA*	NA*	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	ND
Carbazole						NA*	NA*	0.109	0.14	ND	ND	ND	NA*	0.148	ND	NA*	NA*	NA*	NA*	NA*	ND
Chrysene		1	3.9	56	110	NA*	NA*	0.773	1.78	0.145	0.593	ND	NA*	1.89	0.4	NA*	NA*	NA*	NA*	NA*	0.488
Di-n-butylphthalate						NA*	NA*	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	ND
Di-n-octylphthalate						NA*	NA*	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	ND
Dibenz(a,h)anthracene		0.33	0.33	0.56	1.1	NA*	NA*	ND	0.18	ND	ND	ND	NA*	0.194	ND	NA*	NA*	NA*	NA*	NA*	ND
Dibenzofuran		7	59	350	1000	NA*	NA*	ND	0.0911	ND	ND	ND	NA*	0.0849	ND	NA*	NA*	NA*	NA*	NA*	ND
Diethylphthalate						NA*	NA*	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	ND
Dimethylphthalate						NA*	NA*	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	ND
Fluoranthene		100	100	500	1000	NA*	NA*	1.38	3.27	0.294	0.973	0.797	NA*	3.26	0.969	NA*	NA*	NA*	NA*	NA*	0.615
Fluorene		30	100	500	1000	NA*	NA*	ND	0.121	ND	ND	4.18	NA*	0.2	0.135	NA*	NA*	NA*	NA*	NA*	3.93
Hexachloro-1,3-butadiene						NA*	NA*	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	ND
Hexachlorobenzene		0.33	1.2	6	12	NA*	NA*	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	ND
Hexachlorocyclopentadiene						NA*	NA*	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	ND
Hexachloroethane						NA*	NA*	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	ND
Indeno(1,2,3-cd)pyrene		0.5	0.5	5.6	11	NA*	NA*	0.197	0.674	ND	0.201	ND	NA*	0.795	0.163	NA*	NA*	NA*	NA*	NA*	ND
Isophorone						NA*	NA*	ND	ND	ND	0.158	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	ND
N-Nitroso-di-n-propylamine						NA*	NA*	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	ND
N-Nitrosodiphenylamine						NA*	NA*	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	ND
Naphthalene		12	100	500	1000	NA*	NA*	0.0953	0.104	ND	ND	0.938	NA*	0.0912	ND	NA*	NA*	NA*	NA*	NA*	ND
Nitrobenzene						NA*	NA*	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	ND
Pentachlorophenol		0.8	6.7	6.7	55	NA*	NA*	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	ND
Phenanthrene		100	100	500	1000	NA*	NA*	1.07	1.82	0.19	0.519	6.32	NA*	2.83	0.628	NA*	NA*	NA*	NA*	NA*	6.35
Phenol		0.33	100	500	1000	NA*	NA*	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	ND
Pyrene		100	100	500	1000	NA*	NA*	1.55	4.22	0.251	1.17	1.38	NA*	5.17	0.793	NA*	NA*	NA*	NA*	NA*	1.33
bis(2-Chloroethoxy)methane						NA*	NA*	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	ND
bis(2-Chloroethyl) ether						NA*	NA*	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	ND
bis(2-Ethylhexyl)phthalate						NA*	NA*	0.119	0.0771	ND	ND	ND	NA*	0.0922	ND	NA*	NA*	NA*	NA*	NA*	ND
TPH																				
Total Petroleum Hydrocarbons						NA*	NA*	NA*	NA*	NA*	5630	7970	NA*	410	1090	NA*	NA*	NA*	NA*	NA*	NA*

Notes:

(1) Standards based on Chromium, hexavalent.
(2) Standards based on Xylene (mixed).
(3) Groundwater standards only provided for those metals for which SPLP analyses were completed.
(4) All results in ppm
(5) 'ND' = Not Detected
(6) 'NA*' = Not Analyzed

(7) Results exceeding Groundwater A Standard's are RED
(8) Results exceeding unrestricted use SCOs are ORANGE
(9) Results exceeding residential SCOs are RED
(10) Results exceeding commercial SCOs are BLUE
(11) Results exceeeding industrial SCOs are GREEN

TABLE 13. Soil Analytical Results

					Sample ID	SB-28 BO	SB-28 C	SB-29 BO	SB-29 BO DUP	SB-29 C	SB-3 BO	SB-36 BO	SB-36C	SB-3C	SB-3D	SB2 BO	SB2A	SB2C	SB33-C	SB33-D	SB4A
					Depth	2"-2'	28'-30'	2"-2'	2"-2'	25'-30'	2"-2'	2"-2'	25'-30'	25'-30'	5'-10'	2"-2'	0-2"	25'-30'	25'-30'	25'-30'	0-2"
					Sample Date	7/28/2017	7/28/2017	7/28/2017	7/28/2017	7/28/2017	7/28/2017	7/28/2017	7/28/2017	7/28/2017	7/28/2017	7/28/2017	7/28/2017	7/28/2017	7/27/2017	7/27/2017	7/28/2017
Contaminants	Part 703 Groundwater A Standard **(3)**	6 NYCRR-375.6.8(b) Unrestricted Use	6 NYCRR-375.6.8(b) Residential	6 NYCRR-375.6.8(b) Commercial	6 NYCRR-375.6.8(b) Industrial															
Metals																				
Aluminum						12300	7250	9460	8440	8320	13000	17900	8670	6720	NA*	11500	10200	8020	9340	NA*	12900
Antimony						ND	ND	ND	ND	ND	ND	ND	ND	ND	NA*	ND	ND	ND	ND	NA*	ND
Arsenic		13	16	16	16	8.4	3	12.2	12.9	3.9	20.9	8.3	4.9	3.1	NA*	12.3	3.8	4.7	9.2	NA*	3.3
Barium		350	400	400	10000	169	40	154	109	49.6	198	211	52.5	32.8	NA*	423	186	52	64	NA*	362
Beryllium		7.2	72	590	2700	0.54	0.19 J	0.31	0.22 J	0.25 J	0.37	0.54	0.25 J	0.14 J	NA*	0.62	0.94	0.23 J	0.26 J	NA*	0.81
Cadmium		2.5	4.3	9.3	60	0.31	0.033 J	2.1	1.2	0.16 J	0.79	0.39	0.11 J	0.091 J	NA*	1.4	0.41	0.22	0.26	NA*	0.33
Calcium						7770	1450	5000	3790	5650	13800	30700	6420	3730	NA*	18600	29400	2670	5110	NA*	8120
Chromium **(1)**		1	110	140	800	8.2	3.8	6.2	3.5	7.9	11.3	7	7.8	5	NA*	15.7	9.9	6	7	NA*	11.7
Cobalt						10.1	5.3	8.8	8.7	6.2	10.1	10.4	8	5.4	NA*	9.1	11.1	6	8.7	NA*	12.7
Copper		50	270	270	10000	46.7	6.6	216	265	14.6	135	119	16.4	8.9	NA*	126	36.2	19.7	26.4	NA*	24.1
Iron						26000	13400	39200	47100	14300	29800	20100	18500	12900	NA*	25600	22500	17600	23100	NA*	27900
Lead		63	400	1000	3900	246	4.5	388	560	17.6	1080	575	16.5	10.5	NA*	1370	52.3	40.3	86.9	NA*	21.5
Magnesium						6030	2840	3910	3470	3940	5240	6230	4310	3460	NA*	4000	6220	3000	4400	NA*	6230
Manganese		1600	2000	10000	10000	684	167	503	311	316	606	491	294	178	NA*	517	947	291	574	NA*	1020
Nickel		30	310	310	10000	23.4	11.4	21	24.7	13.5	23.8	20.4	15.7	11.5	NA*	47.3	27.5	13.1	17.2	NA*	25.7
Potassium						2440	1300	2150	1910	1540	2780	1860	1400	1220	NA*	2780	1970	1480	1500	NA*	2160
Selenium		3.9	180	1500	6800	0.41 J	ND	2.4	1.9	0.38 J	2.8	1.4	0.49 J	ND	NA*	1.6	0.67	0.37 J	0.49 J	NA*	0.28 J
Silver		2	180	1500	6800	1.8	0.94	3.2	3.4	1.2	2.4	1.6	1.2	0.94	NA*	2.5	1.8	1.5	1.4	NA*	2.1
Sodium						ND	ND	227 J	ND	ND	ND	ND	ND	ND	NA*	690	ND	ND	ND	NA*	ND
Thallium						0.77	ND	0.26 J	ND	ND	0.37 J	ND	ND	ND	NA*	0.28 J	0.44 J	ND	0.58	NA*	0.57
Vanadium						21.5	12	19.5	19.3	14.4	27.2	22	16.4	12.6	NA*	26	8.7	12.8	15.7	NA*	12.2
Zinc		109	10000	10000	10000	138	40.7	973	830	47.2	452	260	53.5	39.5	NA*	823	161	71.2	102	NA*	82
Mercury		0.18	0.81	2.8	5.7	0.31	0.014 J	0.58	0.34	0.34	1.5	0.55	0.1	0.071	NA*	5.9	0.099	0.035 J	0.32	NA*	0.069
Metals, SPLP																				
Arsenic	0.025					ND	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	ND	NA*	NA*	NA*	ND	NA*
Barium	1					0.011 J	0.0073 J	0.018 J	0.014 J	0.012 J	0.014 J	NA*	0.015 J	0.0055 J	NA*	0.021 J	NA*	NA*	NA*	0.018 J	NA*
Cadmium	0.005					0.00013 J	0.000087 J	ND	0.00018 J	0.00034 J	ND	NA*	0.00012 J	ND	NA*	0.00015 J	NA*	NA*	NA*	0.00029 J	NA*
Chromium	0.05					0.0051 J	0.0031 J	0.0046 J	0.0041 J	0.0044 J	0.0033 J	NA*	0.0058 J	ND	NA*	0.0058 J	NA*	NA*	NA*	0.0043 J	NA*
Lead	0.025					0.0098	0.0092	0.034	0.039	0.0064	0.042	NA*	0.011	ND	NA*	0.07	NA*	NA*	NA*	0.028	NA*
Selenium	0.01					ND	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	ND	NA*	NA*	NA*	ND	NA*
Silver	0.05					ND	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	ND	NA*	NA*	NA*	ND	NA*
Mercury	0.0007					ND	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	0.0002	NA*	NA*	NA*	ND	NA*
Pesticides																				
4,4'-DDD		0.0033	13	92	180	ND	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	ND	NA*	NA*	ND	ND	NA*
4,4'-DDE		0.0033	8.9	62	120	ND	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	ND	NA*	NA*	ND	ND	NA*
4,4'-DDT		0.0033	7.9	47	94	ND	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	ND	NA*	NA*	ND	ND	NA*
Aldrin		0.005	0.097	0.68	1.4	ND	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	ND	NA*	NA*	ND	ND	NA*
Dieldrin		0.005	0.2	1.4	2.8	ND	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	ND	NA*	NA*	ND	ND	NA*
Endosulfan I		2.4	24	200	920	ND	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	ND	NA*	NA*	ND	ND	NA*
Endosulfan II		2.4	24	200	920	ND	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	ND	NA*	NA*	ND	ND	NA*
Endosulfan sulfate		2.4	24	200	920	ND	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	ND	NA*	NA*	ND	ND	NA*
Endrin		0.014	11	89	410	ND	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	ND	NA*	NA*	ND	ND	NA*
Endrin aldehyde						ND	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	ND	NA*	NA*	ND	ND	NA*
Endrin ketone						ND	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	ND	NA*	NA*	ND	ND	NA*
Heptachlor		0.042	2.1	15	29	ND	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	ND	NA*	NA*	ND	ND	NA*
Heptachlor epoxide						ND	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	ND	NA*	NA*	ND	ND	NA*
Methoxychlor						ND	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	ND	NA*	NA*	ND	ND	NA*
Toxaphene						ND	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	ND	NA*	NA*	ND	ND	NA*
alpha-BHC		0.02	0.48	3.4	6.8	ND	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	ND	NA*	NA*	ND	ND	NA*
alpha-Chlordane		0.094	4.2	24	47	ND	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	ND	NA*	NA*	ND	ND	NA*
beta-BHC		0.036	0.36	3	14	ND	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	ND	NA*	NA*	ND	ND	NA*
delta-BHC		0.04	100	500	1000	ND	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	ND	NA*	NA*	ND	ND	NA*
gamma-BHC (Lindane)		0.1	1.3	9.2	23	ND	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	ND	NA*	NA*	ND	ND	NA*
gamma-Chlordane						ND	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	ND	NA*	NA*	ND	ND	NA*
PCBs																				
PCB-1016 (Aroclor 1016)		0.1	1	1	25	ND	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	ND	NA*	NA*	ND	ND	NA*
PCB-1221 (Aroclor 1221)		0.1	1	1	25	ND	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	ND	NA*	NA*	ND	ND	NA*
PCB-1232 (Aroclor 1232)		0.1	1	1	25	ND	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	ND	NA*	NA*	ND	ND	NA*
PCB-1242 (Aroclor 1242)		0.1	1	1	25	ND	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	ND	NA*	NA*	ND	ND	NA*
PCB-1248 (Aroclor 1248)		0.1	1	1	25	ND	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	ND	NA*	NA*	ND	ND	NA*
PCB-1254 (Aroclor 1254)		0.1	1	1	25	ND	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	ND	NA*	NA*	ND	ND	NA*
PCB-1260 (Aroclor 1260)		0.1	1	1	25	ND	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	ND	NA*	NA*	ND	ND	NA*

TABLE 13. Soil Analytical Results

					Sample ID	SB-28 BO	SB-28 C	SB-29 BO	SB-29 BO DUP	SB-29 C	SB-3 BO	SB-36 BO	SB-36C	SB-3C	SB-3D	SB2 BO	SB2A	SB2C	SB33-C	SB33-D	SB4A
					Depth	2"-2'	28'-30'	2"-2'	2"-2'	25'-30'	2"-2'	2"-2'	25'-30'	25'-30'	5'-10'	2"-2'	0-2"	25'-30'	25'-30'	25'-30'	0-2"
					Sample Date	7/28/2017	7/28/2017	7/28/2017	7/28/2017	7/28/2017	7/28/2017	7/28/2017	7/28/2017	7/28/2017	7/28/2017	7/28/2017	7/28/2017	7/28/2017	7/27/2017	7/27/2017	7/28/2017
Contaminants	Part 703 Groundwater A Standard **(3)**	6 NYCRR-375.6.8(b) Unrestricted Use	6 NYCRR-375.6.8(b) Residential	6 NYCRR-375.6.8(b) Commercial	6 NYCRR-375.6.8(b) Industrial															
VOCs																				
1,1,1-Trichloroethane		0.68	100	500	1000	ND	ND	ND	ND	ND	ND	NA*	ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*
1,1,2,2-Tetrachloroethane						ND	ND	ND	ND	ND	ND	NA*	ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*
1,1,2-Trichloroethane						ND	ND	ND	ND	ND	ND	NA*	ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*
1,1,2-Trichlorotrifluoroethane						ND	ND	ND	ND	ND	ND	NA*	ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*
1,1-Dichloroethane		0.27	26	240	480	ND	ND	ND	ND	ND	ND	NA*	ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*
1,1-Dichloroethene		0.33	100	500	1000	ND	ND	ND	ND	ND	ND	NA*	ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*
1,2,4-Trichlorobenzene						ND	ND	ND	ND	ND	ND	NA*	ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*
1,2-Dibromo-3-chloropropane						ND	ND	ND	ND	ND	ND	NA*	ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*
1,2-Dibromoethane (EDB)						ND	ND	ND	ND	ND	ND	NA*	ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*
1,2-Dichlorobenzene		1.1	100	500	1000	ND	ND	ND	ND	ND	ND	NA*	ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*
1,2-Dichloroethane		0.02	3.1	30	60	ND	ND	ND	ND	ND	ND	NA*	ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*
1,2-Dichloropropane						ND	ND	ND	ND	ND	ND	NA*	ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*
1,3-Dichlorobenzene		2.4	49	280	560	ND	ND	ND	ND	ND	ND	NA*	ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*
1,4-Dichlorobenzene		1.8	13	130	250	ND	ND	ND	ND	ND	ND	NA*	ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*
2-Butanone (MEK)		0.12	100	500	1000	ND	ND	ND	ND	ND	ND	NA*	0.0301	0.0093	0.212 J	ND	NA*	NA*	NA*	NA*	NA*
2-Hexanone						ND	ND	ND	ND	ND	ND	NA*	ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*
4-Methyl-2-pentanone (MIBK)						ND	ND	ND	ND	ND	ND	NA*	ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*
Acetone		0.05	100	500	1000	ND	ND	ND	ND	0.0175	ND	NA*	0.169	0.032	ND	ND	NA*	NA*	NA*	NA*	NA*
Benzene		0.06	4.8	44	89	ND	ND	ND	ND	ND	ND	NA*	ND	ND	0.476	ND	NA*	NA*	NA*	NA*	NA*
Bromodichloromethane						ND	ND	ND	ND	ND	ND	NA*	ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*
Bromoform						ND	ND	ND	ND	ND	ND	NA*	ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*
Bromomethane						ND	ND	ND	ND	ND	ND	NA*	ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*
Carbon disulfide						ND	ND	ND	ND	ND	ND	NA*	ND	0.0018 J	0.178 J	ND	NA*	NA*	NA*	NA*	NA*
Carbon tetrachloride		0.76	2.4	22	44	ND	ND	ND	ND	ND	ND	NA*	ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*
Chlorobenzene		1.1	100	500	1000	ND	ND	ND	ND	ND	ND	NA*	ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*
Chloroethane						ND	ND	ND	ND	ND	ND	NA*	ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*
Chloroform		0.37	49	350	700	ND	ND	ND	ND	ND	ND	NA*	ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*
Chloromethane						ND	ND	ND	ND	ND	ND	NA*	ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*
Cyclohexane						ND	ND	ND	ND	ND	ND	NA*	ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*
Dibromochloromethane						ND	ND	ND	ND	ND	ND	NA*	ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*
Dichlorodifluoromethane						ND	ND	ND	ND	ND	ND	NA*	ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*
Ethylbenzene		1	41	390	780	ND	ND	ND	ND	ND	ND	NA*	ND	ND	0.407	ND	NA*	NA*	NA*	NA*	NA*
Isopropylbenzene (Cumene)						ND	0.129 J	ND	ND	ND	ND	NA*	0.0014 J	ND	0.91	ND	NA*	NA*	NA*	NA*	NA*
Methyl acetate						ND	0.167	ND	ND	ND	ND	NA*	ND	ND	1.01	ND	NA*	NA*	NA*	NA*	NA*
Methyl-tert-butyl ether		0.12	100	500	1000	ND	ND	ND	ND	ND	ND	NA*	ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*
Methylcyclohexane						ND	ND	ND	ND	ND	ND	NA*	ND	ND	0.228	ND	NA*	NA*	NA*	NA*	NA*
Methylene Chloride		0.05	100	500	1000	ND	ND	ND	ND	ND	ND	NA*	ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*
Styrene						ND	ND	ND	ND	ND	ND	NA*	ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*
Tetrachloroethene		1.3	19	150	300	ND	ND	ND	ND	ND	ND	NA*	ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*
Toluene		0.7	100	500	1000	ND	ND	ND	ND	ND	ND	NA*	ND	ND	0.258	ND	NA*	NA*	NA*	NA*	NA*
Trichloroethene		0.47	21	200	400	ND	ND	ND	ND	ND	ND	NA*	ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*
Trichlorofluoromethane						ND	ND	ND	ND	0.0022 J	ND	NA*	0.0019 J	0.0014 J	ND	0.0026 J	NA*	NA*	NA*	NA*	NA*
Vinyl chloride		0.02	0.9	13	27	ND	ND	ND	ND	ND	ND	NA*	ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*
Xylene (Total) **(2)**		0.26	100	500	1000	ND	ND	ND	ND	ND	ND	NA*	ND	ND	1.42	ND	NA*	NA*	NA*	NA*	NA*
cis-1,2-Dichloroethene		0.25	100	500	1000	ND	ND	ND	ND	ND	ND	NA*	ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*
cis-1,3-Dichloropropene						ND	ND	ND	ND	ND	ND	NA*	ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*
trans-1,2-Dichloroethene		0.19	100	500	1000	ND	ND	ND	ND	ND	ND	NA*	ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*
trans-1,3-Dichloropropene						ND	ND	ND	ND	ND	ND	NA*	ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*

TABLE 13. Soil Analytical Results

					Sample ID	SB-28 BO	SB-28 C	SB-29 BO	SB-29 BO DUP	SB-29 C	SB-3 BO	SB-36 BO	SB-36C	SB-3C	SB-3D	SB2 BO	SB2A	SB2C	SB33-C	SB33-D	SB4A
					Depth	2"-2'	28'-30'	2"-2'	2"-2'	25'-30'	2"-2'	2"-2'	25'-30'	25'-30'	5'-10'	2"-2'	0-2"	25'-30'	25'-30'	25'-30'	0-2"
					Sample Date	7/28/2017	7/28/2017	7/28/2017	7/28/2017	7/28/2017	7/28/2017	7/28/2017	7/28/2017	7/28/2017	7/28/2017	7/28/2017	7/28/2017	7/28/2017	7/27/2017	7/27/2017	7/28/2017
Contaminants	Part 703 Groundwater A Standard **(3)**	6 NYCRR-375.6.8(b) Unrestricted Use	6 NYCRR-375.6.8(b) Residential	6 NYCRR-375.6.8(b) Commercial	6 NYCRR-375.6.8(b) Industrial																
SVOCs																					
1,2,4-Trichlorobenzene						ND	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	ND	NA*	NA*	NA*	NA*	NA*
2,2'-Oxybis(1-chloropropane)						ND	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	ND	NA*	NA*	NA*	NA*	NA*
2,4,5-Trichlorophenol						ND	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	ND	NA*	NA*	NA*	NA*	NA*
2,4,6-Trichlorophenol						ND	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	ND	NA*	NA*	NA*	NA*	NA*
2,4-Dichlorophenol						ND	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	ND	NA*	NA*	NA*	NA*	NA*
2,4-Dimethylphenol						ND	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	ND	NA*	NA*	NA*	NA*	NA*
2,4-Dinitrophenol						ND	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	ND	NA*	NA*	NA*	NA*	NA*
2,4-Dinitrotoluene						ND	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	ND	NA*	NA*	NA*	NA*	NA*
2,6-Dinitrotoluene						ND	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	ND	NA*	NA*	NA*	NA*	NA*
2-Chloronaphthalene						ND	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	ND	NA*	NA*	NA*	NA*	NA*
2-Chlorophenol						ND	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	ND	NA*	NA*	NA*	NA*	NA*
2-Methylnaphthalene						ND	ND	0.193	ND	ND	0.431	NA*	ND	ND	NA*	ND	NA*	NA*	NA*	NA*	NA*
2-Methylphenol(o-Cresol)		0.33	100	500	1000	ND	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	ND	NA*	NA*	NA*	NA*	NA*
2-Nitroaniline						ND	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	ND	NA*	NA*	NA*	NA*	NA*
2-Nitrophenol						ND	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	ND	NA*	NA*	NA*	NA*	NA*
3&4-Methylphenol(m&p Cresol)		0.33	100	500	1000	ND	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	ND	NA*	NA*	NA*	NA*	NA*
3,3'-Dichlorobenzidine						ND	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	ND	NA*	NA*	NA*	NA*	NA*
3-Nitroaniline						ND	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	ND	NA*	NA*	NA*	NA*	NA*
4,6-Dinitro-2-methylphenol						ND	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	ND	NA*	NA*	NA*	NA*	NA*
4-Bromophenylphenyl ether						ND	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	ND	NA*	NA*	NA*	NA*	NA*
4-Chloro-3-methylphenol						ND	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	ND	NA*	NA*	NA*	NA*	NA*
4-Chloroaniline						ND	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	ND	NA*	NA*	NA*	NA*	NA*
4-Chlorophenylphenyl ether						ND	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	ND	NA*	NA*	NA*	NA*	NA*
4-Nitroaniline						ND	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	ND	NA*	NA*	NA*	NA*	NA*
4-Nitrophenol						ND	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	ND	NA*	NA*	NA*	NA*	NA*
Acenaphthene		20	100	500	1000	ND	ND	0.135	ND	ND	0.186	NA*	ND	ND	NA*	ND	NA*	NA*	NA*	NA*	NA*
Acenaphthylene		100	100	500	1000	ND	ND	ND	ND	ND	0.352	NA*	ND	ND	NA*	ND	NA*	NA*	NA*	NA*	NA*
Acetophenone						ND	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	ND	NA*	NA*	NA*	NA*	NA*
Anthracene		100	100	500	1000	ND	ND	0.0804	ND	ND	0.342	NA*	ND	ND	NA*	ND	NA*	NA*	NA*	NA*	NA*
Atrazine						ND	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	ND	NA*	NA*	NA*	NA*	NA*
Benzaldehyde						ND	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	0.0854	NA*	NA*	NA*	NA*	NA*
Benzo(a)anthracene		1	1	5.6	11	ND	ND	ND	ND	ND	1.04	NA*	ND	ND	NA*	ND	NA*	NA*	NA*	NA*	NA*
Benzo(a)pyrene		1	1	1	1.1	0.086	ND	0.123	0.112	ND	1.37	NA*	ND	ND	NA*	ND	NA*	NA*	NA*	NA*	NA*
Benzo(b)fluoranthene		1	1	5.6	11	0.134	ND	0.153	0.127	ND	1.59	NA*	ND	ND	NA*	ND	NA*	NA*	NA*	NA*	NA*
Benzo(g,h,i)perylene		100	100	500	1000	ND	ND	0.127	0.0907	ND	1.02	NA*	ND	ND	NA*	ND	NA*	NA*	NA*	NA*	NA*
Benzo(k)fluoranthene		0.8	3.9	56	110	ND	ND	0.0998	0.0648 J	ND	0.727	NA*	ND	ND	NA*	ND	NA*	NA*	NA*	NA*	NA*
Biphenyl (Diphenyl)						ND	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	ND	NA*	NA*	NA*	NA*	NA*
Butylbenzylphthalate						ND	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	ND	NA*	NA*	NA*	NA*	NA*
Caprolactam						ND	ND	ND	ND	ND	0.111	NA*	ND	ND	NA*	ND	NA*	NA*	NA*	NA*	NA*
Carbazole						ND	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	ND	NA*	NA*	NA*	NA*	NA*
Chrysene		1	3.9	56	110	0.111	ND	0.152	0.134	ND	1.61	NA*	ND	ND	NA*	ND	NA*	NA*	NA*	NA*	NA*
Di-n-butylphthalate						ND	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	ND	NA*	NA*	NA*	NA*	NA*
Di-n-octylphthalate						ND	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	ND	NA*	NA*	NA*	NA*	NA*
Dibenz(a,h)anthracene		0.33	0.33	0.56	1.1	ND	ND	ND	ND	ND	0.305	NA*	ND	ND	NA*	ND	NA*	NA*	NA*	NA*	NA*
Dibenzofuran		7	59	350	1000	ND	ND	ND	ND	ND	0.109	NA*	ND	ND	NA*	ND	NA*	NA*	NA*	NA*	NA*
Diethylphthalate						ND	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	ND	NA*	NA*	NA*	NA*	NA*
Dimethylphthalate						ND	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	ND	NA*	NA*	NA*	NA*	NA*
Fluoranthene		100	100	500	1000	0.206	ND	0.203	0.218	0.103	2.28	NA*	ND	ND	NA*	ND	NA*	NA*	NA*	NA*	NA*
Fluorene		30	100	500	1000	ND	ND	0.134	ND	ND	0.23	NA*	ND	ND	NA*	ND	NA*	NA*	NA*	NA*	NA*
Hexachloro-1,3-butadiene						ND	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	ND	NA*	NA*	NA*	NA*	NA*
Hexachlorobenzene		0.33	1.2	6	12	ND	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	ND	NA*	NA*	NA*	NA*	NA*
Hexachlorocyclopentadiene						ND	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	ND	NA*	NA*	NA*	NA*	NA*
Hexachloroethane						ND	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	ND	NA*	NA*	NA*	NA*	NA*
Indeno(1,2,3-cd)pyrene		0.5	0.5	5.6	11	ND	ND	0.104	ND	ND	0.841	NA*	ND	ND	NA*	ND	NA*	NA*	NA*	NA*	NA*
Isophorone						ND	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	ND	NA*	NA*	NA*	NA*	NA*
N-Nitroso-di-n-propylamine						ND	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	ND	NA*	NA*	NA*	NA*	NA*
N-Nitrosodiphenylamine						ND	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	ND	NA*	NA*	NA*	NA*	NA*
Naphthalene		12	100	500	1000	ND	ND	0.187	ND	ND	1.15	NA*	ND	ND	NA*	ND	NA*	NA*	NA*	NA*	NA*
Nitrobenzene						ND	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	ND	NA*	NA*	NA*	NA*	NA*
Pentachlorophenol		0.8	6.7	6.7	55	ND	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	ND	NA*	NA*	NA*	NA*	NA*
Phenanthrene		100	100	500	1000	0.146	ND	0.203	0.121	ND	2.08	NA*	ND	ND	NA*	ND	NA*	NA*	NA*	NA*	NA*
Phenol		0.33	100	500	1000	ND	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	ND	NA*	NA*	NA*	NA*	NA*
Pyrene		100	100	500	1000	0.159	ND	0.117	0.212	ND	2.27	NA*	ND	ND	NA*	ND	NA*	NA*	NA*	NA*	NA*
bis(2-Chloroethoxy)methane						ND	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	ND	NA*	NA*	NA*	NA*	NA*
bis(2-Chloroethyl) ether						ND	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	ND	NA*	NA*	NA*	NA*	NA*
bis(2-Ethylhexyl)phthalate						ND	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	ND	NA*	NA*	NA*	NA*	NA*
TPH																					
Total Petroleum Hydrocarbons						128	179	213	321	475	247	NA*	206	383	6870	315	NA*	NA*	NA*	NA*	NA*

Notes:

(1) Standards based on Chromium, hexavalent.
(2) Standards based on Xylene (mixed).
(3) Groundwater standards only provided for those metals for which SPLP analyses were completed.
(4) All results in ppm
(5) 'ND' = Not Detected
(6) 'NA*' = Not Analyzed
(7) Results exceeding Groundwater A Standard's are RED
(8) Results exceeding unrestricted use SCOs are ORANGE
(9) Results exceeding residential SCOs are RED
(10) Results exceeding commercial SCOs are BLUE
(11) Results exceeeding industrial SCOs are GREEN

TABLE 13. Soil Analytical Results

					Sample ID	SB 14 CO	SB 15 B02	SB 15 CO	SB 18 CO	SB 19 BO2	SB 19 CO	SB 20 A0	SB 20 C0	SB 20B02
					Depth	25'-30'	2"-2'	25'-30'	25'-30'	2"-2'	25'-30'	0-2"	25'-30'	2"-2'
					Sample Date	7/31/2017	7/31/2017	7/31/2017	7/31/2017	7/31/2017	7/31/2017	7/31/2017	7/31/2017	7/31/2017
Contaminants	Part 703 Groundwater A Standard **(3)**	6 NYCRR-375.6.8(b) Unrestricted Use	6 NYCRR-375.6.8(b) Residential	6 NYCRR-375.6.8(b) Commercial	6 NYCRR-375.6.8(b) Industrial									
Metals														
Aluminum						5660	NA*	7130	6920	NA*	NA*	NA*	NA*	NA*
Antimony						ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*
Arsenic		13	16	16	16	3.4	NA*	4.2	3.3	NA*	NA*	NA*	NA*	NA*
Barium		350	400	400	10000	19.7	NA*	37.4	35	NA*	NA*	NA*	NA*	NA*
Beryllium		7.2	72	590	2700	0.11 J	NA*	0.13 J	0.10 J	NA*	NA*	NA*	NA*	NA*
Cadmium		2.5	4.3	9.3	60	0.037 J	NA*	0.11 J	0.071 J	NA*	NA*	NA*	NA*	NA*
Calcium						1180	NA*	4540	2020	NA*	NA*	NA*	NA*	NA*
Chromium **(1)**		1	110	140	800	2.4	NA*	4.3	3.7	NA*	NA*	NA*	NA*	NA*
Cobalt						5	NA*	7.2	6.1	NA*	NA*	NA*	NA*	NA*
Copper		50	270	270	10000	8.5	NA*	9.8	11.7	NA*	NA*	NA*	NA*	NA*
Iron						13900	NA*	17900	19300	NA*	NA*	NA*	NA*	NA*
Lead		63	400	1000	3900	4.8	NA*	5.9	15.8	NA*	NA*	NA*	NA*	NA*
Magnesium						3060	NA*	4320	3580	NA*	NA*	NA*	NA*	NA*
Manganese		1600	2000	10000	10000	137	NA*	178	204	NA*	NA*	NA*	NA*	NA*
Nickel		30	310	310	10000	11.1	NA*	15.1	13.9	NA*	NA*	NA*	NA*	NA*
Potassium						696	NA*	922	848	NA*	NA*	NA*	NA*	NA*
Selenium		3.9	180	1500	6800	ND	NA*	0.44 J	0.58 J	NA*	NA*	NA*	NA*	NA*
Silver		2	180	1500	6800	0.95	NA*	1.2	1.4	NA*	NA*	NA*	NA*	NA*
Sodium						ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*
Thallium						ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*
Vanadium						8.6	NA*	14.8	12.1	NA*	NA*	NA*	NA*	NA*
Zinc		109	10000	10000	10000	35.4	NA*	46.7	48.2	NA*	NA*	NA*	NA*	NA*
Mercury		0.18	0.81	2.8	5.7	0.017 J	NA*	ND	0.021 J	NA*	NA*	NA*	NA*	NA*
Metals, SPLP														
Arsenic	0.025					ND	ND	ND	ND	ND	ND	ND	ND	ND
Barium	1					0.038 J	0.075 J	0.046 J	0.054 J	0.077 J	0.038 J	0.025 J	0.0074 J	0.016 J
Cadmium	0.005					ND	0.00018 J	ND	ND	0.000063 J	ND	0.00012 J	ND	ND
Chromium	0.05					0.0051 J	0.01	0.0021 J	0.0034 J	0.0069 J	0.0029 J	0.0062 J	0.0021 J	0.0038 J
Lead	0.025					0.0030 J	0.057	0.0020 J	0.0032 J	0.041	0.01	0.083	0.0075	0.058
Selenium	0.01					ND	ND	ND	ND	ND	ND	ND	ND	ND
Silver	0.05					ND	ND	ND	ND	ND	ND	ND	ND	ND
Mercury	0.0007					ND	0.00029	ND	ND	0.00043	ND	0.00095	ND	0.0024
Pesticides														
4,4'-DDD		0.0033	13	92	180	NA*	ND	ND	NA*	ND	ND	ND	ND	ND
4,4'-DDE		0.0033	8.9	62	120	NA*	ND	ND	NA*	ND	ND	ND	ND	ND
4,4'-DDT		0.0033	7.9	47	94	NA*	ND	ND	NA*	0.0084	ND	ND	ND	ND
Aldrin		0.005	0.097	0.68	1.4	NA*	ND	ND	NA*	ND	ND	ND	ND	ND
Dieldrin		0.005	0.2	1.4	2.8	NA*	ND	ND	NA*	ND	ND	ND	ND	ND
Endosulfan I		2.4	24	200	920	NA*	ND	ND	NA*	ND	ND	ND	ND	ND
Endosulfan II		2.4	24	200	920	NA*	ND	ND	NA*	ND	ND	ND	ND	0.0068
Endosulfan sulfate		2.4	24	200	920	NA*	ND	ND	NA*	ND	ND	ND	ND	0.0107
Endrin		0.014	11	89	410	NA*	ND	ND	NA*	ND	ND	ND	ND	ND
Endrin aldehyde						NA*	ND	ND	NA*	ND	ND	ND	ND	ND
Endrin ketone						NA*	ND	ND	NA*	ND	ND	ND	ND	0.0246
Heptachlor		0.042	2.1	15	29	NA*	ND	ND	NA*	ND	ND	ND	ND	ND
Heptachlor epoxide						NA*	ND	ND	NA*	ND	ND	ND	ND	ND
Methoxychlor						NA*	ND	ND	NA*	ND	ND	ND	ND	ND

TABLE 13. Soil Analytical Results

					Sample ID	SB 14 CO	SB 15 B02	SB 15 CO	SB 18 CO	SB 19 BO2	SB 19 CO	SB 20 A0	SB 20 C0	SB 20B02
					Depth	25'-30'	2"-2'	25'-30'	25'-30'	2"-2'	25'-30'	0-2"	25'-30'	2"-2'
					Sample Date	7/31/2017	7/31/2017	7/31/2017	7/31/2017	7/31/2017	7/31/2017	7/31/2017	7/31/2017	7/31/2017
Contaminants	Part 703 Groundwater A Standard **(3)**	6 NYCRR-375.6.8(b) Unrestricted Use	6 NYCRR-375.6.8(b) Residential	6 NYCRR-375.6.8(b) Commercial	6 NYCRR-375.6.8(b) Industrial									
Toxaphene						NA*	ND	ND	NA*	ND	ND	ND	ND	ND
alpha-BHC		0.02	0.48	3.4	6.8	NA*	ND	ND	NA*	ND	ND	ND	ND	0.0069
alpha-Chlordane		0.094	4.2	24	47	NA*	ND	ND	NA*	ND	ND	ND	ND	ND
beta-BHC		0.036	0.36	3	14	NA*	ND	ND	NA*	ND	ND	ND	ND	0.008
delta-BHC		0.04	100	500	1000	NA*	ND	ND	NA*	ND	ND	ND	ND	ND
gamma-BHC (Lindane)		0.1	1.3	9.2	23	NA*	ND	ND	NA*	ND	ND	ND	ND	ND
gamma-Chlordane						NA*	ND	ND	NA*	ND	ND	ND	ND	ND
PCBs														
PCB-1016 (Aroclor 1016)		0.1	1	1	25	NA*	ND	ND	NA*	ND	ND	ND	ND	ND
PCB-1221 (Aroclor 1221)		0.1	1	1	25	NA*	ND	ND	NA*	ND	ND	ND	ND	ND
PCB-1232 (Aroclor 1232)		0.1	1	1	25	NA*	ND	ND	NA*	ND	ND	ND	ND	ND
PCB-1242 (Aroclor 1242)		0.1	1	1	25	NA*	ND	ND	NA*	ND	ND	ND	ND	ND
PCB-1248 (Aroclor 1248)		0.1	1	1	25	NA*	ND	ND	NA*	ND	ND	ND	ND	ND
PCB-1254 (Aroclor 1254)		0.1	1	1	25	NA*	ND	ND	NA*	ND	ND	ND	ND	ND
PCB-1260 (Aroclor 1260)		0.1	1	1	25	NA*	ND	ND	NA*	ND	ND	ND	ND	ND
VOCs														
1,1,1-Trichloroethane		0.68	100	500	1000	NA*	ND	ND	NA*	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane						NA*	ND	ND	NA*	ND	ND	ND	ND	ND
1,1,2-Trichloroethane						NA*	ND	ND	NA*	ND	ND	ND	ND	ND
1,1,2-Trichlorotrifluoroethane						NA*	ND	ND	NA*	ND	ND	ND	ND	ND
1,1-Dichloroethane		0.27	26	240	480	NA*	ND	ND	NA*	ND	ND	ND	ND	ND
1,1-Dichloroethene		0.33	100	500	1000	NA*	ND	ND	NA*	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene						NA*	ND	ND	NA*	ND	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane						NA*	ND	ND	NA*	ND	ND	ND	ND	ND
1,2-Dibromoethane (EDB)						NA*	ND	ND	NA*	ND	ND	ND	ND	ND
1,2-Dichlorobenzene		1.1	100	500	1000	NA*	ND	ND	NA*	ND	ND	ND	ND	ND
1,2-Dichloroethane		0.02	3.1	30	60	NA*	ND	ND	NA*	ND	ND	ND	ND	ND
1,2-Dichloropropane						NA*	ND	ND	NA*	ND	ND	ND	ND	ND
1,3-Dichlorobenzene		2.4	49	280	560	NA*	ND	ND	NA*	ND	ND	ND	ND	ND
1,4-Dichlorobenzene		1.8	13	130	250	NA*	ND	ND	NA*	ND	ND	ND	ND	ND
2-Butanone (MEK)		0.12	100	500	1000	NA*	ND	ND	NA*	ND	ND	ND	0.0111	ND
2-Hexanone						NA*	ND	ND	NA*	ND	ND	ND	ND	ND
4-Methyl-2-pentanone (MIBK)						NA*	ND	ND	NA*	ND	ND	ND	ND	ND
Acetone		0.05	100	500	1000	NA*	ND	ND	NA*	ND	0.0217	ND	ND	0.0112
Benzene		0.06	4.8	44	89	NA*	ND	ND	NA*	ND	ND	ND	ND	ND
Bromodichloromethane						NA*	ND	ND	NA*	ND	ND	ND	ND	ND
Bromoform						NA*	ND	ND	NA*	ND	ND	ND	ND	ND
Bromomethane						NA*	ND	ND	NA*	ND	ND	ND	ND	ND
Carbon disulfide						NA*	ND	0.0076	NA*	ND	ND	ND	0.0111	ND
Carbon tetrachloride		0.76	2.4	22	44	NA*	ND	ND	NA*	ND	ND	ND	ND	ND
Chlorobenzene		1.1	100	500	1000	NA*	ND	ND	NA*	ND	ND	ND	ND	ND
Chloroethane						NA*	ND	ND	NA*	ND	ND	ND	ND	ND
Chloroform		0.37	49	350	700	NA*	ND	ND	NA*	ND	ND	ND	ND	ND
Chloromethane						NA*	ND	ND	NA*	ND	ND	ND	ND	ND
Cyclohexane						NA*	ND	ND	NA*	ND	ND	ND	ND	ND
Dibromochloromethane						NA*	ND	ND	NA*	ND	ND	ND	ND	ND
Dichlorodifluoromethane						NA*	ND	ND	NA*	ND	ND	ND	ND	ND
Ethylbenzene		1	41	390	780	NA*	ND	ND	NA*	ND	ND	ND	ND	ND

TABLE 13. Soil Analytical Results

					Sample ID	SB 14 CO	SB 15 B02	SB 15 CO	SB 18 CO	SB 19 BO2	SB 19 CO	SB 20 A0	SB 20 C0	SB 20B02
					Depth	25'-30'	2"-2'	25'-30'	25'-30'	2"-2'	25'-30'	0-2"	25'-30'	2"-2'
					Sample Date	7/31/2017	7/31/2017	7/31/2017	7/31/2017	7/31/2017	7/31/2017	7/31/2017	7/31/2017	7/31/2017
Contaminants	Part 703 Groundwater A Standard **(3)**	6 NYCRR-375.6.8(b) Unrestricted Use	6 NYCRR-375.6.8(b) Residential	6 NYCRR-375.6.8(b) Commercial	6 NYCRR-375.6.8(b) Industrial									
Isopropylbenzene (Cumene)						NA*	ND	ND	NA*	ND	ND	ND	ND	ND
Methyl acetate						NA*	ND	ND	NA*	ND	ND	ND	ND	ND
Methyl-tert-butyl ether		0.12	100	500	1000	NA*	ND	ND	NA*	ND	ND	ND	ND	ND
Methylcyclohexane						NA*	ND	0.0105	NA*	ND	ND	ND	ND	ND
Methylene Chloride		0.05	100	500	1000	NA*	ND	ND	NA*	ND	ND	ND	ND	ND
Styrene						NA*	ND	ND	NA*	ND	ND	ND	ND	ND
Tetrachloroethene		1.3	19	150	300	NA*	ND	ND	NA*	ND	ND	ND	ND	ND
Toluene		0.7	100	500	1000	NA*	ND	ND	NA*	ND	ND	ND	ND	ND
Trichloroethene		0.47	21	200	400	NA*	ND	ND	NA*	ND	ND	ND	ND	ND
Trichlorofluoromethane						NA*	ND	ND	NA*	ND	ND	ND	ND	ND
Vinyl chloride		0.02	0.9	13	27	NA*	ND	ND	NA*	ND	ND	ND	ND	ND
Xylene (Total) **(2)**		0.26	100	500	1000	NA*	ND	ND	NA*	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene		0.25	100	500	1000	NA*	ND	ND	NA*	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene						NA*	ND	ND	NA*	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene		0.19	100	500	1000	NA*	ND	ND	NA*	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene						NA*	ND	ND	NA*	ND	ND	ND	ND	ND
SVOCs														
1,2,4-Trichlorobenzene						NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
2,2'-Oxybis(1-chloropropane)						NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
2,4,5-Trichlorophenol						NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
2,4,6-Trichlorophenol						NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
2,4-Dichlorophenol						NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
2,4-Dimethylphenol						NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
2,4-Dinitrophenol						NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
2,4-Dinitrotoluene						NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
2,6-Dinitrotoluene						NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
2-Chloronaphthalene						NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
2-Chlorophenol						NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
2-Methylnaphthalene						NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
2-Methylphenol(o-Cresol)		0.33	100	500	1000	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
2-Nitroaniline						NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
2-Nitrophenol						NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
3&4-Methylphenol(m&p Cresol)		0.33	100	500	1000	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
3,3'-Dichlorobenzidine						NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
3-Nitroaniline						NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
4,6-Dinitro-2-methylphenol						NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
4-Bromophenylphenyl ether						NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
4-Chloro-3-methylphenol						NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
4-Chloroaniline						NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
4-Chlorophenylphenyl ether						NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
4-Nitroaniline						NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
4-Nitrophenol						NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
Acenaphthene		20	100	500	1000	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
Acenaphthylene		100	100	500	1000	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
Acetophenone						NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
Anthracene		100	100	500	1000	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
Atrazine						NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
Benzaldehyde						NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*

TABLE 13. Soil Analytical Results

					Sample ID	SB 14 CO	SB 15 B02	SB 15 CO	SB 18 CO	SB 19 BO2	SB 19 CO	SB 20 A0	SB 20 C0	SB 20B02
					Depth	25'-30'	2"-2'	25'-30'	25'-30'	2"-2'	25'-30'	0-2"	25'-30'	2"-2'
					Sample Date	7/31/2017	7/31/2017	7/31/2017	7/31/2017	7/31/2017	7/31/2017	7/31/2017	7/31/2017	7/31/2017
Contaminants	Part 703 Groundwater A Standard **(3)**	6 NYCRR-375.6.8(b) Unrestricted Use	6 NYCRR-375.6.8(b) Residential	6 NYCRR-375.6.8(b) Commercial	6 NYCRR-375.6.8(b) Industrial									
Benzo(a)anthracene		1	1	5.6	11	NA*	0.106	ND	NA*	NA*	NA*	NA*	NA*	NA*
Benzo(a)pyrene		1	1	1	1.1	NA*	0.0957	ND	NA*	NA*	NA*	NA*	NA*	NA*
Benzo(b)fluoranthene		1	1	5.6	11	NA*	0.132	ND	NA*	NA*	NA*	NA*	NA*	NA*
Benzo(g,h,i)perylene		100	100	500	1000	NA*	0.131	ND	NA*	NA*	NA*	NA*	NA*	NA*
Benzo(k)fluoranthene		0.8	3.9	56	110	NA*	0.055 J	ND	NA*	NA*	NA*	NA*	NA*	NA*
Biphenyl (Diphenyl)						NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
Butylbenzylphthalate						NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
Caprolactam						NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
Carbazole						NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
Chrysene		1	3.9	56	110	NA*	0.133	ND	NA*	NA*	NA*	NA*	NA*	NA*
Di-n-butylphthalate						NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
Di-n-octylphthalate						NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
Dibenz(a,h)anthracene		0.33	0.33	0.56	1.1	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
Dibenzofuran		7	59	350	1000	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
Diethylphthalate						NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
Dimethylphthalate						NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
Fluoranthene		100	100	500	1000	NA*	0.246	ND	NA*	NA*	NA*	NA*	NA*	NA*
Fluorene		30	100	500	1000	NA*	0.0928	ND	NA*	NA*	NA*	NA*	NA*	NA*
Hexachloro-1,3-butadiene						NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
Hexachlorobenzene		0.33	1.2	6	12	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
Hexachlorocyclopentadiene						NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
Hexachloroethane						NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
Indeno(1,2,3-cd)pyrene		0.5	0.5	5.6	11	NA*	0.106	ND	NA*	NA*	NA*	NA*	NA*	NA*
Isophorone						NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
N-Nitroso-di-n-propylamine						NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
N-Nitrosodiphenylamine						NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
Naphthalene		12	100	500	1000	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
Nitrobenzene						NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
Pentachlorophenol		0.8	6.7	6.7	55	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
Phenanthrene		100	100	500	1000	NA*	0.257	ND	NA*	NA*	NA*	NA*	NA*	NA*
Phenol		0.33	100	500	1000	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
Pyrene		100	100	500	1000	NA*	0.31	ND	NA*	NA*	NA*	NA*	NA*	NA*
bis(2-Chloroethoxy)methane						NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
bis(2-Chloroethyl) ether						NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
bis(2-Ethylhexyl)phthalate						NA*	ND	0.547	NA*	NA*	NA*	NA*	NA*	NA*
TPH														
Total Petroleum Hydrocarbons						NA*	178	647	NA*	316	275	244	ND	815

Notes:

(1) Standards based on Chromium, hexavalent.
(2) Standards based on Xylene (mixed).
(3) Groundwater standards only provided for those metals for which SPLP analyses were completed.
(4) All results in ppm
(5) 'ND' = Not Detected
(6) 'NA*' = Not Analyzed

(7) Results exceeding Groundwater A Standard's are RED
(8) Results exceeding unrestricted use SCOs are ORANGE
(9) Results exceeding residential SCOs are RED
(10) Results exceeding commercial SCOs are BLUE
(11) Results exceeeding industrial SCOs are GREEN

TABLE 13. Soil Analytical Results

					Sample ID	BS-1A	BS-1B	BS-2A	BS-2B	BS-3A	BS-3B	BS-4A	BS-4B	BS-4B DUP
					Description	0-6"	6"-2'	0-6"	6"-2'	0-6"	6"-2'	0-6"	6"-2'	6"-2'
					Sample Date	8/3/2017	8/3/2017	8/3/2017	8/3/2017	8/3/2017	8/3/2017	8/3/2017	8/3/2017	8/3/2017
Contaminants	Part 703 Groundwater A Standard **(3)**	6 NYCRR-375.6.8(b) Unrestricted Use	6 NYCRR-375.6.8(b) Residential	6 NYCRR-375.6.8(b) Commercial	6 NYCRR-375.6.8(b) Industrial									
Metals														
Aluminum						7070	6580	9920	8260	9770	8610	10300	11200	10500
Antimony						5	0.23 J	3.2 J	ND	0.78 J	2.6 J	ND	ND	ND
Arsenic		13	16	16	16	12.3	15.9	18	22.6	10.8	11.8	10.5	14.1	11.6
Barium		350	400	400	10000	208	818	279	150	163	200	154	153	144
Beryllium		7.2	72	590	2700	0.47	0.55	0.43	0.45	0.38	0.34	0.44	0.72	0.42
Cadmium		2.5	4.3	9.3	60	0.8	1.1	2.2	0.84	1.3	1.2	1	1.1	0.98
Calcium						7130	11200	12400	11600	14000	23000	37800	8940	13900
Chromium **(1)**		1	110	140	800	11.8	12.6	15.9	11	21.9	24.8	9.6	10.8	9.5
Cobalt						6.5	8.1	9.8	8.4	9.3	9.1	30.2	22.1	20
Copper		50	270	270	10000	166	139	101	57.7	73.7	382	47.3	63.3	55.6
Iron						14000	15000	41000	19800	31100	29700	33500	36200	34600
Lead		63	400	1000	3900	802	989	982	2300	514	24800	306	348	311
Magnesium						1260	1530	4500	3300	5080	3610	5020	4770	4540
Manganese		1600	2000	10000	10000	255	276	596	645	535	575	842	698	644
Nickel		30	310	310	10000	18.1	17.7	25.1	19.3	23.7	21.8	45.4	40.6	27.9
Potassium						1400	1360	1990	1830	2180	7010	1390	1360	1260
Selenium		3.9	180	1500	6800	1.7	3	2.3	2.4	1.4	1.3	0.47 J	0.85	0.76
Silver		2	180	1500	6800	2.2	2.1	4.4	3.8	3.2	4.3	2.9	3.3	3.1
Sodium						ND	ND	ND	ND	ND	192 J	ND	ND	ND
Thallium						ND	ND	0.24 J	0.62	ND	ND	0.30 J	0.31 J	0.23 J
Vanadium						31.2	29.3	24.5	23.3	23.1	25.6	16.5	18.9	17.3
Zinc		109	10000	10000	10000	327	442	635	314	352	427	248	250	216
Mercury		0.18	0.81	2.8	5.7	1.9	1.4	ND	2.8	1.5	1.7	1.8	1.5	1.3
Metals, SPLP														
Arsenic	0.025					0.0073 J	ND	ND	ND	ND	ND	ND	ND	ND
Barium	1					0.075 J	0.068 J	0.072 J	0.092 J	0.13 J	0.13 J	0.085 J	0.087 J	0.098 J
Cadmium	0.005					ND	0.00011 J	0.000080 J	ND	ND	0.000060 J	ND	0.000066 J	ND
Chromium	0.05					0.0036 J	0.0075 J	0.0035 J	0.0053 J	0.0088 J	0.0098 J	0.0034 J	0.0045 J	0.0064 J
Lead	0.025					0.14	0.044	0.047	0.11	0.079	0.11	0.038	0.024	0.035
Selenium	0.01					ND	ND	ND	ND	ND	ND	ND	ND	ND
Silver	0.05					ND	ND	ND	ND	ND	ND	ND	ND	ND
Mercury	0.0007					0.00024	ND	0.00044	0.00023	ND	0.00044	ND	ND	0.00024
Pesticides														
4,4'-DDD		0.0033	13	92	180	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDE		0.0033	8.9	62	120	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDT		0.0033	7.9	47	94	ND	ND	ND	ND	ND	ND	ND	ND	0.011
Aldrin		0.005	0.097	0.68	1.4	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dieldrin		0.005	0.2	1.4	2.8	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan I		2.4	24	200	920	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan II		2.4	24	200	920	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan sulfate		2.4	24	200	920	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endrin		0.014	11	89	410	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endrin aldehyde						0.0086	ND	ND	ND	ND	ND	ND	ND	ND
Endrin ketone						ND	ND	0.008	0.0078	ND	0.0061	ND	ND	0.0113
Heptachlor		0.042	2.1	15	29	ND	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor epoxide						ND	ND	ND	ND	ND	ND	ND	ND	ND
Methoxychlor						ND	ND	ND	ND	ND	ND	ND	ND	ND
Toxaphene						ND	ND	ND	ND	ND	ND	ND	ND	ND
alpha-BHC		0.02	0.48	3.4	6.8	ND	ND	ND	ND	ND	ND	ND	ND	ND
alpha-Chlordane		0.094	4.2	24	47	ND	ND	ND	ND	ND	ND	ND	ND	ND
beta-BHC		0.036	0.36	3	14	ND	ND	ND	ND	ND	ND	ND	ND	ND
delta-BHC		0.04	100	500	1000	ND	ND	ND	ND	ND	ND	ND	ND	ND
gamma-BHC (Lindane)		0.1	1.3	9.2	23	ND	ND	ND	ND	ND	ND	ND	ND	ND
gamma-Chlordane						ND	ND	ND	ND	ND	ND	ND	ND	ND

TABLE 13. Soil Analytical Results

					Sample ID	BS-1A	BS-1B	BS-2A	BS-2B	BS-3A	BS-3B	BS-4A	BS-4B	BS-4B DUP
					Description	0-6"	6"-2'	0-6"	6"-2'	0-6"	6"-2'	0-6"	6"-2'	6"-2'
					Sample Date	8/3/2017	8/3/2017	8/3/2017	8/3/2017	8/3/2017	8/3/2017	8/3/2017	8/3/2017	8/3/2017
Contaminants	Part 703 Groundwater A Standard **(3)**	6 NYCRR-375.6.8(b) Unrestricted Use	6 NYCRR-375.6.8(b) Residential	6 NYCRR-375.6.8(b) Commercial	6 NYCRR-375.6.8(b) Industrial									
PCBs														
PCB-1016 (Aroclor 1016)		0.1	1	1	25	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1221 (Aroclor 1221)		0.1	1	1	25	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1232 (Aroclor 1232)		0.1	1	1	25	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1242 (Aroclor 1242)		0.1	1	1	25	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1248 (Aroclor 1248)		0.1	1	1	25	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1254 (Aroclor 1254)		0.1	1	1	25	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1260 (Aroclor 1260)		0.1	1	1	25	ND	ND	ND	ND	ND	ND	ND	ND	ND
VOCs														
1,1,1-Trichloroethane		0.68	100	500	1000	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane						ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane						ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichlorotrifluoroethane						ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane		0.27	26	240	480	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene		0.33	100	500	1000	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene						ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane						ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dibromoethane (EDB)						ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene		1.1	100	500	1000	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane		0.02	3.1	30	60	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane						ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene		2.4	49	280	560	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene		1.8	13	130	250	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone (MEK)		0.12	100	500	1000	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Hexanone						ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-pentanone (MIBK)						ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetone		0.05	100	500	1000	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene		0.06	4.8	44	89	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane						ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform						ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane						ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon disulfide						ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride		0.76	2.4	22	44	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene		1.1	100	500	1000	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane						ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform		0.37	49	350	700	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloromethane						ND	ND	ND	ND	ND	ND	ND	ND	ND
Cyclohexane						ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane						ND	ND	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane						ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene		1	41	390	780	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene (Cumene)						ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl acetate						ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl-tert-butyl ether		0.12	100	500	1000	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylcyclohexane						ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride		0.05	100	500	1000	0.0031 J	0.003 J	0.0022 J	ND	0.0026 J	0.0021 J	0.0018 J	ND	0.0014 J
Styrene						ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene		1.3	19	150	300	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene		0.7	100	500	1000	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene		0.47	21	200	400	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane						ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride		0.02	0.9	13	27	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylene (Total)**(2)**		0.26	100	500	1000	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene		0.25	100	500	1000	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene						ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene		0.19	100	500	1000	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene						ND	ND	ND	ND	ND	ND	ND	ND	ND

TABLE 13. Soil Analytical Results

					Sample ID	BS-1A	BS-1B	BS-2A	BS-2B	BS-3A	BS-3B	BS-4A	BS-4B	BS-4B DUP
					Description	0-6"	6"-2'	0-6"	6"-2'	0-6"	6"-2'	0-6"	6"-2'	6"-2'
					Sample Date	8/3/2017	8/3/2017	8/3/2017	8/3/2017	8/3/2017	8/3/2017	8/3/2017	8/3/2017	8/3/2017
Contaminants	Part 703 Groundwater A Standard **(3)**	6 NYCRR-375.6.8(b) Unrestricted Use	6 NYCRR-375.6.8(b) Residential	6 NYCRR-375.6.8(b) Commercial	6 NYCRR-375.6.8(b) Industrial									
SVOCs														
1,2,4-Trichlorobenzene						ND	ND	ND	ND	ND	ND	ND	ND	ND
2,2'-Oxybis(1-chloropropane)						ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4,5-Trichlorophenol						ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4,6-Trichlorophenol						ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dichlorophenol						ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dimethylphenol						ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrophenol						ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrotoluene						ND	ND	ND	ND	ND	ND	ND	ND	ND
2,6-Dinitrotoluene						ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloronaphthalene						ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chlorophenol						ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Methylnaphthalene						0.0856	ND	0.0855	0.204	ND	0.0835	ND	ND	ND
2-Methylphenol(o-Cresol)		0.33	100	500	1000	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Nitroaniline						ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Nitrophenol						ND	ND	ND	ND	ND	ND	ND	ND	ND
3&4-Methylphenol(m&p Cresol)		0.33	100	500	1000	ND	ND	ND	ND	ND	ND	ND	ND	ND
3,3'-Dichlorobenzidine						ND	ND	ND	ND	ND	ND	ND	ND	ND
3-Nitroaniline						ND	ND	ND	ND	ND	ND	ND	ND	ND
4,6-Dinitro-2-methylphenol						ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Bromophenylphenyl ether						ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Chloro-3-methylphenol						ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Chloroaniline						ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Chlorophenylphenyl ether						ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Nitroaniline						ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Nitrophenol						ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthene		20	100	500	1000	0.206	ND	0.182	0.618	ND	ND	ND	ND	ND
Acenaphthylene		100	100	500	1000	0.492	0.117	0.0788	0.568	ND	0.107	ND	ND	ND
Acetophenone						ND	ND	ND	ND	ND	ND	ND	ND	ND
Anthracene		100	100	500	1000	2.62	0.301	0.469	2.46	ND	0.132	ND	ND	ND
Atrazine						ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzaldehyde						0.135	0.144	0.119	0.135	ND	ND	ND	ND	ND
Benzo(a)anthracene		1	1	5.6	11	5.95	1.11	2.1	7.41	0.215	0.778	0.183	0.274	0.249
Benzo(a)pyrene		1	1	1	1.1	5.36	1.18	1.91	5.43	0.228	0.771	0.201	0.27	0.285
Benzo(b)fluoranthene		1	1	5.6	11	11.1	1.95	3.33	6.64	0.313	1.21	0.333	0.417	0.404
Benzo(g,h,i)perylene		100	100	500	1000	1.97	0.447	0.631	1.83	0.175	0.307	0.117	0.146	0.16
Benzo(k)fluoranthene		0.8	3.9	56	110	3.67	0.879	1.14	3.08	0.133	0.578	0.118	0.21	0.239
Biphenyl (Diphenyl)						ND	ND	ND	ND	ND	ND	ND	ND	ND
Butylbenzylphthalate						ND	ND	ND	ND	ND	ND	ND	ND	ND
Caprolactam						ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbazole						0.681	0.109	0.145	0.392	ND	ND	ND	ND	ND
Chrysene		1	3.9	56	110	6.04	1.24	2.09	7.25	0.245	0.844	0.201	0.307	0.298
Di-n-butylphthalate						ND	ND	ND	ND	ND	ND	ND	ND	ND
Di-n-octylphthalate						ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibenz(a,h)anthracene		0.33	0.33	0.56	1.1	0.674	0.161	0.222	0.631	ND	0.0989	ND	ND	ND
Dibenzofuran		7	59	350	1000	0.447	ND	0.112	0.381	ND	ND	ND	ND	ND
Diethylphthalate						ND	ND	ND	ND	ND	ND	ND	ND	ND
Dimethylphthalate						ND	ND	ND	ND	0.219	ND	ND	ND	ND
Fluoranthene		100	100	500	1000	22.2	2.06	3.38	14.1	0.394	1.04	0.285	0.452	0.442
Fluorene		30	100	500	1000	0.98	0.0805	0.146	0.678	ND	ND	ND	ND	ND
Hexachloro-1,3-butadiene						ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobenzene		0.33	1.2	6	12	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene						ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachloroethane						ND	ND	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene		0.5	0.5	5.6	11	2.34	0.497	0.699	2.02	0.152	0.307	0.0905	0.135	0.153
Isophorone						ND	ND	ND	ND	ND	ND	ND	ND	ND
N-Nitroso-di-n-propylamine						ND	ND	ND	ND	ND	ND	ND	ND	ND
N-Nitrosodiphenylamine						ND	ND	ND	ND	ND	ND	ND	ND	ND

TABLE 13. Soil Analytical Results

					Sample ID	BS-1A	BS-1B	BS-2A	BS-2B	BS-3A	BS-3B	BS-4A	BS-4B	BS-4B DUP
					Description	0-6"	6"-2'	0-6"	6"-2'	0-6"	6"-2'	0-6"	6"-2'	6"-2'
					Sample Date	8/3/2017	8/3/2017	8/3/2017	8/3/2017	8/3/2017	8/3/2017	8/3/2017	8/3/2017	8/3/2017
Contaminants	Part 703 Groundwater A Standard **(3)**	6 NYCRR-375.6.8(b) Unrestricted Use	6 NYCRR-375.6.8(b) Residential	6 NYCRR-375.6.8(b) Commercial	6 NYCRR-375.6.8(b) Industrial									
Naphthalene		12	100	500	1000	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nitrobenzene						ND	ND	ND	ND	ND	ND	ND	ND	ND
Pentachlorophenol		0.8	6.7	6.7	55	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene		100	100	500	1000	19.2	1.19	2.02	9.01	0.181	0.543	0.182	0.354	0.282
Phenol		0.33	100	500	1000	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pyrene		100	100	500	1000	18	2.73	4.75	13.5	0.391	1.57	0.46	0.706	0.49
bis(2-Chloroethoxy)methane						ND	ND	ND	ND	ND	ND	ND	ND	ND
bis(2-Chloroethyl) ether						ND	ND	ND	ND	ND	ND	ND	ND	ND
bis(2-Ethylhexyl)phthalate						0.106	ND	ND	0.106	ND	ND	ND	ND	ND
TPH														
Total Petroleum Hydrocarbon						167	211	189	ND	219	143	151	421	228

Notes:

(1) Standards based on Chromium, hexavalent.
(2) Standards based on Xylene (mixed).
(3) Groundwater standards only provided for those metals for which SPLP analyses were completed.
(4) All results in ppm
(5) 'ND' = Not Detected
(6) 'NA*' = Not Analyzed
(7) Results exceeding Groundwater A Standard's areRED
(8) Results exceeding unrestricted use SCOs areORANGE
(9) Results exceeding residential SCOs areRED
(10) Results exceeding commercial SCOs areBLUE
(11) Results exceeeding industrial SCOs areGREEN

TABLE 13. Soil Analytical Results

	Sample ID						BS-5A	BS-5B	BS-6A	BS-6B	BS-7A	BS-7B	BS-8A	BS-8B	BS-9A	BS-9B	SB15A	SB19AO	SB23AO	SB24AO	SB33AO	SB7AO	SE-10	SE-6	SE-7	SE-8	SE-9 DUP	SE-9
	Depth						0-6"	6"-2'	0-6"	6"-2'	0-6"	6"-2'	0-6"	6"-2'	0-6"	6"-2'	0-2"	0-2"	0-2"	0-2"	0-2"	0-2"	0-6"	0-6"	0-6"	0-6"	0-6"	0-6"
	Sample Date						8/8/2017	8/8/2017	8/8/2017	8/8/2017	8/8/2017	8/8/2017	8/8/2017	8/8/2017	8/8/2017	8/8/2017	8/8/2017	8/8/2017	8/8/2017	8/8/2017	8/8/2017	8/8/2017	8/8/2017	8/8/2017	8/8/2017	8/8/2017	8/8/2017	8/8/2017
Contaminants	Part 703 Groundwater A Standard **(3)**	Class C SGV **(10)**	6 NYCRR-375.6.8(b) Unrestricted Use	6 NYCRR-375.6.8(b) Residential	6 NYCRR-375.6.8(b) Commercial	6 NYCRR-375.6.8(b) Industrial																						
Metals																												
Aluminum							8510	8500	9230	11000	8560	9160	9280	8210	11200	13100	8410	NA*	17400	NA*	12300	9210	6610	9520	6690	7180	6120	7490
Antimony							ND	ND	ND	0.84 J	ND	ND	ND	ND	ND	ND	3.4 J	NA*	0.53 J	NA*	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic		33	13	16	16	16	9.2	9.3	9.1	14.6	7	7.1	7.5	6.8	12.3	10.7	14.7	NA*	9.3	NA*	11.4	7.8	4.7	7.7	5.8	5	4.6	5.7
Barium			350	400	400	10000	178	139	190	290	78.3	85.2	107	97.3	143	168	297	NA*	189	NA*	116	98.1	46.6	87	72	57.6	50.5	60.6
Beryllium		7.2	72	590	2700		0.43	0.35	1.1	1.2	0.36	0.41	0.41	0.34	1	0.67	0.98	NA*	1.1	NA*	1.7	0.36	0.26 J	0.44	0.30 J	0.28 J	0.23 J	0.30 J
Cadmium	5	2.5	4.3	9.3	60		1.5	1.2	1.1	1.5	0.95	1.5	0.95	0.68	1.6	2.2	1.6	NA*	0.89	NA*	0.35	0.57	0.45	0.66	0.61	0.49	0.43	0.54
Calcium							24000	10700	8570	9590	19900	19700	17700	9150	27700	45200	9850	NA*	66900	NA*	55600	11300	16500	22200	15900	23100	18800	20200
Chromium **(1)**	110	1	110	140	800		18.8	16.5	28.8	36.2	15.5	13.3	24.6	18.6	16.9	8.9	40.3	NA*	5.2	NA*	4.3	7.8	9.6	12	13	10.3	8.4	10.2
Cobalt							8.5	7.8	16.7	16.3	8.7	10.7	9.5	7	8.5	6.6	24.6	NA*	5.4	NA*	2.9 J	9	7.1	9.6	7.2	7.6	6.3	7.8
Copper	150	50	270	270	10000		71.9	79.2	143	180	32.7	51.8	38	39.4	60.6	58.6	393	NA*	26.5	NA*	14.7	37.7	20.2	35.2	42.9	22.8	20.2	24.8
Iron							20700	21200	21400	28200	18100	19200	19200	16600	38100	17300	44400	NA*	18100	NA*	7390	19700	14700	20400	14900	15800	13900	16700
Lead	130	63	400	1000	3900		284	318	436	813	37	71	69.7	107	242	308	722	NA*	112	NA*	34.9	76.5	16.7	43.3	142	20.2	15	22.8
Magnesium							5510	4930	3410	4000	6050	5540	6050	3690	6070	5740	3140	NA*	6970	NA*	11200	5140	7090	6670	5300	7390	5930	7460
Manganese		1600	2000	10000	10000		551	564	455	560	531	549	673	496	780	1130	505	NA*	2150	NA*	803	463	331	685	350	395	350	411
Nickel	49	30	310	310	10000		21.8	21.4	61.4	57.5	20.1	35.4	21.9	18.1	30.1	13.6	125	NA*	10.7	NA*	7.5	23.4	15.4	21.7	16.4	16.7	13.8	17.2
Potassium							1830	1380	1650	1980	1590	1670	1750	1340	1800	2050	1580	NA*	2320	NA*	1130	1460	1030	1550	1150	1160	1010	1200
Selenium		3.9	180	1500	6800		1.9	1.2	1.7	1.7	0.53 J	0.95	0.72	0.69	1.5	0.52 J	1.5	NA*	0.89	NA*	ND	0.45 J	ND	ND	ND	ND	ND	ND
Silver	2.2	2	180	1500	6800		2.1	2.1	2.2	2.9	1.5	1.6	1.7	1.5	2.3	1.6	3.7	NA*	1.4	NA*	ND	1.9	1.3	1.8	1.3	1.4	1.2	1.4
Sodium							ND	ND	ND	ND	ND	ND	ND	ND	314 J	1630	ND	NA*	1740	NA*	1030	ND	ND	ND	ND	ND	ND	ND
Thallium							0.56 J	0.65	0.52 J	0.60 J	0.57 J	0.50 J	0.87	0.67	0.46 J	0.55 J	0.49 J	NA*	0.81	NA*	ND	0.31 J	ND	0.89	0.32 J	ND	0.44 J	0.44 J
Vanadium							18.8	18.3	19.5	28.6	17.3	17.6	19.2	17.6	25	24.6	20.1	NA*	23.3	NA*	10.3	19.7	14	20	14.9	15.9	13.3	16.2
Zinc	460	109	10000	10000	10000		451	335	522	669	173	363	184	159	472	3200	800	NA*	209	NA*	95.5	162	81	106	141	83	70.9	112
Mercury	1	0.18	0.81	2.8	5.7		1	1.7	1.3	2.6	0.11	0.11	0.23	0.46	0.64	0.61	3	NA*	0.23	NA*	0.069	0.14	0.12	0.12	0.65	0.050 J	0.035 J	0.044 J
Metals, SPLP																												
Arsenic	0.025						ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA*	ND	NA*	ND	NA*	ND	NA*	NA*	NA*	NA*	NA*	NA*
Barium	1						0.086 J	0.10 J	0.094 J	0.088 J	0.099 J	0.10 J	0.095 J	0.11 J	0.078 J	0.072 J	NA*	0.077 J	NA*	0.078 J	NA*	0.13 J	NA*	NA*	NA*	NA*	NA*	NA*
Cadmium	0.005						ND	ND	ND	0.00015 J	0.00010 J	0.00027 J	ND	0.000097 J	0.000086 J	ND	NA*	0.00011 J	NA*	0.000084 J	NA*	ND	NA*	NA*	NA*	NA*	NA*	NA*
Chromium	0.05						0.0030 J	0.0064 J	0.0036 J	0.0051 J	0.0039 J	0.0037 J	0.0052 J	0.0075 J	0.0033 J	0.0044 J	NA*	0.0080 J	NA*	0.0028 J	NA*	0.0052 J	NA*	NA*	NA*	NA*	NA*	NA*
Lead	0.025						0.018	0.044	0.026	0.062	ND	ND	ND	0.011	0.0061	0.027	NA*	0.085	NA*	0.017	NA*	ND	NA*	NA*	NA*	NA*	NA*	NA*
Selenium	0.01						ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA*	ND	NA*	ND	NA*	ND	NA*	NA*	NA*	NA*	NA*	NA*
Silver	0.05						ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA*	ND	NA*	ND	NA*	ND	NA*	NA*	NA*	NA*	NA*	NA*
Mercury	0.0007						ND	0.00026	ND	0.00029	ND	ND	ND	ND	ND	ND	NA*	0.00067	NA*	ND	NA*	ND	NA*	NA*	NA*	NA*	NA*	NA*
Pesticides																												
4,4'-DDD			0.0033	13	92	180	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA*	ND	NA*	ND	NA*	0.0041	ND	ND	ND	ND	ND	ND
4,4'-DDE			0.0033	8.9	62	120	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA*	ND	NA*	ND	NA*	0.0145	ND	ND	ND	ND	ND	ND
4,4'-DDT	48000	0.0033	7.9	47	94		ND	0.0046	0.0088	ND	0.016	0.0049	ND	0.0042	0.0063	ND	NA*	ND	NA*	0.0358	NA*	0.0123	ND	ND	ND	ND	ND	ND
Aldrin		0.005	0.097	0.68	1.4		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA*	ND	NA*	ND	NA*	ND	ND	ND	ND	ND	ND	ND
Dieldrin	780	0.005	0.2	1.4	2.8		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA*	ND	NA*	ND	NA*	ND	ND	ND	ND	ND	ND	ND
Endosulfan I	20	2.4	24	200	920		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA*	ND	NA*	ND	NA*	ND	ND	ND	ND	ND	ND	ND
Endosulfan II	20	2.4	24	200	920		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA*	ND	NA*	ND	NA*	ND	ND	ND	ND	ND	ND	ND
Endosulfan sulfate		2.4	24	200	920		ND	ND	0.0071	ND	ND	ND	ND	ND	ND	ND	NA*	ND	NA*	ND	NA*	ND	ND	ND	ND	ND	ND	ND
Endrin	220	0.014	11	89	410		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA*	ND	NA*	ND	NA*	ND	ND	ND	ND	ND	ND	ND
Endrin aldehyde							ND	ND	ND	ND	0.0048	ND	ND	ND	ND	ND	NA*	ND	NA*	ND	NA*	ND	ND	ND	ND	ND	ND	ND
Endrin ketone							ND	ND	ND	ND	ND	ND	ND	0.0068	ND	ND	NA*	ND	NA*	ND	NA*	ND	ND	ND	ND	ND	ND	ND
Heptachlor	10000	0.042	2.1	15	29		0.0035	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA*	ND	NA*	ND	NA*	ND	ND	ND	ND	ND	ND	ND
Heptachlor epoxide	2100						ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA*	ND	NA*	ND	NA*	ND	ND	ND	ND	ND	ND	ND
Methoxychlor							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA*	ND	NA*	ND	NA*	ND	ND	ND	ND	ND	ND	ND
Toxaphene	250						ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA*	ND	NA*	ND	NA*	ND	ND	ND	ND	ND	ND	ND
alpha-BHC		0.02	0.48	3.4	6.8		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA*	ND	NA*	ND	NA*	ND	ND	ND	ND	ND	ND	ND
alpha-Chlordane		0.094	4.2	24	47		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA*	ND	NA*	ND	NA*	ND	ND	ND	ND	ND	ND	ND
beta-BHC		0.036	0.36	3	14		ND	0.0026	0.0055	ND	ND	ND	ND	ND	ND	ND	NA*	ND	NA*	ND	NA*	ND	ND	ND	ND	ND	ND	ND
delta-BHC		0.04	100	500	1000		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA*	0.0035	NA*	ND	NA*	ND	ND	ND	ND	ND	ND	ND
gamma-BHC (Lindane)	78	0.1	1.3	9.2	23		0.003	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA*	ND	NA*	ND	NA*	ND	ND	ND	ND	ND	ND	ND
gamma-Chlordane	38000						ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA*	ND	NA*	ND	NA*	ND	ND	ND	ND	ND	ND	ND
PCBs																												
PCB-1016 (Aroclor 1016) **(11)**	1000	0.1	1	1	25		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA*	ND	NA*	ND	NA*	ND	ND	ND	ND	ND	ND	ND
PCB-1221 (Aroclor 1221) **(11)**	1000	0.1	1	1	25		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA*	ND	NA*	ND	NA*	ND	ND	ND	ND	ND	ND	ND
PCB-1232 (Aroclor 1232) **(11)**	1000	0.1	1	1	25		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA*	ND	NA*	ND	NA*	ND	ND	ND	ND	ND	ND	ND
PCB-1242 (Aroclor 1242) **(11)**	1000	0.1	1	1	25		ND	ND	ND	ND	0.059	ND	0.0218 J	ND	ND	ND	NA*	ND	NA*	ND	NA*	ND	ND	ND	ND	ND	ND	ND
PCB-1248 (Aroclor 1248) **(11)**	1000	0.1	1	1	25		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA*	ND	NA*	ND	NA*	ND	ND	ND	ND	ND	ND	ND
PCB-1254 (Aroclor 1254) **(11)**	1000	0.1	1	1	25		ND	0.0285 J	0.0364 J	0.0448 J	0.035 J	0.0248 J	ND	ND	ND	ND	NA*	ND	NA*	0.111	NA*	ND	ND	ND	ND	ND	ND	ND
PCB-1260 (Aroclor 1260) **(11)**	1000	0.1	1	1	25		ND	ND	ND	ND	ND	ND	ND	ND	0.0404 J	0.0379	NA*	ND	NA*	ND	NA*	ND	ND	ND	ND	ND	ND	ND
VOCs																												
1,1,1-Trichloroethane **(12)**	3500	0.68	100	500	1000		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA*	ND	NA*	ND	NA*	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	5400						ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA*	ND	NA*	ND	NA*	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane **(12)**	3500						ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA*	ND	NA*	ND	NA*	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichlorotrifluoroethane							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA*	ND	NA*	ND	NA*	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane		0.27	26	240	480		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA*	ND	NA*	ND	NA*	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	4700	0.33	100	500	1000		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA*	ND	NA*	ND	NA*	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA*	ND	NA*	ND	NA*	ND	ND	ND	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA*	ND	NA*	ND	NA*	ND	ND	ND	ND	ND	ND	ND
1,2-Dibromoethane (EDB)							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA*	ND	NA*	ND	NA*	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	2500	1.1	100	500	1000		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA*	ND	NA*	ND	NA*	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane		0.02	3.1	30	60		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA*	ND	NA*	ND	NA*	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA*	ND	NA*	ND	NA*	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	7100	2.4	49	280	560		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA*	ND	NA*	ND	NA*	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	3300	1.8	13	130	250		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA*	ND	NA*	ND	NA*	ND	ND	ND	ND	ND	ND	ND
2-Butanone (MEK)		0.12	100	500	1000		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA*	ND	NA*	ND	NA*	ND	ND	ND	ND	ND	ND	ND
2-Hexanone							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA*	ND	NA*	ND	NA*	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-pentanone (MIBK)							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA*	ND	NA*	ND	NA*	ND	ND	ND	ND	ND	ND	ND
Acetone		0.05	100	500	1000		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA*	ND	NA*	ND	NA*	ND	ND	ND	ND	0.009	ND	ND
Benzene	1900	0.06	4.8	44	89		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA*	ND	NA*	ND	NA*	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA*	ND	NA*	ND	NA*	ND	ND	ND	ND	ND	ND	ND
Bromoform							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA*	ND	NA*	ND	NA*	ND	ND	ND	ND	ND	ND	ND
Bromomethane							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA*	ND	NA*	ND	NA*	ND	ND	ND	ND	ND	ND	ND
Carbon disulfide							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA*	ND	NA*	ND	NA*	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	9600	0.76	2.4	22	44		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA*	ND	NA*	ND	NA*	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	1700	1.1	100	500	1000		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA*	ND	NA*	ND	NA*	ND	ND	ND	ND	ND	ND	ND
Chloroethane							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA*	ND	NA*	ND	NA*	ND	ND	ND	ND	ND	ND	ND
Chloroform		0.37	49	350	700		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA*	ND	NA*	ND	NA*	ND	ND	ND	ND	ND	ND	ND
Chloromethane							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA*	ND	NA*	ND	NA*	ND	ND	ND	ND	ND	ND	ND
Cyclohexane							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA*	ND	NA*	ND	NA*	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA*	ND	NA*	ND	NA*	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA*	ND	NA*	ND	NA*	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	3700	1	41	390	780		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA*	ND	NA*	ND	NA*	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene (Cumene)	1800						ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA*	ND	NA*	ND	NA*	ND	ND	ND	ND	ND	ND	ND
Methyl acetate							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA*	ND	NA*	ND	NA*	ND	ND	ND	ND	ND	ND	ND
Methyl-tert-butyl ether		0.12	100	500	1000		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA*	ND	NA*	ND	NA*	ND	ND	ND	ND	ND	ND	ND
Methylcyclohexane							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA*	ND	NA*	ND	NA*	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride		0.05	100	500	1000		0.0023 J	0.0015 J	0.0019 J	0.0019 J	0.0021 J	0.0023 J	0.0021 J	0.0017 J	0.002 J	0.0016 J	NA*	0.002 J	NA*	0.0022 J	NA*	0.0015 J	0.0019 J	0.0018 J	0.0021 J	0.0018 J	0.0022 J	ND
Styrene							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA*	ND	NA*	ND	NA*	ND	ND	ND	ND	ND	ND	ND

Couch White
Green Island, NY

Prepared By: Envirospec Engineering, PLLC.

TABLE 13. Soil Analytical Results

	Sample ID						BS-5A	BS-5B	BS-6A	BS-6B	BS-7A	BS-7B	BS-8A	BS-8B	BS-9A	BS-9B	SB15A	SB19AO	SB23AO	SB24AO	SB33AO	SB7AO	SE-10	SE-6	SE-7	SE-8	SE-9 DUP	SE-9
	Depth						0-6"	6"-2'	0-6"	6"-2'	0-6"	6"-2'	0-6"	6"-2'	0-6"	6"-2'	0-2"	0-2"	0-2"	0-2"	0-2"	0-2"	0-6"	0-6"	0-6"	0-6"	0-6"	0-6"
	Sample Date						8/8/2017	8/8/2017	8/8/2017	8/8/2017	8/8/2017	8/8/2017	8/8/2017	8/8/2017	8/8/2017	8/8/2017	8/8/2017	8/8/2017	8/8/2017	8/8/2017	8/8/2017	8/8/2017	8/8/2017	8/8/2017	8/8/2017	8/8/2017	8/8/2017	8/8/2017
Contaminants	Part 703 Groundwater A Standard **(3)**	Class C SGV **(10)**	6 NYCRR-375.6.8(b) Unrestricted Use	6 NYCRR-375.6.8(b) Residential	6 NYCRR-375.6.8(b) Commercial	6 NYCRR-375.6.8(b) Industrial																						
Tetrachloroethene		57000	1.3	19	150	300	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA*	ND	NA*	ND	NA*	ND	ND	ND	ND	ND	ND	ND
Toluene		4500	0.7	100	500	1000	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.4 J	NA*	ND	NA*	ND	NA*	ND	ND	ND	ND	ND	ND	ND
Trichloroethene		8600	0.47	21	200	400	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA*	ND	NA*	ND	NA*	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA*	ND	NA*	ND	NA*	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride			0.02	0.9	13	27	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA*	ND	NA*	ND	NA*	ND	ND	ND	ND	ND	ND	ND
Xylene (Total) **(2)**		5200	0.26	100	500	1000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA*	ND	NA*	ND	NA*	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene			0.25	100	500	1000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA*	ND	NA*	ND	NA*	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA*	ND	NA*	ND	NA*	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene		11000	0.19	100	500	1000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA*	ND	NA*	ND	NA*	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA*	ND	NA*	ND	NA*	ND	ND	ND	ND	ND	ND	ND
SVOCs																												
1,2,4-Trichlorobenzene		55000					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA*	NA*	NA*	ND	NA*	ND	ND	ND	ND	ND	ND	ND
2,2'-Oxybis(1-chloropropane)							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA*	NA*	NA*	ND	NA*	ND	ND	ND	ND	ND	ND	ND
2,4,5-Trichlorophenol							ND	ND	0.0812	ND	ND	ND	ND	ND	ND	ND	NA*	NA*	NA*	ND	NA*	ND	ND	ND	ND	ND	ND	ND
2,4,6-Trichlorophenol							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA*	NA*	NA*	ND	NA*	ND	ND	ND	ND	ND	ND	ND
2,4-Dichlorophenol							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA*	NA*	NA*	ND	NA*	ND	ND	ND	ND	ND	ND	ND
2,4-Dimethylphenol							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA*	NA*	NA*	ND	NA*	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrophenol							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA*	NA*	NA*	ND	NA*	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrotoluene							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA*	NA*	NA*	ND	NA*	ND	ND	ND	ND	ND	ND	ND
2,6-Dinitrotoluene							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA*	NA*	NA*	ND	NA*	ND	ND	ND	ND	ND	ND	ND
2-Chloronaphthalene							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA*	NA*	NA*	ND	NA*	ND	ND	ND	ND	ND	ND	ND
2-Chlorophenol							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA*	NA*	NA*	ND	NA*	ND	ND	ND	ND	ND	ND	ND
2-Methylnaphthalene							ND	ND	0.0765	0.1	ND	ND	ND	ND	ND	ND	NA*	NA*	NA*	0.604	NA*	ND	ND	ND	ND	ND	ND	ND
2-Methylphenol(o-Cresol)			0.33	100	500	1000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA*	NA*	NA*	ND	NA*	ND	ND	ND	ND	ND	ND	ND
2-Nitroaniline							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA*	NA*	NA*	ND	NA*	ND	ND	ND	ND	ND	ND	ND
2-Nitrophenol							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA*	NA*	NA*	ND	NA*	ND	ND	ND	ND	ND	ND	ND
3&4-Methylphenol(m&p Cresol)			0.33	100	500	1000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA*	NA*	NA*	ND	NA*	ND	ND	ND	ND	ND	ND	ND
3,3'-Dichlorobenzidine							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA*	NA*	NA*	ND	NA*	ND	ND	ND	ND	ND	ND	ND
3-Nitroaniline							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA*	NA*	NA*	ND	NA*	ND	ND	ND	ND	ND	ND	ND
4,6-Dinitro-2-methylphenol							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA*	NA*	NA*	ND	NA*	ND	ND	ND	ND	ND	ND	ND
4-Bromophenylphenyl ether							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA*	NA*	NA*	ND	NA*	ND	ND	ND	ND	ND	ND	ND
4-Chloro-3-methylphenol							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA*	NA*	NA*	ND	NA*	ND	ND	ND	ND	ND	ND	ND
4-Chloroaniline							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA*	NA*	NA*	ND	NA*	ND	ND	ND	ND	ND	ND	ND
4-Chlorophenylphenyl ether							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA*	NA*	NA*	ND	NA*	ND	ND	ND	ND	ND	ND	ND
4-Nitroaniline							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA*	NA*	NA*	ND	NA*	ND	ND	ND	ND	ND	ND	ND
4-Nitrophenol							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA*	NA*	NA*	ND	NA*	ND	ND	ND	ND	ND	ND	ND
Acenaphthene			20	100	500	1000	ND	ND	ND	0.199	ND	ND	ND	ND	ND	ND	NA*	NA*	NA*	0.699	NA*	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene			100	100	500	1000	ND	ND	0.0754	ND	ND	ND	ND	ND	0.111	ND	NA*	NA*	NA*	ND	NA*	ND	ND	ND	ND	ND	ND	ND
Acetophenone							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA*	NA*	NA*	ND	NA*	ND	ND	ND	ND	ND	ND	ND
Anthracene			100	100	500	1000	0.2	0.13	0.109	0.666	ND	ND	ND	ND	0.143	0.0734	NA*	NA*	NA*	0.353	NA*	ND	ND	ND	ND	ND	ND	ND
Atrazine							ND	ND	0.0803	ND	ND	ND	ND	ND	ND	ND	NA*	NA*	NA*	ND	NA*	ND	ND	ND	ND	ND	ND	ND
Benzaldehyde							0.223	0.0947	0.106	0.109	ND	ND	0.114	ND	0.177	ND	NA*	NA*	NA*	0.699	NA*	0.321	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene			1	1	5.6	11	0.89	0.419	0.235	2.51	0.123	0.12	0.111	0.14	0.535	0.336	NA*	NA*	NA*	0.819	NA*	0.346	0.192	ND	ND	ND	ND	ND
Benzo(a)pyrene			1	1	1	1.1	0.487	0.476	0.25	2.35	0.135	0.14	0.104	0.13	0.607	0.4	NA*	NA*	NA*	0.772	NA*	0.417	0.187	ND	ND	ND	ND	ND
Benzo(b)fluoranthene			1	1	5.6	11	0.743	0.701	0.34	3.17	0.199	0.229	0.153	0.176	1.22	0.685	NA*	NA*	NA*	3.99	NA*	0.763	0.267	0.0933 J	ND	ND	ND	ND
Benzo(g,h,i)perylene			100	100	500	1000	0.526	0.26	0.17	0.996	ND	0.0826	0.0908	0.0851	0.314	0.215	NA*	NA*	NA*	0.368	NA*	0.202	0.128	ND	ND	ND	ND	ND
Benzo(k)fluoranthene			0.8	3.9	56	110	0.626	0.331	0.227	1.2	0.128	0.101	0.0793 J	0.0817	0.523	0.289	NA*	NA*	NA*	0.527	NA*	0.312	0.14	0.0494 J	ND	ND	ND	ND
Biphenyl (Diphenyl)							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA*	NA*	NA*	ND	NA*	ND	ND	ND	ND	ND	ND	ND
Butylbenzylphthalate							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA*	NA*	NA*	ND	NA*	ND	ND	ND	ND	ND	ND	ND
Caprolactam							ND	ND	0.298	ND	ND	ND	0.22	0.236	0.406	ND	NA*	NA*	NA*	ND	NA*	ND	0.256	ND	ND	ND	0.154	ND
Carbazole							ND	ND	0.076	0.131	ND	ND	ND	ND	ND	ND	NA*	NA*	NA*	0.199	NA*	ND	ND	ND	ND	ND	ND	ND
Chrysene			1	3.9	56	110	0.496	0.473	0.257	2.75	0.165	0.143	0.138	0.155	0.67	0.392	NA*	NA*	NA*	0.798	NA*	0.444	0.233	ND	ND	ND	ND	ND
Di-n-butylphthalate							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA*	NA*	NA*	ND	NA*	ND	ND	ND	ND	ND	ND	ND
Di-n-octylphthalate							ND	ND	0.0891	ND	ND	ND	ND	ND	ND	ND	NA*	NA*	NA*	ND	NA*	ND	ND	ND	ND	ND	ND	ND
Dibenz(a,h)anthracene			0.33	0.33	0.56	1.1	ND	0.0821	0.0881	0.322	ND	ND	ND	ND	ND	ND	NA*	NA*	NA*	0.404	NA*	0.079	ND	ND	ND	ND	ND	ND
Dibenzofuran			7	59	350	1000	ND	ND	0.0754	0.136	ND	ND	ND	ND	ND	ND	NA*	NA*	NA*	0.912	NA*	ND	ND	ND	ND	ND	ND	ND
Diethylphthalate							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA*	NA*	NA*	ND	NA*	ND	ND	ND	ND	ND	ND	ND
Dimethylphthalate							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA*	NA*	NA*	ND	NA*	ND	ND	ND	ND	ND	ND	ND
Fluoranthene			100	100	500	1000	0.886	0.787	0.399	4.61	0.215	0.234	0.185	0.254	1.02	0.538	NA*	NA*	NA*	6.29	NA*	0.527	0.32	0.177	ND	ND	ND	ND
Fluorene			30	100	500	1000	ND	ND	0.0764	0.231	ND	ND	ND	ND	ND	ND	NA*	NA*	NA*	0.145	NA*	ND	ND	ND	ND	ND	ND	ND
Hexachloro-1,3-butadiene		12000					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA*	NA*	NA*	ND	NA*	ND	ND	ND	ND	ND	ND	ND
Hexachlorobenzene			0.33	1.2	6	12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA*	NA*	NA*	ND	NA*	ND	ND	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene		8100					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA*	NA*	NA*	ND	NA*	ND	ND	ND	ND	ND	ND	ND
Hexachloroethane							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA*	NA*	NA*	ND	NA*	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene			0.5	0.5	5.6	11	0.5	0.213	0.171	1.06	ND	ND	ND	0.0835	0.271	0.207	NA*	NA*	NA*	0.318	NA*	0.206	0.118	ND	ND	ND	ND	ND
Isophorone							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA*	NA*	NA*	ND	NA*	ND	ND	ND	ND	ND	ND	ND
N-Nitroso-di-n-propylamine							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA*	NA*	NA*	ND	NA*	ND	ND	ND	ND	ND	ND	ND
N-Nitrosodiphenylamine							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA*	NA*	NA*	ND	NA*	ND	ND	ND	ND	ND	ND	ND
Naphthalene			12	100	500	1000	ND	0.0864	0.0788	0.0965	ND	ND	ND	ND	ND	ND	NA*	NA*	NA*	0.756	NA*	ND	ND	ND	ND	ND	ND	ND
Nitrobenzene							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA*	NA*	NA*	ND	NA*	ND	ND	ND	ND	ND	ND	ND
Pentachlorophenol		19000	0.8	6.7	6.7	55	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA*	NA*	NA*	ND	NA*	ND	ND	ND	ND	ND	ND	ND
Phenanthrene			100	100	500	1000	0.864	0.542	0.272	3.26	0.106	0.107	0.102	0.17	0.639	0.311	NA*	NA*	NA*	6.89	NA*	0.22	0.164	0.121	ND	ND	ND	ND
Phenol			0.33	100	500	1000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA*	NA*	NA*	ND	NA*	ND	ND	ND	ND	ND	ND	ND
Pyrene			100	100	500	1000	1.71	1.01	0.403	5.25	0.218	0.251	0.176	0.239	1.57	0.613	NA*	NA*	NA*	4.88	NA*	1.02	0.331	0.172	ND	ND	ND	ND
bis(2-Chloroethoxy)methane							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA*	NA*	NA*	ND	NA*	ND	ND	ND	ND	ND	ND	ND
bis(2-Chloroethyl) ether							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA*	NA*	NA*	ND	NA*	ND	ND	ND	ND	ND	ND	ND
bis(2-Ethylhexyl)phthalate							ND	0.292	0.117	0.111	ND	0.0835	ND	ND	0.164	ND	NA*	NA*	NA*	ND	NA*	0.0922	ND	0.268	ND	ND	ND	ND
TPH																												
Total Petroleum Hydrocarbons							4220	404	234	500	145	504	142	4350	993	461	NA*	ND	NA*	539	NA*	2850	1100	3390	852	ND	1590	953
TOC																												
Total Organic Carbon							NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	12500	29200	33200	16200	23300	24700

Notes:

(1) Standards based on Chromium, hexavalent.
(2) Standards based on Xylene (mixed).
(3) Groundwater standards only provided for those metals for which SPLP analyses were completed.
(4) All results in ppm
(5) 'ND' = Not Detected
(6) 'NA*' = Not Analyzed
(7) Results exceeding Groundwater A Standard's are RED
(8) Results exceeding unrestricted use SCOs are ORANGE
(9) Results exceeding residential SCOs are RED
(10) Results exceeding commercial SCOs are BLUE
(11) Results exceeeding industrial SCOs are GREEN
(12) SGVs are from NYSDEC *Screening and Assessment of Contaminated Sediment* (June 2014).
(13) PCB SGVs apply to total PCBs.
(14) 1,1,1-Trichloroethane and 1,1,2-Trichloroethane SGVs apply to the sum of both isomers.

Table 14. Pore Water Analytical Results

Contaminants	Part 703 Groundwater A Standard	Part 703 Surface Water Class C Aquatic, Chronic Standard	WP-1
Total Metals			
Aluminum			525
Antimony	3		ND
Arsenic	25		ND
Barium	1000		140 J
Beryllium			ND
Cadmium	5		ND
Calcium			66100
Chromium	50		2.6 J
Cobalt			ND
Copper	200		2.6 J
Lead	25		3.5 J
Iron	300		3460
Magnesium			7280
Manganese	300		812
Nickel	100		ND
Potassium			2470 J
Selenium	10		ND
Silver	50		ND
Sodium	20000		22300
Thallium			ND
Vanadium			1.3 J
Zinc			7.8 J
Mercury	0.7		ND
Dissolved Metals			
Aluminum, Dissolved		100	ND
Antimony, Dissolved	3		ND
Arsenic, Dissolved	25	150	ND
Barium, Dissolved	1000		102 J
Beryllium, Dissolved		1100	ND
Cadmium, Dissolved	5	3.5	ND
Calcium, Dissolved			65500
Chromium, Dissolved	50	11	ND
Cobalt, Dissolved		5	ND
Copper, Dissolved	200	15.7	ND
Iron, Dissolved	300		30.3 J
Lead, Dissolved	25	2.4	1.4 J
Magnesium, Dissolved			7130
Manganese, Dissolved	300		12.4
Nickel, Dissolved	100	90.8	ND
Potassium, Dissolved			1670 J
Selenium, Dissolved	10	4.6	ND
Silver, Dissolved	50	0.1	ND
Sodium, Dissolved	20000		22000
Thallium, Dissolved		8	ND
Vanadium, Dissolved		14	ND
Zinc, Dissolved		144.5	ND
Mercury, Dissolved	0.7	0.77	ND
Pesticides			
4,4'-DDD	0.3		ND
4,4'-DDE	0.2		ND
4,4'-DDT	0.2		ND
Aldrin	ND		ND
Dieldrin	0.004		ND
Endosulfan I		0.009	ND
Endosulfan II			ND
Endosulfan sulfate			ND
Endrin	ND	0.036	ND
Endrin aldehyde	5		ND
Endrin ketone	5		ND
Heptachlor	0.04		ND
Heptachlor epoxide	0.03		ND
Methoxychlor	35	0.03	ND
Toxaphene	0.06	0.005	ND
alpha-BHC	0.01		ND
alpha-Chlordane			ND
beta-BHC	0.04		ND
delta-BHC	0.04		ND
gamma-BHC (Lindane)	0.05		ND
gamma-Chlordane	0.05		ND

Table 14. Pore Water Analytical Results

Contaminants	Part 703 Groundwater A Standard	Part 703 Surface Water Class C Aquatic, Chronic Standard	WP-1
PCBs			
PCB-1016 (Aroclor 1016) **(1)**	0.09		ND
PCB-1221 (Aroclor 1221) **(1)**	0.09		ND
PCB-1232 (Aroclor 1232) **(1)**	0.09		ND
PCB-1242 (Aroclor 1242) **(1)**	0.09		ND
PCB-1248 (Aroclor 1248) **(1)**	0.09		ND
PCB-1254 (Aroclor 1254) **(1)**	0.09		ND
PCB-1260 (Aroclor 1260) **(1)**	0.09		ND
VOCs			
1,1,1-Trichloroethane	5		ND
1,1,2,2-Tetrachloroethane	5		ND
1,1,2-Trichloroethane	1		ND
1,1,2-Trichlorotrifluoroethane	5		ND
1,1-Dichloroethane	5		ND
1,1-Dichloroethene	5		ND
1,2,4-Trichlorobenzene	5		ND
1,2-Dibromo-3-chloropropane	0.04		ND
1,2-Dibromoethane (EDB)	0.0006		ND
1,2-Dichlorobenzene	3		ND
1,2-Dichloroethane	0.6		ND
1,2-Dichloropropane	1		ND
1,3-Dichlorobenzene	3		ND
1,4-Dichlorobenzene	3		ND
2-Butanone (MEK)			ND
2-Hexanone			ND
4-Methyl-2-pentanone (MIBK)			ND
Acetone			12.4
Benzene	1		ND
Bromodichloromethane			ND
Bromoform			ND
Bromomethane	5		ND
Carbon disulfide	60		ND
Carbon tetrachloride	5		ND
Chlorobenzene	5	5	ND
Chloroethane	5		ND
Chloroform	7		ND
Chloromethane	5		ND
Cyclohexane			ND
Dibromochloromethane			ND
Dichlorodifluoromethane	5		ND
Ethylbenzene	5		ND
Isopropylbenzene (Cumene)	5		ND
Methyl acetate			ND
Methyl-tert-butyl ether			ND
Methylcyclohexane			ND
Methylene Chloride	5		ND
Styrene	5		ND
Tetrachloroethene	5		ND
Toluene	5		ND
Trichloroethene	5		ND
Trichlorofluoromethane	5		ND
Vinyl chloride	2		ND
Xylene (Total)	5		ND
cis-1,2-Dichloroethene	5		ND
cis-1,3-Dichloropropene **(2)**	0.4		ND
trans-1,2-Dichloroethene	5		ND
trans-1,3-Dichloropropene **(2)**	0.4		ND
SVOCs			
2,2'-Oxybis(1-chloropropane)	5		ND
2,4,5-Trichlorophenol			ND
2,4,6-Trichlorophenol			ND
2,4-Dichlorophenol **(3)**	1		ND
2,4-Dimethylphenol **(3)**	1		ND
2,4-Dinitrophenol **(3)**	1		ND
2,4-Dinitrotoluene	5		ND
2,6-Dinitrotoluene	5		ND
2-Chloronaphthalene			ND
2-Chlorophenol			ND
2-Methylnaphthalene			ND
2-Methylphenol(o-Cresol)			ND
2-Nitroaniline	5		ND
2-Nitrophenol			ND

Table 14. Pore Water Analytical Results

Contaminants	Part 703 Groundwater A Standard	Part 703 Surface Water Class C Aquatic, Chronic Standard	WP-1
3&4-Methylphenol(m&p Cresol)			ND
3,3'-Dichlorobenzidine	5		ND
3-Nitroaniline	5		ND
4,6-Dinitro-2-methylphenol			ND
4-Bromophenylphenyl ether			ND
4-Chloro-3-methylphenol			ND
4-Chloroaniline	5		ND
4-Chlorophenylphenyl ether			ND
4-Nitroaniline	5		ND
4-Nitrophenol			ND
Acenaphthene			ND
Acenaphthylene			ND
Acetophenone			ND
Anthracene			ND
Atrazine	7.5		ND
Benzaldehyde			ND
Benzo(a)anthracene			ND
Benzo(a)pyrene	ND		ND
Benzo(b)fluoranthene			ND
Benzo(g,h,i)perylene			ND
Benzo(k)fluoranthene			ND
Biphenyl (Diphenyl)	5		ND
Butylbenzylphthalate			ND
Caprolactam			ND
Carbazole			ND
Chrysene			ND
Di-n-butylphthalate	50		ND
Di-n-octylphthalate			ND
Dibenz(a,h)anthracene			ND
Dibenzofuran			ND
Diethylphthalate			ND
Dimethylphthalate			ND
Fluoranthene			ND
Fluorene			ND
Hexachloro-1,3-butadiene	0.5	1	ND
Hexachlorobenzene	0.04		ND
Hexachlorocyclopentadiene	5	0.45	ND
Hexachloroethane	5		ND
Indeno(1,2,3-cd)pyrene			ND
Isophorone			ND
N-Nitroso-di-n-propylamine			ND
N-Nitrosodiphenylamine			ND
Naphthalene			ND
Nitrobenzene	0.4		ND
Pentachlorophenol **(3)**	1		ND
Phenanthrene			ND
Phenol **(3)**	1		ND
Pyrene			ND
bis(2-Chloroethoxy)methane	5		ND
bis(2-Chloroethyl) ether	1		ND
bis(2-Ethylhexyl)phthalate	5	0.6	ND
TPH			
Total Petroleum Hydrocarbons			ND

Notes:

(1) PCB groundwater standard is based on total PCBs.

(2) Groundwater standard of 0.4 ppb is the total of cis and trans-1,3-dichloropropene

(3) Groundwater standard applies to total phenols

(4) All results are in ppb

(5) ND = Not Detected

TABLE 15. Groundwater Analytical Results

Analyte	Part 703 Groundwater A Standard	MW-2		MW-3		MW-4		MW-7	MW-10		MW-11		MW-13		MW-14		MW-14 DUP	UMW-D		UMW-D DUP
		9/13/17	10/25/17	9/14/17	10/26/17	9/14/17	10/26/17	9/14/17	9/15/17	10/27/17	9/14/17	10/27/17	9/12/17	10/25/17	9/13/17	10/25/17	10/25/17	9/12/17	10/25/17	9/12/17
Total Metals																				
Aluminum		ND	ND	ND	ND	66J	ND	ND	ND	700	ND	130J	11J	67J	95J	ND	ND	ND	1000	81J
Antimony	3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic	25	ND	ND	5.9	6	1.6	1.4	2.8	35.5	22	0.99J	1.7	10.9	4.1	ND	ND	ND	ND	0.63J	ND
Barium	1000	87.8	89.2	146	119	207	200	172	298	340	171	174	216	287	111	99.3	104	95.2	116.0	94.9
Beryllium		ND	ND	ND	ND	ND	0.043J	ND	ND	0.085J	ND	ND	0.03J	ND	ND	ND	ND	ND	0.037J	ND
Cadmium	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.083J	ND	ND	ND	ND	ND	ND	ND
Calcium		90800	95500	162000	123000	134000	127000	124000	208000	211000	186000	192000	102000	112000	80300	68700	67800	145000	145000	141000
Chromium	50	ND	0.51JB	ND	ND	ND	0.39J	ND	ND	2.4	ND	0.99J	0.66J	ND	1.6	ND	ND	0.40	1.50	ND
Cobalt		0.12J	0.2J	0.35	0.45	0.24J	0.38	0.3	0.43	1.1	0.54	0.87	0.73	1.5	0.13J	0.14J	0.14J	0.25J	0.84	0.26J
Copper	200	0.45J	1	ND	0.38J	0.34J	0.38J	ND	1.5	6.7	0.29J	1	0.37J	0.52J	0.73J	0.65J	0.66J	0.86	2.50	1.1
Iron	300	ND	88	8500	7400	42600	42000	7600	52500	53500	28500	32300	33800	10400	120	57	20J	74	1600	130
Lead	25	0.36J	4.3	0.34J	1.1	1	0.94J	0.3J	0.26J	4.8	0.99J	2.7	0.43J	0.47J	0.44J	ND	ND	ND	0.84J	ND
Magnesium		12300	12900	16100	12000	16500	15000	10000	39300	42500	13100	13700	13500	14400	10900	9600	9400	15400	17400	14900
Manganese	300	ND	1.5	654	507	3330	2780	898	3400	2840	1700	1650	4470	2170	1.7	1.6	1.4	2.2	21.0	8.5
Mercury	0.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nickel	100	2.7	3.7	3.7	5.5	2.7	4.7	2.8	4.5	9.1	4.3	7.5	2.4	4.5	2.2	2.8	2.8	4.0	7.4	4.3
Potassium		3600	3700	10900B	8700	10900	10800	4600B	15300	16100	26600B	25100	9700	8200	3200	3000	2900	6400	7900	6300
Selenium	10	3.2	3.2	ND	ND	ND	ND	ND	ND	ND	ND	3.1J	ND	ND	4.6	3.7	4	ND	0.64J	ND
Silver	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Sodium	20000	16000	16500	19300	17900	27700	27400	22700	262000	271000	40800	38200	17200	24400	13400	14100	13800	53200	62800	51200
Thallium		ND	0.035J	ND	0.036J	ND	0.025J	ND	0.026J	0.035J	ND	ND	ND	0.11J	ND	0.053J	0.042J	ND	0.14J	ND
Vanadium		ND	ND	ND	ND	ND	ND	ND	ND	1.7J	ND	ND	ND	ND	ND	ND	ND	ND	1.2J	ND
Zinc		8.4J	10.8	ND	3.6J	ND	ND	ND	ND	20.2	ND	ND	5.9J	2.9J	ND	5.8J	3.9J	ND	6.2J	ND
Dissolved Metals																				
Aluminum, Dissolved		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	62	ND	ND
Antimony, Dissolved	3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.47J
Arsenic, Dissolved	25	ND	ND	2.8	3.7	1.5	1.3	2.7	35.3	20.1	1.1	1.6	14.5	3.5	ND	ND	ND	0.31J	0.32J	ND
Barium, Dissolved	1000	93.4	82	134	125B	221	215B	169	329	331	178	177	197	264	107	94	95.9	99.6	108.0	100
Beryllium, Dissolved		ND	ND	ND	ND	ND	ND	ND	ND	0.045J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cadmium, Dissolved	5	ND	ND	ND	0.074JB	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Calcium, Dissolved		93000	84800	152000	116000	127000	121000	111000	214000	176000	167000	173000	107000	104000	77000	69100	64500	142000	130000	144000
Chromium, Dissolved	50	ND	ND	1.1J	ND	2.7	ND	ND	ND	0.45J	ND	0.54J	ND	ND	ND	ND	ND	ND	ND	ND
Cobalt, Dissolved		0.092J	0.16J	0.34	0.42	0.25J	0.3	0.43	0.45	0.68	0.52	0.77	0.71	1.3	0.061J	0.32	0.13J	0.25J	0.36	0.24J
Copper, Dissolved	200	1.9	1.1	0.71J	0.6JB	ND	0.37JB	0.75J	1.4	3.2	0.38J	0.66J	0.29J	0.37J	1.1	1.4	1	1.1	1.8	0.8J
Iron, Dissolved	300	ND	ND	5500B	4700	40100	41600	6800B	53000	46400	26000B	29600	41600	9100	ND	ND	20J	40J	27J	ND
Lead, Dissolved	25	ND	0.27J	ND	ND	0.7J	0.85JB	ND	ND	ND	0.83J	1.1	ND	ND	ND	ND	ND	ND	ND	ND
Magnesium, Dissolved		12600	11700	15100	11500	15700	14900	9100	39900	36100	11900	12700	14300	13600	10500	9700	9200	16100.0	15400	15400
Manganese, Dissolved	300	ND	0.83J	638	487B	3210	2700B	1060	3430	2820	2020	1630	5080	3050	ND	4.5	1.6	3.7	2.8	1.2
Mercury, Dissolved	0.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nickel, Dissolved	100	2.8	4.1	3.9	4.4B	2.9	3.4B	5.1	4.4	8.9	4	7.8	4.4	4.2	2.2	3.1	3	3.8	6.6	4
Potassium, Dissolved		3500	3300	10700B	8700	10300	11000	4300B	15800	15400	24600B	26600	10500	7400	2900	2800	2700	7000.0	6400	6200
Selenium, Dissolved	10	3.5	2.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.3	3.4	3.5	ND	0.6J	ND
Silver, Dissolved	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Sodium, Dissolved	20000	16300	13800	19300	17600	26200	27400	21400	268000	243000	37800	40900	16300	21800	13000	13400	12500	66400.0	54900	48700
Thallium, Dissolved		ND	ND	ND	ND	ND	ND	ND	0.052J	ND	ND	ND	ND	ND	ND	ND	ND	0.034J	ND	0.019J
Vanadium, Dissolved		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Zinc, Dissolved		10.4	9.7J	ND	4.9J	ND	ND	7.6J	3 J	ND	ND	ND	3.8J	ND	ND	4.5J	3.1J	ND	3.6J	ND
Pesticides																				
4,4'-DDD	0.3	ND	ND	ND	ND	ND	0.0054	0.00057J	ND	ND	ND	0.0011J	ND	ND	0.00024 J	ND	ND	ND	0.0015	ND
4,4'-DDE	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDT	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aldrin	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00086	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
alpha-BHC	0.01	ND	ND	ND	ND	ND	ND	ND	ND	0.0025J	ND	0.0015	ND	ND	ND	ND	ND	ND	ND	ND
alpha-Chlordane		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
beta-BHC	0.04	ND	ND	ND	ND	0.017	ND	ND	ND	ND	ND	0.02	ND	ND	ND	ND	ND	ND	ND	ND
delta-BHC	0.04	ND	ND	ND	ND	ND	0.0098	ND	0.0043	0.0028J	ND	0.0047	ND	ND	ND	ND	ND	ND	ND	ND
Dieldrin	0.004	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Couch White
Green Island, NY

Prepared By: Envirospec Engineering, PLLC.

TABLE 15. Groundwater Analytical Results

Analyte	Part 703 Groundwater A Standard	MW-2		MW-3		MW-4		MW-7	MW-10		MW-11		MW-13		MW-14		MW-14 DUP	UMW-D		UMW-D DUP
		9/13/17	10/25/17	9/14/17	10/26/17	9/14/17	10/26/17	9/14/17	9/15/17	10/27/17	9/14/17	10/27/17	9/12/17	10/25/17	9/13/17	10/25/17	10/25/17	9/12/17	10/25/17	9/12/17
Endosulfan I		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan II		ND	ND	ND	ND	ND	ND	ND	ND	0.015	ND	0.0016	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan sulfate		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endrin	ND	ND	0.002	ND	ND	ND	0.0046	ND	0.0072	ND	ND	ND	ND	0.0013	ND	ND	ND	ND	ND	ND
Endrin aldehyde	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endrin ketone	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
gamma-BHC (Lindane)	0.05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0079	ND	ND	ND	ND	ND	ND	ND	ND
gamma-Chlordane	0.05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor	0.04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor epoxide	0.03	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0027	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methoxychlor	35	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toxaphene	0.06	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCBs																				
PCB-1016 **(2)**		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1221 **(2)**		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1232 **(2)**		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1242 **(2)**		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1248 **(2)**		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1254 **(2)**		ND	0.22	ND	0.16	ND	ND	ND	0.85	ND	0.034J	ND	ND	0.093	ND	0.23	0.26	ND	0.17	ND
PCB-1260 **(2)**		ND	0.23	ND	0.14	ND	0.13	ND	ND	0.45	ND	0.078	ND	0.063	ND	0.22	0.2	ND	0.15	ND
PCB-1262 **(2)**		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1268 **(2)**		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Polychlorinated biphenyls, Total	0.09	ND	0.45	ND	0.3	ND	0.13	ND	0.85	0.45	ND	0.078	ND	0.16	ND	0.45	0.46	ND	0.32	ND
VOCs																				
1,1,1-Trichloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dibromo-3-Chloropropane	0.04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dibromoethane	0.0006	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	0.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone (MEK)		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Hexanone		ND	ND	ND	ND	ND	ND	ND	ND	ND	1.9J	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-pentanone (MIBK)		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetone		ND	ND	ND	ND	ND	4	ND	ND	15	78	14	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	1	ND	ND	ND	0.19J	6.1	7.9	ND	0.21J	0.53	0.62	0.94	ND	1.2	ND	0.63	0.44J	ND	0.87	ND
Bromodichloromethane		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon disulfide	60	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.25J	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.67	ND	0.58	0.39J	ND	0.54	ND
Chloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloromethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.46J	ND	ND	ND	ND	0.31J	ND
cis-1,3-Dichloropropene **(3)**	0.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cyclohexane		ND	ND	ND	ND	21	24	ND	13	15	51	58	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Couch White
Green Island, NY

Prepared By: Envirospec Engineering, PLLC.

TABLE 15. Groundwater Analytical Results

Analyte	Part 703 Groundwater A Standard	MW-2		MW-3		MW-4		MW-7	MW-10		MW-11		MW-13		MW-14		MW-14 DUP	UMW-D		UMW-D DUP
		9/13/17	10/25/17	9/14/17	10/26/17	9/14/17	10/26/17	9/14/17	9/15/17	10/27/17	9/14/17	10/27/17	9/12/17	10/25/17	9/13/17	10/25/17	10/25/17	9/12/17	10/25/17	9/12/17
Isopropylbenzene	5	ND	ND	ND	ND	1.1	0.99	ND	8.7	ND	4.1	3.3	ND	ND	ND	ND	ND	ND	ND	ND
Methyl acetate		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl tert-butyl ether		ND	ND	0.3J	0.31J	0.17J	ND	ND	ND	ND	0.71	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylcyclohexane		ND	ND	ND	ND	24	20	ND	9.5	7.5	62	57	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	5	ND	ND	0.21J	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.46J	ND	ND	ND	ND	0.32J	ND
Styrene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	5	ND	ND	ND	0.36J	1	1.1	ND	0.37J	0.53	1.1	1.1	ND	1.3	ND	0.99	0.74J	ND	1	ND
trans-1,2-Dichloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene **(3)**	0.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylenes, Total	5	ND	ND	ND	ND	1.6	1.9	ND	1.1	1.1	2.1	3.2	ND	0.33J	ND	ND	ND	ND	ND	ND
SVOCs																				
2,4,5-Trichlorophenol		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4,6-Trichlorophenol		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dichlorophenol **(1)**	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dimethylphenol **(1)**	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrophenol **(1)**	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrotoluene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,6-Dinitrotoluene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloronaphthalene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chlorophenol		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Methylnaphthalene		ND	0.062JB	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.072J	ND	ND	ND	ND	ND
2-Methylphenol		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Nitroaniline	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Nitrophenol		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3,3'-Dichlorobenzidine	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3-Nitroaniline	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,6-Dinitro-2-methylphenol		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Bromophenyl phenyl ether		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Chloro-3-methylphenol		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Chloroaniline	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Chlorophenyl phenyl ether		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Methylphenol		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Nitroaniline	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Nitrophenol		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthene		ND	ND	ND	ND	ND	2.2J	ND	5 J	2.2J	2.6J	3.4J	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetophenone		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Anthracene		ND	ND	ND	ND	4.4J	ND	ND	3.4 J	1.1J	0.37J	0.91J	ND	ND	ND	ND	ND	ND	ND	ND
Atrazine	7.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzaldehyde		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)pyrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(b)fluoranthene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(k)fluoranthene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Biphenyl	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
bis (2-chloroisopropyl) ether	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bis(2-chloroethoxy)methane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bis(2-chloroethyl)ether	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bis(2-ethylhexyl) phthalate	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Butyl benzyl phthalate		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Caprolactam		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbazole		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chrysene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

TABLE 15. Groundwater Analytical Results

Analyte	Part 703 Groundwater A Standard	MW-2		MW-3		MW-4		MW-7	MW-10		MW-11		MW-13		MW-14		MW-14 DUP	UMW-D		UMW-D DUP
		9/13/17	10/25/17	9/14/17	10/26/17	9/14/17	10/26/17	9/14/17	9/15/17	10/27/17	9/14/17	10/27/17	9/12/17	10/25/17	9/13/17	10/25/17	10/25/17	9/12/17	10/25/17	9/12/17
Dibenz(a,h)anthracene	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibenzofuran		ND	ND	ND	ND	4.8J	1.6J	ND	3.1 J	2.2J	2.2J	3.5J	ND	ND	ND	ND	ND	ND	ND	ND
Diethyl phthalate		0.081J	ND	0.082J	0.087J	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.13J	ND	ND	0.081J	ND	0.084J
Dimethyl phthalate		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Di-n-butyl phthalate	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Di-n-octyl phthalate		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluorene		ND	ND	ND	ND	ND	3.4J	ND	7.9 J	4.7J	4.2J	6.4J	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobenzene	0.04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isophorone		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene		ND	0.24JB	ND	0.09JB	ND	ND	ND	ND	ND	ND	ND	ND	0.12JB	ND	0.13JB	0.17JB	ND	0.2JB	ND
Nitrobenzene	0.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
N-Nitrosodi-n-propylamine		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
N-Nitrosodiphenylamine		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pentachlorophenol **(1)**	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene		ND	ND	ND	ND	15B	ND	ND	8 J B	3.9J	1.4JB	3.1J	ND	ND	ND	ND	ND	ND	ND	ND
Phenol **(1)**	1	ND	0.26J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.18J	ND	0.29J	0.18J	ND	1.5	ND
Pyrene		ND	ND	ND	ND	7.7J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TPH																				
GRO (C6-C10)		ND	ND	ND	ND	390B	290	ND	350B	690	780B	2600	ND	8.3J	ND	5.8J	ND	ND	7.7J	ND
DRO (C10-C28)		ND	ND	ND	ND	9200	5000	ND	69000	3400	3900	20000	ND	ND	ND	ND	ND	ND	ND	ND

(1) Based on total phenols standard
(2) See total standard
(3) cis and trans-1,3-dichloropropene standard is total
(4) All results in ppb.

Table 16. Soil Vapor Analytical Results

Analyses	Detection Limit	NYSDOH Air Guideline Values ($\mu g/m^3$)[a]	SV1	SV2	SV3	SV3 DUP	SV4	SV5	SV6	SV7	SV8	AA-01
1,1,1-Trichloroethane	0.82		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	1		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	0.82		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	0.61		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	0.59		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	1.1		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	0.74		5.3	7.5	4.3	4.5	ND	ND	ND	ND	3.2	1.1
1,2-Dibromoethane	1.2		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	0.9		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	0.61		ND	0.73	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	0.69		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	0.74		1.1	1.5	0.88	0.98	2.3	1.6	2.3	ND	0.79	ND
1,3-butadiene	0.33		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	0.9		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	0.9		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dioxane	1.1		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,2,4-trimethylpentane	0.7		ND	ND	0.75	0.98	ND	0.7	ND	ND	ND	ND
4-ethyltoluene	0.74		1	1.7	1	1	2.5	1.9	2.9	ND	0.84	ND
Acetone	0.71		47	58	54	46	560	81	840	500	100	39
Allyl chloride	0.47		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	0.48		0.73	1.3	1	1	9.6	1.1	13	15	0.93	0.45J
Benzyl chloride	0.86		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	1		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	1.6		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	0.58		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon disulfide	0.47		0.56	0.87	1	1.1	19	0.81	72	5.4	1.5	ND
Carbon tetrachloride	0.94		ND	ND	ND	ND	ND	ND	ND	ND	ND	0.63J
Chlorobenzene	0.69		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	0.4		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	0.73		ND	1.4	0.63J	0.59J	1.8	ND	0.93	1.5	ND	ND
Chloromethane	0.31		1.3	1.7	2.9	1.4	ND	ND	ND	ND	ND	1.3
cis-1,2-Dichloroethene	0.59		ND	ND	0.4J	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	0.68		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cyclohexane	0.52		0.62	1.8	0.96	0.76	8.3J	0.55	15	3.6	ND	ND
Dibromochloromethane	1.3		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethyl acetate	0.54		1.1	2	1.2	1.2	ND	0.83	17	ND	1.2	ND
Ethylbenzene	0.65		4	16	5.9	5.8	9	6.4	15	33	2.9	ND
Freon 11	0.84		1.7	1.9	1.7	1.7	2.1	1.7	3.4	ND	1.6	2
Freon 113	1.1		ND	ND	ND	ND	0.92J	0.77J	ND	ND	0.84J	0.77J
Freon 114	1		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Freon 12	0.74		2.7	3.1	2.9	2.8	ND	2.6	ND	1.6	ND	3.2
Heptane	0.61		16	31	5.9	5.9	18	2.3	34	22	ND	0.45J
Hexachloro-1,3-butadiene	1.6		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexane	0.53		1.1	1.4	1.4	1.6	23	0.95	50	46	0.88	0.56
Isopropyl alcohol	0.37		3.6	3.3	3.2	1.8	9.3	1.3	5	ND	1.7	1.8
m&p-Xylene	1.3		13	36	15	14	27	17	37	76	6.9	0.52J
Methyl Butyl Ketone	1.2		1.8	4.5	4.9	3.9	11J	18J	32	ND	8.5	ND
Methyl Ethyl Ketone	0.88		11J	19	20	17	75	75	130	66	25	1.9
Methyl Isobutyl Ketone	1.2		4	ND	2.3	1.6	2	0.61J	2.7	ND	ND	ND
Methyl tert-butyl ether	0.54		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	0.52	60	3.8	2.7	1.7	2.4	5.3	2.5	4.1	4.2	5.1	5.7
o-Xylene	0.65		5.7	14	6.3	6.1	13	7.3	17	24	3.4	ND
Propylene	0.26		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Styrene	0.64		4.6	22	9.4	9.4	16	14	26	ND	5.3	ND
Tetrachloroethylene	1	30	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrahydrofuran	0.44		0.35J	0.83	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	0.57		120	160	55	56	51	20	49	35	9.8J	1.2
trans-1,2-Dichloroethene	0.59		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	0.68		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	0.81	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl acetate	0.53		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Bromide	0.66		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	0.38		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

[a] = From Table 3.1 in NYSDOH "Guidance for Evaluating Soil Vapor Intrusion in the State of New York", October 2006.

APPENDIX F
HUMAN HEALTH EXPOSURE ASSESSMENT (HHEA)

envirospec ENGINEERING, PLLC

349 Northern Boulevard Suite 3▪ Albany, NY 12204 ▪ Phone: 518.453.2203 ▪ Fax: 518.453.2204

A Woman Owned Business Enterprise (WBE)

HUMAN HEALTH EXPOSURE ASSESSMENT (HHEA)

South Island Apartments Site

1 Osgood Avenue/Center Island,

Town of Green Island, Albany County, New York

BCP Site # C401074

November 2017

Prepared for:

South Island Apartments, LLC
c/o Couch White, LLP
540 Broadway, 7th Floor
Albany, New York 12201-2222

Prepared by:

349 Northern Blvd. STE 3
Albany, NY 12205

Envirospec Engineering Project E17-1600

TABLE OF CONTENTS

TABLES

1.0 INTRODUCTION

A Qualitative Human Health Exposure Assessment was completed based on the data collected during the Remedial Investigation (RI). The assessment was completed based on the final remedy and development plan for the site, which will include an engineered cover for the site. The cover system will include a retaining wall, building foundations, at least two feet of clean fill and an asphalt cover. The details of the human health exposure assessment are discussed in the following sections.

2.0 CONTAMINANTS OF CONCERN

The primary contaminants of concern (COCs) at this site based on historical data and the 2017 RI investigation are metals, specifically lead, mercury, and arsenic, and SVOCs. There were isolated exceedances in groundwater for some VOCs, one location with PCBs, and three locations with low levels of pesticides. During the second sampling round, exceedances for total PCBs were observed in seven (7) wells. Total PCBs, however, were also detected at a similar level in the field equipment blank. This indicates possible contamination of equipment from the lab. Alternatively, the low levels could be attributed to the quality of the Hudson River, as PCBs were not a contaminant of concern across the site. Table 1 provides a list of compounds, including whether exceedances were detected above groundwater standards, RRSCOs, and/or CSCOs.

Table 1. Summary of Compounds Detected

Analyte	Exceedance(s) of Part 703 Groundwater Standard	Exceedance(s) of RRSCO	Exceedance(s) of CSCO
Metals			
Arsenic	**Yes**	**Yes**	**Yes**
Barium	No	**Yes**	**Yes**
Cadmium	No	**Yes**	No
Copper	No	**Yes**	**Yes**
Lead	No	**Yes**	**Yes**
Manganese	**Yes**	**Yes**	No
Mercury	No	**Yes**	**Yes**
SVOCs			
Benzo(a)anthracene	No	**Yes**	**Yes**

Benzo(a)pyrene	No	**Yes**	**Yes**
Benzo(b)fluoranthene	No	**Yes**	**Yes**
Benzo(k)fluoranthene	No	**Yes**	No
Chrysene	No	**Yes**	No
Dibenz(a,h)anthracene	No	**Yes**	**Yes**
Indeno(1,2,3-cd)pyrene	No	**Yes**	No
VOCs			
Benzene	**Yes**	No	No
Isopropylbenzene	**Yes**	No	No
SVOCs			
Phenol	**Yes**	No	No
PCBs and Pesticides			
Aldrin	**Yes**	No	No
Endrin	**Yes**	No	No
Total PCBs	**Yes**	No	No

Wells in the former loading rack area of the site are also impacted by Light Non-Aqueous Phase Liquid (LNAPL). Drawing R-6 in the RI Report shows the result of the data collected with the oil-water interface probe during the RI. The thicknesses of LNAPL for impacted wells are also summarized in Table 2.

Table 2. LNAPL thickness in well locations

Well	**Thickness of LNAPL layer (ft)**
MW-4	0.01
MW-5	1.23
MW-8	0.1
MW-9	0.1
MW-10	0.1
MW-11	0.1
MW-12	0.05
MW-16	0.05
MW-17	0.2
MW-18	0.45
MW-20	0.1

MW-21	0.1
MW-22	3.7
MW-23	1
MW-24	0.35
MW-25	2.1
MW-26	0.85
MW-27	0.2
MW-28	1.2

3.0 CHEMICAL FATE AND TRANSPORT

Based on the RI investigation, the primary concerns at this site in evaluating chemical fate and transport are metals, SVOCs, VOCs, and LNAPL. PCBs and pesticides are not considered a concern as they were not detected in soil above residential cleanup standards and are not considered to be associated with the fill at the site. Although VOCs were not detected above cleanup standards, they are evaluated here due to the former use of the site as a petroleum terminal. Each of these contaminant groups are discussed in the following sections.

3.1 Metals

Exceedances of RRSCOs and CSCOs for metals are primarily found in surface and subsurface soils with very few encountered in the deeper soil samples collected at the groundwater interface. There were no exceedances of groundwater standards for lead or mercury in the onsite monitoring wells sampled during the RI. The data collected to date does not indicate that migration of metals to groundwater is a significant transport pathway at this site, and contamination appears to be confined to the shallow soils.

3.2 SVOCs

Exceedances of RRSCOs and CSCOs for SVOCs are observed in surface and shallow subsurface soils. No exceedances were observed in soils sampled at the groundwater interface, and only one very low level exceedance of phenol was observed in one well during the second groundwater sampling event. Based on these results, SVOCs appear to be associated with fill material with no significant migration to other environmental media observed.

3.3 VOCs

No exceedances of soil cleanup objectives were observed for VOCs. Two groundwater exceedances were observed in the former loading rack area, one for benzene and one for isopropylbenzene. One location outside of the former loading rack area (MW-13) also showed an

exceedance for benzene in groundwater during the second sampling round. Both of these compounds are likely associated with historical usage of this area of the site. Soil vapor sampling across the site indicated the presence of BTEX (shown in Drawing R-7), which indicates that volatilization of BTEX from subsurface media is a complete migration pathway at this site.

3.4 PCBs and Pesticides

No exceedances of soil cleanup objectives were observed for PCBs or pesticides at this site. During the first groundwater sampling round, one exceedance of total PCBs and one exceedance for endrin were observed in MW-10, which is located near the loading rack area. During the second groundwater sampling round, seven (7) locations showed exceedances for total PCBs, three (3) locations showed exceedances for endrin, and one (1) location showed an exceedance for aldrin.

These detections are not consistent with soil data collected at this site. The PCB exceedances are likely due to the proximity to the Hudson River and intrusion of Hudson River water into groundwater due to tidal influences. There are no other indications at this site that PCBs are a contaminant of concern. The exceedances of aldrin and endrin were very low and did not correlate to soil data.

3.5 LNAPL

As shown in Table 2 and Drawing R-6, some wells onsite show a significant amount of LNAPL based on measurements completed with the oil-water interface probe and visual observations. The presence of LNAPL is further supported by elevated TPH data in soil samples near the former loading area and near MW-5.

There was no indication of LNAPL seeps in the Hudson River near the former loading rack area based on the sediment pore water sample data, so migration of LNAPL offsite does not appear to be a significant transport pathway. Some elevated TPH readings were also observed in soil borings in the former containment area of the site, including SB-3.

4.0 EXPOSURE PATHWAYS AND ROUTES OF EXPOSURE

The potential exposure pathways and routes of exposure are summarized in Table 3 and discussed for each exposure medium in the following sections. The conclusions regarding the potential for exposure are based on the development plan for the site where an engineered cover system will be installed across the entire site, including the banks. A Site Management Plan (SMP) will be developed and implemented long term that will address ground intrusive activities

following completion of remedial activities.

4.1 Surface Soil

The potential exposure routes considered for surface soils include dermal exposure, incidental ingestion, and inhalation of particulates. However, given that an engineered cover system will be installed across the site in all areas where contaminated surface soils could be exposed, the surface soils would not be contaminated after development and the exposure routes would not be relevant.

4.2 Subsurface Soil

The potential exposure routes considered for subsurface soils include dermal exposure, incidental ingestion, and inhalation of particulates.

4.2.1 Dermal Exposure

Potential dermal exposure to subsurface soils would be limited to onsite workers involved in ground-intrusive activities. This risk would be minimized through proper training of workers completing the work, the use of proper PPE during work activities, and use of appropriate decontamination procedures.

4.2.2 Incidental Ingestion

Potential incidental ingestion of subsurface soils would be limited to onsite workers involved in ground-intrusive activities. This risk would be minimized through proper training of workers completing the work, the use of proper PPE during work activities, and use of appropriate decontamination procedures.

4.2.3 Inhalation of Particulates

There is a potential for inhalation of particulates from contaminated subsurface soils during ground-intrusive activities. This risk would be addressed through air monitoring during any excavation or other ground-intrusive work and implementation of dust mitigation approaches, such as the usage of water trucks, as necessary.

4.3 Groundwater

The potential exposure routes for groundwater considered in this assessment include ingestion, dermal contact, and inhalation exposure. The primary areas of concern for groundwater would be the former loading rack area and along the roadway extending north from the former loading

rack to MW-5.

4.3.1 Ingestion of Groundwater

Groundwater at this site is not being used as a drinking water source. There is no plan to install private wells on the property and an environmental easement will be placed on the site prohibiting groundwater use. There is a potential risk for incidental ingestion of groundwater during ground-intrusive activities if deep excavations are completed (greater than a depth of approximately 22 ft bgs) or if groundwater were actively being pumped from the subsurface. These risks would be minimized through proper training of workers completing the work, the use of proper PPE during work activities, and the use of appropriate decontamination procedures.

4.3.2 Dermal Contact

The potential risk for direct dermal contact with groundwater at the site would be during active pumping of groundwater from onsite wells or during deep excavations, as discussed in Section 4.3.1. These risks would be minimized through proper training of workers completing the work, the use of proper PPE during work activities, and the use of appropriate decontamination procedures.

4.3.3 Inhalation Exposure

The potential risk for direct dermal contact with groundwater at the site would be during active pumping of groundwater from onsite wells or during deep excavations, as discussed in Section 4.3.1. Based on the results of groundwater monitoring, the areas of primary concern for inhalation risks would be the areas impacted by LNAPL, which are shown in Drawing R-6. These risks would be minimized through proper training of workers completing the work and the use of proper PPE during work activities.

4.4 Air

The exposure route of concern for air is the potential for inhalation due to soil vapor intrusion impacts to onsite buildings. Soil vapor sampling was completed at this site, which indicated the presence of contaminants, such as BTEX, that are consistent with the historical usage of the site. As a proactive measure, mitigation systems will be installed in any onsite buildings. Buildings that have parking garages below grade will be equipped with active ventilation systems in the garages that will minimize exposure to potential contamination from subsurface vapors onsite. Any background contamination present in the parking garages due to the operation of vehicles is outside the scope of this exposure assessment. Buildings to be installed on grade will be designed and constructed with a sub slab depressurization system (SSDS). The SSDS will be an

active system designed to mitigate potential soil vapor intrusion.

Table 3. Summary of Human Health Exposure Assessment.

Exposure Media and Route	Human Exposure Assessment
Direct contact with surface soils and incidental ingestion	People will not come into contact with contaminated surface soils after installation of engineered cover.
Direct contact with subsurface soils and incidental ingestion	Potential risk for contact when ground-intrusive work is completed onsite.
Ingestion of groundwater	Contaminated groundwater is not being used for drinking water or ancillary uses. Private wells will not be installed on the property. Potential of incidental ingestion during handling of groundwater during site activities.
Direct contact with groundwater	Potential risk for contact (via dermal and/or inhalation exposure) only if actively pumping/ removing groundwater from onsite wells or during deep excavations. Risk of contact during other ground-intrusive activities would be minimal given range of depth to groundwater of 22 to 32.7 feet bgs.
Inhalation of air (exposures related to soil vapor intrusion)	A mitigation system will be installed in any onsite buildings as a proactive measure. Buildings with parking garages below grade will be equipped with active ventilation systems. Buildings on grade will be constructed with active SSDSs,
Inhalation of particulates	Potential risk during ground-intrusive work. Air monitoring will be completed during excavation and other ground intrusive activities, as necessary.

5.0 RECEPTOR POPULATIONS

Based on the evaluation of the potential exposure pathways and routes at this site, the primary potentially exposed receptor populations include the following:

- Residential exposures, including potential exposure risks due to vapor intrusion and potential inhalation of particulates during ground-intrusive activities
- Onsite workers, including potential exposures during ground-intrusive activities

The planned mitigation of these exposure risks were discussed in Section 4.0 of this exposure assessment.

Other potential receptor populations could include patrons of commercial establishments onsite and people involved in recreational activities. However, the duration of exposure would be significantly shorter than onsite residents and would be mitigated through the same actions as discussed for potential residential exposures.

6.0 SUMMARY AND CONCLUSIONS

The primary COCs at this site are metals, including lead, mercury, and arsenic, and SVOCs. The presence of LNAPL in the loading rack area is also a concern in evaluating potential exposure routes. Given the plan to install an engineered cover of two (2) feet of clean fill across the site and the depth to groundwater of at least 22 feet bgs, potential human exposure risks to contamination at this site would be minimal and limited to potential soil vapor intrusion exposure, which will be addressed through installation of mitigation systems, and potential exposures during onsite ground-intrusive work, which will be addressed through air monitoring and proper training and health and safety procedures.

APPENDIX G
FISH AND WILDLIFE RESOURCE IMPACT ANALYSIS (FWRIA)

envirospec ENGINEERING, PLLC

349 Northern Boulevard Suite 3▪ Albany, NY 12204 ▪ Phone: 518.453.2203 ▪ Fax: 518.453.2204

A Woman Owned Business Enterprise (WBE)

FISH AND WILDLIFE RESOURCE IMPACT ANALYSIS (FWRIA)

South Island Apartments Site

1 Osgood Avenue/Center Island,

Town of Green Island, Albany County, New York

BCP Site # C401074

August 2018

Prepared for:

South Island Apartments, LLC
c/o Couch White, LLP
540 Broadway, 7th Floor
Albany, New York 12201-2222

Prepared by:

349 Northern Blvd. STE 3
Albany, NY 12205

Envirospec Engineering Project E17-1600

TABLE OF CONTENTS

TABLES

FIGURES

1.0 INTRODUCTION

A Fish and Wildlife Resources Impact Analysis (FWRIA) was completed for the site. Potential exposure pathways and potential impact on nearby resources was evaluated. The supporting information used to complete the analysis and form the conclusions regarding the potential for impacts are addressed in the following sections.

2.0 SITE MAPS

2.1 Topographic Map

The topographic maps of the site are provided in Figures 1 and 2. The maps illustrate areas on the National Wetlands Inventory and other significant habitats and waterways within one-half (1/2) mile of the site.

2.1.1 Habitats supporting rare, threatened or endangered species

According to Environmental Resource Mapper, habitats in the area include riverine, freshwater forested, and shrub wetland areas.

2.1.2 NYS-regulated wetlands

There are no NYS-regulated wetlands. However, there are two areas and a perimeter of a third freshwater forested/ shrub wetlands on the national inventory of wetlands.

2.1.3 Waterways

The primary waterway within one-half mile of the site is the Hudson River, which is Classification C. According to the Environmental Resource Mapper, there is also a Classification D stream and a Classification C stream within the one-half mile distance. The Hudson River is also a significant coastal fish and wildlife habitat area.

2.1.4 State Forests and Nature Preserves

There are no state forests or nature preserves located within one-half mile of the site.

2.2 Covertype Maps

The covertype maps are provided in Figure 1, 2, and 3 and focus on habitat areas within one-half mile of the site.

2.2.1 Terrestrial Habitats

The site is located in an urban environment. There are trees and shrubs in the area but mostly for privacy/scenery.

2.2.2 Freshwater Habitats

Freshwater habitats within one-half mile of the site include freshwater tidal swamps and wetlands on the national inventory that are not state-regulated.

2.2.3 Rare NYS Ecological Communities

Environmental Resource Mapper indicates that the entire area around the site contains rare ecological communities. Specific plant and animal species expected in this area are discussed in Section 3.0.

3.0 FISH AND WILDLIFE RESOURCES

3.1 Cover Types and Vegetative Species

The soil on the site is essentially bare, with the exception of the bank areas that have trees and understory plants. The soil on site consists mainly of a historic fill material with rocks, broken glass, bricks, debris and gravel. The surrounding area of the site is primarily an urban environment. However, the plant species that could be expected within one-quarter mile of the site, given the proximity to the Hudson River, are summarized below (USFWS 1997):

- Endangered:: Hudson River water nymph, American waterwort, blunt-lobe grape fern
- Threatened: Estuary beggar-ticks, golden seal, and heartleaf plantain
- Rare: Bickell's Sedge, Davis Sedge, Glaucous Sedge, Mock-pennyroyal, Schweinitz's flatsedge, and Weak Stellate Sedge
- Other vegetative species: water milfoil, water celery, water chestnut, common reed, narrow-leaved cattail, pondweeds, bur-reed, red maple, black ash, slippery elm, alders, arrowwood, poison ivy, ferns, knotweeds, and spotted jewelweed

3.2 Fish and Wildlife Species

The types of fish and wildlife species expected within one-quarter mile of the site include the following (USFWS 1997):

- Endangered: Peregrine falcons, shortnosed sturgeon, atlantic sturgeon, Indiana Bat, Karner blue butterfly, and short-eared owl
- Threatened: American bald eagle, Northern Harrier, and Upland sandpiper
- Species of special concern: Spotted turtle, wood turtle, Cooper's hawk, common nighthawk, vesper sparrow
- Other fish and wildlife species: American shad, American eel, beetles, black bass, black crappie, black ducks, blue herring, brown billhead, caddisfly, Canadian geese, Carolina locusts, clams, common carp, coyote, crayfish, gnats, goldfish, herons, mallards, mayflies, midges, mosquitoes, mussels, northern pike, passerine birds, pumpkinseed, raptors, rodents, shore birds, smallmouth bass, snails, spiders, squirrels, striped bass, stoneflies, sunfish, true flies, waterfowl, white catfish, white sucker, yellow perch.

3.3 Observations of Stress

There are potential observations of stress based on limited plant growth and the condition of trees previously present on the banks of the site. This is likely due to the general condition of the fill material, which includes a significant amount of gravel and brick. This material is not conducive to healthy plant growth.

3.4 Fish or Wildlife Consumption Advisories

The Hudson River in the area of the site has a fish consumption advisory related to PCBs. The details of this advisory are as follows (NYSDOH 2017):

- Women under 50 and children under 15 should not eat any fish from the Hudson River.
- Men over 15 and Women over 50 – one meal per month of one of the following species: alewife, blue herring, rock bass, or yellow perch. They should not consume any other species of fish from this section of the Hudson River.

3.5 Ability to Support Fish and Wildlife

The area is known to be able to support fish and wildlife based on field observations of American bald eagles, coyotes, rabbits, raccoons and squirrels in the area. The Hudson River is a known habitat area for aquatic species.

3.6 Use of Resources by Humans

The site area will be developed for mixed commercial and residential use, and hunting will not be occurring on the property. The Hudson River is used for recreational activities and fishing, though there are limitations on fish consumption in this area, as discussed in Section 3.4.

4.0 PATHWAY ANALYSIS

Potential ecological exposure pathways are summarized in Table 1. The table summarizes whether a pathway could be complete at this site. No conclusions are provided in this table regarding the potential for adverse impacts or the significance of potential exposure.

Table 1. Review of Potential Exposure Pathways.

Medium	Exposure	Route of Exposure	Pathway	Pathway Potentially Complete
Surface Soil	Direct Contact	Ingestion	Ingestion of soils containing contaminants by wildlife and soil organisms	No. The site will have an engineered cover system. Surface soils post development will not be contaminated.
Surface Soil	Direct Contact	Dermal	Dermal contact with soil containing contaminants by wildlife and soil organisms.	No. The site will have an engineered cover system. Surface soils post development will not be contaminated.
Subsurface Soil	Direct Contact	Ingestion	Ingestion of soils containing contaminants by wildlife and soil organisms	Yes. Ingestion is possible by soil macro-organisms and micro-organisms.
Subsurface Soil	Direct Contact	Dermal	Dermal contact with soil containing contaminants by wildlife and soil organisms.	Yes. Dermal contact with contaminated soil is possible by soil macro-organisms and micro-organisms.
Bank Surface Soils	Direct Contact	Ingestion	Ingestion of soils containing contaminants by wildlife and soil organisms	No. The site will have an engineered cover system. Surface soils post development will not be contaminated.
Bank Surface Soils	Direct Contact	Dermal	Dermal contact with soil containing contaminants by wildlife and soil organisms.	No. The site will have an engineered cover system. Surface soils post development will not be contaminated.
Bank Subsurface Soils	Direct Contact	Ingestion	Ingestion of soils containing contaminants by wildlife and soil organisms.	Yes. Ingestion is possible by soil macro-organisms and micro-organisms.
Bank Subsurface Soils	Direct Contact	Dermal	Dermal contact with soil containing contaminants by wildlife and soil organisms.	Yes. Dermal contact with contaminated soil is possible by soil macro-organisms and micro-organisms.
Sediments	Direct Contact	Ingestion	Ingestion of sediments containing contaminants by wildlife and fish.	Yes. Ingestion of contaminants in sediment by wildlife and fish is possible

Medium	Exposure	Route of Exposure	Pathway	Pathway Potentially Complete
Sediments	Direct Contact	Dermal	Dermal contact with sediments containing contaminants by wildlife and fish.	Yea. Dermal contact with sediments containing contaminants by wildlife and fish.
Plants	Soil to Plants that grow below cover (Bio-concentration)	Ingestion	Plants incorporating contaminants from soil are ingested by wildlife and soil organisms.	Yes. Wildlife and soil organisms may ingest contaminated plant biomass.
Soil Fauna	Soil to Soil Fauna (Bio-concentration)	Ingestion	Soil fauna (e.g. insects, worms, etc.) which have incorporated contaminants from soil are consumed by wildlife.	Yes. Soil fauna having incorporated contaminants from contaminated soil may be ingested by wildlife.
Sediment Fauna	Sediment to Sediment Fauna (Bio-concentration)	Ingestion	Sediment fauna which have incorporated contaminants from the sediment are consumed by wildlife.	Yes. Sediment fauna which have incorporated the contaminants from the sediment may be consumed by terrestrial and aquatic wildlife.
Prey Animals	Plants to Prey Animals (Bio-Magnification) Mercury	Ingestion	Prey animals which have ingested contaminants from land and aquatic plants are consumed by predators.	Yes. Prey animals which have ingested the contaminants from the land and aquatic plants may be consumed by predators.
Prey Animals	Soil Fauna to Prey Animals (Bio-concentration)	Ingestion	Prey animals which have ingested soil fauna containing the contaminants may be consumed by predators.	Yes. Prey animals which have ingested soil fauna containing the contaminants may be consumed by predators.
Prey Animals	Sediment Fauna to Prey Animals (Bio-magnification) Mercury	Ingestion	Prey animals which have ingested sediment fauna containing contaminants are consumed by predators.	Yes. Prey animals which have ingested sediment fauna containing contaminants may be consumed by predators.

Surface soils, both on the main part of the site and the bank, will be covered with at least two (2) feet of clean fill, a retaining wall, building foundations or an asphalt cover. Therefore, direct contact with soils will not be a concern post development.

The potentially complete pathways that could lead to bioaccumulation of contaminants through the terrestrial food chain include the following:

- Ingestion of soil organisms that have consumed contaminants

- Ingestion of plants that have accumulated contaminants through root systems that extend below the two feet of clean fill material.
- Direct ingestion of contaminated sediment.
- Ingestion of sediment fauna that have consumed contaminated sediment
- Predators consuming prey that has ingested contaminants through ingestion of soil organisms, sediment, sediment fauna, and/or plants

The potential for exposure related to these pathways, with the exception of contaminated sediments, would be minimized or eliminated by the installation of the engineered cover across the site. However, soil organisms and some plant root systems can be exposed to soils below two feet into the subsurface, so these pathways cannot be completely eliminated

The potentially complete pathways that could lead to bioaccumulation of contaminants through the aquatic food chain include the following:

- Direct ingestion of contaminated sediments
- Ingestion of sediment fauna that have ingested contaminated sediments
- Predators consuming prey that has ingested contamination through ingestion of sediment and/or sediment fauna

To determine the significance of these pathways, the specific contaminants, their environmental fate, and toxicity need to be considered. These considerations are discussed further in Section 5.0.

5.0 CONTAMINANTS OF ECOLOGICAL CONCERN

To determine the potential contaminants of ecological concern and the likelihood of a potential adverse impact, site data were first compared to relevant standards. The exceedances were then evaluated in the context of the exposure pathways of concern at the site, which were discussed in Section 4, and the toxicity of the contaminants to determine the potential for adverse impacts to fish and wildlife. The results of this evaluation are discussed in the following sections.

5.1 Comparison to Relevant Standards

The data for surface soil, subsurface soil, bank, and sediment samples were compared to the relevant ecological standards. Soil and bank samples were compared to the NYCRR Part 375 SCOs for Protection of Ecological Resources and CP-51 Supplemental SCOs for Protection of Ecological Resources. The results of this comparison are provided in Table 2.

The contaminants at the site are consistent with those found in historical fill. There were no

source areas of metals or SVOC contamination identified. LNAPL was identified in the former loading rack and MW-5 areas of the site, which was addressed through the DEC-approved IRM.

Sediment sample results were compared to the SGVs from the NYSDEC *Screening and Assessment of Contaminated Sediment* (NYSDEC 2014) document. Sediment samples only showed exceedances of SGVs for metals, which are summarized in Table 3. Lead exceeded the Class C SGV (130 mg/kg) at SE-7, where it was detected at 142 mg/kg. The toxic effects of PAHs are expected to be additive, and the sum of the concentrations of PAHs needs to be compared to the SGV of 4 mg/kg. None of the sampling locations exceeded this total value for PAHs.

Table 2. Comparison of soil data to Ecological Soil Cleanup Objectives.

Analyte	Exceeds Ecological SCO in 0 to 6" bank sample(s)?	Exceeds Ecological SCO in 6" to 2' bank sample(s)?	Exceeds Ecological SCO in surface soils sample(s)?	Exceeds Ecological SCO in subsurface soils sample(s)?
Metals				
Aluminum	**Yes (2)**	**Yes (3)**	**Yes (13)**	**Yes (18)**
Antimony	No	No	No	**Yes (2)**
Arsenic	**Yes (1)**	**Yes (4)**	**Yes (8)**	**Yes (20)**
Barium	No	**Yes (1)**	No	**Yes (2)**
Cadmium	No	No	No	**Yes (1)**
Calcium	**Yes (7)**	**Yes (7)**	**Yes (7)**	**Yes (18)**
Chromium	**Yes (9)**	**Yes (9)**	**Yes (18)**	**Yes (36)**
Cobalt	**Yes (1)**	**Yes (1)**	**Yes (2)**	No
Copper	**Yes (6)**	**Yes (4)**	**Yes (11)**	**Yes (31)**
Lead	**Yes (8)**	**Yes (9)**	**Yes (15)**	**Yes (33)**
Manganese	No	No	**Yes (1)**	**Yes (2)**
Mercury	**Yes (7)**	**Yes (8)**	**Yes (13)**	**Yes (28)**
Nickel	**Yes (3)**	**Yes (3)**	**Yes (9)**	**Yes (13)**
Selenium	No	No	No	**Yes (2)**
Silver	**Yes (7)**	**Yes (6)**	**Yes (12)**	**Yes (25)**
Thallium	No	No	No	**Yes (1)**
Vanadium	No	No	**Yes (3)**	**Yes (3)**
Zinc	**Yes (9)**	**Yes (9)**	**Yes (16)**	**Yes (29)**
SVOCs				

Analyte	Exceeds Ecological SCO in 0 to 6" bank sample(s)?	Exceeds Ecological SCO in 6" to 2' bank sample(s)?	Exceeds Ecological SCO in surface soils sample(s)?	Exceeds Ecological SCO in subsurface soils sample(s)?
Benzo(a)pyrene	**Yes (1)**	**Yes (1)**	No	**Yes (1)**
Di-n-butylphthalate	**Yes (2)**	No	No	No
Pesticides				
4,4'-DDD	**Yes (3)**	**Yes (6)**	**Yes (3)**	**Yes (3)**
4,4'-DDE	No	No	**Yes (2)**	**Yes (1)**
4,4'-DDT	**Yes (4)**	**Yes (7)**	**Yes (5)**	**Yes (4)**
Dieldrin	No	No	**Yes (1)**	**Yes (1)**

Table 3. Comparison to Sediment Guidance Values

Analyte	Within Class B SGV Range?	Class C Exceedances
Copper	**Yes, 2 locations**	No
Lead	**Yes, 1 location**	**Yes, 1 location**
Mercury	**Yes, 1 location**	No
Silver	**Yes, 5 locations**	No
Zinc	**Yes, 1 location**	No

5.2 Contaminants Relevant to Exposure Pathways

The contaminants relevant to the potential exposure pathways in each media are discussed in the following sections for soils, bank samples, and sediments.

Table 4. Contaminants Exceeding Standards or Guidance Values

Exposure Medium	Potentially relevant pathways	Contaminants Exceeding Relevant Standards or Guidance Values
Subsurface Soils	- Direct ingestion of contaminants by soil organisms - Dermal contact with contaminants by soil organisms - Accumulation in plants with roots extending below the two (2) foot layer of clean fill - Ingestion of soil organisms by wildlife - Ingestion of plants with roots extending below the two (2) foot layer of clean fill by wildlife	- Metals: aluminum, antimony, arsenic, barium, cadmium, calcium, chromium, cobalt, copper, lead, manganese, mercury, nickel, selenium, silver, thallium, vanadium, and zinc - SVOCs: Benzo(a)pyrene - Pesticides: 4,4'-DDD, 4,4'-DDE, 4,4'-DDT, and dieldrin

Exposure Medium	Potentially relevant pathways	Contaminants Exceeding Relevant Standards or Guidance Values
	- Predators consuming prey that has ingested soil organisms and/or plants	
Bank Subsurface Soils	- Direct ingestion of contaminants by soil organisms - Dermal contact with contaminants by soil organisms - Accumulation in plants with roots extending below the two (2) foot layer of clean fill - Ingestion of soil organisms by wildlife - Ingestion of plants with roots extending below the two (2) foot layer of clean fill by wildlife - Predators consuming prey that has ingested soil organisms and/or plants	- Metals: aluminum, arsenic, barium, calcium, chromium, cobalt, copper, lead, mercury, nickel, silver, and zinc - SVOCs: Benzo(a)pyrene and di-n-butylphthalate - Pesticides: 4,4'-DDD and 4,4'-DDT
Sediment	- Ingestion of sediments containing contaminants by wildlife and fish. - Dermal contact with sediments containing contaminants by wildlife and fish. - Sediment fauna which have incorporated contaminants from the sediment are consumed by wildlife.	- Metals: Lead

5.2.1 Subsurface Soils

Soils currently at the surface of the site would be covered by at least two (2) feet of clean fill after development or an alternate engineered cover. Therefore, the surface soils after installation of the engineered cover would be clean, and the exceedances observed for surface soils data collected during the RI should only be considered relevant to the subsurface soil exposure pathways, which are summarized in Table 4. The potential contaminants that could be relevant to these pathways are also included in the table. The list of contaminants is based on the exceedances summarized in Table 2 for surface and subsurface sampling data from the RI.

5.2.2 Bank Samples

Soils currently at the surface of the bank would also be covered with at least two (2) feet of clean fill or an alternate engineered cover after development. Therefore, as for the soils across the rest of the site, only the subsurface soil exposure pathways are potentially complete at this site, which are also provided in Table 4. The list of contaminants is based on the exceedances summarized in Table 2 for surface and subsurface bank sampling data from the RI.

5.2.3 Sediment Samples

As discussed in Section 5.1, the Class C SGV for lead was exceeded at one location, and some locations showed metals concentrations within the Class B SGV ranges. Potentially relevant pathways for the sediment at this site are summarized in Table 4.

Direct comparison of sediment concentrations to SGV values has limitations, as discussed in the SGV guidance, and should not be used as the only indicator of the potential for adverse effects. The bioavailability of metals is correlated more to the concentrations in interstitial pore water (NYSDEC 2014).

One pore water sample was collected at this site, and no exceedances of the Class C aquatic chronic NYCRR 703.5 surface water standards were observed.

5.3 Potential Effects on Fish and Wildlife

5.3.1 Metals

An overview of the potential effects of the metals listed in Table 4 on fish and wildlife species is provided in Table 5. Effects in the aquatic food chain are only included for lead because no other metals exceeded the Class C SGV.

As discussed in Section 5.2.3, the potential for adverse effects of metals is dependent on the bioavailability of a given metal. The availability of a given metal in the environment is dependent on many factors, such as speciation, the ability of the metal to form complexes or to sorb strongly to subsurface soils or sediments, pH, and redox conditions. Therefore, the potential for toxic effects to fish and wildlife cannot be solely based on comparison to SCOs. The lead levels at the site are consistent with lead levels found in historic fill. No source area of lead was identified. With the engineered cover, the risk to fish and wildlife will be minimized.

5.3.2 SVOCs

An overview of the potential effects of benzo(a)pyrene and di-n-butylphthalate on fish and wildlife species is provided in Table XX5. Though some bioaccumulation in some aquatic species have been observed for both of these compounds, biomagnification in terrestrial food chains is not expected. Bioaccumulation through aquatic food chains is not relevant to these compounds at this site given the lack of exceedances of SGVs. A limited source area of SVOCS was identified at the site. However, the area was small and levels were not signficaintly elevated. Based on the low levels and limited area identified, SOVCs are not a significant risk to fish and wildlife.

5.3.3 Pesticides

An overview of potential effects of 4,4'-DDD, 4,4'-DDE, 4,4'-DDT, and dieldrin on fish and wildlife species is provided in Table 5. Though DDD, DDE, DDT, and dieldrin are known to bioaccumulate and biomagnify through aquatic food chains, this pathway is not relevant at this site given that exceedances were only observed in soils. There are some indications of bioavailability of DDD, DDE, and DDT to some plants. Dieldrin is known to biomagnify through terrestrial food chains. No source area of pesticides was identified at the site. The levels found were low and pesticides were not identified as a contaminant of concern for this site. Therefore, the risk to fish and wildlife is minimal.

Table 5. Summary of Potential Effects of Contaminants on fish and wildlife.

Analyte	Potential Effects of Contaminant on Fish and Wildlife	References
Aluminum	Does not bioaccumulate to a significant extent.	ATSDR 2008
Antimony	Can accumulate through plant root systems.	ATSDR 2017
Arsenic	Plants can accumulate, but generally at low levels	ATSDR 2007
Barium	Very little accumulation observed in terrestrial plant species.	ATSDR 2007a
Cadmium	Bioaccumulates terrestrial species and plants. Evidence for biomagnification is inconclusive.	ATSDR 2012
Chromium	Not expected to bioaccumulate or biomagnify significantly through terrestrial food chain.	ATSDR 2012a
Cobalt	Can accumulate in roots of plants, but not likely to translocate from root to the above ground plant to significant extent.	ATSDR 2004
Copper	Little evidence of bioaccumulation in low levels of the terrestrial food chain. Biomagnification in the food chain is not expected.	ATSDR 2004a
Lead	Bioconcentration may occur in aquatic species and terrestrial plants and animals, but biomagnification is not expected.	ATSDR 2007b
Mercury	Can accumulate in plants but the availability of mercury to organisms through terrestrial exposure is inconclusive. Can accumulate in earthworms.	WHO 1989
Nickel	Some accumulation in plants has been observed but biomagnification terrestrial food chains not expected.	ATSDR 2005

Analyte	Potential Effects of Contaminant on Fish and Wildlife	References
Selenium	Uptake by plants may be observed.	ATSDR 2003
Silver	Uptake by plants is low. Biomagnification is not expected.	WHO 2002
Thallium	Some accumulation in plants may be observed.	ATSDR 1992
Vanadium	Some accumulation in terrestrial plant roots, with relatively little in aboveground parts of plants. Human studies suggest that biomagnification is unlikely.	ATSDR 2012b
Zinc	Essential nutrient that occurs in tissues of organisms. Biomagnification is not expected.	ATSDR 2005a
Benzo(a)pyrene	Uptake to plants and subsequent biomagnification is low. May be some accumulation through ingestion of soil or soil organisms in terrestrial food chain.	ATSDR 1995
Di-n-butylphthalate	Biomagnification in terrestrial animals is unlikely given ability to metabolize it.	WHO 1997
4,4'-DDD	Bioavailable to plants.	ATSDR 2002a
4,4'-DDE	Bioavailable to plants.	ATSDR 2002a
4,4'-DDT	Bioavailable to plants. Soil bound DDT is bioavailable to earthworms.	ATSDR 2002a
Dieldrin	Bioconcentrates and biomagnifies in terrestrial food chains.	ATSDR 2002

6.0 SUMMARY AND CONCLUSIONS

Though potentially complete pathways were identified in the FWRIA, there were no source areas of contamination identified at the site during the RI. Levels of metals identified were expected, as the site consists primarily of historical fill material. The final remedy for the site will be an engineered cover system which will eliminate the most probable route of exposure for fish and wildlife. Impacts from source contamination to the Hudson River from the site were not identified, as there were no source areas found. The impacts to the Hudson River are those associated with the historical fill and do not require mitigation. Based on these findings, no additional ecological assessment is needed.

7.0 REFERENCES

ATSDR. 1990. Toxicological Profile for Silver. https://www.atsdr.cdc.gov/toxprofiles/tp146.pdf

ATSDR. 1992. Toxicological Profile for Thallium.
https://www.atsdr.cdc.gov/toxprofiles/tp54.pdf

ATSDR. 1995. Toxicological Profile for Polycyclic Aromatic Hydrocarbons.
https://www.atsdr.cdc.gov/toxprofiles/tp69.pdf

ATSDR. 1999. Toxicological Profile for Mercury.
https://www.atsdr.cdc.gov/toxprofiles/tp46.pdf

ATSDR. 2002. Toxicological Profile for Aldrin/ Dieldrin.
https://www.atsdr.cdc.gov/toxprofiles/tp1.pdf

ATSDR. 2002a. Toxicological Profile for DDT, DDE, and DDD.
https://www.atsdr.cdc.gov/toxprofiles/tp35.pdf

ATSDR. 2003. Toxicological Profile for Selenium.
https://www.atsdr.cdc.gov/toxprofiles/tp92.pdf

ATSDR. 2004. Toxicological Profile for Cobalt. https://www.atsdr.cdc.gov/toxprofiles/tp33.pdf

ATSDR. 2004a. Toxicological Profile for Copper.
https://www.atsdr.cdc.gov/toxprofiles/tp132.pdf

ATSDR. 2005. Toxicological Profile for Nickel. https://www.atsdr.cdc.gov/toxprofiles/tp15.pdf

ATSDR. 2005a. Toxicological Profile for Zinc. https://www.atsdr.cdc.gov/toxprofiles/tp60.pdf

ATSDR. 2007. Toxicological Profile for Arsenic. https://www.atsdr.cdc.gov/toxprofiles/tp2.pdf

ATSDR. 2007a. Toxicological Profile for Barium and Barium Compounds.
https://www.atsdr.cdc.gov/toxprofiles/tp24.pdf

ATSDR. 2007b. Toxicological Profile for Lead. https://www.atsdr.cdc.gov/toxprofiles/tp13.pdf

ATSDR. 2008. Toxicological Profile for Aluminum.
https://www.atsdr.cdc.gov/toxprofiles/tp22.pdf

ATSDR. 2012. Toxicological Profile for Cadmium.
https://www.atsdr.cdc.gov/toxprofiles/tp5.pdf

ATSDR. 2012a. Toxicological Profile for Chromium.
https://www.atsdr.cdc.gov/toxprofiles/tp7.pdf

ATSDR. 2012b. Toxicological Profile for Vanadium.
https://www.atsdr.cdc.gov/toxprofiles/tp58.pdf

ATSDR. 2017. Toxicological Profile for Antimony and Compounds. Draft for Public Comment.
https://www.atsdr.cdc.gov/toxprofiles/tp23.pdf

NYSDEC. 2014. Screening and Assessment of Contaminated Sediment.
http://www.dec.ny.gov/docs/fish_marine_pdf/screenasssedfin.pdf

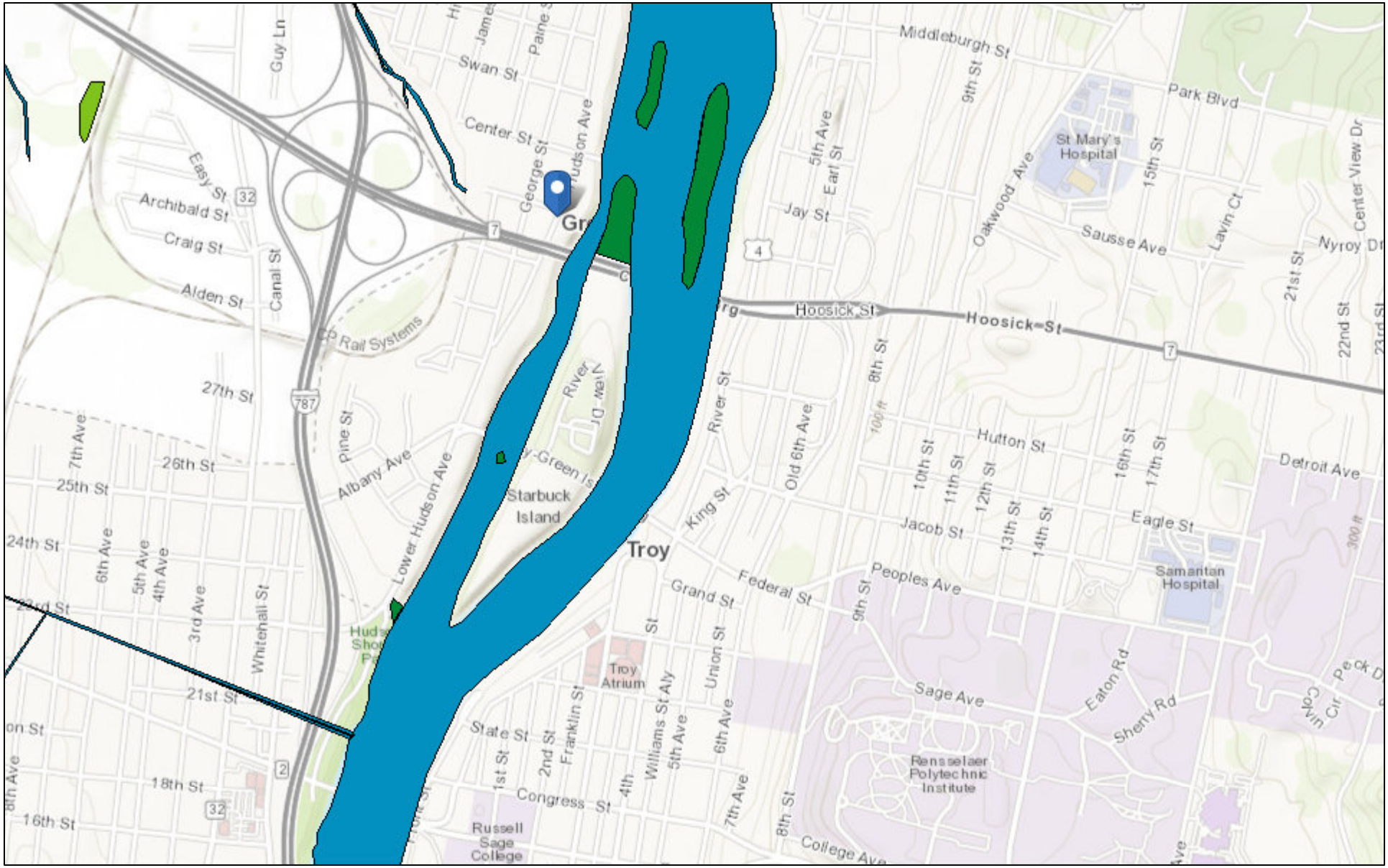
NYSDOH. 2017. Hudson River: Health Advise on Eating Fish You Catch.
https://www.health.ny.gov/publications/2794.pdf
U.S. Fish and Wildlife Service (USFWS). 1997. Significant Habitats and Habitat Complexes of the New York Bight Watershed, Upper Hudson River Estuary Complex #33, *Upper Hudson River Estuary – National Conservation Training Center,*
https://nctc.fws.gov/pubs5/web_link/text/upp_hud.htm

WHO. 1989. Environmental Health Criteria 86. Mercury – Environmental Aspects.
http://www.inchem.org/documents/ehc/ehc/ehc086.htm

WHO. 1997. Environmental Health Criteria 189. Di-n-butyl Phthalate.
http://www.inchem.org/documents/ehc/ehc/ehc189.htm

WHO. 2002. Concise International Chemical Assessment Document 44. Silver and Silver Compounds: Environmental Aspects. http://www.who.int/ipcs/publications/cicad/en/cicad44.pdf

Figure 1 - Environmental Resource Mapper - National Wetlands Inventory



- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine

1:18,056

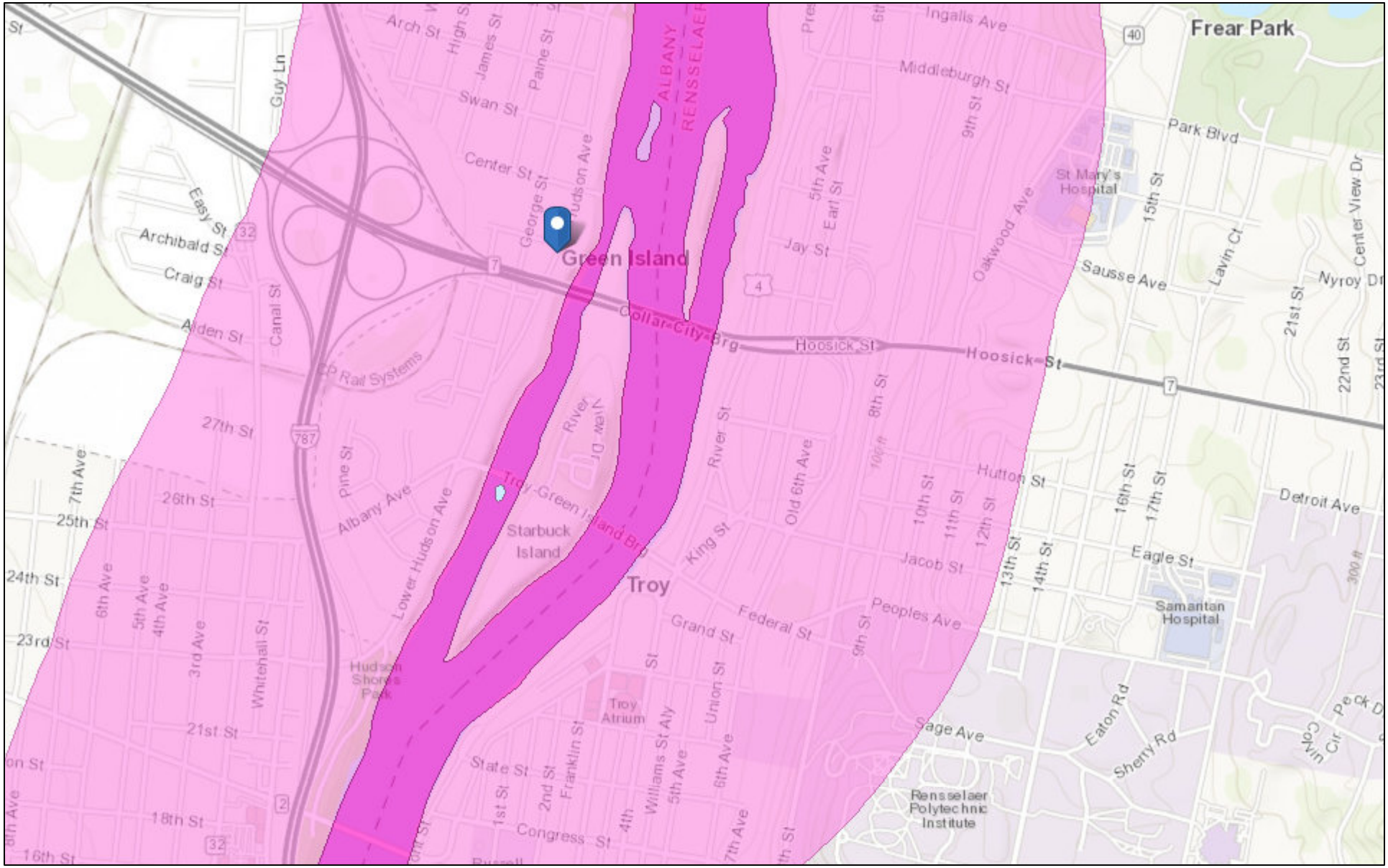
0 0.15 0.3 0.6 mi

0 0.25 0.5 1 km

Sources: Esri, HERE, DeLorme, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey,

NYS Department of Environmental Conservation
Not a legal document

Figure 2 - Environmental Resource Mapper - Significant Natural Communities



1:18,056

0 0.15 0.3 0.6 mi

0 0.25 0.5 1 km

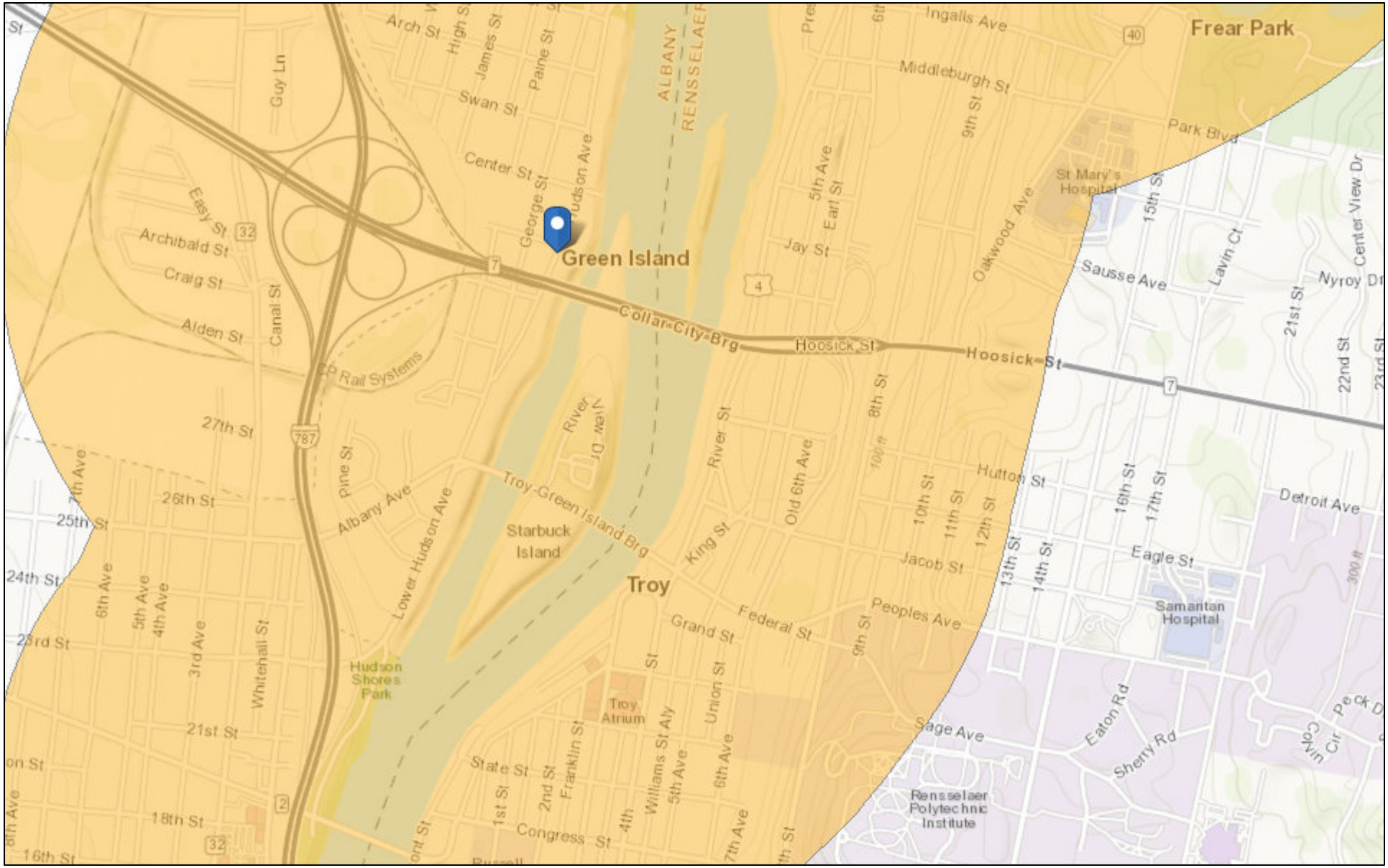
Significant Natural Communities

Natural Communities Near This Location

Sources: Esri, HERE, DeLorme, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey,

NYS Department of Environmental Conservation
Not a legal document

Figure 3 - Environmental Resource Mapper - Rare Species Locations



1:18,056

0 0.15 0.3 0.6 mi

0 0.25 0.5 1 km

Sources: Esri, HERE, DeLorme, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey,

NYS Department of Environmental Conservation
Not a legal document

APPENDIX H
DATA USABILITY SUMMARY REPORT (DUSR)
(SEPARATE ELECTRONIC FILE)

envirospec ENGINEERING, PLLC

349 Northern Boulevard Suite 3▪ Albany, NY 12204 ▪ Phone: 518.453.2203 ▪ Fax: 518.453.2204

A Woman Owned Business Enterprise (WBE)