



**Site Characterization
Report: Wainscott Sand
and Gravel
(NYSDEC Site Code 152254)**

**NYSDEC Standby Engineering Contract
Work Assignment #D007625-51**

**Prepared For:
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Conservation
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1.0 Introduction

The New York State Department of Environmental Conservation (NYSDEC) issued Work Assignment 51 (WA 51) to Henningson, Durham & Richardson Architecture and Engineering, P.C. (HDR) to perform a Site Characterization (SC) under Standby Engineering Contract D007625 for the Wainscott Sand and Gravel Site (NYSDEC Site Code 152254). NYSDEC has evaluated the Wainscott Sand and Gravel State Superfund Site as a Class P site as there is potential for concern about site contamination.

1.1 Site Location

The property characterized during this investigation is located at Wainscott Sand and Gravel off Georgica Drive in East Hampton, in southeastern Suffolk County, New York as shown in Figure 1. The 70-acre property is located between the Long Island Railroad to the north, Montauk Highway (New York Route 27) to the south, Hedges Lane to the east, and Wainscott Northwest Road to the west. The land use to the west, south and east is residential and the East Hampton Airport and East Hampton Industrial Park are located north of Long Island Railroad. The site is mostly open land with some commercial and industrial facilities in the southern portion of the property, and lies in a depression due to its former use as a sand and gravel mine.

2.0 Physical Setting

2.1 Geology

The site is located in southeastern Suffolk County, off Georgica Drive in the Town of East Hampton. The geology in the region is outwash sand and gravel on the Surficial Geologic Map of New York (Cadwell et al. 1986). Soils onsite are mapped as Carver and Plymouth sands, cut and fill land, gently sloping, gravel pits, and Plymouth loamy sand (USDA 2020). During soil sampling, material encountered onsite was mainly sandy and with some gravel and cobbles. None of the sampling locations confirmed depth to bedrock and obvious outcrops were not noted in the vicinity of the site. The area is mapped as coastal plain deposits (Km) on the Bedrock Map of New York State (Fisher et al. 1970), therefore depth to bedrock is not anticipated to be significant.

2.2 Hydrogeology

Groundwater was identified from approximately six (6) to 15 feet below ground surface throughout the Site as measured from groundwater monitoring wells onsite. The regional ground water flow direction is to the southeast towards Georgica Pond (approximately 1,000 feet from the Site) (NYSDEC 2020).

3.0 Field Activities

HDR initiated a subsurface investigation with drilling subcontractor Associated Environmental Services, Ltd. (AES) from Hauppauge, NY. The soil and groundwater efforts were completed November 4 through 8, and 11 through 14, 2019. Photo logs providing visual references for the various field activities are presented in Appendix A. Analytical data results from the various samples were returned from the respective laboratories by December 2019, and analytical data summary packages are provided within Appendix B. The data were validated by Data Validation Services of North Creek, NY during May 2020, and a Data Usability Summary Report for the analyses is presented within Appendix C.

Detailed descriptions of each phase of the investigation are outlined in the sections that follow. The HDR field staff were in contact with the HDR project manager on a daily basis, and site activities were routinely discussed.

All field work for this site characterization was completed in accordance with HDR's program-specific Field Activities Plan (FAP) and Quality Assurance Project Plan (QAPP). Sample collection efforts for this SC consisted of the following:

- Collection of soil and groundwater samples from nine locations using direct-push drilling technology;
- Surface and shallow-soil sampling at 23 locations throughout the site;
- Composite soil sampling at 12 soil piles located throughout the site;
- Collection of a single grab sample from a debris pile as directed by the NYSDEC; and
- Collection of groundwater samples from eight (8) existing on-site groundwater monitoring wells.

Sampling locations are shown on Figure 2, attached. The scope of work conducted is described in more detail in the following sections.

3.1 Direct Push Soil Sampling

HDR collected soil and groundwater samples at nine locations using a GeoProbe® 6610DT rig to advance borings at nine locations to a maximum depth of 20 feet below groundwater interface (Figure 2). These direct push borings used a 4 foot Macro-Core® sampler with dedicated acetate liners to collect soil samples for field screening and submittal for laboratory analysis. In particular, inspection of each soil core involved descriptions of soil composition and depositional characteristics, determination of the presence of unusual odors and staining, and detection of organic vapors via headspace analysis using a 5-gas MultiRAE photoionization detector (PID). Three soil samples from each Macro-Core® were collected for laboratory analysis for a total of 27 direct push soil samples, excluding field duplicates. From each core, a surface (0 – 2.4 in) soil sample, a shallow subsurface (0.5' – 2') soil sample, and a deep (1' – 3' above groundwater interface) soil sample were collected. All 20 surface and shallow subsurface soil samples including two field duplicates were analyzed for TAL metals, VOCs, SVOCs, PCBs,

pesticides, herbicides, PFAS, and 1,4-dioxane. The ten deep soil samples, including one field duplicate, were analyzed for PFAS only.

Between probing locations, the probe tooling was decontaminated using a bucket wash with Alconox® detergent and clean water rinse.

Boring logs were not completed for each sampling location during this sampling event but general soil characteristics were logged in the project field notes. These notes included a description of soils along with PID readings and other observations of potential significance noted during the screening of the cores. These field notes were transcribed into digital boring logs and are presented in Appendix D.

3.2 Surface and Shallow Subsurface Soil Sampling

In addition to groundwater and soil probe samples, HDR and NYSDEC selected 23 surface and shallow subsurface soil locations. At each location, the top 0 – 2.4 in of surface soil and the shallow subsurface (0.5' – 2') soils were collected with a stainless steel spoon, containerized in laboratory-provided glassware, and submitted for laboratory analysis. Twenty-three surface soil samples plus one field duplicate, and twenty-three shallow subsurface soil samples for a total of 47 surface and shallow subsurface soil samples were collected across the site for laboratory analysis. All 47 samples at the 23 locations were analyzed for PFAS; eight samples from four locations in the vicinity of existing site structures in the southern portion of the site were analyzed for TAL metals, VOCs, SVOCs, PCBs, pesticides, herbicides, PFAS, and 1,4-dioxane. The stainless steel spoon was decontaminated using a bucket wash with Alconox® detergent and clean water rinse between each sampling location.

3.3 Composite Soil Sampling from Soil Piles

In addition to soil probe, surface, and shallow subsurface samples, twelve composite samples were collected from soil piles located in the northern portion of the site. Soil samples were composited from three locations near the base and central portions of the piles within 5 to 10 feet of each of the twelve points selected by NYSDEC. Soils were collected with stainless steel spoons into stainless steel bowls, mixed and homogenized, and containerized for laboratory analysis. All twelve soil samples plus one field duplicate for a total of thirteen samples were analyzed for metals, VOCs, SVOCs, PCBs, pesticides, herbicides, PFAS, and 1,4-dioxane. The stainless steel spoons and bowls were decontaminated using a bucket wash with Alconox® detergent and clean water rinse between each sampling location.

3.4 Grab Soil Sampling from Debris Pile

Based on a previous site visit, the NYSDEC Project Manager selected two additional site features from which to collect supplementary grab samples. The first of these features was a pile of debris in the central portion of the site, while the second feature was a pool of

green water in the southwestern portion of the site. HDR containerized a grab sample into laboratory-supplied glassware for metals, VOCs, SVOCs, PCBs, pesticides, herbicides, PFAS, and 1,4-dioxane analysis at the debris pile; however, HDR was unable to collect a grab sample of the green water as it was not observed during the field investigation. The grab soil sample was collected with a stainless steel spoon and decontaminated using a bucket wash with Alconox® detergent and clean water rinse.

3.5 Discrete Direct Push Groundwater Probe Sampling

Discrete direct push groundwater probe sampling required the usage of a GeoProbe® 6610DT rig to advance borings at nine locations to a maximum depth of 20 feet below groundwater interface (Figure 2). Following identification of the groundwater interface based on soil Macro-Cores®, the driller utilized a stainless steel screen to allow HDR to purge groundwater from three discrete intervals; at the groundwater interface, at 10 feet below groundwater interface, and 20 feet below groundwater interface for a total of 27 groundwater probe samples. All groundwater probes were purged and achieved turbidity stabilization of under 50 nephelometric turbidity units (NTU). Following stabilization, groundwater was containerized in laboratory-provided glassware and submitted for analysis. Nine samples plus one field duplicate, for a total of 10 samples, were collected at the groundwater interface and analyzed for TAL metals, VOCs, SVOCs, PCBs, pesticides, herbicides, 1,4-dioxane and PFAS. Eighteen samples plus one field duplicate, for a total of 19 samples, were collected at 10 and 20 feet below groundwater interface and analyzed for PFAS only. Between probing locations, the probe tooling was decontaminated using a bucket wash with Alconox® detergent and clean water rinse.

3.6 Groundwater Sampling

Each monitoring well installed during a previous investigation by the property owner was sampled via low flow sampling protocol using a peristaltic pump to purge each well until stabilization of groundwater chemistry data indicated representative aquifer formation water suitable for sampling. Several additional constraints on sampling protocol were required due to the adherence to PFAS-specific field methods and protocols, and using NYSDEC-approved groundwater sampling equipment / methods to minimize the possibility of cross contamination under the very strict parts per trillion detection levels utilized for this class of compounds. Given the possibility of cross contamination at very low concentrations of exposure, all field supplies used and field clothing worn by the crew conducting the PFAS sampling was required to be PFAS-free. In addition, only approved PFAS-free health and safety items such as sunscreen and insect repellent were permitted for use at the site in accordance with NYSDEC PFAS sampling protocols. Purging and sampling of wells was conducted strictly using a peristaltic pump with dedicated high-density polyethylene (HDPE) inlet and outlet tubing and silicon flexible tubing at the pump head. The use of the peristaltic pump eliminated the potential exposure of sampled water to sources of cross contamination such as the Teflon and low-density polyethylene (LDPE) commonly found as components or fittings on submersible pumps, dedicated bailers, etc. to comply with field protocols in accordance with NYSDEC guidance. In order to meet the

low-flow protocol requirement of minimizing hydraulic stress at the well-aquifer interface and to mitigate potential cross-contamination from PFAS-containing groundwater monitoring equipment, the peristaltic pumps were set to its lowest pumping rate for purging each well, with water levels taken after the conclusion of sampling to gauge any potential drawdown. Following stabilization, groundwater was containerized in laboratory-provided glassware and submitted for analysis. Four samples collected from four monitoring wells MW-3, MW-4, MW-5, and MW-6 located in the northern and western portions of the Site were analyzed for TAL metals, VOCs, SVOCs, PCBs, pesticides, herbicides, 1,4-dioxane and PFAS. Eight samples plus one field duplicate for a total of nine samples collected from all onsite groundwater monitoring wells were analyzed for PFAS only. Groundwater sampling logs can be found in Appendix E.

All soil, groundwater, and appropriate quality assurance/quality control (QA/QC) samples designated for laboratory analysis were submitted to TestAmerica, Inc. (TestAmerica) of Edison, New Jersey for all analyses except for PFAS which was analyzed by TestAmerica of Sacramento, California. Samples were submitted and transported via courier under chain of custody protocols as described in HDR's NYSDEC Standby Engineering Contract Program FAP.

3.7 Survey

HDR field staff, utilizing a Trimble® GeoXH™ 6000, recorded the coordinates of each soil and probe sample location.

4.0 Site Characterization Results

4.1 Soil Boring Sampling Results

Surface and shallow subsurface samples were analyzed for VOCs, SVOCs, pesticides, PCBs, herbicides, TAL metals, and PFAS from 20 locations. The deep soil samples were collected from 1' – 3' above the groundwater interface were analyzed for PFAS only. Results of sampling are summarized within Table 1 and shown on Figure 3.

VOCs

No VOCs were detected at concentrations above Part 375 SCOs in any of the 19 soil boring samples. 2-Butanone was detected in sample GSGW3 0.0-0.2, but only at a concentration below UU SCOs. Acetone was detected in samples WSG-GS1-0.0-0.2 and its field duplicate; WSG-GS2-0.0-0.2; and WSG-GS3-0.0-0.2, but only at concentrations below UU SCOs. Dichloromethane was detected in samples WSG-GS1-0.0-0.2 and its duplicate; WSG-GS1-0.5-2.0; and WSG-GS5-0.0-0.2, but only at concentrations below UU SCOs. Toluene and Total Xylene was detected (J-qualified; estimated) in sample WSG-GS2-0.0-0.2, but only at concentrations below UU SCOs.



SVOCs

No SVOCs were detected at concentrations above Part 375 SCOs in any of the 18 soil boring samples. The following were detected at concentrations below the UU SCOs:

Acenaphthylene was detected in WSG-GS5-0.0-0.2 and WSG-GS7-0.0-0.2.

Anthracene was detected in WSG-GS3-0.0-0.2; WSG-GS5-0.0-0.2; WSG-GS7-0.0-0.2.

Benzo(a)anthracene in WSG-GS1-0.0-0.2 (dup); WSG-GS3-0.0-0.2; WSG-GS4-0.0-0.2; WSG-GS5-0.0-0.2; WSG-GS5-0.5-2.0; WSG-GS6-0.0-0.2; WSG-GS6-0.5-2.0; WSG-GS7-0.0-0.2; WSG-GS7-0.5-2.0; WSG-GS9-0.0-0.2; WSG-GS9-0.5-2.0.

Benzo(a)pyrene in WSG-GS1-0.0-0.2 (dup); WSG-GS3-0.0-0.2; WSG-GS5-0.0-0.2; WSG-GS5-0.5-2.0; WSG-GS6-0.5-2.0; WSG-GS7-0.0-0.2; WSG-GS7-0.5-2.0; WSG-GS9-0.0-0.2.

Benzo(b)fluoranthene in WSG-GS1-0.0-0.2; WSG-GS1-0.0-0.2 (dup); WSG-GS3-0.0-0.2; WSG-GS5-0.0-0.2; WSG-GS5-0.5-2.0; WSG-GS6-0.0-0.2; WSG-GS6-0.5-2.0; WSG-GS7-0.0-0.2; WSG-GS7-0.5-2.0; WSG-GS9-0.0-0.2; WSG-GS9-0.5-2.0.

Benzo(g,h,i)perylene in WSG-GS1-0.0-0.2 (dup); WSG-GS3-0.0-0.2; WSG-GS5-0.0-0.2; WSG-GS5-0.5-2.0; WSG-GS7-0.0-0.2; WSG-GS7-0.5-2.0; WSG-GS9-0.0-0.2.

Benzo(k)fluoranthene in WSG-GS1-0.0-0.2 (dup); WSG-GS3-0.0-0.2; WSG-GS5-0.0-0.2; WSG-GS5-0.5-2.0; WSG-GS6-0.5-2.0; WSG-GS7-0.0-0.2; WSG-GS7-0.5-2.0; WSG-GS9-0.0-0.2.

Chrysene in WSG-GS1-0.0-0.2 (dup); WSG-GS3-0.0-0.2; WSG-GS5-0.0-0.2; WSG-GS5-0.5-2.0; WSG-GS6-0.0-0.2; WSG-GS6-0.5-2.0; WSG-GS7-0.0-0.2; WSG-GS7-0.5-2.0; WSG-GS9-0.0-0.2.

Dibenzo(a,h)anthracene in WSG-GS7-0.0-0.2.

Fluoranthene in WSG-GS1-0.0-0.2 (dup); WSG-GS3-0.0-0.2; WSG-GS5-0.0-0.2; WSG-GS5-0.5-2.0; WSG-GS6-0.0-0.2; WSG-GS6-0.5-2.0; WSG-GS7-0.0-0.2; WSG-GS7-0.5-2.0; WSG-GS9-0.0-0.2; WSG-GS9-0.5-2.0.

Indeno(1,2,3-cd)pyrene in WSG-GS1-0.0-0.2 (dup); WSG-GS3-0.0-0.2; WSG-GS5-0.0-0.2; WSG-GS5-0.5-2.0; WSG-GS7-0.0-0.2; WSG-GS7-0.5-2.0; WSG-GS9-0.0-0.2.

Naphthalene in WSG-GS6-0.0-0.2.

Phenanthrene in WSG-GS3-0.0-0.2; WSG-GS5-0.0-0.2; WSG-GS5-0.5-2.0; WSG-GS6-0.0-0.2; WSG-GS7-0.0-0.2; WSG-GS7-0.5-2.0; WSG-GS9-0.0-0.2.



Pyrene in WSG-GS1-0.0-0.2 (dup); WSG-GS3-0.0-0.2; WSG-GS5-0.0-0.2; WSG-GS5-0.5-2.0; WSG-GS6-0.0-0.2; WSG-GS6-0.5-2.0; WSG-GS7-0.0-0.2; WSG-GS7-0.5-2.0; WSG-GS9-0.0-0.2.

The following were detected, however, there are no SCOs:

Benzaldehyde in samples WSG-GS1-0.0-0.2 (dup); WSG-GS3-0.0-0.2; WSG-GS6-0.0-0.2; and WSG-GS9-0.0-0.2.

Butyl Benzyl Phthalate in WSG-GS6-0.0-0.2.

Bis(2-ethylhexyl)Phthalate in WSG-GS5-0.0-0.2 and WSG-GS7-0.0-0.2.

Carbazole in WSG-GS5-0.0-0.2 and WSG-GS7-0.0-0.2.

PCBs

No PCBs were detected in any of the 18 soil boring samples analyzed.

Pesticides

The pesticide 4,4'-DDD was detected above Part 375 UU SCOs in sample GS2 0.5-2 ft, GS3 0-2.4 in (maximum concentration of 8.9 ug/kg; J-qualified, and GS7 0.5-2.0'. All other soil boring sample results for 4,4'-DDD are non-detect, but the reporting limit exceeds the criteria.

4,4'-DDE was detected at concentrations above Part 375 UU SCOs in seven samples; the field duplicate of the surface sample from GS1, the surface and shallow subsurface samples from GS2, surface sample from GS3 (maximum concentration of 24 ug/kg), shallow subsurface sample from GS4, surface sample from GS5, and surface sample from GS7. All other soil sample results for 4,4'-DDE are non-detect, but the reporting limit exceeds the criteria.

4,4'-DDT was detected at concentrations above Part 375 UU SCOs in five samples; the surface sample from GS1 and its field duplicate, the surface and shallow subsurface samples (maximum concentration of 11 ug/kg [J-qualified]), from GS2, and the shallow subsurface sample from GS3. Two sample results are below the UU SCO. A total of 11 of the samples results for 4,4'-DDT are non-detect, but the reporting limit exceeds the criteria.

Aldrin was not detected in any of the 18 soil boring samples; but the reporting limit exceeds the SCO. Dieldrin was detected in the surface sample from GS1 and its field duplicate, but only at concentrations below Part 375 UU SCOs. Chlordane (technical) was detected in the surface sample of GS5 at an estimated (J-qualified) concentration of 130 ug/kg, which is above the unrestricted use SCO of 94 ug/kg for chlordane (alpha); however, no standard exists under NYS Part 375 for chlordane (technical).

Herbicides

No herbicides were detected in any of the 18 soil boring samples analyzed.



Metals

No metals or mercury were detected at concentrations above Part 375 SCOs in any of the 18 soil boring samples. Total Chromium, Lead, Manganese, Nickel and Zinc were detected in all 18 soil samples, but only at concentrations below UU SCOs. Aluminum, Boron, Calcium, Iron, Magnesium, Potassium, Strontium, Titanium and Vanadium were detected in all 18 soil samples; there is no SCO. Arsenic was detected in 17 soil sample, but only at concentrations below UU SCOs. Barium was detected in all 18 soil samples, at estimated concentrations (J qualified), but only at concentrations below UU SCOs. Beryllium was detected in 14 soil samples, but only at concentrations below UU SCOs. Cobalt was detected in 9 soil samples; there is no SCO. Copper was detected in 15 soil samples, but only at concentrations below UU SCOs. Mercury was detected in 12 soil sample, but only at concentrations below UU SCOs. Selenium was not detected in all 18 soil samples, but the reporting limit exceeds the UU SCO in 16 of the samples. Silver was not detected in all 18 soil samples, but the reporting limit exceeds the UU SCO in 13 of the samples. Sodium was detected in 5 soil samples, at estimated concentrations (J-qualified); there is no SCO.

PFAS

An array of PFAS compounds (USEPA Method 537 Modified) were analyzed during the site characterization and low concentration detections of these various compounds in soil occurred for the samples collected from the nine soil borings. No soil standards have been established for any of these compounds. The PFAS compound detected at the highest concentration was perfluorooctane sulfonic acid (PFOS) at a concentration of 1.05 µg/kg in the 7.0-8.0 ft soil boring sample from GS5.

1,4-Dioxane

No 1,4-dioxane was detected at concentrations above Part 375 SCOs in any of the 18 soil boring samples analyzed, but the reporting detection limit exceeds the UU SCO for 17 of the samples.

4.2 Surface Soil Sampling Results

Locations S19, S20, S21, and S22 were analyzed for VOCs, SVOCs, pesticides, PCBs, herbicides, TAL metals, and PFAS; the remaining 19 locations were analyzed for PFAS only. Results of sampling are summarized within Table 2 and shown on Figure 4.

VOCs

No VOCs were detected at concentrations above Part 375 SCOs in any of the four surface soil samples. Dichloromethane was detected in each sample; but only at concentrations below UU SCOs.



SVOCs

No SVOCs were detected at concentrations above Part 375 SCOs in any of the four surface soil samples. The SVOCs Acenaphthene, anthracene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(g,h,i)perylene, benzo(k)fluoranthene, chrysene, dibenzo(a,h)anthracene, dibenzofuran, fluoranthene, fluorene, indeno(1,2,3-cd)pyrene, naphthalene, phenanthrene and pyrene were detected in all four surface soil samples; but only at concentrations below UU SCOs. The SVOCs 2-methylnaphthalene, bis(2-ethylhexyl)phthalate, and carbazole were detected in samples S19 and S20; however, no standards exist under Part 375 for these compounds.

PCBs

No PCBs were detected in any of the surface soil samples.

Pesticides

No pesticides were detected at concentrations above Part 375 SCOs in any of the four surface soil samples. The pesticide dieldrin was detected in sample S20; but only at a concentration below the UU SCO. 4,4'-DDD, 4,4'-DDE, 4,4'-DDT and Aldrin were not detected, but the reporting limit exceeds the criteria in the four surface soil samples.

Herbicides

No herbicides were detected in any of the surface soil samples.

Metals

No TAL metals or mercury were detected at concentrations above Part 375 SCOs. All TAL metals except Thallium were detected in surface soil sample S19, but only at concentrations below UU SCOs. All TAL metals except Cobalt, Molybdenum, and Sodium were detected in surface soil sample S20, but only at concentrations below UU SCOs. All TAL metals except Molybdenum, Sodium, and Thallium were detected in surface soil samples S21 and S22, but only at concentrations below UU SCOs.

PFAS

An array of PFAS compounds were analyzed during the site characterization, and low concentrations of these compounds were detected in the surface soil samples. The PFAS compound detected at the highest concentration was Perflurorundecanoic Acid (PFUnA) at a concentration of 3.84 µg/kg in S2.

1,4-Dioxane

No 1,4-dioxane was detected at concentrations above Part 375 SCOs in any of the 4 surface soil samples analyzed, but the reporting detection limit exceeds the UU SCO for all 4 of the samples.



4.3 Shallow Subsurface Soil Sampling Results

Locations S19, S20, S21, and S22 were analyzed for VOCs, SVOCs, pesticides, PCBs, herbicides, TAL metals, and PFAS; the remaining 19 locations were analyzed for PFAS only. Results of laboratory analyses are summarized within Table 3 and shown on Figure 4.

VOCs

No VOCs were detected at concentrations above Part 375 SCOs in any of the four shallow subsurface soil samples. Dichloromethane was detected in samples S21 and S22, but only at concentrations below Part 375 UU SCOs.

SVOCs

No SVOCs were detected at concentrations above Part 375 SCOs in any of the four shallow subsurface soil samples. All TCL SVOCs were detected in sample S22, but only at concentrations below Part 375 UU SCOs. All TCL SVOCs except Anthracene and Carbazole were detected in sample S21; anthracene concentration was below UU SCO; Carbazole has no SCO. Benzo(b)fluoranthene, Fluoranthene, and Pyrene were detected in sample S19, but only at concentrations below UU SCOs. No SVOCs were detected in sample S20.

PCBs

No PCBs were detected in any of the four shallow subsurface soil samples.

Pesticides

No pesticides were detected at concentrations above Part 375 SCOs in any of the four shallow subsurface soil samples. 4,4'-DDE was detected in sample S21, but only at a concentration below the UU SCO. 4,4'-DDD, 4,4'-DDE, 4,4'-DDT and Aldrin were not detected, except as noted above, but the reporting limit exceeds the criteria in the four surface soil samples.

Herbicides

No herbicides were detected in any of the four shallow subsurface soil samples.

Metals

No TAL metals or mercury were detected at concentrations above Part 375 SCOs in any of the four shallow subsurface soil samples. Barium, Lead, Manganese, and Nickel were detected in all samples, but at concentrations below UU SCOs. Aluminum, Boron, Calcium, Total Chromium, Iron, Magnesium, Potassium, Strontium, Titanium, and Vanadium were detected in all samples; there is no SCO. Arsenic, Beryllium, Cobalt, Copper and Zinc were detected in samples S21 and S22, but at concentrations below UU



SCOs. Beryllium was detected in sample S19, but at a concentration below the UU SCO. Selenium was not detected, but the reporting limit exceeds the UU SCO in 3 of the 4 samples. Silver was not detected, but the reporting limit exceeds the UU SCO in 2 of the 4 samples.

PFAS

An array of PFAS compounds were analyzed during the site characterization and low concentrations of these various compounds were detected in the shallow subsurface soil samples. The PFAS compound detected at the highest concentration was PFOS at a concentration of 3.01 µg/kg in S3.

1,4-Dioxane

No 1,4-dioxane was detected at concentrations above Part 375 SCOs in any of the 4 shallow subsurface soil samples analyzed, but the reporting detection limit exceeds the UU SCO for 2 of the samples.

4.4 Composite and Grab Soil Sampling Results

Composite soil samples were obtained from twelve soil piles (plus a duplicate sample), and one grab sample was obtained from a debris pile. The results of sampling are summarized within Table 4 and shown on Figure 5.

VOCs

No VOCs were detected at concentrations above Part 375 SCOs in any of the thirteen composite soil samples, or in the grab debris pile soil sample. Dichloromethane was detected in samples C8, C9, C10, C12, and in the duplicate to sample C12, but only at concentrations below UU SCOs.

SVOCs

No SVOCs were detected at concentrations above Part 375 SCOs in any of the thirteen composite soil samples, or in the grab debris pile soil sample. Acenaphthylene, Benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(g,h,i)perylene, benzo(k)fluoranthene, chrysene, fluoranthene, indeno(1,2,3-cd)pyrene, naphthalene, phenanthrene and pyrene were detected below UU SCOs in at least one of C3, C4, C6, C11, C12, or in the debris pile soil sample. The compounds 1,1-biphenyl and 2-methylnaphthalene were detected in the debris pile sample, however, no standard exists under Part 375 for these compounds. 2-methylphenol, 4-methylphenol, and phenol were not detected in any of the 14 samples, but the reporting limit exceeded the criteria in all 14 samples.



PCBs

No PCBs were detected in any of the composite soil samples, nor in the debris pile soil sample.

Pesticides

Analytical results indicated that 4,4'-DDD was detected at concentrations exceeding Part 375 UU SCOs in samples C5 and C10 (maximum concentration 4.7 ug/kg [J-qualified]). No 4,4'-DDD detections exceeded CU SCOs. 4,4'-DDD was not detected in 11 of the composite samples nor in the debris sample, but the reporting limit exceeds the UU SCO.

4,4'-DDE was detected exceeding UU SCOs in all samples except C2 (maximum concentration 32 ug/kg). No 4,4'-DDE detections exceeded CU SCOs.

4,4'-DDT was detected exceeding UU SCOs in all samples except C2, C11 and the debris pile (maximum concentration 49 ug/kg). No 4,4'-DDT detections exceeded CU SCOs. 4,4'-DDT was not detected in 1 of the composite samples nor in the debris sample, but the reporting limit exceeds the UU SCO in the two samples.

Dieldrin was detected exceeding UU SCOs in samples C5 and C12 (maximum concentration 5.4 ug/kg). No dieldrin detections exceeded CU SCOs.

Chlordane (technical) was detected in the debris pile at a concentration of 470 ug/kg, which is above the unrestricted use SCO of 94 ug/kg for chlordane (alpha); however, no standard exists under Part 375 for chlordane (technical).

Aldrin was not detected in any of the 13 composite samples nor in the debris sample, but the reporting limits exceeded the UU SCOs in all 14 samples.

Herbicides

No herbicides were detected in any of the composite soil samples nor in the debris pile soil sample.

Metals

Zinc (209 mg/kg) was detected in the debris pile sample exceeding the Part 375 UU SCO. No zinc detections exceeded CU SCOs. No other metals were detected at concentrations exceeding Part 375 SCOs. Arsenic, barium, beryllium, copper, lead, manganese, mercury, and nickel were detected in most, if not all, composite samples and the debris sample, but at concentrations below the UU SCOs. Aluminum, boron, calcium, chromium, cobalt, iron, magnesium, potassium, strontium, titanium, and vanadium were detected in most, if not all, composite samples and the debris sample; there is no SCO. Sodium was detected in the debris sample; there is no SCO. Selenium and silver were not detected in any of the 13 composite samples or in the debris sample, but the reporting limits exceeded the UU SCOs in all 14 of the samples.



PFAS

An array of PFAS compounds were analyzed during the site characterization and low concentrations of these various compounds were detected in the composite samples. The PFAS compound detected at the highest concentration in the composite samples was PFOS at a concentration of 0.56 µg/kg in C1.

PFAS compounds were not detected in the debris pile soil sample.

1,4-Dioxane

No 1,4-dioxane was detected at concentrations above Part 375 SCOs in any of the 13 composite and one debris pile soil samples analyzed, but the reporting detection limit exceeds the UU SCO for all 14 of the samples.

4.5 Groundwater Probe Sampling Results

Groundwater samples were obtained from 20 locations around the site using a Geoprobe groundwater probe. Results of groundwater probe sampling are summarized within Table 5 and shown on Figure 6. Note that, due to a laboratory error, the sample collected by HDR at GW7 at 25 feet bgs was not analyzed.

Organics (VOCs, SVOCs, PCBs, Pesticides and Herbicides)

No VOCs, SVOCs, PCBs, pesticides, or herbicides were detected in any groundwater probe samples. VOCs 1,2-dibromo-3-chloropropane, 1,2-dibromoethane, and 1,2-dichloroethane were not detected in all 10 samples, but the reporting limits exceeded the Part 703.5 Class GA groundwater standards in all 10 samples.

Twenty-two SVOCs were non-detect in all 10 samples, but the reporting limits exceeded the Part 703.5 Class GA groundwater samples in all 10 samples.

Pesticides Aldrin, Alpha-BHC, Chlorinated Camphene, Dieldrin, and Endrin were not detected in all 10 samples, but the reporting limits exceeded the Part 703.5 Class GA groundwater standards in all 10 samples.

Herbicide Silvex was not detected in all 10 samples, but the reporting limit exceeded the Part 703.5 Class GA groundwater standards in all 10 samples.

Metals

Analytical results indicated that iron, manganese, sodium and thallium were detected at concentrations above Part 703.5 Class GA groundwater standards in one or more groundwater samples.



- Iron was detected in all samples except GW8 (maximum concentration 66,700 ug/l at GW9 – 6 ft)
- Manganese was detected in GW1, GW1's field duplicate, GW2, GW3, GW5, GW6 (maximum concentration 27,600 ug/l), and GW9
- Sodium was detected in GW4 (maximum concentration 47,500 ug/l), GW7, and GW8
- Thallium was detected in GW2, GW5 and GW6 (maximum concentration 53.7 ug/l).

All TAL metals were detected in all ten groundwater probe samples with the exception of antimony, beryllium, selenium, and tin. Mercury was not detected in any groundwater samples. Antimony and selenium were non-detect in all 10 samples, but the reporting limits exceeded the Part 703.5 Class GA groundwater samples in all 10 samples. Thallium was non-detect in 7 samples, but the reporting limits exceeded the Part 703.5 Class GA standard in those 7 samples.

PFAS

An array of PFAS compounds were analyzed during the site characterization, and concentrations of these various compounds were detected in all 26 groundwater probe samples and two field duplicates.

26 of the 28 groundwater probe samples contained Total PFOS + PFOA at concentrations greater than 10 ng/L; seven of these are above the 70 ng/L non-enforceable drinking water health advisory level established by USEPA. WSG-GW9-26 exhibited the highest concentration of Total PFOS + PFOA at 443 ng/L.

Total PFAS concentrations over 500 ng/L were detected in GSGW1 at 9 ft and its duplicate and GSGW9 at 26 ft. WSG-GW9-26 exhibited the highest concentration of Total PFAS at 787.41 ng/L.

Non PFOA/PFOS compounds concentrations greater than 100 ng/L were detected in five samples: WSG-GW1-9 and its duplicate; WSG-GW2-9; WSG-GW9-16; and WSG-GW9-26. The compound with the highest concentration is Perfluorononanoic Acid (PFNA), detected at 333 and 343 ng/L in WSG-GW1-9 and its duplicate.

1,4-Dioxane

No 1,4-dioxane was detected in any of the 10 groundwater probe samples analyzed.

4.6 Groundwater Monitoring Well Sampling Results

HDR obtained groundwater samples from four monitoring wells (MW-3, MW-4, MW-5, and MW-6), with analyses for VOCs, SVOCs, pesticides, PCBs, herbicides, TAL metals and mercury. Groundwater samples were also collected from all existing monitoring wells (MW-1 through MW-8, plus a duplicate sample), with analyses for PFAS compounds only. Results of groundwater sampling are summarized within Table 6 and shown on Figure 7.



Organics (VOCs, SVOCs, PCBs, Pesticides and Herbicides)

No VOCs, SVOCs, PCBs, pesticides or herbicides were detected in any of the four groundwater samples at concentrations above Class GA groundwater standards. The VOC chloroform was detected in MW-3, MW-4, and MW-5; but only at concentrations below Class GA groundwater standards. VOCs 1,2-dibromo-3-chloropropane, 1,2-dibromoethane, and 1,2-dichloroethane were not detected in all 4 samples, but the reporting limits exceeded the Part 703.5 Class GA groundwater standards in all 4 samples.

Twenty-two SVOCs were non-detect in all 4 samples, but the reporting limits exceeded the Part 703.5 Class GA groundwater samples in all 4 samples.

Pesticides Aldrin, Alpha-BHC, Chlorinated Camphene, Dieldrin, and Endrin were not detected in all 4 samples, but the reporting limits exceeded the Part 703.5 Class GA groundwater standards in all 4 samples.

Herbicide Silvex was not detected in all 4 samples, but the reporting limit exceeded the Part 703.5 Class GA groundwater standards in all 4 samples.

Metals

Sodium was detected in samples obtained from MW-3, MW-4 (maximum concentration 50,900 ug/l), and MW-5 at concentrations above Part 703.5 Class GA groundwater standards. No other metals were detected above Class GA groundwater standards.

Barium, boron, calcium, magnesium, manganese, potassium, strontium, and zinc were detected in all four groundwater samples; but only at concentrations below Class GA standards. Copper, iron, mercury, sodium, and titanium were also detected in several of the samples; but only at concentrations below Class GA standards. Aluminum was detected in MW-3, MW-4, MW-5, and MW-6; however, no standard exists for this compound under Part 703.5. Antimony, selenium, and thallium were non-detect in all 4 samples, but the reporting limits exceeded the Part 703.5 Class GA groundwater samples in all 4 samples.

PFAS

An array of PFAS compounds were analyzed during the site characterization, and concentrations of these various compounds were detected in all 8 groundwater monitoring wells (MW-1 through MW-8), and the one field duplicate sample.

All 9 monitoring well groundwater samples contained Total PFOS + PFOA at concentrations greater than 10 ng/L; seven of these are above the 70 ng/L non-enforceable drinking water health advisory level established by USEPA. MW3 exhibited the highest concentration of Total PFOS + PFOA at 1,037.5 ng/L.



Total PFAS concentrations over 500 ng/L were detected in MW3, MW5 and MW6. MW6 exhibited the highest concentration of Total PFAS at 3,626.39 ng/L.

Non PFOA/PFOS compounds with concentrations greater than 100 ng/L were detected in three samples: WSG-MW3-10; WSG-MW5-13 and WSG-MW6-10. The compound with the highest concentration is Perfluorononanoic Acid (PFNA), detected at 2,850 ng/L in MW6.

1,4-Dioxane

No 1,4-dioxane was detected in any of the 4 groundwater monitoring well samples analyzed.

5.0 Conclusions

The Site Characterization of the Wainscott Sand and Gravel Site included the evaluation of several categories of contaminants in the surficial soils, shallow subsurface soils, and groundwater. Surface (0 – 2.4 in depth) and shallow subsurface (0.5' – 2' depth) grab soil samples and composite soil samples collected from existing mounds onsite were analyzed for TAL metals, VOCs, SVOCs, PCBs, pesticides, herbicides, PFAS, and 1,4-dioxane. Deep (1' – 3' above groundwater interface) soil samples were analyzed for PFAS only. Groundwater probe samples, collected via direct push groundwater probe methods, collected from the groundwater interface were analyzed for TAL metals, VOCs, SVOCs, PCBs, pesticides, herbicides, PFAS, and 1,4-dioxane. Groundwater probe samples collected from 10 and 20 feet below the groundwater interface were analyzed for PFAS only. Groundwater monitoring well samples were collected from eight groundwater monitoring wells installed around the site perimeter in 2018 prior to this Site Characterization via low flow sampling methods. Four monitoring wells in the northern and western portions of the site (MW-3, MW-4, MW-5, and MW-6) were analyzed for TAL metals, VOCs, SVOCs, PCBs, pesticides, herbicides, PFAS, and 1,4-dioxane, and all monitoring wells were analyzed for PFAS.

Soil

The soil sampling programs indicated that no VOCs, SVOCs, PCBs, herbicides, or 1,4-dioxane were detected onsite exceeding Part 375 SCOs.

The pesticides 4,4'-DDD, 4,4'-DDE, 4,4'-DDT and dieldrin were detected exceeding their respective UU SCOs in one or more soil samples, as described below. Chlordane (technical) was detected at concentrations exceeding the UU SCO for Chlordane (alpha) in soil sample GS5 0.0-0.2', and in the debris pile sample; however, no SCO is available for Chlordane (technical). No other TCL pesticides exceeding UU SCOs were detected.

- 4,4'-DDD was detected exceeding UU SCOs at soil borings GS2 0.5-2'; GS3 0-2', and GS7 0.5- 2', and in soil pile composite samples C5 and C10.
- 4,4'-DDE was detected exceeding UU SCOs soil borings GS1 0.0- 2.4 in field duplicate, GS2 at 0.0 – 2.4 in and 0.5 – 2', GS3 at 0.0 – 2.4 in, GS4 at 0.5 – 2',



GS5 at 0.0 – 2.4 in, GS7 at 0.0 – 2.4 in, in the debris pile sample, and in all soil pile composite samples except C2.

- 4,4'-DDT was detected exceeding UU SCOs at soil borings GS1 0.0 - 2.4" and its field duplicate, GS2 at 0.0 – 2.4 in and 0.5 - 2', and GS3 at 0.5 - 2' and in all soil pile composite samples except C2 and C11. The maximum concentration of a detected pesticide that exceeds its UU SCO is 4,4'- DDT in composite sample C10 at 49 ug/kg.
- Dieldrin was detected exceeding the UU SCO in soil boring sample GS1 at 0.0-2.4 in.

Zinc was detected in the debris pile sample at a concentration above the UU SCO. No other metals were detected in any soil samples exceeding UU SCOs.

Soil standards for PFAS compounds have not been established. PFAS compounds, which may include PFOA and PFOS, were detected in one or more of the soil boring, surface soil, shallow subsurface, and composite soil samples. PFAS compounds were not detected in the debris pile soil sample.

Highest detected concentrations for each soil sample type are provided herein:

- PFOS at a concentration of 1.05 µg/kg in the 7.08-8.0 ft soil boring sample from GS5.
- Perflurorundecanoic Acid (PFUnA) at a concentration of 3.84 µg/kg in surface soil sample S2.
- PFOS at a concentration of 3.01 µg/kg in shallow subsurface soil sample S3.
- PFOS at a concentration of 0.56 µg/kg in composite sample C1.

Groundwater

The groundwater sampling program indicated that no VOCs, SVOCs, PCBs, pesticides, or herbicides were detected onsite exceeding Part 703.5 Class GA groundwater standards. 1,4-Dioxane was not detected in any of the groundwater samples.

Metals analysis detected iron above Part 703.5 Class GA groundwater standards in all samples except GW8 with a max detection of 66,700 ug/l in GW9 at 6 feet bgs; manganese was detected above Part 703.5 Class GA groundwater standards in GW1, GW1's field duplicate, GW2, GW3, GW5, GW6, and GW9, with a max detection of 27,600 ug/l in GW6 at 9 feet bgs; sodium was detected above Part 703.5 Class GA groundwater standards in GW4, GW7, and GW8 with a max detection of 47,500 ug/l in GW4 at 5 feet bgs; and thallium was detected above Part 703.5 Class GA groundwater standards in GW2, GW5, GW6 with a max detection of 53.7 ug/l in GW6 at 53.7 feet bgs. The metal sodium was detected in MW-3, MW-4, and MW-5 above Part 703.5 Class GA groundwater standards with a max detection of 50,900 ug/l at MW4. All TAL metals were detected in all ten groundwater probe samples with the exception of antimony, beryllium, selenium, and tin. Copper, iron, mercury, sodium, and titanium were detected below standards in some groundwater monitoring well samples. Aluminum was detected in MW-3, MW-4, MW-5, and MW-6 though no standard exists under Part 703.5.



A total of 14 PFAS compounds were analyzed and concentrations of these various compounds were detected in all groundwater probe samples.

All but two of the ground water probe samples had detections of Total PFOS + PFOA at concentrations above 10 ng/L (equivalent to 10 ppt), the guidance value found in the Guidelines for Sampling and Analysis of PFAS under NYSDEC's Part 375 Remedial Programs (DEC PFAS Guidelines). The highest concentration of 443 ng/L was found in GW9.

- Perfluorohexanesulfonic acid was detected exceeding the DEC PFAS Guidelines of 100 ng/L in GW2 at 9 feet and GW9 at 16 and 26 feet.
- PFNA was detected exceeding DEC PFAS Guidelines of 100 ng/L in GW1 at 9 feet and its field duplicate.
- PFOS was detected exceeding DEC PFAS Guidelines of 10 ng/L in all but four samples.
- PFOA was detected exceeding DEC PFAS Guidelines of 10 ng/L in GW1 at 9 feet and its field duplicate; GW2 at 9 feet; GW5 at 8 feet, 18 feet, and 28 feet; GW6 at 9 feet, 19 feet, and 29 feet; GW7 at 6 feet; and GW9 at 6 feet, 16 feet, and 26 feet.

A total of 14 PFAS compounds were analyzed and concentrations of these various compounds were detected in all nine groundwater samples (eight monitoring wells and one field duplicate).

All of the monitoring well samples had detections of Total PFOS + PFOA at concentrations above 10 ng/L (equivalent to 10 ppt), the guidance value found in the Guidelines for Sampling and Analysis of PFAS under NYSDEC's Part 375 Remedial Programs (DEC PFAS Guidelines). The highest concentration of 1,037.5 ng/L was found in MW3.

- Perfluorohexanesulfonic acid was detected exceeding the DEC PFAS Guidelines of 100 ng/L in MW-3 and MW-5.
- PFNA and PFUnA were detected in MW-6 exceeding 100 ng/L.
- PFOS was detected exceeding 10 ng/L in all nine groundwater samples.
- PFOA was detected exceeding DEC PFAS Guidelines in six of the nine groundwater samples.

Seven of the 28 groundwater probe samples exceeded the 70 ng/L non-enforceable drinking water health advisory level established by USEPA for combined concentrations of PFOS and PFOA. Seven of the nine monitoring well samples exceeded the 70 ng/L USEPA health advisory.

The lowest combined PFOS and PFOA concentration was detected in GW3 at 28 feet bgs (3.62 ng/l) and the highest combined concentration was detected in MW-3 (1,037.5 ng/l).



Total PFAS exceeded the 500 ng/L DEC PFAS Guidelines in GW1 at 9 feet and its field duplicate, and in GW9 at 26 feet in the groundwater probe samples, with a maximum detection of 787.77 ng/l in GW9. Total PFAS exceeded 500 ng/L in the groundwater monitoring well samples at MW3, MW5, and MW6 with the maximum detection of 3626.39 ng/L at MW6.

No 1,4-Dioxane was detected in any groundwater probe sample, nor in any groundwater sample.

Analytical Data Validation

All analytical data were sent to Data Validation Services (DVS) of North Creek, NY for an independent, third-party validation. DVS provided a Data Usability Summary Report that defined each of the quality control criteria evaluated, any findings related to the criteria, and a description of the significance of such findings. Results of the data validation are provided within Appendix C.

In general, the results for the samples were either usable as reported, or usable with minor qualifications (i.e., estimated values), with the exception of fourteen phenolic semi-volatile results in one sample, which were rejected. Atrazine results were also rejected in seven samples, and three equipment blanks were rejected.

Data completeness, accuracy, representativeness, reproducibility, sensitivity and comparability were acceptable.

Laboratory modifications to USEPA Method 537.1 (PFAS) were significant, including acceptance ranges, generally consistent with advances in the available monitoring compounds. Validation and acceptance of the laboratories modifications to method 537 were based on the laboratory procedures, in consideration that "the laboratory undergoes NYS DOH certifications and NYS SOP review." The results were determined to be usable with selected modifications, including characterization of selected PFAS results as estimated, or edited to reflect non-detect concentrations in several samples due to the presence of selected PFAS compounds in their associated method blanks.



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Tables



Analyte	CAS Number	NYS SO Unrestricted SCO	NYS SO Restricted Commercial SCO	NYS SO Restricted Industrial SCO	NYS SO Restricted Residential SCO	Units	Location: Sample: Date: Depth:		GSGW8 WSG-GS8-0.0-0.2-0 11/4/2019 0 - 0.2 ft		GSGW8 WSG-GS8-0.5-2.0-0 11/4/2019 0.5 - 2 ft		GSGW8 WSG-GS8-16.5-18.5-0 11/13/2019 16.5 - 18.5 ft		GSGW9 WSG-GS9-0.0-0.2-0 11/11/2019 0 - 0.2 ft		GSGW9 WSG-GS9-0.5-2.0-0 11/11/2019 0.5 - 2 ft		GSGW9 WSG-GS9-3-5-0 11/12/2019 3 - 5 ft		
							Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual			
Nitrobenzene	98-95-3					ug/kg	35	U	34	U			37	U	37	U					
N-Nitroso-Di-N-Propylamine	621-64-7					ug/kg	35	U	34	U			37	U	37	U					
N-Nitrosodiphenylamine	86-30-6					ug/kg	350	U	340	U			370	U	370	U					
Pentachlorophenol	87-86-5	800	6700	55000	6700	ug/kg	280	U	280	U			300	U	300	U					
Phenanthrene	85-01-8	100000	500000	1000000	100000	ug/kg	350	U	340	U			11	J	370	U					
Phenol	108-95-2	330	500000	1000000	100000	ug/kg	350	U	340	U			370	U	370	U					
Pyrene	129-00-0	100000	500000	1000000	100000	ug/kg	350	U	340	U			24	J	370	U					
PCBs																					
Aroclor 1016	12674-11-2					ug/kg	71	U	70	U			75	U	75	U					
Aroclor 1221	11104-28-2	100				ug/kg	71	U	70	U			75	U	75	U					
Aroclor 1232	11141-16-5					ug/kg	71	U	70	U			75	U	75	U					
Aroclor 1242	53469-21-9					ug/kg	71	U	70	U			75	U	75	U					
Aroclor 1248	12672-29-6	100				ug/kg	71	U	70	U			75	U	75	U					
Aroclor 1254	11097-69-1	100				ug/kg	71	U	70	U			75	U	75	U					
Aroclor 1260	11096-82-5	100				ug/kg	71	U	70	U			75	U	75	U					
Aroclor 1262	37324-23-5					ug/kg	71	U	70	U			75	U	75	U					
Aroclor 1268	11100-14-4	100				ug/kg	71	U	70	U			75	U	75	U					
Total PCBs	1336-36-3	100	1000	25000	1000	ug/kg	71	U	70	U			75	U	75	U					
Pesticides																					
4,4'-DDD	72-54-8	3.3	92000	180000	13000	ug/kg	7.1	U	7	U			7.5	U	7.5	U					
4,4'-DDE	72-55-9	3.3	62000	120000	8900	ug/kg	7.1	U	7	U			7.5	U	7.5	U					
4,4'-DDT	50-29-3	3.3	47000	94000	7900	ug/kg	7.1	U	7	U			7.5	U	7.5	U					
Aldrin	309-00-2	5	680	1400	97	ug/kg	7.1	U	7	U			7.5	U	7.5	U					
Alpha-BHC	319-84-6	20	3400	6800	480	ug/kg	2.1	U	2.1	U			2.2	U	2.2	U					
Beta-BHC	319-85-7	36	3000	14000	360	ug/kg	2.1	U	2.1	U			2.2	U	2.2	U					
Chlordane (Technical)	12789-03-6	94*	24000*	47000*	4200*	ug/kg	7.1	U	7.0	U			7.5	U	7.5	U					
Chlorinated Camphene	8001-35-2					ug/kg	7.1	U	7.0	U			7.5	U	7.5	U					
Delta-Bhc	319-86-8	40	500000	1000000	100000	ug/kg	2.1	U	2.1	U			2.2	U	2.2	U					
Dieldrin	60-57-1	5	1400	2800	200	ug/kg	2.1	U	2.1	U			2.2	U	2.2	U					
Endosulfan I	959-98-8	2400	200000	920000	24000	ug/kg	7.1	U	7	U			7.5	U	7.5	U					
Endosulfan II	33213-65-9	2400	200000	920000	24000	ug/kg	7.1	U	7	U			7.5	U	7.5	U					
Endosulfan Sulfate	1031-07-8	2400	200000	920000	24000	ug/kg	7.1	U	7	U			7.5	U	7.5	U					
Endrin	72-20-8	14	89000	410000	11000	ug/kg	7.1	U	7	U			7.5	U	7.5	U					
Endrin Aldehyde	7421-93-4					ug/kg	7.1	U	7	U			7.5	U	7.5	U					
Endrin Ketone	53494-70-5					ug/kg	7.1	U	7	U			7.5	U	7.5	U					
Gamma-BHC (Lindane)	58-89-9	100	9200	23000	1300	ug/kg	2.1	U	2.1	U			2.2	U	2.2	U					
Heptachlor	76-44-8	42	15000	29000	2100	ug/kg	7.1	U	7	U			7.5	U	7.5	U					
Heptachlor Epoxide	1024-57-3					ug/kg	7.1	U	7	U			7.5	U	7.5	U					
Methoxychlor	72-43-5					ug/kg	7.1	U	7	U			7.5	U	7.5	U					
Herbicides																					
2,4-D (Dichlorophenoxyacetic Acid)	94-75-7					ug/kg	35	U	35	U			37	U	37	U					
Acetic acid, (2,4,5-trichlorophenoxy)-	93-76-5					ug/kg	35	UT	35	UT			37	U	37	U					
Silvex (2,4,5-TP)	93-72-1	3800	500000	1000000	100000	ug/kg	35	UT	35	UT			37	U	37	U					
PFAS																					
2-(N-methyl perfluorooctanesulfonamido) acetic acid	2355-31-9					ug/kg	1.99	U	1.96	U	2.39	U	2.06	U	2.08	U	2.06	U			
N-Ethyl-N-((heptadecafluorooctyl)sulphonyl) glycine	2991-50-6					ug/kg	1.99	U	1.96	U	2.39	U	2.06	U	2.08	U	2.06	U			
Perfluorobutanesulfonic Acid (PFBS)	375-73-5					ug/kg	0.2	U	0.2	U	0.24	U	0.21	U	0.21	U	0.21	U			
Perfluorodecanoic Acid (PFDA)	335-76-2					ug/kg	0.075	J	0.088	J	0.24	U	0.037	J	0.084	J	0.21	U			
Perfluorododecanoic Acid (PFDoA)	307-55-1					ug/kg	0.2	U	0.2	U	0.24	U	0.21	U	0.21	U	0.21	U			
Perfluoroheptanoic Acid (PFHpA)	375-85-9					ug/kg	0.2	U	0.031	BJ	0.24	U	0.21	U	0.21	U	0.21	U			
Perfluorohexanesulfonic Acid	355-46-4					ug/kg	0.2	U	0.2	U	0.24	U	0.21	U	0.032	J	0.033	J			
Perfluorohexanoic Acid (PFHxA)	307-24-4					ug/kg	0.2	U	0.2	U	0.24	U	0.21	U	0.21	U	0.21	U			
Perfluorononanoic Acid (PFNA)	375-95-1					ug/kg	0.2	U	0.04	J	0.24	U	0.21	U	0.21	U	0.041	J			
Perfluorooctane Sulfonic Acid (PFOS)*	1763-23-1	1	1	1	1	ug/kg	0.31	BJ	0.52	B	0.6	U	0.52	U	2.67	U	0.52	U			
Perfluorooctanoic acid (PFOA)*	335-67-1	1	1	1	1	ug/kg	0.2	U	0.2	U	0.24	U	0.21	U	0.21	U	0.21	U			
Perfluorotetradecanoic Acid (PFTeA)	376-06-7					ug/kg	0.2	U	0.2	U	0.24	U	0.21	U	0.21	U	0.21	U			
Perfluorotridcanoic Acid (PFTriA)	72629-94-8					ug/kg	0.2	U	0.2	U	0.24	U	0.21	U	0.21	U	0.21	U			
Perfluoroundecanoic Acid (PFUnA)	2058-94-8					ug/kg	0.059	J	0.2	U	0.24	U	0.21	U	0.21	U	0.21	U			

Notes:

VALUE is non-detect.

VALUE exceeds NYS SO Unrestricted SCO.

VALUE is non-detect but the reporting limit exceeds the criteria.

* NYS Part 375 provides a SCO for the cis-chlordane isomer only; however, analytical results are provided only as the total of all chlordane isomers.



Analyte	CAS Number	NYS SO Unrestricted SCO	NYS SO Restricted Commercial SCO	NYS SO Restricted Industrial SCO	NYS SO Restricted Residential SCO	Units	S1		S2		S3		S4		S5		S6		S7		S8	
							Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
Inorganics																						
Aluminum	7429-90-5					mg/kg																
Antimony	7440-36-0					mg/kg																
Arsenic	7440-38-2	13	16	16	16	mg/kg																
Barium	7440-39-3	350	400	10000	400	mg/kg																
Beryllium	7440-41-7	7.2	590	2700	72	mg/kg																
Boron	7440-42-8					mg/kg																
Cadmium	7440-43-9	2.5	9.3	60	4.3	mg/kg																
Calcium	7440-70-2					mg/kg																
Chromium, Total	7440-47-3					mg/kg																
Cobalt	7440-48-4					mg/kg																
Copper	7440-50-8	50	270	10000	270	mg/kg																
Iron	7439-89-6					mg/kg																
Lead	7439-92-1	63	1000	3900	400	mg/kg																
Magnesium	7439-95-4					mg/kg																
Manganese	7439-96-5	1600	10000	10000	2000	mg/kg																
Mercury	7439-97-6	0.18	2.8	5.7	0.81	mg/kg																
Molybdenum	7439-98-7					mg/kg																
Nickel	7440-02-0	30	310	10000	310	mg/kg																
Potassium	7440-09-7					mg/kg																
Selenium	7782-49-2	3.9	1500	6800	180	mg/kg																
Silver	7440-22-4	2	1500	6800	180	mg/kg																
Sodium	7440-23-5					mg/kg																
Strontium	7440-24-6					mg/kg																
Thallium	7440-28-0					mg/kg																
Tin	7440-31-5					mg/kg																
Titanium	7440-32-6					mg/kg																
Vanadium	7440-62-2					mg/kg																
Zinc	7440-66-6	109	10000	10000	10000	mg/kg																
VOCs																						
1,1,1-Trichloroethane	71-55-6	680	500000	1000000	100000	ug/kg																
1,1,2,2-Tetrachloroethane	79-34-5					ug/kg																
1,1,2-Trichloroethane	79-00-5					ug/kg																
1,1-Dichloroethane	75-34-3	270	240000	480000	26000	ug/kg																
1,1-Dichloroethene	75-35-4	330	500000	1000000	100000	ug/kg																
1,2,4-Trichlorobenzene	120-82-1					ug/kg																
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8					ug/kg																
1,2-Dibromoethane (Ethylene dibromide)	106-93-4					ug/kg																
1,2-Dichlorobenzene	95-50-1	1100	500000	1000000	100000	ug/kg																
1,2-Dichloroethane	107-06-2	20	30000	60000	3100	ug/kg																
1,2-Dichloropropane	78-87-5					ug/kg																
1,3-Dichlorobenzene	541-73-1	2400	280000	560000	49000	ug/kg																
1,4-Dichlorobenzene	106-46-7	1800	130000	250000	13000	ug/kg																
2-Butanone	78-93-3	120	500000	1000000	100000	ug/kg																
2-Hexanone	591-78-6					ug/kg																
4-Methyl-2-Pentanone	108-10-1					ug/kg																
Acetone	67-64-1	50	500000	1000000	100000	ug/kg																
Benzene	71-43-2	60	44000	89000	4800	ug/kg																
Bromodichloromethane	75-27-4					ug/kg																
Bromoform	75-25-2					ug/kg																
Bromomethane	74-83-9					ug/kg																
Carbon Disulfide	75-15-0					ug/kg																
Carbon Tetrachloride	56-23-5	760	22000	44000	2400	ug/kg																
Chlorobenzene	108-90-7	1100	500000	1000000	100000	ug/kg																
Chlorodibromomethane	124-48-1					ug/kg																
Chloroethane	75-00-3					ug/kg																
Chloroform	67-66-3	370	350000	700000	49000	ug/kg																
Chloromethane	74-87-3					ug/kg																
Cis-1,2-Dichloroethene	156-59-2	250	500000	1000000	100000	ug/kg																
Cis-1,3-Dichloropropene	10061-01-5					ug/kg																
Cyclohexane	110-82-7					ug/kg																
Dichlorodifluoromethane	75-71-8					ug/kg																
Dichloromethane	75-09-2	50	500000	1000000	100000	ug/kg																
Ethylbenzene	100-41-4	1000	390000	780000	41000	ug/kg																
Freon 113	76-13-1					ug/kg																
Isopropyl benzene	98-82-8					ug/kg																

Notes:

VALUE is non-detect.

VALUE exceeds NYS SO Unrestricted SCO.

VALUE is non-detect but the reporting limit exceeds the criteria.



Analyte	CAS Number	NYS SO Unrestricted SCO	NYS SO Restricted Commercial SCO	NYS SO Restricted Industrial SCO	NYS SO Restricted Residential SCO	Units	Location:		S1	S2	S3	S4	S5	S6	S7	S8
							Sample:	Date:	Depth:	Result	Qual	Result	Qual	Result	Qual	Result
									WSG-S1-0.5-2.0-0	WSG-S2-0.5-2.0-0	WSG-S3-0.5-2.0-0	WSG-S4-0.5-2.0-0	WSG-S5-0.5-2.0-0	WSG-S6-0.5-2.0-0	WSG-S7-0.5-2.0-0	WSG-S8-0.5-2.0-0
									11/5/2019	11/11/2019	11/11/2019	11/11/2019	11/11/2019	11/11/2019	11/11/2019	11/11/2019
									0.5 - 2 ft	0.5 - 2 ft	0.5 - 2 ft	0.5 - 2 ft	0.5 - 2 ft	0.5 - 2 ft	0.5 - 2 ft	0.5 - 2 ft
Methyl acetate	79-20-9					ug/kg										
Methyl T-Butyl Ether (MTBE)	1634-04-4	930	500000	1000000	100000	ug/kg										
Methylcyclohexane	108-87-2					ug/kg										
Styrene	100-42-5					ug/kg										
Tetrachloroethene	127-18-4	1300	150000	300000	19000	ug/kg										
Toluene	108-88-3	700	500000	1000000	100000	ug/kg										
Total Xylenes	1330-20-7	260	500000	1000000	100000	ug/kg										
Trans-1,2-Dichloroethene	156-60-5	190	500000	1000000	100000	ug/kg										
Trans-1,3-Dichloropropene	10061-02-6					ug/kg										
Trichloroethylene	79-01-6	470	200000	400000	21000	ug/kg										
Trichlorofluoromethane	75-69-4					ug/kg										
Vinyl Chloride	75-01-4	20	13000	27000	900	ug/kg										
SVOCs																
1,1-Biphenyl	92-52-4					ug/kg										
1,4-Dioxane	123-91-1	100	130000	250000	13000	ug/kg										
2,4,5-Trichlorophenol	95-95-4					ug/kg										
2,4,6-Trichlorophenol	88-06-2					ug/kg										
2,4-Dichlorophenol	120-83-2					ug/kg										
2,4-Dimethylphenol	105-67-9					ug/kg										
2,4-Dinitrophenol	51-28-5					ug/kg										
2,4-Dinitrotoluene	121-14-2					ug/kg										
2,6-Dinitrotoluene	606-20-2					ug/kg										
2-Chloronaphthalene	91-58-7					ug/kg										
2-Chlorophenol	95-57-8					ug/kg										
2-Methylnaphthalene	91-57-6					ug/kg										
2-Methylphenol	95-48-7	330	500000	1000000	100000	ug/kg										
2-Nitroaniline	88-74-4					ug/kg										
2-Nitrophenol	88-75-5					ug/kg										
3,3'-Dichlorobenzidine	91-94-1					ug/kg										
3-Nitroaniline	99-09-2					ug/kg										
4,6-Dinitro-2-Methylphenol	534-52-1					ug/kg										
4-Bromophenyl Phenyl Ether	101-55-3					ug/kg										
4-Chloro-3-Methylphenol	59-50-7					ug/kg										
4-Chloroaniline	106-47-8					ug/kg										
4-Chlorophenyl Phenylether	7005-72-3					ug/kg										
4-Methylphenol	106-44-5	330	500000	1000000	100000	ug/kg										
4-Nitroaniline	100-01-6					ug/kg										
4-Nitrophenol	100-02-7					ug/kg										
Acenaphthene	83-32-9	20000	500000	1000000	100000	ug/kg										
Acenaphthylene	208-96-8	100000	500000	1000000	100000	ug/kg										
Acetophenone	98-86-2					ug/kg										
Anthracene	120-12-7	100000	500000	1000000	100000	ug/kg										
Atrazine	1912-24-9					ug/kg										
Benzaldehyde	100-52-7					ug/kg										
Benzo(A)Anthracene	56-55-3	1000	5600	11000	1000	ug/kg										
Benzo(A)Pyrene	50-32-8	1000	1000	1100	1000	ug/kg										
Benzo(B)Fluoranthene	205-99-2	1000	5600	11000	1000	ug/kg										
Benzo(G,H,I)Perylene	191-24-2	100000	500000	1000000	100000	ug/kg										
Benzo(K)Fluoranthene	207-08-9	800	56000	110000	3900	ug/kg										
Bis(2-Chloroethoxy) Methane	111-91-1					ug/kg										
Bis(2-Chloroethyl) Ether	111-44-4					ug/kg										
Bis(2-Ethylhexyl) Phthalate	117-81-7					ug/kg										
Bis-Chloroisopropyl Ether	108-60-1					ug/kg										
Butyl Benzyl Phthalate	85-68-7					ug/kg										
Caprolactam	105-60-2					ug/kg										
Carbazole	86-74-8					ug/kg										
Chrysene	218-01-9	1000	56000	110000	3900	ug/kg										
Dibenzo(A,H)Anthracene	53-70-3	330	560	1100	330	ug/kg										
Dibenzofuran	132-64-9	7000	350000	1000000	59000	ug/kg										
Diethylphthalate	84-66-2					ug/kg										
Dimethylphthalate	131-11-3					ug/kg										
Di-N-Butylphthalate	84-74-2					ug/kg										
Di-N-Octyl Phthalate	117-84-0					ug/kg										
Fluoranthene	206-44-0	100000	500000	1000000	100000	ug/kg										
Fluorene	86-73-7	30000	500000	1000000	100000	ug/kg										
Hexachlorobenzene	118-74-1	330	6000	12000	1200	ug/kg										

Notes:

VALUE is non-detect.

VALUE exceeds NYS SO Unrestricted SCO.

VALUE is non-detect but the reporting limit exceeds the criteria.



Analyte	CAS Number	Location: Sample: WSG-S9-0.5-2.0-0 S9 Date: 11/11/2019 Depth: 0.5 - 2 ft						S10 WSG-S10-0.5-2.0-0 11/5/2019 0.5 - 2 ft		S11 WSG-S11-0.5-2.0-0 11/5/2019 0.5 - 2 ft		S12 WSG-S12-0.5-2.0-0 11/4/2019 0.5 - 2 ft		S13 WSG-S13-0.5-2.0-0 11/4/2019 0.5 - 2 ft		S14 WSG-S14-0.5-2.0-0 11/5/2019 0.5 - 2 ft		S15 WSG-S15-0.5-2.0-0 11/5/2019 0.5 - 2 ft		S16 WSG-S16-0.5-2.0-0 11/5/2019 0.5 - 2 ft		
		NYS SO Unrestricted SCO	NYS SO Restricted Commercial SCO	NYS SO Restricted Industrial SCO	NYS SO Restricted Residential SCO	Units	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
		Inorganics																				
Aluminum	7429-90-5					mg/kg																
Antimony	7440-36-0					mg/kg																
Arsenic	7440-38-2	13	16	16	16	mg/kg																
Barium	7440-39-3	350	400	10000	400	mg/kg																
Beryllium	7440-41-7	7.2	590	2700	72	mg/kg																
Boron	7440-42-8					mg/kg																
Cadmium	7440-43-9	2.5	9.3	60	4.3	mg/kg																
Calcium	7440-70-2					mg/kg																
Chromium, Total	7440-47-3					mg/kg																
Cobalt	7440-48-4					mg/kg																
Copper	7440-50-8	50	270	10000	270	mg/kg																
Iron	7439-89-6					mg/kg																
Lead	7439-92-1	63	1000	3900	400	mg/kg																
Magnesium	7439-95-4					mg/kg																
Manganese	7439-96-5	1600	10000	10000	2000	mg/kg																
Mercury	7439-97-6	0.18	2.8	5.7	0.81	mg/kg																
Molybdenum	7439-98-7					mg/kg																
Nickel	7440-02-0	30	310	10000	310	mg/kg																
Potassium	7440-09-7					mg/kg																
Selenium	7782-49-2	3.9	1500	6800	180	mg/kg																
Silver	7440-22-4	2	1500	6800	180	mg/kg																
Sodium	7440-23-5					mg/kg																
Strontium	7440-24-6					mg/kg																
Thallium	7440-28-0					mg/kg																
Tin	7440-31-5					mg/kg																
Titanium	7440-32-6					mg/kg																
Vanadium	7440-62-2					mg/kg																
Zinc	7440-66-6	109	10000	10000	10000	mg/kg																
VOCs																						
1,1,1-Trichloroethane	71-55-6	680	500000	1000000	100000	ug/kg																
1,1,2,2-Tetrachloroethane	79-34-5					ug/kg																
1,1,2-Trichloroethane	79-00-5					ug/kg																
1,1-Dichloroethane	75-34-3	270	240000	480000	26000	ug/kg																
1,1-Dichloroethene	75-35-4	330	500000	1000000	100000	ug/kg																
1,2,4-Trichlorobenzene	120-82-1					ug/kg																
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8					ug/kg																
1,2-Dibromoethane (Ethylene dibromide)	106-93-4					ug/kg																
1,2-Dichlorobenzene	95-50-1	1100	500000	1000000	100000	ug/kg																
1,2-Dichloroethane	107-06-2	20	30000	60000	3100	ug/kg																
1,2-Dichloropropane	78-87-5					ug/kg																
1,3-Dichlorobenzene	541-73-1	2400	280000	560000	49000	ug/kg																
1,4-Dichlorobenzene	106-46-7	1800	130000	250000	13000	ug/kg																
2-Butanone	78-93-3	120	500000	1000000	100000	ug/kg																
2-Hexanone	591-78-6					ug/kg																
4-Methyl-2-Pentanone	108-10-1					ug/kg																
Acetone	67-64-1	50	500000	1000000	100000	ug/kg																
Benzene	71-43-2	60	44000	89000	4800	ug/kg																
Bromodichloromethane	75-27-4					ug/kg																
Bromoform	75-25-2					ug/kg																
Bromomethane	74-83-9					ug/kg																
Carbon Disulfide	75-15-0					ug/kg																
Carbon Tetrachloride	56-23-5	760	22000	44000	2400	ug/kg																
Chlorobenzene	108-90-7	1100	500000	1000000	100000	ug/kg																
Chlorodibromomethane	124-48-1					ug/kg																
Chloroethane	75-00-3					ug/kg																
Chloroform	67-66-3	370	350000	700000	49000	ug/kg																
Chloromethane	74-87-3					ug/kg																
Cis-1,2-Dichloroethene	156-59-2	250	500000	1000000	100000	ug/kg																
Cis-1,3-Dichloropropene	10061-01-5					ug/kg																
Cyclohexane	110-82-7					ug/kg																
Dichlorodifluoromethane	75-71-8					ug/kg																
Dichloromethane	75-09-2	50	500000	1000000	100000	ug/kg																
Ethylbenzene	100-41-4	1000	390000	780000	41000	ug/kg																
Freon 113	76-13-1					ug/kg																
Isopropyl benzene	98-82-8					ug/kg																

Notes:

VALUE is non-detect.

VALUE exceeds NYS SO Unrestricted SCO.

VALUE is non-detect but the reporting limit exceeds the criteria.



Analyte	CAS Number	NYS SO Unrestricted SCO	NYS SO Restricted Commercial SCO	NYS SO Restricted Industrial SCO	NYS SO Restricted Residential SCO	Units	Location:		S9	S10	S11	S12	S13	S14	S15	S16
							Sample:	Date:	Sample:	Date:	Sample:	Date:	Sample:	Date:	Sample:	Date:
								WSG-S9-0.5-2.0-0 11/11/2019 0.5 - 2 ft	WSG-S10-0.5-2.0-0 11/5/2019 0.5 - 2 ft	WSG-S11-0.5-2.0-0 11/5/2019 0.5 - 2 ft	WSG-S12-0.5-2.0-0 11/4/2019 0.5 - 2 ft	WSG-S13-0.5-2.0-0 11/4/2019 0.5 - 2 ft	WSG-S14-0.5-2.0-0 11/5/2019 0.5 - 2 ft	WSG-S15-0.5-2.0-0 11/5/2019 0.5 - 2 ft	WSG-S16-0.5-2.0-0 11/5/2019 0.5 - 2 ft	
							Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
Methyl acetate	79-20-9					ug/kg										
Methyl T-Butyl Ether (MTBE)	1634-04-4	930	500000	1000000	100000	ug/kg										
Methylcyclohexane	108-87-2					ug/kg										
Styrene	100-42-5					ug/kg										
Tetrachloroethene	127-18-4	1300	150000	300000	19000	ug/kg										
Toluene	108-88-3	700	500000	1000000	100000	ug/kg										
Total Xylenes	1330-20-7	260	500000	1000000	100000	ug/kg										
Trans-1,2-Dichloroethene	156-60-5	190	500000	1000000	100000	ug/kg										
Trans-1,3-Dichloropropene	10061-02-6					ug/kg										
Trichloroethylene	79-01-6	470	200000	400000	21000	ug/kg										
Trichlorofluoromethane	75-69-4					ug/kg										
Vinyl Chloride	75-01-4	20	13000	27000	900	ug/kg										
SVOCs																
1,1-Biphenyl	92-52-4					ug/kg										
1,4-Dioxane	123-91-1	100	130000	250000	13000	ug/kg										
2,4,5-Trichlorophenol	95-95-4					ug/kg										
2,4,6-Trichlorophenol	88-06-2					ug/kg										
2,4-Dichlorophenol	120-83-2					ug/kg										
2,4-Dimethylphenol	105-67-9					ug/kg										
2,4-Dinitrophenol	51-28-5					ug/kg										
2,4-Dinitrotoluene	121-14-2					ug/kg										
2,6-Dinitrotoluene	606-20-2					ug/kg										
2-Chloronaphthalene	91-58-7					ug/kg										
2-Chlorophenol	95-57-8					ug/kg										
2-Methylnaphthalene	91-57-6					ug/kg										
2-Methylphenol	95-48-7	330	500000	1000000	100000	ug/kg										
2-Nitroaniline	88-74-4					ug/kg										
2-Nitrophenol	88-75-5					ug/kg										
3,3'-Dichlorobenzidine	91-94-1					ug/kg										
3-Nitroaniline	99-09-2					ug/kg										
4,6-Dinitro-2-Methylphenol	534-52-1					ug/kg										
4-Bromophenyl Phenyl Ether	101-55-3					ug/kg										
4-Chloro-3-Methylphenol	59-50-7					ug/kg										
4-Chloroaniline	106-47-8					ug/kg										
4-Chlorophenyl Phenylether	7005-72-3					ug/kg										
4-Methylphenol	106-44-5	330	500000	1000000	100000	ug/kg										
4-Nitroaniline	100-01-6					ug/kg										
4-Nitrophenol	100-02-7					ug/kg										
Acenaphthene	83-32-9	20000	500000	1000000	100000	ug/kg										
Acenaphthylene	208-96-8	100000	500000	1000000	100000	ug/kg										
Acetophenone	98-86-2					ug/kg										
Anthracene	120-12-7	100000	500000	1000000	100000	ug/kg										
Atrazine	1912-24-9					ug/kg										
Benzaldehyde	100-52-7					ug/kg										
Benzo(A)Anthracene	56-55-3	1000	5600	11000	1000	ug/kg										
Benzo(A)Pyrene	50-32-8	1000	1000	1100	1000	ug/kg										
Benzo(B)Fluoranthene	205-99-2	1000	5600	11000	1000	ug/kg										
Benzo(G,H,I)Perylene	191-24-2	100000	500000	1000000	100000	ug/kg										
Benzo(K)Fluoranthene	207-08-9	800	56000	110000	3900	ug/kg										
Bis(2-Chloroethoxy) Methane	111-91-1					ug/kg										
Bis(2-Chloroethyl) Ether	111-44-4					ug/kg										
Bis(2-Ethylhexyl) Phthalate	117-81-7					ug/kg										
Bis-Chloroisopropyl Ether	108-60-1					ug/kg										
Butyl Benzyl Phthalate	85-68-7					ug/kg										
Caprolactam	105-60-2					ug/kg										
Carbazole	86-74-8					ug/kg										
Chrysene	218-01-9	1000	56000	110000	3900	ug/kg										
Dibenzo(A,H)Anthracene	53-70-3	330	560	1100	330	ug/kg										
Dibenzofuran	132-64-9	7000	350000	1000000	59000	ug/kg										
Diethylphthalate	84-66-2					ug/kg										
Dimethylphthalate	131-11-3					ug/kg										
Di-N-Butylphthalate	84-74-2					ug/kg										
Di-N-Octyl Phthalate	117-84-0					ug/kg										
Fluoranthene	206-44-0	100000	500000	1000000	100000	ug/kg										
Fluorene	86-73-7	30000	500000	1000000	100000	ug/kg										
Hexachlorobenzene	118-74-1	330	6000	12000	1200	ug/kg										

Notes:
 VALUE is non-detect.
 VALUE exceeds NYS SO Unrestricted SCO.
 VALUE is non-detect but the reporting limit exceeds the criteria.



Analyte	CAS Number	NYS SO Unrestricted SCO	NYS SO Restricted Commercial SCO	NYS SO Restricted Industrial SCO	NYS SO Restricted Residential SCO	Units	Location: Sample: WSG-C11-COMP-0		C12 WSG-C12-COMP-0		C12 (DUP) WSG-C12-COMP-1		DEBRIS WSG-DEB-GR-0	
							Date: 11/12/2019	Depth: 0 ft	Date: 11/12/2019	Depth: 0 ft	Date: 11/12/2019	Depth: 0 ft	Date: 11/5/2019	Depth: 0 ft
							Result	Qual	Result	Qual	Result	Qual	Result	Qual
Styrene	100-42-5					ug/kg	1	U	1.1	U	1.2	U	1.6	U
Tetrachloroethene	127-18-4	1300	150000	300000	19000	ug/kg	1	U	1.1	U	1.2	U	1.6	U
Toluene	108-88-3	700	500000	1000000	100000	ug/kg	1	U	1.1	U	1.2	U	1.6	U
Total Xylenes	1330-20-7	260	500000	1000000	100000	ug/kg	2.1	U	2.1	U	2.5	U	3.3	U
Trans-1,2-Dichloroethene	156-60-5	190	500000	1000000	100000	ug/kg	1	U	1.1	U	1.2	U	1.6	U
Trans-1,3-Dichloropropene	10061-02-6					ug/kg	1	U	1.1	U	1.2	U	1.6	U
Trichloroethylene	79-01-6	470	200000	400000	21000	ug/kg	1	U	1.1	U	1.2	U	1.6	U
Trichlorofluoromethane	75-69-4					ug/kg	1	U	1.1	U	1.2	U	1.6	U
Vinyl Chloride	75-01-4	20	13000	27000	900	ug/kg	1	U	1.1	U	1.2	U	1.6	U
SVOCs														
1,1-Biphenyl	92-52-4					ug/kg	360	U	390	U	390	U	40	J
1,4-Dioxane	123-91-1	100	130000	250000	13000	ug/kg	110	U	120	U	120	U	150	U
2,4,5-Trichlorophenol	95-95-4					ug/kg	360	U	390	U	390	U	490	U
2,4,6-Trichlorophenol	88-06-2					ug/kg	150	U	160	U	160	U	200	U
2,4-Dichlorophenol	120-83-2					ug/kg	150	U	160	U	160	U	200	U
2,4-Dimethylphenol	105-67-9					ug/kg	360	U	390	U	390	U	490	U
2,4-Dinitrophenol	51-28-5					ug/kg	290	U	310	U	310	U	400	U
2,4-Dinitrotoluene	121-14-2					ug/kg	73	U	79	U	79	U	100	U
2,6-Dinitrotoluene	606-20-2					ug/kg	73	U	79	U	79	U	100	U
2-Chloronaphthalene	91-58-7					ug/kg	360	U	390	U	390	U	490	U
2-Chlorophenol	95-57-8					ug/kg	360	U	390	U	390	U	490	U
2-Methylnaphthalene	91-57-6					ug/kg	360	U	390	U	390	U	500	J
2-Methylphenol	95-48-7	330	500000	1000000	100000	ug/kg	360	U	390	U	390	U	490	U
2-Nitroaniline	88-74-4					ug/kg	360	U	390	U	390	U	490	U
2-Nitrophenol	88-75-5					ug/kg	360	U	390	U	390	U	490	U
3,3'-Dichlorobenzidine	91-94-1					ug/kg	150	U	160	U	160	U	200	U
3-Nitroaniline	99-09-2					ug/kg	360	U	390	U	390	U	490	U
4,6-Dinitro-2-Methylphenol	534-52-1					ug/kg	290	U	310	U	310	U	400	U
4-Bromophenyl Phenyl Ether	101-55-3					ug/kg	360	U	390	U	390	U	490	U
4-Chloro-3-Methylphenol	59-50-7					ug/kg	360	U	390	U	390	U	490	U
4-Chloroaniline	106-47-8					ug/kg	360	U	390	U	390	U	490	U
4-Chlorophenyl Phenylether	7005-72-3					ug/kg	360	U	390	U	390	U	490	U
4-Methylphenol	106-44-5	330	500000	1000000	100000	ug/kg	360	U	390	U	390	U	490	U
4-Nitroaniline	100-01-6					ug/kg	360	U	390	U	390	U	490	U
4-Nitrophenol	100-02-7					ug/kg	730	U	790	U	790	U	1000	U
Acenaphthene	83-32-9	20000	500000	1000000	100000	ug/kg	360	U	390	U	390	U	490	U
Acenaphthylene	208-96-8	100000	500000	1000000	100000	ug/kg	360	U	390	U	390	U	31	J
Acetophenone	98-86-2					ug/kg	360	U	390	U	390	U	490	U
Anthracene	120-12-7	100000	500000	1000000	100000	ug/kg	360	U	390	U	390	U	490	U
Atrazine	1912-24-9					ug/kg	150	U	160	U	160	U	200	U
Benzaldehyde	100-52-7					ug/kg	360	U	390	U	390	U	490	U
Benzo(A)Anthracene	56-55-3	1000	5600	11000	1000	ug/kg	26	J-	14	J	39	U	49	U
Benzo(A)Pyrene	50-32-8	1000	1000	1100	1000	ug/kg	32	J-	39	U	39	U	24	J
Benzo(B)Fluoranthene	205-99-2	1000	5600	11000	1000	ug/kg	36	J-	39	U	39	U	29	J
Benzo(G,H,I)Perylene	191-24-2	100000	500000	1000000	100000	ug/kg	20	J-	390	U	390	U	490	U
Benzo(K)Fluoranthene	207-08-9	800	56000	110000	3900	ug/kg	12	J-	39	U	39	U	13	J
Bis(2-Chloroethoxy) Methane	111-91-1					ug/kg	360	U	390	U	390	U	490	U
Bis(2-Chloroethyl) Ether	111-44-4					ug/kg	36	U	39	U	39	U	49	U
Bis(2-Ethylhexyl) Phthalate	117-81-7					ug/kg	360	U	390	U	390	U	490	U
Bis-Chloroisopropyl Ether	108-60-1					ug/kg	360	U	390	U	390	U	490	U
Butyl Benzyl Phthalate	85-68-7					ug/kg	360	U	390	U	390	U	490	U
Caprolactam	105-60-2					ug/kg	360	U	390	U	390	U	490	U
Carbazole	86-74-8					ug/kg	360	U	390	U	390	U	490	U
Chrysene	218-01-9	1000	56000	110000	3900	ug/kg	41	J-	390	U	390	U	29	J
Dibenzo(A,H)Anthracene	53-70-3	330	560	1100	330	ug/kg	36	U	39	U	39	U	49	U
Dibenzofuran	132-64-9	7000	350000	1000000	59000	ug/kg	360	U	390	U	390	U	490	U
Diethylphthalate	84-66-2					ug/kg	360	U	390	U	390	U	490	U
Dimethylphthalate	131-11-3					ug/kg	360	U	390	U	390	U	490	U
Di-N-Butylphthalate	84-74-2					ug/kg	360	U	390	U	390	U	490	U
Di-N-Octyl Phthalate	117-84-0					ug/kg	360	U	390	U	390	U	490	U
Fluoranthene	206-44-0	100000	500000	1000000	100000	ug/kg	18	J-	390	U	390	U	53	J
Fluorene	86-73-7	30000	500000	1000000	100000	ug/kg	360	U	390	U	390	U	46	J
Hexachlorobenzene	118-74-1	330	6000	12000	1200	ug/kg	36	U	39	U	39	U	49	U
Hexachlorobutadiene	87-68-3					ug/kg	73	U	79	U	79	U	100	U
Hexachlorocyclopentadiene	77-47-4					ug/kg	360	U	390	U	390	U	490	U
Hexachloroethane	67-72-1					ug/kg	36	U	39	U	39	U	49	U
Indeno(1,2,3-Cd)Pyrene	193-39-5	500	5600	11000	500	ug/kg	15	J-	39	U	39	U	49	U
Isophorone	78-59-1					ug/kg	150	U	160	U	160	U	200	U
Naphthalene	91-20-3	12000	500000	1000000	100000	ug/kg	360	U	390	U	390	U	600	

Notes:

VALUE is non-detect.

VALUE exceeds NYS SO Unrestricted SCO.

VALUE is non-detect but the reporting limit exceeds the criteria.



Analyte	CAS Number	NYS SO Unrestricted SCO	NYS SO Restricted Commercial SCO	NYS SO Restricted Industrial SCO	NYS SO Restricted Residential SCO	Units	Location: C11		C12		C12 (DUP)		DEBRIS	
							Sample: WSG-C11-COMP-0	Date: 11/12/2019	Depth: 0 ft	Sample: WSG-C12-COMP-0	Date: 11/12/2019	Depth: 0 ft	Sample: WSG-C12-COMP-1	Date: 11/12/2019
							Result	Qual	Result	Qual	Result	Qual	Result	Qual
Nitrobenzene	98-95-3					ug/kg	36	UJ	39	U	39	U	49	U
N-Nitroso-Di-N-Propylamine	621-64-7					ug/kg	36	UJ	39	U	39	U	49	U
N-Nitrosodiphenylamine	86-30-6					ug/kg	360	UJ	390	U	390	U	490	U
Pentachlorophenol	87-86-5	800	6700	55000	6700	ug/kg	290	UJ	310	U	310	U	400	U
Phenanthrene	85-01-8	100000	500000	1000000	100000	ug/kg	10	J-	390	U	390	U	120	J
Phenol	108-95-2	330	500000	1000000	100000	ug/kg	360	UJ	390	U	390	U	490	U
Pyrene	129-00-0	100000	500000	1000000	100000	ug/kg	23	J-	390	U	390	U	56	J
PCBs														
Aroclor 1016	12674-11-2					ug/kg	73	U	79	U	79	U	100	U
Aroclor 1221	11104-28-2	100				ug/kg	73	U	79	U	79	U	100	U
Aroclor 1232	11141-16-5					ug/kg	73	U	79	U	79	U	100	U
Aroclor 1242	53469-21-9					ug/kg	73	U	79	U	79	U	100	U
Aroclor 1248	12672-29-6	100				ug/kg	73	U	79	U	79	U	100	U
Aroclor 1254	11097-69-1	100				ug/kg	73	U	79	U	79	U	100	U
Aroclor 1260	11096-82-5	100				ug/kg	73	U	79	U	79	U	100	U
Aroclor 1262	37324-23-5					ug/kg	73	U	79	U	79	U	100	U
Aroclor 1268	11100-14-4	100				ug/kg	73	U	79	U	79	U	100	U
Total PCBs	1336-36-3	100	1000	25000	1000	ug/kg	73	U	79	U	79	U	100	U
Pesticides														
4,4'-DDD	72-54-8	3.3	92000	180000	13000	ug/kg	7.3	U	7.9	U	7.9	U	10	U
4,4'-DDE	72-55-9	3.3	62000	120000	8900	ug/kg	4.3	J	30	J+	26		12	
4,4'-DDT	50-29-3	3.3	47000	94000	7900	ug/kg	2.7	J	26	J+	24		10	U
Aldrin	309-00-2	5	680	1400	97	ug/kg	7.3	U	7.9	U	7.9	U	10	U
Alpha-BHC	319-84-6	20	3400	6800	480	ug/kg	2.2	U	2.4	U	2.4	U	3	U
Beta-BHC	319-85-7	36	3000	14000	360	ug/kg	2.2	U	2.4	U	2.4	U	3	U
Chlordane (Technical)	12789-03-6	94*	24000*	47000*	4200*	ug/kg	73	U	79	U	79	U	470	
Chlorinated Camphene	8001-35-2					ug/kg	73	U	79	U	79	U	100	U
Delta-Bhc	319-86-8	40	500000	1000000	100000	ug/kg	2.2	U	2.4	U	2.4	U	3	U
Dieldrin	60-57-1	5	1400	2800	200	ug/kg	2.2	U	5.2	J+	4.8		3	U
Endosulfan I	959-98-8	2400	200000	920000	24000	ug/kg	7.3	U	7.9	U	7.9	U	10	U
Endosulfan II	33213-65-9	2400	200000	920000	24000	ug/kg	7.3	U	7.9	U	7.9	U	10	U
Endosulfan Sulfate	1031-07-8	2400	200000	920000	24000	ug/kg	7.3	U	7.9	U	7.9	U	10	U
Endrin	72-20-8	14	89000	410000	11000	ug/kg	7.3	U	7.9	U	7.9	U	10	U
Endrin Aldehyde	7421-93-4					ug/kg	7.3	U	7.9	U	7.9	U	10	U
Endrin Ketone	53494-70-5					ug/kg	7.3	U	7.9	U	7.9	U	10	U
Gamma-BHC (Lindane)	58-89-9	100	9200	23000	1300	ug/kg	2.2	U	2.4	U	2.4	U	3	U
Heptachlor	76-44-8	42	15000	29000	2100	ug/kg	7.3	U	7.9	U	7.9	U	10	U
Heptachlor Epoxide	1024-57-3					ug/kg	7.3	U	7.9	U	7.9	U	10	U
Methoxychlor	72-43-5					ug/kg	7.3	U	7.9	U	7.9	U	10	U
Herbicides														
2,4-D (Dichlorophenoxyacetic Acid)	94-75-7					ug/kg	36	U	39	U	39	U	50	U
Acetic acid, (2,4,5-trichlorophenoxy)-	93-76-5					ug/kg	36	U	39	U	39	U	50	UT
Silvex (2,4,5-TP)	93-72-1	3800	500000	1000000	100000	ug/kg	36	U	39	U	39	U	50	UT
PFAS														
2-(N-methyl perfluorooctanesulfonamido) acetic acid	2355-31-9					ug/kg	2.02	U	2.3	U	2.31	U	2.76	U
N-Ethyl-N-((heptadecafluorooctyl)sulphonyl) glycine	2991-50-6					ug/kg	2.02	U	2.3	U	2.31	U	2.76	U
Perfluorobutanesulfonic Acid (PFBS)	375-73-5					ug/kg	0.2	U	0.23	U	0.23	U	0.28	UT
Perfluorodecanoic Acid (PFDA)	335-76-2					ug/kg	0.056	J	0.15	J	0.081	J	0.28	U
Perfluorododecanoic Acid (PFDoA)	307-55-1					ug/kg	0.2	U	0.23	U	0.23	U	0.28	U
Perfluoroheptanoic Acid (PFHpA)	375-85-9					ug/kg	0.049	J	0.23	U	0.23	U	0.28	U
Perfluorohexanesulfonic Acid	355-46-4					ug/kg	0.038	J	0.23	U	0.23	U	0.28	U
Perfluorohexanoic Acid (PFHxA)	307-24-4					ug/kg	0.2	U	0.23	U	0.23	U	0.28	U
Perfluorononanoic Acid (PFNA)	375-95-1					ug/kg	0.067	J	0.048	J	0.076	J	0.28	U
Perfluorooctane Sulfonic Acid (PFOS)*	1763-23-1	1	1	1	1	ug/kg	0.64	U	0.58	U	1.08	U	0.69	U
Perfluorooctanoic acid (PFOA)*	335-67-1	1	1	1	1	ug/kg	0.15	J	0.23	U	0.1	J	0.28	U
Perfluorotetradecanoic Acid (PFTeA)	376-06-7					ug/kg	0.2	U	0.23	U	0.23	U	0.28	U
Perfluorotridcanoic Acid (PFTriA)	72629-94-8					ug/kg	0.2	U	0.23	U	0.23	U	0.28	U
Perfluoroundecanoic Acid (PFUnA)	2058-94-8					ug/kg	0.044	J	0.043	J	0.046	J	0.28	U

Notes:

VALUE is non-detect.

VALUE exceeds NYS SO Unrestricted SCO.

VALUE is non-detect but the reporting limit exceeds the criteria.

* NYS Part 375 provides a SCO for the cis-chlordane isomer only; however, analytical results are provided for the total of all isomers of chlordane.



Analyte	CAS Number	NYSDEC Groundwater Criteria and Applicable Screening Levels	Units	Location: Sample: Date: Depth:	MW1 WSG-MW1-8-0 11/7/2019 8 ft	MW2 WSG-MW2-10-0 11/6/2019 10 ft	MW3 WSG-MW3-10-0 11/7/2019 10 ft	MW4 WSG-MW4-10-0 11/7/2019 10 ft	MW5 WSG-MW5-13-0 11/7/2019 13 ft	MW6 WSG-MW-6-10-0 11/6/2019 6 ft	MW7 WSG-MW-7-10-0 11/6/2019 7 ft	MW8 WSG-MW8-25-0 11/6/2019 25 ft	MW8 (DUP) WSG-MW8-25-1 11/6/2019 25 ft
				Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
Inorganics													
Aluminum	7429-90-5		ug/l				355	33.9	J	70.6	J	539	
Antimony	7440-36-0	3	ug/l				20	U	20	U	20	U	
Arsenic	7440-38-2	25	ug/l				15	U	15	U	15	U	
Barium	7440-39-3	1000	ug/l				34.3	J	32.6	J	28.6	J	
Beryllium	7440-41-7	3	ug/l				2	U	2	U	2	U	
Boron	7440-42-8	1000	ug/l				36.7	J	28.4	J	42.1	J	31.4
Cadmium	7440-43-9	5	ug/l				4	U	4	U	4	U	
Calcium	7440-70-2		ug/l				12500		9170		8430		6780
Chromium, Total	7440-47-3	50	ug/l				10	U	10	U	10	U	
Cobalt	7440-48-4		ug/l				50	U	50	U	50	U	
Copper	7440-50-8	200	ug/l				7.9	J	25	U	25	U	
Iron	7439-89-6	300	ug/l				164		150	U	150	U	279
Lead	7439-92-1	25	ug/l				10	U	10	U	10	U	
Magnesium	7439-95-4	35000	ug/l				3590	J	3200	J	2530	J	2070
Manganese	7439-96-5	300	ug/l				16.4		12.8	J	12.9	J	37.4
Mercury	7439-97-6	0.7	ug/l				0.2	U	0.2	U	0.2	U	0.14
Molybdenum	7439-98-7		ug/l				20	U	20	U	20	U	
Nickel	7440-02-0	100	ug/l				1.7	J	40	U	40	U	40
Potassium	7440-09-7		ug/l				2870	J	1710	J	1350	J	1180
Selenium	7782-49-2	10	ug/l				20	U	20	U	20	U	
Silver	7440-22-4	50	ug/l				10	U	10	U	10	U	
Sodium	7440-23-5	20000	ug/l				38100		50900		46700		8280
Strontium	7440-24-6		ug/l				52.9		46		37.8		30.6
Thallium	7440-28-0	0.5	ug/l				20	U	20	U	20	U	
Tin	7440-31-5		ug/l				50	U	50	U	50	U	50
Titanium	7440-32-6		ug/l				5.3	J	20	U	20	U	12.6
Vanadium	7440-62-2		ug/l				50	U	50	U	50	U	50
Zinc	7440-66-6	2000	ug/l				5.6	J	7.4	J	6.1	J	6.8
VOCs													
1,1,1-Trichloroethane	71-55-6	5	ug/l				1	U	1	U	1	U	
1,1,2,2-Tetrachloroethane	79-34-5	5	ug/l				1	U	1	U	1	U	
1,1,2-Trichloroethane	79-00-5	1	ug/l				1	U	1	U	1	U	
1,1-Dichloroethane	75-34-3	5	ug/l				1	U	1	U	1	U	
1,1-Dichloroethene	75-35-4	5	ug/l				1	U	1	U	1	U	
1,2,4-Trichlorobenzene	120-82-1	5	ug/l				1	U	1	U	1	U	
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	0.04	ug/l				1	U	1	U	1	U	
1,2-Dibromoethane (Ethylene dibromide)	106-93-4	0.0006	ug/l				1	U	1	U	1	U	
1,2-Dichlorobenzene	95-50-1	3	ug/l				1	U	1	U	1	U	
1,2-Dichloroethane	107-06-2	0.6	ug/l				1	U	1	U	1	U	
1,2-Dichloropropane	78-87-5	1	ug/l				1	U	1	U	1	U	
1,3-Dichlorobenzene	541-73-1	3	ug/l				1	U	1	U	1	U	
1,4-Dichlorobenzene	106-46-7	3	ug/l				1	U	1	U	1	U	
2-Butanone	78-93-3	50	ug/l				5	U	5	U	5	U	5
2-Hexanone	591-78-6	50	ug/l				5	U	5	U	5	U	5
4-Methyl-2-Pentanone	108-10-1		ug/l				5	U	5	U	5	U	5
Acetone	67-64-1	50	ug/l				5	U	5	U	5	U	5
Benzene	71-43-2	1	ug/l				1	U	1	U	1	U	1
Bromodichloromethane	75-27-4	50	ug/l				1	U	1	U	1	U	1
Bromoform	75-25-2	50	ug/l				1	U	1	U	1	U	1
Bromomethane	74-83-9	5	ug/l				1	U	1	U	1	U	1
Carbon Disulfide	75-15-0	60	ug/l				1	U	1	U	1	U	1
Carbon Tetrachloride	56-23-5	5	ug/l				1	U	1	U	1	U	1
Chlorobenzene	108-90-7	5	ug/l				1	U	1	U	1	U	1
Chlorodibromomethane	124-48-1	50	ug/l				1	U	1	U	1	U	1
Chloroethane	75-00-3	5	ug/l				1	U	1	U	1	U	1
Chloroform	67-66-3	7	ug/l				1.1		0.54	J	0.42	J	1
Chloromethane	74-87-3	5	ug/l				1	U	1	U	1	U	1
Cis-1,2-Dichloroethene	156-59-2	5	ug/l				1	U	1	U	1	U	1
Cis-1,3-Dichloropropene	10061-01-5		ug/l				1	U	1	U	1	U	1
Cyclohexane	110-82-7		ug/l				1	U	1	U	1	U	1
Dichlorodifluoromethane	75-71-8	5	ug/l				1	U	1	U	1	U	1
Dichloromethane	75-09-2	5	ug/l				1	U	1	U	1	U	1
Ethylbenzene	100-41-4	5	ug/l				1	U	1	U	1	U	1
Freon 113	76-13-1	5	ug/l				1	U	1	U	1	U	1
Isopropyl benzene	98-82-8	5	ug/l				1	U	1	U	1	U	1
Methyl acetate	79-20-9		ug/l				5	U	5	U	5	U	5

Notes:

VALUE is non-detect.

VALUE exceeds NYSDEC Groundwater Criteria or Applicable Screening Levels.

VALUE is non-detect but the reporting limit exceeds the criteria.



Analyte	CAS Number	NYSDEC Groundwater Criteria and Applicable Screening Levels	Units	Location: Sample: MW1 WSG-MW1-8-0 Date: 11/7/2019 Depth: 8 ft		MW2 WSG-MW2-10-0 Date: 11/6/2019 Depth: 10 ft		MW3 WSG-MW3-10-0 Date: 11/7/2019 Depth: 10 ft		MW4 WSG-MW4-10-0 Date: 11/7/2019 Depth: 10 ft		MW5 WSG-MW5-13-0 Date: 11/7/2019 Depth: 13 ft		MW6 WSG-MW6-6-10-0 Date: 11/6/2019 Depth: 6 ft		MW7 WSG-MW7-10-0 Date: 11/6/2019 Depth: 7 ft		MW8 WSG-MW8-25-0 Date: 11/6/2019 Depth: 25 ft		MW8 (DUP) WSG-MW8-25-1 Date: 11/6/2019 Depth: 25 ft	
				Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
Methyl T-Butyl Ether (MTBE)	1634-04-4	10	ug/l					1	U	1	U	1	U	1	U						
Methylcyclohexane	108-87-2		ug/l					1	U	1	U	1	U	1	U						
Styrene	100-42-5	5	ug/l					1	U	1	U	1	U	1	U						
Tetrachloroethene	127-18-4	5	ug/l					1	U	1	U	1	U	1	U						
Toluene	108-88-3	5	ug/l					1	U	1	U	1	U	1	U						
Total Xylenes	1330-20-7	5	ug/l					2	U	2	U	2	U	2	U						
Trans-1,2-Dichloroethene	156-60-5	5	ug/l					1	U	1	U	1	U	1	U						
Trans-1,3-Dichloropropene	10061-02-6		ug/l					1	U	1	U	1	U	1	U						
Trichloroethylene	79-01-6	5	ug/l					1	U	1	U	1	U	1	U						
Trichlorofluoromethane	75-69-4	5	ug/l					1	U	1	U	1	U	1	U						
Vinyl Chloride	75-01-4	2	ug/l					1	U	1	U	1	U	1	U						
SVOCs																					
1,1-Biphenyl	92-52-4	5	ug/l					10	U	10	U	10	U	10	U						
1,4-Dioxane	123-91-1	1	ug/l					0.4	U	0.4	U	0.4	U	0.4	U						
2,4,5-Trichlorophenol	95-95-4		ug/l					10	U	10	U	10	U	10	U						
2,4,6-Trichlorophenol	88-06-2		ug/l					10	U	10	U	10	U	10	U						
2,4-Dichlorophenol	120-83-2	1	ug/l					10	U	10	U	10	U	10	U						
2,4-Dimethylphenol	105-67-9	50	ug/l					10	U	10	U	10	U	10	U						
2,4-Dinitrophenol	51-28-5	10	ug/l					20	U	20	U	20	U	20	UT						
2,4-Dinitrotoluene	121-14-2	5	ug/l					2	U	2	U	2	U	2	U						
2,6-Dinitrotoluene	606-20-2	5	ug/l					2	U	2	U	2	U	2	U						
2-Chloronaphthalene	91-58-7	10	ug/l					10	U	10	U	10	U	10	U						
2-Chlorophenol	95-57-8		ug/l					10	U	10	U	10	U	10	U						
2-Methylnaphthalene	91-57-6		ug/l					10	U	10	U	10	U	10	U						
2-Methylphenol	95-48-7		ug/l					10	U	10	U	10	U	10	U						
2-Nitroaniline	88-74-4	5	ug/l					10	U	10	U	10	U	10	U						
2-Nitrophenol	88-75-5		ug/l					10	U	10	U	10	U	10	U						
3,3'-Dichlorobenzidine	91-94-1	5	ug/l					10	U	10	U	10	U	10	U						
3-Nitroaniline	99-09-2	5	ug/l					10	U	10	U	10	U	10	U						
4,6-Dinitro-2-Methylphenol	534-52-1		ug/l					20	U	20	U	20	U	20	U						
4-Bromophenyl Phenyl Ether	101-55-3		ug/l					10	U	10	U	10	U	10	U						
4-Chloro-3-Methylphenol	59-50-7		ug/l					10	U	10	U	10	U	10	U						
4-Chloroaniline	106-47-8	5	ug/l					10	U	10	U	10	U	10	U						
4-Chlorophenyl Phenylether	7005-72-3		ug/l					10	U	10	U	10	U	10	U						
4-Methylphenol	106-44-5		ug/l					10	U	10	U	10	U	10	U						
4-Nitroaniline	100-01-6	5	ug/l					10	U	10	U	10	U	10	U						
4-Nitrophenol	100-02-7		ug/l					20	U	20	U	20	U	20	U						
Acenaphthene	83-32-9	20	ug/l					10	U	10	U	10	U	10	U						
Acenaphthylene	208-96-8		ug/l					10	U	10	U	10	U	10	U						
Acetophenone	98-86-2		ug/l					10	U	10	U	10	U	10	U						
Anthracene	120-12-7	50	ug/l					10	U	10	U	10	U	10	U						
Atrazine	1912-24-9	7.5	ug/l						R		R		R	2	U						
Benzaldehyde	100-52-7		ug/l					10	U	10	U	10	U	10	U						
Benzo(A)Anthracene	56-55-3	0.002	ug/l					1	U	1	U	1	U	1	U						
Benzo(A)Pyrene	50-32-8	0	ug/l					1	U	1	U	1	U	1	U						
Benzo(B)Fluoranthene	205-99-2	0.002	ug/l					2	U	2	U	2	U	2	U						
Benzo(G,H,I)Perylene	191-24-2		ug/l					10	U	10	U	10	U	10	U						
Benzo(K)Fluoranthene	207-08-9	0.002	ug/l					1	U	1	U	1	U	1	U						
Bis(2-Chloroethoxy) Methane	111-91-1	5	ug/l					10	U	10	U	10	U	10	U						
Bis(2-Chloroethyl) Ether	111-44-4	1	ug/l					1	U	1	U	1	U	1	U						
Bis(2-Ethylhexyl) Phthalate	117-81-7	5	ug/l					2	U	2	U	2	U	2	U						
Bis-Chloroisopropyl Ether	108-60-1	5	ug/l					10	U	10	U	10	U	10	U						
Butyl Benzyl Phthalate	85-68-7	50	ug/l					10	U	10	U	10	U	10	U						
Caprolactam	105-60-2		ug/l					10	UT	10	UT	10	UT	10	U						
Carbazole	86-74-8		ug/l					10	U	10	U	10	U	10	U						
Chrysene	218-01-9	0.002	ug/l					2	U	2	U	2	U	2	U						
Dibenzo(A,H)Anthracene	53-70-3		ug/l					1	U	1	U	1	U	1	U						
Dibenzofuran	132-64-9		ug/l					10	U	10	U	10	U	10	U						
Diethylphthalate	84-66-2	50	ug/l					10	U	10	U	10	U	10	U						
Dimethylphthalate	131-11-3	50	ug/l					10	U	10	U	10	U	10	U						
Di-N-Butylphthalate	84-74-2	50	ug/l					10	U	10	U	10	U	10	U						
Di-N-Octyl Phthalate	117-84-0		ug/l					10	U	10	U	10	U	10	UT						
Fluoranthene	206-44-0	50	ug/l					10	U	10	U	10	U	10	U						
Fluorene	86-73-7	50	ug/l					10	U	10	U	10	U	10	U						
Hexachlorobenzene	118-74-1	0.04	ug/l					1	U	1	U	1	U	1	U						
Hexachlorobutadiene	87-68-3	0.5	ug/l					1	U	1	U	1	U	1	U						
Hexachlorocyclopentadiene	77-47-4	5	ug/l					10	U	10	U	10	U	10	U						

Notes:
 VALUE is non-detect.
 VALUE exceeds NYSDEC Groundwater Criteria or Applicable Screening Levels.
 VALUE is non-detect but the reporting limit exceeds the criteria.



Table with columns for Analyte, CAS Number, NYSDEC Groundwater Criteria and Applicable Screening Levels, Units, and monitoring wells MW1 through MW8 (DUP). Rows include various hydrocarbons (Hexachloroethane, PAHs), PCBs, pesticides (DDT, Aldrin, etc.), herbicides (2,4-D, etc.), and PFAS (Perfluorinated compounds).

Notes:
VALUE is non-detect.
VALUE exceeds NYSDEC Groundwater Criteria or Applicable Screening Levels.
VALUE is non-detect but the reporting limit exceeds the criteria.



Analyte	CAS Number	NYSDEC Groundwater Criteria and Applicable Screening Levels	Units	Sample:	WSG-EB-BOWL-20191112	WSG-EB-LINER-20191111	WSG-EB-MW-20191107	WSG-EB-SAMPLER-20191111	WSG-EB-SAMPLER-20191112	WSG-EB-SPOON-20191112	WSG-TB-20191106		
				Date:	11/12/2019	11/11/2019	11/7/2019	11/11/2019	11/12/2019	11/12/2019	11/6/2019		
				Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
Inorganics													
Aluminum	7429-90-5		ug/l			200	U	200	U	200	U		
Antimony	7440-36-0	3	ug/l			20	U	20	U	20	U		
Arsenic	7440-38-2	25	ug/l			15	U	15	U	15	U		
Barium	7440-39-3	1000	ug/l			200	U	200	U	200	U		
Beryllium	7440-41-7	3	ug/l			2	U	2	U	2	U		
Boron	7440-42-8	1000	ug/l			50	U	50	U	50	U		
Cadmium	7440-43-9	5	ug/l			4	U	4	U	4	U		
Calcium	7440-70-2		ug/l			5000	U	5000	U	5000	U		
Chromium, Total	7440-47-3	50	ug/l			10	U	10	U	10	U		
Cobalt	7440-48-4		ug/l			50	U	50	U	50	U		
Copper	7440-50-8	200	ug/l			25	U	25	U	25	U		
Iron	7439-89-6	300	ug/l			150	U	150	U	150	U		
Lead	7439-92-1	25	ug/l			10	U	10	U	10	U		
Magnesium	7439-95-4	35000	ug/l			5000	U	5000	U	5000	U		
Manganese	7439-96-5	300	ug/l			1.1	J	15	U	1.5	J		
Mercury	7439-97-6	0.7	ug/l			0.2	U	0.2	U	0.2	U		
Molybdenum	7439-98-7		ug/l			20	U	20	U	20	U		
Nickel	7440-02-0	100	ug/l			40	U	40	U	40	U		
Potassium	7440-09-7		ug/l			5000	U	5000	U	5000	U		
Selenium	7782-49-2	10	ug/l			20	U	20	U	20	U		
Silver	7440-22-4	50	ug/l			10	U	10	U	10	U		
Sodium	7440-23-5	20000	ug/l			5000	U	5000	U	5000	U		
Strontium	7440-24-6		ug/l			20	U	20	U	20	U		
Thallium	7440-28-0	0.5	ug/l			20	U	20	U	20	U		
Tin	7440-31-5		ug/l			50	U	50	U	50	U		
Titanium	7440-32-6		ug/l			20	U	20	U	20	U		
Vanadium	7440-62-2		ug/l			50	U	50	U	50	U		
Zinc	7440-66-6	2000	ug/l			7	J	30	U	8	J		
VOCs													
1,1,1-Trichloroethane	71-55-6	5	ug/l			1	U	1	U	1	U		1
1,1,2,2-Tetrachloroethane	79-34-5	5	ug/l			1	U	1	U	1	U		1
1,1,2-Trichloroethane	79-00-5	1	ug/l			1	U	1	U	1	U		1
1,1-Dichloroethane	75-34-3	5	ug/l			1	U	1	U	1	U		1
1,1-Dichloroethene	75-35-4	5	ug/l			1	U	1	U	1	U		1
1,2,4-Trichlorobenzene	120-82-1	5	ug/l			1	U	1	U	1	U		1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	0.04	ug/l			1	U	1	U	1	U		1
1,2-Dibromoethane (Ethylene dibromide)	106-93-4	0.0006	ug/l			1	U	1	U	1	U		1
1,2-Dichlorobenzene	95-50-1	3	ug/l			1	U	1	U	1	U		1
1,2-Dichloroethane	107-06-2	0.6	ug/l			1	U	1	U	1	U		1
1,2-Dichloropropane	78-87-5	1	ug/l			1	U	1	U	1	U		1
1,3-Dichlorobenzene	541-73-1	3	ug/l			1	U	1	U	1	U		1
1,4-Dichlorobenzene	106-46-7	3	ug/l			1	U	1	U	1	U		1
2-Butanone	78-93-3	50	ug/l			5	U	5	U	5	U		5
2-Hexanone	591-78-6	50	ug/l			5	U	5	U	5	U		5
4-Methyl-2-Pentanone	108-10-1		ug/l			5	U	5	U	5	U		5
Acetone	67-64-1	50	ug/l			5	U	5	U	5	U		5
Benzene	71-43-2	1	ug/l			1	U	1	U	1	U		1
Bromodichloromethane	75-27-4	50	ug/l			1	U	1	U	1	U		1
Bromoform	75-25-2	50	ug/l			1	U	1	U	1	U		1
Bromomethane	74-83-9	5	ug/l			1	U	1	U	1	U		1
Carbon Disulfide	75-15-0	60	ug/l			1	U	1	U	1	U		1
Carbon Tetrachloride	56-23-5	5	ug/l			1	U	1	U	1	U		1
Chlorobenzene	108-90-7	5	ug/l			1	U	1	U	1	U		1
Chlorodibromomethane	124-48-1	50	ug/l			1	U	1	U	1	U		1
Chloroethane	75-00-3	5	ug/l			1	U	1	U	1	U		1
Chloroform	67-66-3	7	ug/l			1	U	1	U	1	U		1
Chloromethane	74-87-3	5	ug/l			1	U	1	U	1	U		1
Cis-1,2-Dichloroethene	156-59-2	5	ug/l			1	U	1	U	1	U		1
Cis-1,3-Dichloropropene	10061-01-5		ug/l			1	U	1	U	1	U		1
Cyclohexane	110-82-7		ug/l			1	U	1	U	1	U		1
Dichlorodifluoromethane	75-71-8	5	ug/l			1	U	1	U	1	U		1
Dichloromethane	75-09-2	5	ug/l			1	U	1	U	1	U		1
Ethylbenzene	100-41-4	5	ug/l			1	U	1	U	1	U		1
Freon 113	76-13-1	5	ug/l			1	U	1	U	1	U		1
Isopropyl benzene	98-82-8	5	ug/l			1	U	1	U	1	U		1

Notes:

VALUE is non-detect.

VALUE exceeds NYSDEC Groundwater Criteria or Applicable Screening Levels.

VALUE is non-detect but the reporting limit exceeds the criteria.



Analyte	CAS Number	NYSDEC Groundwater Criteria and Applicable Screening Levels	Units	Sample: WSG-EB-BOWL-20191112 Date: 11/12/2019		WSG-EB-LINER-20191111 11/11/2019		WSG-EB-MW-20191107 11/7/2019		WSG-EB-SAMPLER-20191111 11/11/2019		WSG-EB-SAMPLER-20191112 11/12/2019		WSG-EB-SPOON-20191112 11/12/2019		WSG-TB-20191106 11/6/2019	
				Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
Methyl acetate	79-20-9		ug/l			5	U	5	U	5	U					5	U
Methyl T-Butyl Ether (MTBE)	1634-04-4	10	ug/l			1	U	1	U	1	U					1	U
Methylcyclohexane	108-87-2		ug/l			1	U	1	U	1	U					1	U
Styrene	100-42-5	5	ug/l			1	U	1	U	1	U					1	U
Tetrachloroethene	127-18-4	5	ug/l			1	U	1	U	1	U					1	U
Toluene	108-88-3	5	ug/l			1	U	1	U	1	U					1	U
Total Xylenes	1330-20-7	5	ug/l			2	U	2	U	2	U					2	U
Trans-1,2-Dichloroethene	156-60-5	5	ug/l			1	U	1	U	1	U					1	U
Trans-1,3-Dichloropropene	10061-02-6		ug/l			1	U	1	U	1	U					1	U
Trichloroethylene	79-01-6	5	ug/l			1	U	1	U	1	U					1	U
Trichlorofluoromethane	75-69-4	5	ug/l			1	U	1	U	1	U					1	U
Vinyl Chloride	75-01-4	2	ug/l			1	U	1	U	1	U					1	U
SVOCs																	
1,1-Biphenyl	92-52-4	5	ug/l			10	U	10	U	10	U						
1,4-Dioxane	123-91-1	1	ug/l			0.4	U	0.4	U	0.4	U						
2,4,5-Trichlorophenol	95-95-4		ug/l			10	U	10	U	10	U						
2,4,6-Trichlorophenol	88-06-2		ug/l			10	U	10	U	10	U						
2,4-Dichlorophenol	120-83-2	1	ug/l			10	U	10	U	10	U						
2,4-Dimethylphenol	105-67-9	50	ug/l			10	U	10	U	10	U						
2,4-Dinitrophenol	51-28-5	10	ug/l			20	U	20	U	20	U						
2,4-Dinitrotoluene	121-14-2	5	ug/l			2	U	2	U	2	U						
2,6-Dinitrotoluene	606-20-2	5	ug/l			2	U	2	U	2	U						
2-Chloronaphthalene	91-58-7	10	ug/l			10	U	10	U	10	U						
2-Chlorophenol	95-57-8		ug/l			10	U	10	U	10	U						
2-Methylnaphthalene	91-57-6		ug/l			10	U	10	U	10	U						
2-Methylphenol	95-48-7		ug/l			10	U	10	U	10	U						
2-Nitroaniline	88-74-4	5	ug/l			10	U	10	U	10	U						
2-Nitrophenol	88-75-5		ug/l			10	U	10	U	10	U						
3,3'-Dichlorobenzidine	91-94-1	5	ug/l			10	U	10	U	10	U						
3-Nitroaniline	99-09-2	5	ug/l			10	U	10	U	10	U						
4,6-Dinitro-2-Methylphenol	534-52-1		ug/l			20	U	20	U	20	U						
4-Bromophenyl Phenyl Ether	101-55-3		ug/l			10	U	10	U	10	U						
4-Chloro-3-Methylphenol	59-50-7		ug/l			10	U	10	U	10	U						
4-Chloroaniline	106-47-8	5	ug/l			10	U	10	U	10	U						
4-Chlorophenyl Phenylether	7005-72-3		ug/l			10	U	10	U	10	U						
4-Methylphenol	106-44-5		ug/l			10	U	10	U	10	U						
4-Nitroaniline	100-01-6	5	ug/l			10	U	10	U	10	U						
4-Nitrophenol	100-02-7		ug/l			20	U	20	U	20	U						
Acenaphthene	83-32-9	20	ug/l			10	U	10	U	10	U						
Acenaphthylene	208-96-8		ug/l			10	U	10	U	10	U						
Acetophenone	98-86-2		ug/l			10	U	10	U	10	U						
Anthracene	120-12-7	50	ug/l			10	U	10	U	10	U						
Atrazine	1912-24-9	7.5	ug/l				R		R		R						
Benzaldehyde	100-52-7		ug/l			10	U	10	U	10	U						
Benzo(A)Anthracene	56-55-3	0.002	ug/l			1	U	1	U	1	U						
Benzo(A)Pyrene	50-32-8		ug/l			1	U	1	U	1	U						
Benzo(B)Fluoranthene	205-99-2	0.002	ug/l			2	U	2	U	2	U						
Benzo(G,H,I)Perylene	191-24-2		ug/l			10	U	10	U	10	U						
Benzo(K)Fluoranthene	207-08-9	0.002	ug/l			1	U	1	U	1	U						
Bis(2-Chloroethoxy) Methane	111-91-1	5	ug/l			10	UT	10	U	10	UT						
Bis(2-Chloroethyl) Ether	111-44-4	1	ug/l			1	U	1	U	1	U						
Bis(2-Ethylhexyl) Phthalate	117-81-7	5	ug/l			2	U	2	U	2	U						
Bis-Chloroisopropyl Ether	108-60-1	5	ug/l			10	UT	10	U	10	UT						
Butyl Benzyl Phthalate	85-68-7	50	ug/l			10	U	10	U	10	U						
Caprolactam	105-60-2		ug/l			10	U	10	UT	10	U						
Carbazole	86-74-8		ug/l			10	U	10	U	10	U						
Chrysene	218-01-9	0.002	ug/l			2	U	2	U	2	U						
Dibenzo(A,H)Anthracene	53-70-3		ug/l			1	U	1	U	1	U						
Dibenzofuran	132-64-9		ug/l			10	U	10	U	10	U						
Diethylphthalate	84-66-2	50	ug/l			10	U	10	U	10	U						
Dimethylphthalate	131-11-3	50	ug/l			10	U	10	U	10	U						
Di-N-Butylphthalate	84-74-2	50	ug/l			10	U	10	U	10	U						
Di-N-Octyl Phthalate	117-84-0		ug/l			10	U	10	U	10	U						
Fluoranthene	206-44-0	50	ug/l			10	U	10	U	10	U						
Fluorene	86-73-7	50	ug/l			10	U	10	U	10	U						
Hexachlorobenzene	118-74-1	0.04	ug/l			1	U	1	U	1	U						

Notes:
 VALUE is non-detect.
 VALUE exceeds NYSDEC Groundwater Criteria or Applicable Screening Levels.
 VALUE is non-detect but the reporting limit exceeds the criteria.



Analyte	CAS Number	NYSDEC Groundwater Criteria and Applicable Screening Levels	Units	Sample Date: WSG-EB-BOWL-20191112 11/12/2019		WSG-EB-LINER-20191111 11/11/2019		WSG-EB-MW-20191107 11/7/2019		WSG-EB-SAMPLER-20191111 11/11/2019		WSG-EB-SAMPLER-20191112 11/12/2019		WSG-EB-SPOON-20191112 11/12/2019		WSG-TB-20191106 11/6/2019	
				Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
Hexachlorobutadiene	87-68-3	0.5	ug/l			1	U	1	U	1	U						
Hexachlorocyclopentadiene	77-47-4	5	ug/l			10	U	10	U	10	U						
Hexachloroethane	67-72-1	5	ug/l			2	U	2	U	2	U						
Indeno(1,2,3-Cd)Pyrene	193-39-5	0.002	ug/l			2	U	2	U	2	U						
Isophorone	78-59-1	50	ug/l			10	UT	10	U	10	UT						
Naphthalene	91-20-3	10	ug/l			10	U	10	U	10	U						
Nitrobenzene	98-95-3	0.4	ug/l			1	U	1	U	1	U						
N-Nitroso-Di-N-Propylamine	621-64-7		ug/l			1	U	1	U	1	U						
N-Nitrosodiphenylamine	86-30-6	50	ug/l			10	U	10	U	10	U						
Pentachlorophenol	87-86-5	1	ug/l			20	U	20	U	20	U						
Phenanthrene	85-01-8	50	ug/l			10	U	10	U	10	U						
Phenol	108-95-2	1	ug/l			10	U	10	U	10	U						
Pyrene	129-00-0	50	ug/l			10	U	10	U	10	U						
PCBs																	
Aroclor 1016	12674-11-2		ug/l			1	U	1	U	1	U						
Aroclor 1221	11104-28-2		ug/l			1	U	1	U	1	U						
Aroclor 1232	11141-16-5		ug/l			1	U	1	U	1	U						
Aroclor 1242	53469-21-9		ug/l			1	U	1	U	1	U						
Aroclor 1248	12672-29-6		ug/l			1	U	1	U	1	U						
Aroclor 1254	11097-69-1		ug/l			1	U	1	U	1	U						
Aroclor 1260	11096-82-5		ug/l			1	U	1	U	1	U						
Aroclor 1262	37324-23-5		ug/l			1	U	1	U	1	U						
Aroclor 1268	11100-14-4		ug/l			1	U	1	U	1	U						
Total PCBs	1336-36-3	5	ug/l														
Pesticides																	
4,4'-DDD	72-54-8	0.3	ug/l			0.04	U	0.04	U	0.04	U						
4,4'-DDE	72-55-9	0.2	ug/l			0.03	U	0.03	U	0.03	U						
4,4'-DDT	50-29-3	0.2	ug/l			0.03	U	0.03	U	0.03	U						
Aldrin	309-00-2		ug/l			0.02	U	0.02	U	0.02	U						
Alpha-BHC	319-84-6	0.01	ug/l			0.02	U	0.02	U	0.02	U						
Beta-BHC	319-85-7	0.04	ug/l			0.03	U	0.03	U	0.03	U						
Chlordane (Technical)	12789-03-6		ug/l			0.5	U	0.5	U	0.5	U						
Chlorinated Camphene	8001-35-2	0.06	ug/l			0.5	U	0.5	U	0.5	U						
Delta-Bhc	319-86-8	0.04	ug/l			0.02	U	0.02	U	0.02	U						
Dieldrin	60-57-1	0.004	ug/l			0.02	U	0.02	U	0.02	U						
Endosulfan I	959-98-8		ug/l			0.03	U	0.03	U	0.03	U						
Endosulfan II	33213-65-9		ug/l			0.03	U	0.03	U	0.03	U						
Endosulfan Sulfate	1031-07-8		ug/l			0.03	UT	0.03	UT	0.03	UT						
Endrin	72-20-8		ug/l			0.03	UT	0.03	UT	0.03	UT						
Endrin Aldehyde	7421-93-4	5	ug/l			0.03	U	0.03	U	0.03	U						
Endrin Ketone	53494-70-5	5	ug/l			0.03	UT	0.03	U	0.03	UT						
Gamma-BHC (Lindane)	58-89-9	0.05	ug/l			0.03	U	0.03	U	0.03	U						
Heptachlor	76-44-8	0.04	ug/l			0.03	U	0.03	U	0.03	U						
Heptachlor Epoxide	1024-57-3	0.03	ug/l			0.03	U	0.03	U	0.03	U						
Methoxychlor	72-43-5	35	ug/l			0.03	U	0.03	U	0.03	U						
Herbicides																	
2,4-D (Dichlorophenoxyacetic Acid)	94-75-7	50	ug/l			1.2	UT	1.2	U	1.2	UT						
Acetic acid, (2,4,5-trichlorophenoxy)-	93-76-5	35	ug/l			1.2	U	1.2	U	1.2	U						
Silvex (2,4,5-TP)	93-72-1	0.26	ug/l			1.2	U	1.2	U	1.2	U						
PFAS																	
2-(N-methyl perfluorooctanesulfonamido) acetic acid	2355-31-9	100	ng/l	18.3	U	19.5	U	19	U	18.1	U	17.4	U	18.3	U		
N-Ethyl-N-((heptadecafluorooctyl)sulphonyl) glycine	2991-50-6	100	ng/l	18.3	U	19.5	U	19	U	18.1	U	17.4	U	18.3	U		
Perfluorobutanesulfonic Acid (PFBS)	375-73-5	100	ng/l	1.83	U	1.95	U	1.9	U	0.24	J	1.74	U	1.83	U		
Perfluorodecanoic Acid (PFDA)	335-76-2	100	ng/l	1.83	U	1.95	U	1.9	U	1.81	U	1.74	U	1.83	U		
Perfluorododecanoic Acid (PFDoA)	307-55-1	100	ng/l	1.83	U	1.95	U	1.9	U	1.81	U	1.74	U	1.83	U		
Perfluoroheptanoic Acid (PFHpA)	375-85-9	100	ng/l	1.83	U	1.95	U	1.9	U	1.81	U	1.74	U	1.83	U		
Perfluorohexanesulfonic Acid	355-46-4	100	ng/l	0.27	BJ	0.27	BJ	0.26	BJ	0.25	BJ	0.31	BJ	0.29	BJ		
Perfluorohexanoic Acid (PFHxA)	307-24-4	100	ng/l	1.83	U	1.95	U	1.9	U	1.81	U	1.74	U	1.83	U		
Perfluorononanoic Acid (PFNA)	375-95-1	100	ng/l	1.83	U	1.95	U	1.9	U	1.81	U	1.74	U	1.83	U		
Perfluorotetradecanoic Acid (PFTeA)	376-06-7	100	ng/l	1.83	U	0.37	J	1.9	U	1.81	U	1.74	U	1.83	U		
Perfluorotridcanoic Acid (PFTriA)	72629-94-8	100	ng/l	1.83	U	1.95	U	1.9	U	1.81	U	1.74	U	1.83	U		
Perfluoroundecanoic Acid (PFUnA)	2058-94-8	100	ng/l	1.83	U	1.95	U	1.9	U	1.81	U	1.74	U	1.83	U		
Perfluorooctane Sulfonic Acid (PFOS)	1763-23-1	10	ng/l	1.83	U	1.95	U	1.9	U	1.81	U	1.74	U	1.83	U		
Perfluorooctanoic acid (PFOA)	335-67-1	10	ng/l	1.83	U	1.95	U	1.9	U	1.81	U	1.74	U	1.83	U		
Total PFOS & PFOA		10	ng/l	1.83	U	1.95	U	1.9	U	1.81	U	1.74	U	1.83	U		
Total PFAS		500	ng/l	0.27		0.64		0.26		0.49		0.31		0.29			

Notes:

VALUE is non-detect.

VALUE exceeds NYSDEC Groundwater Criteria or Applicable Screening Levels.

VALUE is non-detect but the reporting limit exceeds the criteria.



Analyte	CAS Number	NYSDEC Groundwater Criteria and Applicable Screening Levels	Units	Sample: WSG-TB-20191108 Date: 11/8/2019		WSG-TB-20191112 11/12/2019		WSG-TB-20191114 11/14/2019	
				Result	Qual	Result	Qual	Result	Qual
Inorganics									
Aluminum	7429-90-5		ug/l						
Antimony	7440-36-0	3	ug/l						
Arsenic	7440-38-2	25	ug/l						
Barium	7440-39-3	1000	ug/l						
Beryllium	7440-41-7	3	ug/l						
Boron	7440-42-8	1000	ug/l						
Cadmium	7440-43-9	5	ug/l						
Calcium	7440-70-2		ug/l						
Chromium, Total	7440-47-3	50	ug/l						
Cobalt	7440-48-4		ug/l						
Copper	7440-50-8	200	ug/l						
Iron	7439-89-6	300	ug/l						
Lead	7439-92-1	25	ug/l						
Magnesium	7439-95-4	35000	ug/l						
Manganese	7439-96-5	300	ug/l						
Mercury	7439-97-6	0.7	ug/l						
Molybdenum	7439-98-7		ug/l						
Nickel	7440-02-0	100	ug/l						
Potassium	7440-09-7		ug/l						
Selenium	7782-49-2	10	ug/l						
Silver	7440-22-4	50	ug/l						
Sodium	7440-23-5	20000	ug/l						
Strontium	7440-24-6		ug/l						
Thallium	7440-28-0	0.5	ug/l						
Tin	7440-31-5		ug/l						
Titanium	7440-32-6		ug/l						
Vanadium	7440-62-2		ug/l						
Zinc	7440-66-6	2000	ug/l						
VOCs									
1,1,1-Trichloroethane	71-55-6	5	ug/l	1	U	1	U	1	U
1,1,2,2-Tetrachloroethane	79-34-5	5	ug/l	1	U	1	U	1	U
1,1,2-Trichloroethane	79-00-5	1	ug/l	1	U	1	U	1	U
1,1-Dichloroethane	75-34-3	5	ug/l	1	U	1	U	1	U
1,1-Dichloroethene	75-35-4	5	ug/l	1	U	1	U	1	U
1,2,4-Trichlorobenzene	120-82-1	5	ug/l	1	U	1	U	1	U
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	0.04	ug/l	1	U	1	U	1	U
1,2-Dibromoethane (Ethylene dibromide)	106-93-4	0.0006	ug/l	1	U	1	U	1	U
1,2-Dichlorobenzene	95-50-1	3	ug/l	1	U	1	U	1	U
1,2-Dichloroethane	107-06-2	0.6	ug/l	1	U	1	U	1	U
1,2-Dichloropropane	78-87-5	1	ug/l	1	U	1	U	1	U
1,3-Dichlorobenzene	541-73-1	3	ug/l	1	U	1	U	1	U
1,4-Dichlorobenzene	106-46-7	3	ug/l	1	U	1	U	1	U
2-Butanone	78-93-3	50	ug/l	5	U	5	U	5	U
2-Hexanone	591-78-6	50	ug/l	5	U	5	U	5	U
4-Methyl-2-Pentanone	108-10-1		ug/l	5	U	5	U	5	U
Acetone	67-64-1	50	ug/l	5	U	5	U	5	U
Benzene	71-43-2	1	ug/l	1	U	1	U	1	U
Bromodichloromethane	75-27-4	50	ug/l	1	U	1	U	1	U
Bromoform	75-25-2	50	ug/l	1	U	1	U	1	U
Bromomethane	74-83-9	5	ug/l	1	U	1	U	1	U
Carbon Disulfide	75-15-0	60	ug/l	1	U	1	U	1	U
Carbon Tetrachloride	56-23-5	5	ug/l	1	U	1	U	1	U
Chlorobenzene	108-90-7	5	ug/l	1	U	1	U	1	U
Chlorodibromomethane	124-48-1	50	ug/l	1	U	1	U	1	U
Chloroethane	75-00-3	5	ug/l	1	U	1	U	1	U
Chloroform	67-66-3	7	ug/l	1	U	1	U	1	U
Chloromethane	74-87-3	5	ug/l	1	U	1	U	1	U
Cis-1,2-Dichloroethene	156-59-2	5	ug/l	1	U	1	U	1	U
Cis-1,3-Dichloropropene	10061-01-5		ug/l	1	U	1	U	1	U
Cyclohexane	110-82-7		ug/l	1	U	1	U	1	U
Dichlorodifluoromethane	75-71-8	5	ug/l	1	U	1	U	1	U
Dichloromethane	75-09-2	5	ug/l	1	U	1	U	1	U
Ethylbenzene	100-41-4	5	ug/l	1	U	1	U	1	U
Freon 113	76-13-1	5	ug/l	1	U	1	U	1	U
Isopropyl benzene	98-82-8	5	ug/l	1	U	1	U	1	U

Notes:

VALUE is non-detect.

VALUE exceeds NYSDEC Groundwater Criteria or Applicable Screening Levels.

VALUE is non-detect but the reporting limit exceeds the criteria.



Analyte	CAS Number	NYSDEC Groundwater Criteria and Applicable Screening Levels	Units	Sample: WSG-TB-20191108 Date: 11/8/2019		WSG-TB-20191112 11/12/2019		WSG-TB-20191114 11/14/2019	
				Result	Qual	Result	Qual	Result	Qual
Methyl acetate	79-20-9		ug/l	5	U	5	U	5	U
Methyl T-Butyl Ether (MTBE)	1634-04-4	10	ug/l	1	U	1	U	1	U
Methylcyclohexane	108-87-2		ug/l	1	U	1	U	1	U
Styrene	100-42-5	5	ug/l	1	U	1	U	1	U
Tetrachloroethene	127-18-4	5	ug/l	1	U	1	U	1	U
Toluene	108-88-3	5	ug/l	1	U	1	U	1	U
Total Xylenes	1330-20-7	5	ug/l	2	U	2	U	2	U
Trans-1,2-Dichloroethene	156-60-5	5	ug/l	1	U	1	U	1	U
Trans-1,3-Dichloropropene	10061-02-6		ug/l	1	U	1	U	1	U
Trichloroethylene	79-01-6	5	ug/l	1	U	1	U	1	U
Trichlorofluoromethane	75-69-4	5	ug/l	1	U	1	U	1	U
Vinyl Chloride	75-01-4	2	ug/l	1	U	1	U	1	U
SVOCs									
1,1-Biphenyl	92-52-4	5	ug/l						
1,4-Dioxane	123-91-1	1	ug/l						
2,4,5-Trichlorophenol	95-95-4		ug/l						
2,4,6-Trichlorophenol	88-06-2		ug/l						
2,4-Dichlorophenol	120-83-2	1	ug/l						
2,4-Dimethylphenol	105-67-9	50	ug/l						
2,4-Dinitrophenol	51-28-5	10	ug/l						
2,4-Dinitrotoluene	121-14-2	5	ug/l						
2,6-Dinitrotoluene	606-20-2	5	ug/l						
2-Chloronaphthalene	91-58-7	10	ug/l						
2-Chlorophenol	95-57-8		ug/l						
2-Methylnaphthalene	91-57-6		ug/l						
2-Methylphenol	95-48-7		ug/l						
2-Nitroaniline	88-74-4	5	ug/l						
2-Nitrophenol	88-75-5		ug/l						
3,3'-Dichlorobenzidine	91-94-1	5	ug/l						
3-Nitroaniline	99-09-2	5	ug/l						
4,6-Dinitro-2-Methylphenol	534-52-1		ug/l						
4-Bromophenyl Phenyl Ether	101-55-3		ug/l						
4-Chloro-3-Methylphenol	59-50-7		ug/l						
4-Chloroaniline	106-47-8	5	ug/l						
4-Chlorophenyl Phenylether	7005-72-3		ug/l						
4-Methylphenol	106-44-5		ug/l						
4-Nitroaniline	100-01-6	5	ug/l						
4-Nitrophenol	100-02-7		ug/l						
Acenaphthene	83-32-9	20	ug/l						
Acenaphthylene	208-96-8		ug/l						
Acetophenone	98-86-2		ug/l						
Anthracene	120-12-7	50	ug/l						
Atrazine	1912-24-9	7.5	ug/l						
Benzaldehyde	100-52-7		ug/l						
Benzo(A)Anthracene	56-55-3	0.002	ug/l						
Benzo(A)Pyrene	50-32-8		ug/l						
Benzo(B)Fluoranthene	205-99-2	0.002	ug/l						
Benzo(G,H,I)Perylene	191-24-2		ug/l						
Benzo(K)Fluoranthene	207-08-9	0.002	ug/l						
Bis(2-Chloroethoxy) Methane	111-91-1	5	ug/l						
Bis(2-Chloroethyl) Ether	111-44-4	1	ug/l						
Bis(2-Ethylhexyl) Phthalate	117-81-7	5	ug/l						
Bis-Chloroisopropyl Ether	108-60-1	5	ug/l						
Butyl Benzyl Phthalate	85-68-7	50	ug/l						
Caprolactam	105-60-2		ug/l						
Carbazole	86-74-8		ug/l						
Chrysene	218-01-9	0.002	ug/l						
Dibenzo(A,H)Anthracene	53-70-3		ug/l						
Dibenzofuran	132-64-9		ug/l						
Diethylphthalate	84-66-2	50	ug/l						
Dimethylphthalate	131-11-3	50	ug/l						
Di-N-Butylphthalate	84-74-2	50	ug/l						
Di-N-Octyl Phthalate	117-84-0		ug/l						
Fluoranthene	206-44-0	50	ug/l						
Fluorene	86-73-7	50	ug/l						
Hexachlorobenzene	118-74-1	0.04	ug/l						

Notes:

VALUE is non-detect.

VALUE exceeds NYSDEC Groundwater Criteria or Applicable Screening Levels.

VALUE is non-detect but the reporting limit exceeds the criteria.



Analyte	CAS Number	NYSDEC Groundwater Criteria and Applicable Screening Levels	Units	Sample: Date:		WSG-TB-20191108 11/8/2019		WSG-TB-20191112 11/12/2019		WSG-TB-20191114 11/14/2019	
				Result	Qual	Result	Qual	Result	Qual		
Hexachlorobutadiene	87-68-3	0.5	ug/l								
Hexachlorocyclopentadiene	77-47-4	5	ug/l								
Hexachloroethane	67-72-1	5	ug/l								
Indeno(1,2,3-Cd)Pyrene	193-39-5	0.002	ug/l								
Isophorone	78-59-1	50	ug/l								
Naphthalene	91-20-3	10	ug/l								
Nitrobenzene	98-95-3	0.4	ug/l								
N-Nitroso-Di-N-Propylamine	621-64-7		ug/l								
N-Nitrosodiphenylamine	86-30-6	50	ug/l								
Pentachlorophenol	87-86-5	1	ug/l								
Phenanthrene	85-01-8	50	ug/l								
Phenol	108-95-2	1	ug/l								
Pyrene	129-00-0	50	ug/l								
PCBs											
Aroclor 1016	12674-11-2		ug/l								
Aroclor 1221	11104-28-2		ug/l								
Aroclor 1232	11141-16-5		ug/l								
Aroclor 1242	53469-21-9		ug/l								
Aroclor 1248	12672-29-6		ug/l								
Aroclor 1254	11097-69-1		ug/l								
Aroclor 1260	11096-82-5		ug/l								
Aroclor 1262	37324-23-5		ug/l								
Aroclor 1268	11100-14-4		ug/l								
Total PCBs	1336-36-3	5	ug/l								
Pesticides											
4,4'-DDD	72-54-8	0.3	ug/l								
4,4'-DDE	72-55-9	0.2	ug/l								
4,4'-DDT	50-29-3	0.2	ug/l								
Aldrin	309-00-2		ug/l								
Alpha-BHC	319-84-6	0.01	ug/l								
Beta-BHC	319-85-7	0.04	ug/l								
Chlordane (Technical)	12789-03-6		ug/l								
Chlorinated Camphene	8001-35-2	0.06	ug/l								
Delta-Bhc	319-86-8	0.04	ug/l								
Dieldrin	60-57-1	0.004	ug/l								
Endosulfan I	959-98-8		ug/l								
Endosulfan II	33213-65-9		ug/l								
Endosulfan Sulfate	1031-07-8		ug/l								
Endrin	72-20-8		ug/l								
Endrin Aldehyde	7421-93-4	5	ug/l								
Endrin Ketone	53494-70-5	5	ug/l								
Gamma-BHC (Lindane)	58-89-9	0.05	ug/l								
Heptachlor	76-44-8	0.04	ug/l								
Heptachlor Epoxide	1024-57-3	0.03	ug/l								
Methoxychlor	72-43-5	35	ug/l								
Herbicides											
2,4-D (Dichlorophenoxyacetic Acid)	94-75-7	50	ug/l								
Acetic acid, (2,4,5-trichlorophenoxy)-	93-76-5	35	ug/l								
Silvex (2,4,5-TP)	93-72-1	0.26	ug/l								
PFAS											
2-(N-methyl perfluorooctanesulfonamido) acetic acid	2355-31-9	100	ng/l								
N-Ethyl-N-((heptadecafluorooctyl)sulphonyl) glycine	2991-50-6	100	ng/l								
Perfluorobutanesulfonic Acid (PFBS)	375-73-5	100	ng/l								
Perfluorodecanoic Acid (PFDA)	335-76-2	100	ng/l								
Perfluorododecanoic Acid (PFDoA)	307-55-1	100	ng/l								
Perfluoroheptanoic Acid (PFHpA)	375-85-9	100	ng/l								
Perfluorohexanesulfonic Acid	355-46-4	100	ng/l								
Perfluorohexanoic Acid (PFHxA)	307-24-4	100	ng/l								
Perfluorononanoic Acid (PFNA)	375-95-1	100	ng/l								
Perfluorotetradecanoic Acid (PFTeA)	376-06-7	100	ng/l								
Perfluorotridcanoic Acid (PFTriA)	72629-94-8	100	ng/l								
Perfluoroundecanoic Acid (PFUnA)	2058-94-8	100	ng/l								
Perfluorooctane Sulfonic Acid (PFOS)	1763-23-1	10	ng/l								
Perfluorooctanoic acid (PFOA)	335-67-1	10	ng/l								
Total PFOS & PFOA		10	ng/l								
Total PFAS		500	ng/l								

Notes:

VALUE is non-detect.

VALUE exceeds NYSDEC Groundwater Criteria or Applicable Screening Levels.

VALUE is non-detect but the reporting limit exceeds the criteria.

Qualifiers	Definitions
B	Analyte was found in the associated method blank as well as in the sample.
EMPC	Estimated maximum possible concentration. Indicates that a peak is detected but did not meet all the method required criteria.
J	Estimated value. +/- indicates direction of bias.
R	Result was rejected by validator.
T	Tentatively identified compound and an estimated value.
U	Result was not detected. Reporting detection limit is listed instead.

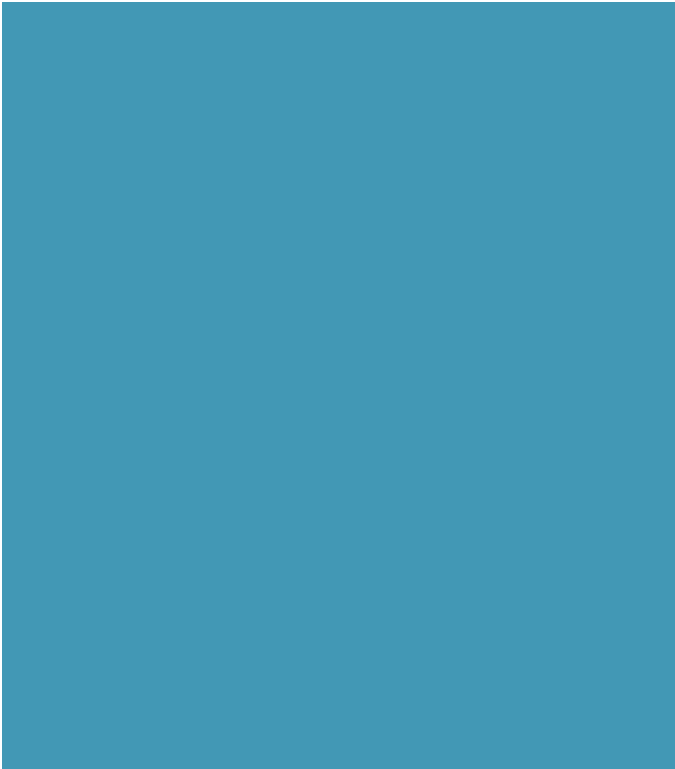
Matrix	Applicable Criteria	Definitions
Groundwater	NYSDEC Groundwater Criteria and Applicable Screening Levels	New York State Part 703.5 Criteria, Class GA (a) Guidelines for Sampling and Analysis of PFAS (c) 1,4-Dioxane Maximum Contaminant Levels (d)
Soil	NYS SO Unrestricted SCO NYS SO Restricted Commercial SCO NYS SO Restricted Industrial SCO NYS SO Restricted Residential SCO PFAS Testing for Imported Soil	NYSDEC Soil Cleanup Objectives Unrestricted (b), (e) NYSDEC Soil Cleanup Objectives Restricted Commercial (b), (e) NYSDEC Soil Cleanup Objectives Restricted Industrial (b), (e) NYSDEC Soil Cleanup Objectives Restricted Residential (b), (e) Guidelines for Sampling and Analysis of PFAS (c)

References:

- (a) New York State Part 703.5 Water quality standards for taste-, color- and odor-producing, toxic and other deleterious substances
[https://govt.westlaw.com/nycrr/Document/14ed90418cd1711dda432a117e6e0f345?viewType=FullText&originationContext=documenttoc&transitionType=CategoryPageItem&contextData=\(sc.Default\)&bhcp=1](https://govt.westlaw.com/nycrr/Document/14ed90418cd1711dda432a117e6e0f345?viewType=FullText&originationContext=documenttoc&transitionType=CategoryPageItem&contextData=(sc.Default)&bhcp=1)
- (b) 6 NYCRR Part 375 Environmental Remediation Programs Subpart 375-6.8
https://www.dec.ny.gov/docs/remediation_hudson_pdf/part375.pdf
- (c) Guidelines for Sampling and Analysis of PFAS Under NYSDEC's Part 375 Remedial Programs, January 2020
https://www.dec.ny.gov/docs/remediation_hudson_pdf/pfassampanaly.pdf
- (d) Drinking Water Quality Council Recommends Nation's Most Protective Maximum Contaminant Levels for Three Unregulated Contaminants in Drinking Water
https://www.health.ny.gov/press/releases/2018/2018-12-18_drinking_water_quality_council_recommendations.htm
- (e) Sampling for 1,4-Dioxane and Per- and Polyfluoroalkyl Substances (PFAS) Under DEC's Part 375 Remedial Programs, June 2019
<https://nysba.org/app/uploads/2020/02/DEC-Sampling-for-PFAS-and-14-Dioxane-in-Part-375-Remedial-Programs.pdf>

Notes:


There were no exceedances of NYSDEC SCO Restricted Criteria (Commercial, Industrial, or Residential) in any sample.
*The 1 ug/kg criteria used for PFOA and PFOS is testing for imported soil only, as outlined in the January 2020 PFAS Guidelines.
https://www.dec.ny.gov/docs/remediation_hudson_pdf/pfassampanaly.pdf

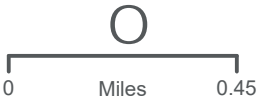


Figures



LEGEND

 Wainscott Sand & Gravel



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SITE LOCATION MAP
WAINSCOTT SAND & GRAVEL

FIGURE 1





Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

SAMPLING LOCATIONS MAP
SAWMILL CREEK
FIGURE 2



Sample: Date: Depth:	WSG-GS1-0.0-0.2-0 11/11/2019 0 - 0.2 ft	WSG-GS1-0.0-0.2-1 (DUP) 11/11/2019 0 - 0.2 ft	WSG-GS1-0.5-2.0-0 11/11/2019 0.5 - 2 ft
Inorganics			
	Detections, No Exceedances	Detections, No Exceedances	
VOCs			
	Detections, No Exceedances	Detections, No Exceedances	Detections, No Exceedances
SVOCs			
	Detections, No Exceedances	Detections, No Exceedances	
PCBs			
	No Detections	No Detections	
Pesticides			
4,4'-DDE	No Detections	14	
4,4'-DDT	7.3 J	8 J	
Dieldrin	Detections, No Exceedances	5	
Herbicides			
	No Detections	No Detections	

Sample: Date: Depth:	WSG-GS9-0.0-0.2-0 11/11/2019 0 - 0.2 ft	WSG-GS9-0.5-2.0-0 11/11/2019 0.5 - 2 ft
Inorganics		
	Detections, No Exceedances	Detections, No Exceedances
VOCs		
	No Detections	No Detections
SVOCs		
	Detections, No Exceedances	Detections, No Exceedances
PCBs		
	No Detections	No Detections
Pesticides		
	No Detections	No Detections
Herbicides		
	No Detections	No Detections

Sample: Date: Depth:	WSG-GS5-0.0-0.2-0 11/4/2019 0 - 0.2 ft	WSG-GS5-0.5-2.0-0 11/4/2019 0.5 - 2 ft
Inorganics		
	Detections, No Exceedances	Detections, No Exceedances
VOCs		
	Detections, No Exceedances	No Detections
SVOCs		
	Detections, No Exceedances	Detections, No Exceedances
PCBs		
	No Detections	No Detections
Pesticides		
4,4'-DDE	8.7 J	No Detections
Herbicides		
	No Detections	No Detections

Sample: Date: Depth:	WSG-GS4-0.0-0.2-0 11/4/2019 0 - 0.2 ft	WSG-GS4-0.5-2.0-0 11/4/2019 0.5 - 2 ft
Inorganics		
	Detections, No Exceedances	Detections, No Exceedances
VOCs		
	No Detections	No Detections
SVOCs		
	Detections, No Exceedances	No Detections
PCBs		
	No Detections	No Detections
Pesticides		
4,4'-DDE	No Detections	8.4
Herbicides		
	No Detections	No Detections

Sample: Date: Depth:	WSG-GS7-0.0-0.2-0 11/4/2019 0 - 0.2 ft	WSG-GS7-0.5-2.0-0 11/4/2019 0.5 - 2 ft
Inorganics		
	Detections, No Exceedances	Detections, No Exceedances
VOCs		
	No Detections	No Detections
SVOCs		
	Detections, No Exceedances	Detections, No Exceedances
PCBs		
	No Detections	No Detections
Pesticides		
4,4'-DDD	No Detections	4.7 J
4,4'-DDE	8.6 J	No Detections
Herbicides		
	No Detections	No Detections

Sample: Date: Depth:	WSG-GS2-0.0-0.2-0 11/12/2019 0 - 0.2 ft	WSG-GS2-0.5-2.0-0 11/7/2019 0.5 - 2 ft
Inorganics		
	Detections, No Exceedances	Detections, No Exceedances
VOCs		
	Detections, No Exceedances	No Detections
SVOCs		
	No Detections	No Detections
PCBs		
	No Detections	No Detections
Pesticides		
4,4'-DDD	No Detections	6.2 J
4,4'-DDE	5.4 J	8.6
4,4'-DDT	3.8 J	11 J
Herbicides		
	No Detections	No Detections

Sample: Date: Depth:	WSG-GS3-0.0-0.2-0 11/5/2019 0 - 0.2 ft	WSG-GS3-0.5-2.0-0 11/5/2019 0.5 - 2 ft
Inorganics		
	Detections, No Exceedances	Detections, No Exceedances
VOCs		
	Detections, No Exceedances	No Detections
SVOCs		
	Detections, No Exceedances	No Detections
PCBs		
	No Detections	No Detections
Pesticides		
4,4'-DDD	8.9 J	No Detections
4,4'-DDE	24	No Detections
4,4'-DDT	Detections, No Exceedances	9.4
Herbicides		
	No Detections	No Detections

Sample: Date: Depth:	WSG-GS6-0.0-0.2-0 11/11/2019 0 - 0.2 ft	WSG-GS6-0.5-2.0-0 11/11/2019 0.5 - 2 ft
Inorganics		
	Detections, No Exceedances	Detections, No Exceedances
VOCs		
	No Detections	No Detections
SVOCs		
	Detections, No Exceedances	Detections, No Exceedances
PCBs		
	No Detections	No Detections
Pesticides		
	No Detections	No Detections
Herbicides		
	No Detections	No Detections

Sample: Date: Depth:	WSG-GS8-0.0-0.2-0 11/4/2019 0 - 0.2 ft	WSG-GS8-0.5-2.0-0 11/4/2019 0.5 - 2 ft
Inorganics		
	Detections, No Exceedances	Detections, No Exceedances
VOCs		
	No Detections	No Detections
SVOCs		
	No Detections	No Detections
PCBs		
	No Detections	No Detections
Pesticides		
	No Detections	No Detections
Herbicides		
	No Detections	No Detections

● Probe Soil Locations

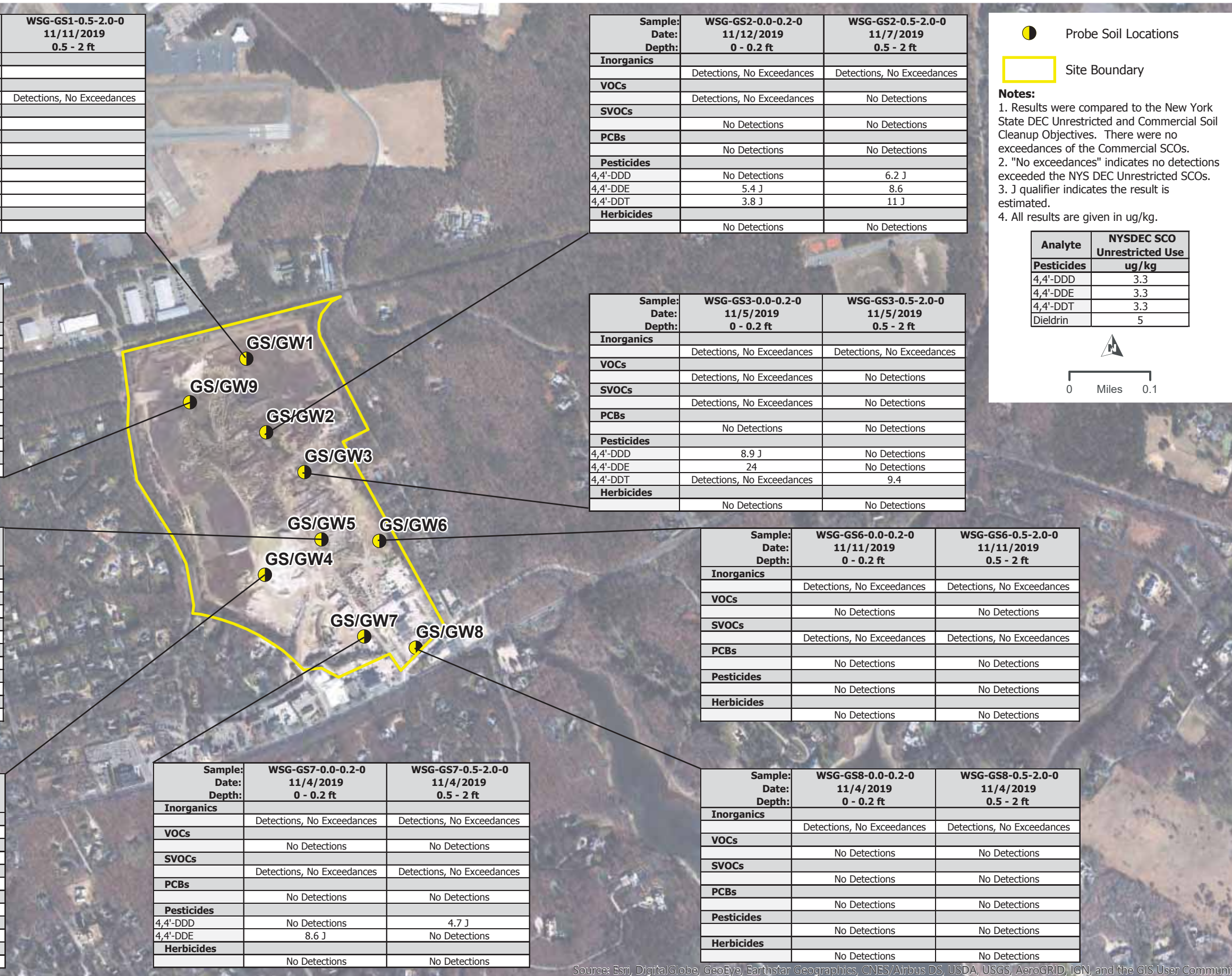
□ Site Boundary

Notes:

1. Results were compared to the New York State DEC Unrestricted and Commercial Soil Cleanup Objectives. There were no exceedances of the Commercial SCOs.
2. "No exceedances" indicates no detections exceeded the NYS DEC Unrestricted SCOs.
3. J qualifier indicates the result is estimated.
4. All results are given in ug/kg.

Analyte	NYSDEC SCO Unrestricted Use ug/kg
4,4'-DDD	3.3
4,4'-DDE	3.3
4,4'-DDT	3.3
Dieldrin	5

0 Miles 0.1



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

SOIL BORING ANALYTICAL RESULTS – EXCEEDANCES ONLY

WAINSCOTT SAND & GRAVEL

FIGURE 3



Sample: Date: Depth (ft):	WSG-GS2-0.0-0.2-0 11/12/2019 0 - 0.2 ft	WSG-GS2-0.5-2.0-0 11/7/2019 0.5 - 2 ft	WSG-GS2-0.5-2.0-1 (DUP) 11/7/2019 0.5 - 2 ft	WSG-GS2-6.0-8.0-0 11/7/2019 6 - 8 ft
Perfluorodecanoic Acid (PFDA)	0.039 J	0.029 J	0.21 U	0.13 J
Perfluoroheptanoic Acid (PFHpA)	0.24 U	0.044 J	0.21 U	0.22 U
Perfluorohexanesulfonic Acid	0.24 U	0.23 U	0.21 U	0.069 J
Perfluorohexanoic Acid (PFHxA)	0.24 U	0.081 J	0.064 J	0.22 U
Perfluorononanoic Acid (PFNA)	0.24 U	0.23 U	0.21 U	0.041 J
Perfluorooctanoic acid (PFOA)	0.24 U	0.13 J	0.095 J	0.1 J
Perfluoroundecanoic Acid (PFUnA)	0.24 U	0.046 J	0.21 U	0.22 U

● Probe Soil Locations

□ Site Boundary

Notes:

1. There are no PFAS criteria for New York State DEC Unrestricted and Commercial Soil Cleanup Objectives. All detections are shown.
2. B qualifier indicates contamination was detected in the associated blank sample.
3. J qualifier indicates the result is estimated.
4. U qualifier indicates the result is non-detect; the result detection limit is shown.
5. All results are in ug/kg (ppb).

Sample: Date: Depth (ft):	WSG-GS1-0.0-0.2-0 11/11/2019 0 - 0.2 ft	WSG-GS1-0.0-0.2-1 (DUP) 11/11/2019 0 - 0.2 ft	WSG-GS1-0.5-2.0-0 11/11/2019 0.5 - 2 ft
Perfluorodecanoic Acid (PFDA)	0.081 J	0.087 J	0.04 J
Perfluorohexanesulfonic Acid	0.23 U	0.036 J	0.2 U
Perfluorononanoic Acid (PFNA)	0.064 J	0.057 J	0.047 J
Perfluorotridcanoic Acid (PFTriA)	0.23 U	0.088 J	0.2 U
Perfluoroundecanoic Acid (PFUnA)	0.13 J	0.16 J	0.049 J

Sample: Date: Depth (ft):	WSG-GS9-0.0-0.2-0 11/11/2019 0 - 0.2 ft	WSG-GS9-0.5-2.0-0 11/11/2019 0.5 - 2 ft	WSG-GS9-3-5-0 11/12/2019 3 - 5 ft
Perfluorodecanoic Acid (PFDA)	0.037 J	0.084 J	0.21 U
Perfluorohexanesulfonic Acid	0.21 U	0.032 J	0.033 J
Perfluorononanoic Acid (PFNA)	0.21 U	0.21 U	0.041 J

Sample: Date: Depth (ft):	WSG-GS5-0.0-0.2-0 11/4/2019 0 - 0.2 ft	WSG-GS5-0.5-2.0-0 11/4/2019 0.5 - 2 ft	WSG-GS5-7-8-0 11/5/2019 7 - 8 ft
Perfluorodecanoic Acid (PFDA)	0.081 J	0.22 U	0.21 U
Perfluorohexanesulfonic Acid	0.037 J	0.22 U	0.033 J
Perfluorooctane Sulfonic Acid (PFOS)	0.65 B	0.34 BJ	1.05
Perfluorooctanoic acid (PFOA)	0.11 J	0.22 U	0.21 U
Perfluoroundecanoic Acid (PFUnA)	0.043 J	0.22 U	0.21 U

Sample: Date: Depth (ft):	WSG-GS4-0.0-0.2-0 11/4/2019 0 - 0.2 ft	WSG-GS4-0.5-2.0-0 11/4/2019 0.5 - 2 ft	WSG-GS4-2.5-3.5-0 11/4/2019 2.5 - 3.5 ft
Perfluorodecanoic Acid (PFDA)	0.19 U	0.2 U	0.039 J
Perfluorooctane Sulfonic Acid (PFOS)	0.44 BJ	0.37 BJ	0.55 B
Perfluoroundecanoic Acid (PFUnA)	0.19 U	0.2 U	0.04 J

Sample: Date: Depth (ft):	WSG-GS6-0.0-0.2-0 11/11/2019 0 - 0.2 ft	WSG-GS6-0.5-2.0-0 11/11/2019 0.5 - 2 ft	WSG-GS6-6-8-0 11/11/2019 6 - 8 ft	WSG-GS6-6-8-1 (DUP) 11/11/2019 6 - 8 ft
Perfluorodecanoic Acid (PFDA)	0.083 J	0.059 J	0.2 U	0.21 U
Perfluorononanoic Acid (PFNA)	0.049 J	0.061 J	0.2 U	0.21 U
Perfluorooctane Sulfonic Acid (PFOS)	0.95	0.92	0.21 J	0.26 J
Perfluoroundecanoic Acid (PFUnA)	0.066 J	0.039 J	0.2 U	0.21 U

Sample: Date: Depth (ft):	WSG-GS3-0.0-0.2-0 11/5/2019 0 - 0.2 ft	WSG-GS3-0.5-2.0-0 11/5/2019 0.5 - 2 ft
Perfluorodecanoic Acid (PFDA)	0.057 J	0.22 U
Perfluorononanoic Acid (PFNA)	0.064 J	0.22 U
Perfluorooctane Sulfonic Acid (PFOS)	0.81	0.33 J
Perfluoroundecanoic Acid (PFUnA)	0.057 J	0.22 U

Sample: Date: Depth (ft):	WSG-GS8-0.0-0.2-0 11/4/2019 0 - 0.2 ft	WSG-GS8-0.5-2.0-0 11/4/2019 0.5 - 2 ft
Perfluorodecanoic Acid (PFDA)	0.075 J	0.088 J
Perfluoroheptanoic Acid (PFHpA)	0.2 U	0.031 BJ
Perfluorononanoic Acid (PFNA)	0.2 U	0.04 J
Perfluorooctane Sulfonic Acid (PFOS)	0.31 BJ	0.52 B
Perfluoroundecanoic Acid (PFUnA)	0.059 J	0.24 U

Sample: Date: Depth (ft):	WSG-GS7-0.0-0.2-0 11/4/2019 0 - 0.2 ft	WSG-GS7-0.5-2.0-0 11/4/2019 0.5 - 2 ft	WSG-GS7-2.0-3.5-0 11/4/2019 2 - 3.5 ft
Perfluorobutanesulfonic Acid (PFBS)	0.21 U	0.21 U	0.039 J
Perfluorooctane Sulfonic Acid (PFOS)	0.3 BJ	0.23 BJ	0.23 BJ

Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

PROBE SOIL PFAS ANALYTICAL RESULTS – DETECTIONS ONLY

WAINSCOTT SAND & GRAVEL

FIGURE 3A





⊕ Soil Sampling Locations
 □ Site Boundary

Notes:
 1. Results were compared to the New York State DEC Unrestricted and Commercial Soil Cleanup Objectives. There were no exceedances of either criteria.

0 Miles 0.07

Sample:	WSG-S19-0.0-0.2-0	WSG-S19-0.5-2.0-0
Date:	11/8/2019	11/8/2019
Depth:	0 - 0.2 ft	0.5 - 2 ft
Inorganics	Detections, No Exceedances	Detections, No Exceedances
VOCs	Detections, No Exceedances	No Detections
SVOCs	Detections, No Exceedances	Detections, No Exceedances
PCBs	No Detections	No Detections
Pesticides	No Detections	No Detections
Herbicides	No Detections	No Detections

Sample:	WSG-S21-0.0-0.2-0	WSG-S21-0.5-2.0-0
Date:	11/8/2019	11/8/2019
Depth:	0 - 0.2 ft	0.5 - 2 ft
Inorganics	Detections, No Exceedances	Detections, No Exceedances
VOCs	Detections, No Exceedances	Detections, No Exceedances
SVOCs	Detections, No Exceedances	Detections, No Exceedances
PCBs	No Detections	No Detections
Pesticides	No Detections	Detections, No Exceedances
Herbicides	No Detections	No Detections

Sample:	WSG-S22-0.0-0.2-0	WSG-S22-0.5-2.0-0
Date:	11/8/2019	11/8/2019
Depth:	0 - 0.2 ft	0.5 - 2 ft
Inorganics	Detections, No Exceedances	Detections, No Exceedances
VOCs	Detections, No Exceedances	Detections, No Exceedances
SVOCs	Detections, No Exceedances	Detections, No Exceedances
PCBs	No Detections	No Detections
Pesticides	No Detections	No Detections
Herbicides	No Detections	No Detections

Sample:	WSG-S20-0.0-0.2-0	WSG-S20-0.5-2.0-0
Date:	11/8/2019	11/8/2019
Depth:	0 - 0.2 ft	0.5 - 2 ft
Inorganics	Detections, No Exceedances	Detections, No Exceedances
VOCs	Detections, No Exceedances	No Detections
SVOCs	Detections, No Exceedances	No Detections
PCBs	No Detections	No Detections
Pesticides	Detections, No Exceedances	No Detections
Herbicides	No Detections	No Detections

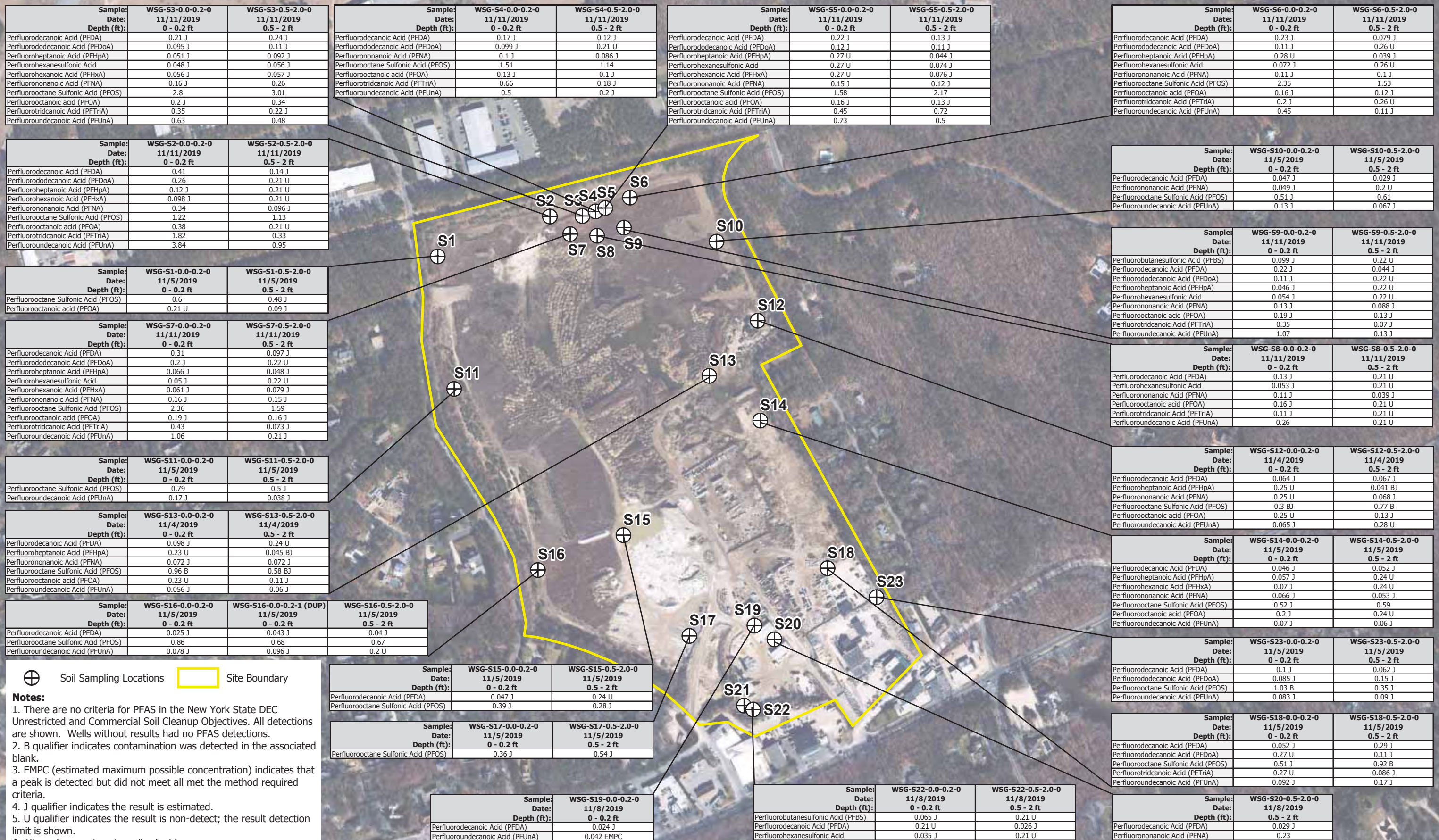
Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

SURFACE & SUBSURFACE SOIL ANALYTICAL RESULTS – EXCEEDANCES ONLY

WAINCOTT SAND & GRAVEL

FIGURE 4





Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

SURFACE & SUBSURFACE SOIL PFAS ANALYTICAL RESULTS – DETECTIONS ONLY

WAINSCOTT SAND & GRAVEL

FIGURE 4A



Sample Date:	WSG-C4-COMP-0 11/12/2019
Inorganics	Detections, No Exceedances
VOCs	Detections, No Exceedances
SVOCs	Detections, No Exceedances
PCBs	No Detections
Pesticides	No Detections
4,4'-DDE	16
4,4'-DDT	14
Herbicides	No Detections

Sample Date:	WSG-C1-COMP-0 11/12/2019
Inorganics	Detections, No Exceedances
VOCs	Detections, No Exceedances
SVOCs	Detections, No Exceedances
PCBs	No Detections
Pesticides	No Detections
4,4'-DDE	14
4,4'-DDT	16
Herbicides	No Detections

Sample Date:	WSG-C2-COMP-0 11/12/2019
Inorganics	Detections, No Exceedances
VOCs	Detections, No Exceedances
SVOCs	Detections, No Exceedances
PCBs	No Detections
Pesticides	No Detections
Herbicides	No Detections

Sample Date:	WSG-C3-COMP-0 11/12/2019
Inorganics	Detections, No Exceedances
VOCs	Detections, No Exceedances
SVOCs	Detections, No Exceedances
PCBs	No Detections
Pesticides	No Detections
4,4'-DDE	11
4,4'-DDT	11
Herbicides	No Detections

Sample Date:	WSG-C5-COMP-0 11/12/2019
Inorganics	Detections, No Exceedances
VOCs	No Detections
SVOCs	No Detections
PCBs	No Detections
Pesticides	No Detections
4,4'-DDD	4.7 J
4,4'-DDE	32
4,4'-DDT	44
Dieldrin	5.4
Herbicides	No Detections

Sample Date:	WSG-C10-COMP-0 11/12/2019
Inorganics	Detections, No Exceedances
VOCs	Detections, No Exceedances
SVOCs	No Detections
PCBs	No Detections
Pesticides	No Detections
4,4'-DDD	3.4 J
4,4'-DDE	25
4,4'-DDT	49
Herbicides	No Detections

Sample Date:	WSG-C6-COMP-0 11/12/2019
Inorganics	Detections, No Exceedances
VOCs	Detections, No Exceedances
SVOCs	Detections, No Exceedances
PCBs	Detections, No Exceedances
Pesticides	No Detections
4,4'-DDE	9.8
4,4'-DDT	17
Herbicides	No Detections

Sample Date:	WSG-C9-COMP-0 11/12/2019
Inorganics	Detections, No Exceedances
VOCs	Detections, No Exceedances
SVOCs	No Detections
PCBs	No Detections
Pesticides	No Detections
4,4'-DDE	5.3 J
4,4'-DDT	6.9 J
Herbicides	No Detections

Sample Date:	WSG-C7-COMP-0 11/12/2019
Inorganics	Detections, No Exceedances
VOCs	Detections, No Exceedances
SVOCs	No Detections
PCBs	No Detections
Pesticides	No Detections
4,4'-DDE	9.3
4,4'-DDT	9.2
Herbicides	No Detections

Sample Date:	WSG-C8-COMP-0 11/12/2019
Inorganics	Detections, No Exceedances
VOCs	Detections, No Exceedances
SVOCs	Detections, No Exceedances
PCBs	No Detections
Pesticides	No Detections
4,4'-DDE	9.2
4,4'-DDT	8.3
Herbicides	No Detections

Sample Date:	WSG-C12-COMP-0 11/12/2019	WSG-C12-COMP-1 (DUP) 11/12/2019
Inorganics	Detections, No Exceedances	Detections, No Exceedances
VOCs	Detections, No Exceedances	Detections, No Exceedances
SVOCs	Detections, No Exceedances	No Detections
PCBs	No Detections	No Detections
Pesticides	No Detections	No Detections
4,4'-DDE	30 J+	26
4,4'-DDT	26 J+	24
Dieldrin	5.2 J+	Detections, No Exceedances
Herbicides	No Detections	No Detections

Sample Date:	WSG-C11-COMP-0 11/12/2019
Inorganics	Detections, No Exceedances
VOCs	No Detections
SVOCs	Detections, No Exceedances
PCBs	No Detections
Pesticides	No Detections
4,4'-DDE	4.3 J
Herbicides	No Detections

▲ Composite Sampling Locations
 □ Site Boundary

- Notes:**
1. Results were compared to the New York State DEC Unrestricted and Commercial Soil Cleanup Objectives. There were no exceedances of the Commercial SCOs.
 2. "No exceedances" indicates no detections exceeded the NYS DEC Unrestricted SCOs.
 2. J qualifier indicates the result is estimated.
 3. P qualifier indicates the %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
 4. All results are in ug/kg.

Analyte	NYSDEC SCO Unrestricted Use ug/kg
4,4'-DDD	3.3
4,4'-DDE	3.3
4,4'-DDT	3.3
Dieldrin	5

0 Miles 0.07

Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

COMPOSITE SOIL ANALYTICAL RESULTS – EXCEEDANCES ONLY

WAINSCOTT SAND & GRAVEL

FIGURE 5



Sample:	WSG-C2-COMP-0
Date:	11/12/2019
Perfluorodecanoic Acid (PFDA)	0.035 J
Perfluorooctane Sulfonic Acid (PFOS)	0.48 BJ

Sample:	WSG-C1-COMP-0
Date:	11/12/2019
Perfluorodecanoic Acid (PFDA)	0.43
Perfluorododecanoic Acid (PFDoA)	0.085 J
Perfluoroheptanoic Acid (PFHpA)	0.042 J
Perfluorononanoic Acid (PFNA)	0.17 J
Perfluorooctane Sulfonic Acid (PFOS)	0.56 BJ
Perfluoroundecanoic Acid (PFUnA)	0.09 J

Sample:	WSG-C3-COMP-0
Date:	11/12/2019
Perfluorodecanoic Acid (PFDA)	0.04 J
Perfluorononanoic Acid (PFNA)	0.04 J
Perfluorooctane Sulfonic Acid (PFOS)	0.51 BJ

Sample:	WSG-C10-COMP-0
Date:	11/12/2019
Perfluorodecanoic Acid (PFDA)	0.083 J
Perfluorononanoic Acid (PFNA)	0.042 J
Perfluoroundecanoic Acid (PFUnA)	0.055 J

Sample:	WSG-C4-COMP-0
Date:	11/12/2019
Perfluorodecanoic Acid (PFDA)	0.061 J
Perfluorononanoic Acid (PFNA)	0.047 J
Perfluorooctane Sulfonic Acid (PFOS)	0.49 BJ
Perfluoroundecanoic Acid (PFUnA)	0.042 J

Sample:	WSG-C5-COMP-0
Date:	11/12/2019
Perfluorodecanoic Acid (PFDA)	0.051 J
Perfluoroundecanoic Acid (PFUnA)	0.039 J

Sample:	WSG-C6-COMP-0
Date:	11/12/2019
Perfluoroheptanoic Acid (PFHpA)	0.036 J
Perfluorononanoic Acid (PFNA)	0.041 J

Sample:	WSG-C7-COMP-0
Date:	11/12/2019
Perfluorodecanoic Acid (PFDA)	0.04 J

Sample:	WSG-C8-COMP-0
Date:	11/12/2019
Perfluorodecanoic Acid (PFDA)	0.046 J

Sample:	WSG-C12-COMP-0	WSG-C12-COMP-1 (DUP)
Date:	11/12/2019	11/12/2019
Perfluorodecanoic Acid (PFDA)	0.15 J	0.081 J
Perfluorononanoic Acid (PFNA)	0.048 J	0.076 J
Perfluorooctanoic acid (PFOA)	0.23 U	0.1 J
Perfluoroundecanoic Acid (PFUnA)	0.043 J	0.046 J

Sample:	WSG-C11-COMP-0
Date:	11/12/2019
Perfluorodecanoic Acid (PFDA)	0.056 J
Perfluoroheptanoic Acid (PFHpA)	0.049 J
Perfluorohexanesulfonic Acid	0.038 J
Perfluorononanoic Acid (PFNA)	0.067 J
Perfluorooctanoic acid (PFOA)	0.15 J
Perfluoroundecanoic Acid (PFUnA)	0.044 J

Composite Sampling Locations

Site Boundary

Notes:

1. There are no criteria for PFAS in the New York State DEC Unrestricted and Commercial Soil Cleanup Objectives. All detections are shown. Sampling locations with no chemboxes had no PFAS detections.
2. B qualifier indicates contamination was detected in the associated blank.
3. J qualifier indicates the result is estimated.
4. U qualifier indicates the result is non-detect; the result detection limit is shown.
5. All results are given in ug/kg (ppb).

Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

COMPOSITE SOIL PFAS ANALYTICAL RESULTS – DETECTIONS ONLY

WAINSCOTT SAND & GRAVEL

FIGURE 5A



Sample:	WSG-GW1-9-0	WSG-GW1-9-1 (DUP)
Date:	11/14/2019	11/14/2019
Depth (ft):	9	9
Inorganics		
Iron	2510	2510
Manganese	624	628
VOCs		
	No Detections	No Detections
SVOCs		
	No Detections	No Detections
Pesticides		
	No Detections	No Detections
Herbicides		
	No Detections	No Detections

Sample:	WSG-GW9-6-0
Date:	11/12/2019
Depth (ft):	6
Inorganics	
Iron	66700
Manganese	1720
VOCs	
	No Detections
SVOCs	
	No Detections
Pesticides	
	No Detections
Herbicides	
	No Detections

Sample:	WSG-GW5-8-0
Date:	11/6/2019
Depth (ft):	8
Inorganics	
Iron	25700
Manganese	3520
Thallium	5.5 J
VOCs	
	No Detections
SVOCs	
	No Detections
Pesticides	
	No Detections
Herbicides	
	No Detections

Sample:	WSG-GW4-5-0
Date:	11/7/2019
Depth (ft):	5
Inorganics	
Iron	2030
Sodium	47500
VOCs	
	No Detections
SVOCs	
	No Detections
Pesticides	
	No Detections
Herbicides	
	No Detections

Sample:	WSG-GW7-6-0
Date:	11/5/2019
Depth (ft):	6
Inorganics	
Iron	654
Sodium	20400
VOCs	
	No Detections
SVOCs	
	No Detections
Pesticides	
	No Detections
Herbicides	
	No Detections

Sample:	WSG-GW8-19-0
Date:	11/13/2019
Depth (ft):	19
Inorganics	
Sodium	24300
VOCs	
	No Detections
SVOCs	
	No Detections
Pesticides	
	No Detections
Herbicides	
	No Detections

Sample:	WSG-GW2-9-0
Date:	11/8/2019
Depth (ft):	9
Inorganics	
Iron	58900
Manganese	3380
Thallium	5.9 J
VOCs	
	No Detections
SVOCs	
	No Detections
Pesticides	
	No Detections
Herbicides	
	No Detections

Sample:	WSG-GW3-8-0
Date:	11/7/2019
Depth (ft):	8
Inorganics	
Iron	15000
Manganese	1970
VOCs	
	No Detections
SVOCs	
	No Detections
Pesticides	
	No Detections
Herbicides	
	No Detections

Sample:	WSG-GW6-9-0
Date:	11/11/2019
Depth (ft):	9
Inorganics	
Iron	8950
Manganese	27600
Thallium	53.7
VOCs	
	No Detections
SVOCs	
	No Detections
Pesticides	
	No Detections
Herbicides	
	No Detections

● Probe Sampling Locations
 □ Site Boundary

Notes:
 1. Only exceedances of the New York State 703.5 TOGS Class GA Criteria are shown.
 2. J qualifier indicates the result is estimated.
 3. All results are in ug/l.

Analyte	NYS 703.5 TOGS Class GA
Inorganics	ug/l
Iron	300
Manganese	300
Sodium	20000
Thallium	0.5



GROUNDWATER PROBE ANALYTICAL RESULTS – EXCEEDANCES ONLY

WAINSCOTT SAND & GRAVEL

FIGURE 6





Sample:	WSG-MW-6-10-0
Date:	11/6/2019
Depth (ft):	6
Inorganics	Detections, No Exceedances
VOCs	No Detections
SVOCs	No Detections
Pesticides	No Detections
Herbicides	No Detections

Sample:	WSG-MW5-13-0
Date:	11/7/2019
Depth (ft):	13
Inorganics	Sodium 46700
VOCs	Detections, No Exceedances
SVOCs	No Detections
Pesticides	No Detections
Herbicides	No Detections

Sample:	WSG-MW3-10-0
Date:	11/7/2019
Depth (ft):	10
Inorganics	Sodium 38100
VOCs	Detections, No Exceedances
SVOCs	No Detections
Pesticides	No Detections
Herbicides	No Detections



Sample:	WSG-MW4-10-0
Date:	11/7/2019
Depth (ft):	10
Inorganics	Sodium 50900
VOCs	Detections, No Exceedances
SVOCs	No Detections
Pesticides	No Detections
Herbicides	No Detections

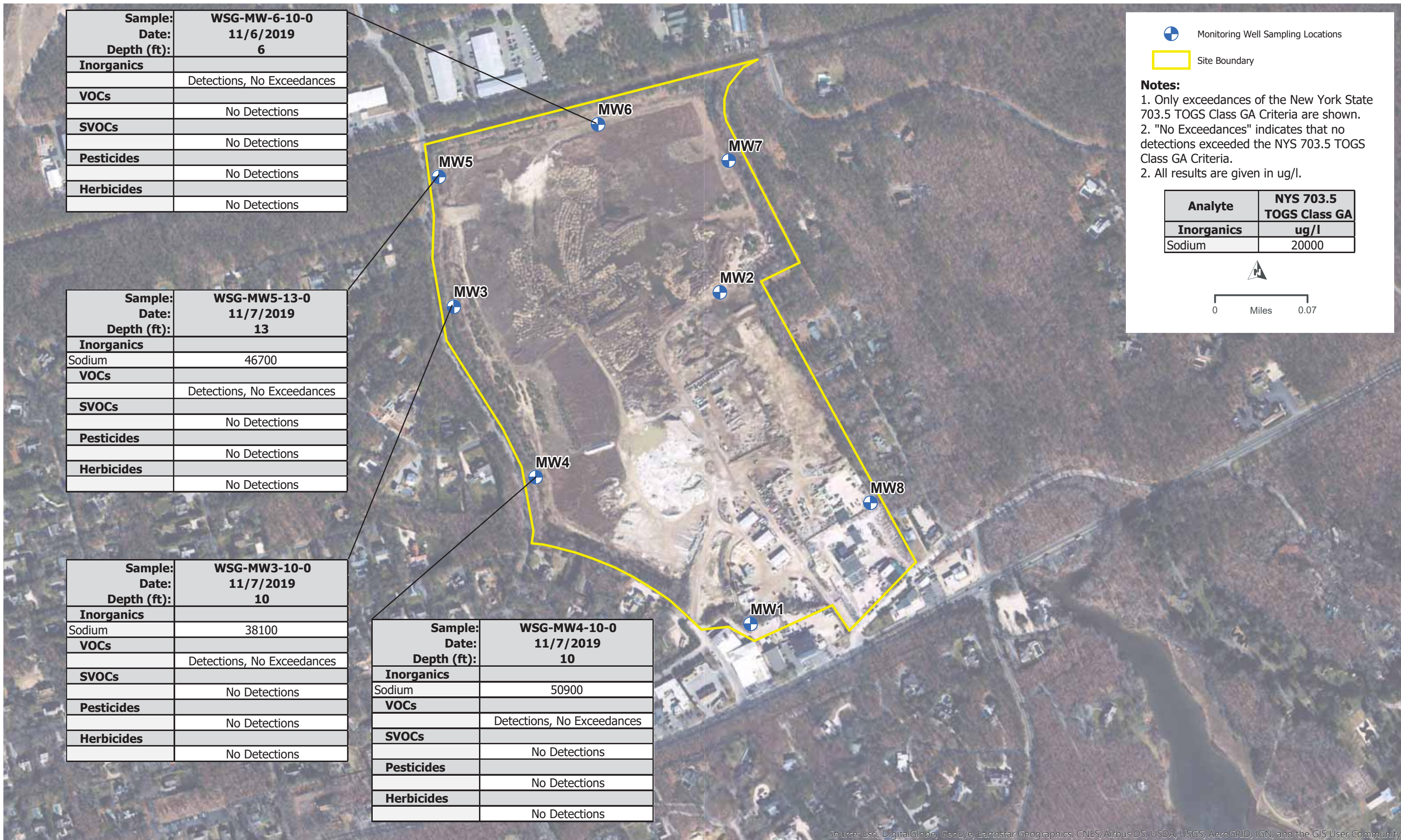
 Monitoring Well Sampling Locations
 Site Boundary

Notes:

1. Only exceedances of the New York State 703.5 TOGS Class GA Criteria are shown.
2. "No Exceedances" indicates that no detections exceeded the NYS 703.5 TOGS Class GA Criteria.
2. All results are given in ug/l.

Analyte	NYS 703.5 TOGS Class GA
Inorganics	ug/l
Sodium	20000



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

MONITORING WELL ANALYTICAL RESULTS – EXCEEDANCES ONLY

WAINSCOTT SAND & GRAVEL

FIGURE 7



Sample:	WSG-MW-6-10-0
Date:	11/6/2019
Depth (ft):	6
Perfluorobutanesulfonic Acid (PFBS)	2.5
Perfluorodecanoic Acid (PFDA)	92.3
Perfluoroheptanoic Acid (PFHpA)	50
Perfluorohexanesulfonic Acid	58.9 B
Perfluorohexanoic Acid (PFHxA)	61.1
Perfluorononanoic Acid (PFNA)	2850
Perfluorotridcanoic Acid (PFTrIA)	1.49 J
Perfluoroundecanoic Acid (PFUnA)	333
Perfluorooctane Sulfonic Acid (PFOS)	151
Perfluorooctanoic acid (PFOA)	26.1
Total PFOA and PFOS	177.1
Total PFAS	3626.39

Sample:	WSG-MW5-13-0
Date:	11/7/2019
Depth (ft):	13
Perfluorobutanesulfonic Acid (PFBS)	4.58
Perfluoroheptanoic Acid (PFHpA)	2.95
Perfluorohexanesulfonic Acid	566 B
Perfluorohexanoic Acid (PFHxA)	12
Perfluorononanoic Acid (PFNA)	1.64 J
Perfluorooctane Sulfonic Acid (PFOS)	877
Perfluorooctanoic acid (PFOA)	69.4
Total PFOA and PFOS	946.4
Total PFAS	1533.57

Sample:	WSG-MW3-10-0
Date:	11/7/2019
Depth (ft):	10
Perfluorobutanesulfonic Acid (PFBS)	3.66
Perfluoroheptanoic Acid (PFHpA)	2.27
Perfluorohexanesulfonic Acid	306 B
Perfluorohexanoic Acid (PFHxA)	9.53
Perfluorononanoic Acid (PFNA)	2.2
Perfluorooctane Sulfonic Acid (PFOS)	1010
Perfluorooctanoic acid (PFOA)	27.5
Total PFOA and PFOS	1037.5
Total PFAS	1361.16

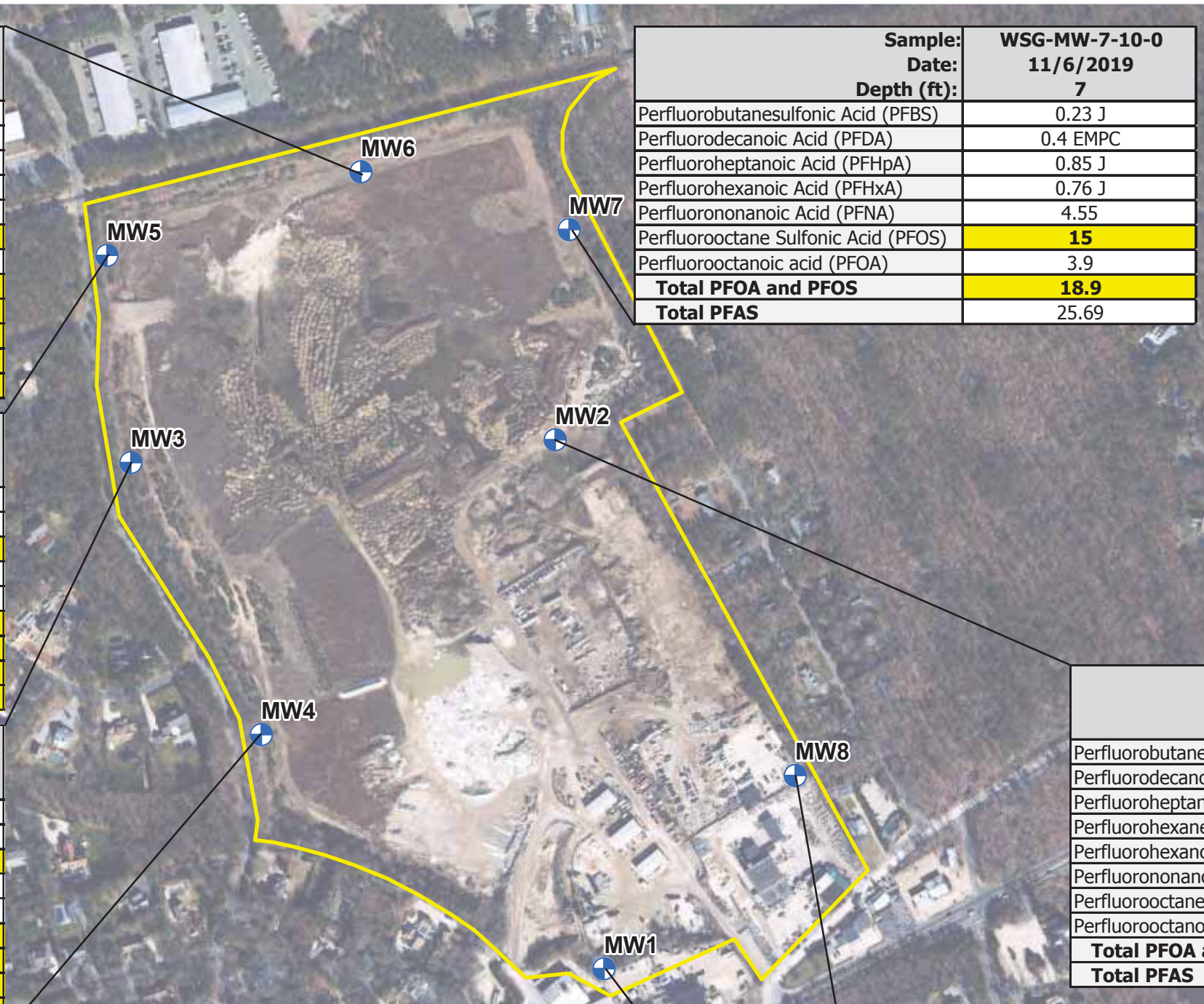
Sample:	WSG-MW4-10-0
Date:	11/7/2019
Depth (ft):	10
Perfluorobutanesulfonic Acid (PFBS)	2.11
Perfluoroheptanoic Acid (PFHpA)	1.09 J
Perfluorohexanesulfonic Acid	43.4 B
Perfluorohexanoic Acid (PFHxA)	5.06
Perfluorononanoic Acid (PFNA)	0.8 J
Perfluorooctane Sulfonic Acid (PFOS)	232
Perfluorooctanoic acid (PFOA)	5.57
Total PFOA and PFOS	237.57
Total PFAS	290.03

Sample:	WSG-MW1-8-0
Date:	11/7/2019
Depth (ft):	8
Perfluorobutanesulfonic Acid (PFBS)	0.91 J
Perfluorodecanoic Acid (PFDA)	0.7 J
Perfluoroheptanoic Acid (PFHpA)	3.46
Perfluorohexanesulfonic Acid	2.38 B
Perfluorohexanoic Acid (PFHxA)	4.46
Perfluorononanoic Acid (PFNA)	1.33 J
Perfluorooctane Sulfonic Acid (PFOS)	11.6
Perfluorooctanoic acid (PFOA)	4.87
Total PFOA and PFOS	16.47
Total PFAS	29.71

Sample:	WSG-MW-7-10-0
Date:	11/6/2019
Depth (ft):	7
Perfluorobutanesulfonic Acid (PFBS)	0.23 J
Perfluorodecanoic Acid (PFDA)	0.4 EMPC
Perfluoroheptanoic Acid (PFHpA)	0.85 J
Perfluorohexanoic Acid (PFHxA)	0.76 J
Perfluorononanoic Acid (PFNA)	4.55
Perfluorooctane Sulfonic Acid (PFOS)	15
Perfluorooctanoic acid (PFOA)	3.9
Total PFOA and PFOS	18.9
Total PFAS	25.69

Sample:	WSG-MW2-10-0
Date:	11/6/2019
Depth (ft):	10
Perfluorobutanesulfonic Acid (PFBS)	9.33
Perfluorodecanoic Acid (PFDA)	2.32
Perfluoroheptanoic Acid (PFHpA)	35
Perfluorohexanesulfonic Acid	23.9 B
Perfluorohexanoic Acid (PFHxA)	35.5
Perfluorononanoic Acid (PFNA)	58.2
Perfluorooctane Sulfonic Acid (PFOS)	36.3
Perfluorooctanoic acid (PFOA)	47.6
Total PFOA and PFOS	83.9
Total PFAS	248.15

Sample:	WSG-MW8-25-0	WSG-MW8-25-1 (DUP)
Date:	11/6/2019	11/6/2019
Depth (ft):	25	25
Perfluorobutanesulfonic Acid (PFBS)	5.16	5.58
Perfluorodecanoic Acid (PFDA)	0.47 J	0.77 J
Perfluoroheptanoic Acid (PFHpA)	13.6	12.2
Perfluorohexanesulfonic Acid	26.2 B	27.4 B
Perfluorohexanoic Acid (PFHxA)	25.1	25.7
Perfluorononanoic Acid (PFNA)	4.63	3.81
Perfluorooctane Sulfonic Acid (PFOS)	58.5	56.4
Perfluorooctanoic acid (PFOA)	37.5	34.1
Total PFOA and PFOS	96	90.5
Total PFAS	171.16	165.96



Monitoring Well Sampling Locations

Site Boundary

Notes:

1. Only exceedances of the New York State PFAS Guidelines are shown.
2. B qualifier indicates contamination was detected in the associated blank sample.
3. EMPC (estimated maximum possible concentration) qualifier indicates that a peak is detected but did not meet all the method required criteria.
4. J qualifier indicates the result is estimated.
5. All results are given in ng/l.

Analyte	NYS 703.5 TOGS Class GA
PFCs	ng/l
Perfluorohexanesulfonic Acid	100
Perfluorononanoic Acid (PFNA)	100
Perfluoroundecanoic Acid (PFUnA)	100
Perfluorooctane Sulfonic Acid (PFOS)	10
Perfluorooctanoic acid (PFOA)	10
Total PFOA and PFOS	10
Total PFAS	500



MONITORING WELL ANALYTICAL RESULTS – EXCEEDANCES ONLY

WAINSCOTT SAND & GRAVEL

FIGURE 7A



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community



**GROUNDWATER CONTOURS
WAINCOTT SAND & GRAVEL**

FIGURE 8



Appendix A

Site Photographs



Client Name/Contract
NYSDEC – D007625 – WA51

Site Location:
Wainscott Sand & Gravel
Wainscott, NY

Site No.
152254



Geoprobe rig set-up at GS/GW-7.

Surface & sub-surface soil sample collection.
(GS/GW-7)



Geoprobe soil sample collection, encased in HDPE liner.



Geoprobe rig set-up, surrounded by construction cones.



Client Name/Contract
NYSDEC - D007625 – WA51

Site Location:
Wainscott Sand & Gravel
Wainscott, NY

Project No.
152254



Flooding on the site path, caused by excessive rain.



Monitoring well purging. (Located at MW-5)



Surface soil sample collected using stainless steel spoon.



Geoprobe soil sample collected. (Shown in HDPE liner)



Client Name/Contract
NYSDEC - D007625 – WA51

Site Location:
Wainscott Sand & Gravel
Wainscott, NY

Project No.
152254



Composite soil location.



Composite soil sample. (Shown in stainless steel bowl, to be placed in sample containers)



Collecting surface & sub-surface soil samples.
(Location: S20)



Geoprobe rig located at GS/GW-3.



Client Name/Contract
NYSDEC - D007625 – WA51

Site Location:
Wainscott Sand & Gravel
Wainscott, NY

Project No.
152254



Geoprobe rig set up for groundwater purging & sampling at GS/GW-7.



Geoprobe soil borehole, groundwater shown.



Purge water placed inside water quality meter cup, prior to taking measurements.



Geoprobe rig set up at GS/GW-2.



Appendix B

Analytical Data Summary
Package – Groundwater
and Soil

ANALYTICAL REPORT

Job Number: 460-196258-1

Job Description: DEC - WAINSCOTT SAND & GRAVEL SITE:15225

For:
New York State D.E.C.
625 Broadway
Division of Environmental Remediation
Albany, NY 12233-7014
Attention: Mr. Jared Donaldson



Approved for release.
Julie L Gilmore
Project Manager I
12/17/2019 12:28 PM

Julie L Gilmore, Project Manager I
777 New Durham Road, Edison, NJ, 08817
(484)685-0865
julie.gilmore@testamericainc.com
12/17/2019

The test results in this report meet all NELAP requirements unless specified within the case narrative. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. All questions regarding this report should be directed to the Eurofins TestAmerica Edison Project Manager.

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The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins TestAmerica Project Manager.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Eurofins TestAmerica, Edison

777 New Durham Road, Edison, NJ 08817

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Standards Data	1731
608.3_PREC ICAL Data	1731
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Raw QC Data	2347
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CASE NARRATIVE

Client: New York State D.E.C.

Project: DEC - WAINSCOTT SAND & GRAVEL SITE:15225

Report Number: 460-196258-1

This case narrative is in the form of an exception report, where only the anomalies related to this report, method specific performance and/or QA/QC issues are discussed. If there are no issues to report, this narrative will include a statement that documents that there are no relevant data issues.

It should be noted that samples with elevated Reporting Limits (RLs) as a result of a dilution may not be able to satisfy customer reporting limits in some cases. Such increases in the RLs are unavoidable but acceptable consequence of sample dilution that enables quantification of target analytes or interferences which exceed the calibration range of the instrument.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 11/08/2019; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was C.

Note: All samples which require thermal preservation are considered acceptable if the arrival temperature is within 2C of the required temperature or method specified range. For samples with a specified temperature of 4C, samples with a temperature ranging from just above freezing temperature of water to 6C shall be acceptable. Samples that are hand delivered immediately following collection may not meet these criteria, however they will be deemed acceptable according to NELAC standards, if there is evidence that the chilling process has begun, such as arrival on ice, etc.

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples WSG-GS2-0.5-2.0-0 (460-196258-20), WSG-S21-0.0-0.2-0 (460-196258-23), WSG-S21-0.5-2.0-0 (460-196258-24), WSG-S22-0.0-0.2-0 (460-196258-25), WSG-S22-0.5-2.0-0 (460-196258-26), WSG-S19-0.0-0.2-0 (460-196258-27), WSG-S19-0.5-2.0-0 (460-196258-28), WSG-S20-0.0-0.2-0 (460-196258-29) and WSG-S20-0.5-2.0-0 (460-196258-30) were analyzed for Volatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8260C. The samples were prepared on 11/15/2019 and analyzed on 11/16/2019.

The continuing calibration verification (CCV) associated with batch 460-655738 recovered above the upper control limit for Chloromethane. The samples associated with this CCV were non-detects for the affected analyte; therefore, the data have been reported.

The continuing calibration verification (CCV) associated with batch 460-655855 recovered above the upper control limit for Vinyl chloride. The samples associated with this CCV were non-detects for the affected analyte; therefore, the data have been reported.

No difficulties were encountered during the volatiles analysis.

All quality control parameters were within the acceptance limits.

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples WSG-MW-6-10-0 (460-196258-1), WSG-GW5-8-0 (460-196258-4), WSG-MW4-10-0 (460-196258-7), WSG-MW3-10-0 (460-196258-8), WSG-MW5-13-0 (460-196258-9), WSG-GW3-8-0 (460-196258-12), WSG-EB-MW-20191107 (460-196258-13), WSG-GW4-5-0 (460-196258-14), WSG-TB-20191108 (460-196258-15) and WSG-GW2-9-0 (460-196258-16) were analyzed for Volatile organic compounds (GC-MS) in accordance with EPA SW-846 Methods 8260C. The samples were analyzed on 11/16/2019.

Several analytes failed the recovery criteria high for the MSD of sample WSG-MW-6-10-0MSD (460-196258-1) in batch 460-655793.

Refer to the QC report for details.

No other difficulties were encountered during the volatiles analysis.

All other quality control parameters were within the acceptance limits.

SEMIVOLATILE ORGANIC COMPOUNDS (GC/MS)

Samples WSG-MW-6-10-0 (460-196258-1), WSG-GW5-8-0 (460-196258-4), WSG-MW4-10-0 (460-196258-7), WSG-MW3-10-0 (460-196258-8), WSG-MW5-13-0 (460-196258-9), WSG-GW3-8-0 (460-196258-12), WSG-EB-MW-20191107 (460-196258-13),

WSG-GW4-5-0 (460-196258-14) and WSG-GW2-9-0 (460-196258-16) were analyzed for semivolatile organic compounds (GC/MS) in accordance with EPA SW-846 Method 8270D. The samples were prepared on 11/12/2019 and 11/13/2019 and analyzed on 11/13/2019 and 11/14/2019.

The continuing calibration verification (CCV) associated with batch 460-654763 recovered above the upper control limit for 3,3'-Dichlorobenzidine. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

The continuing calibration verification (CCV) analyzed in batch 460-654925 was outside the method criteria for the following analyte(s): 2,4-Dinitrophenol, Indeno[1,2,3-cd]pyrene, Benzo[g,h,i]perylene, 4,6-Dinitro-2-methylphenol, Di-n-octyl phthalate and Dibenz(a,h)anthracene. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

The laboratory control sample (LCS) for preparation batch 460-654808 and analytical batch 460-654925 recovered outside control limits for the following analytes: 2,4-Dinitrophenol, Benzo[b]fluoranthene and Di-n-octyl phthalate. These analytes were not detected in the associated samples; therefore, the data have been reported.

The continuing calibration verification (CCV) analyzed in batch 460-655224 was outside the method criteria for the following analyte(s): Di-n-octyl phthalate. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

A full list spike was utilized for this method. Due to the large number of spiked analytes, there is a high probability that one or more analytes will recover outside acceptance limits due to poor performance. The LCS/LCSD associated with batch 460-654985 had (3,3'-Dichlorobenzidine) outside control limits; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

The laboratory control sample duplicate (LCSD) for preparation batch 460-654985 and analytical batch 460-655224 recovered outside control limits for the following analyte(s): Atrazine. These analytes have been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for batch preparation batch 460-654985 and analytical batch 460-655224 recovered outside control limits for the following analytes: Atrazine and Caprolactam.

The continuing calibration verification (CCV) analyzed in batch 460-655224 was outside the method criteria for the following analyte(s): Atrazine. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Six surrogates are used for this analysis. The laboratory's SOP allows one acid and one base of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following sample contained an allowable number of surrogate compounds outside limits: WSG-S21-0.5-2.0-0 (460-196258-24). These results have been reported and qualified.

2,4,6-Tribromophenol (Surr) and Nitrobenzene-d5 (Surr) failed the surrogate recovery criteria high for WSG-MW-6-10-0MSD (460-196258-1MSD). Refer to the QC report for details.

Benzo[b]fluoranthene and Di-n-octyl phthalate failed the recovery criteria low for LCS 460-654808/2-A. 2,4-Dinitrophenol failed the recovery criteria high. 3,3'-Dichlorobenzidine failed the recovery criteria low for LCS 460-654985/2-A. 3,3'-Dichlorobenzidine failed the recovery criteria low for LCSD 460-654985/3-A. Atrazine failed the recovery criteria low for LCSD 460-654985/5-A. Atrazine and Caprolactam exceeded the RPD limit. Refer to the QC report for details.

Di-n-octyl phthalate failed the recovery criteria low for the MS of sample WSG-MW-6-10-0MS (460-196258-1) in batch 460-654925. 3,3'-Dichlorobenzidine, 4,6-Dinitro-2-methylphenol and 4-Nitrophenol failed the recovery criteria high.

Several analytes failed the recovery criteria high for the MSD of sample WSG-MW-6-10-0MSD (460-196258-1) in batch 460-654925.

Refer to the QC report for details.

No other difficulties were encountered during the semivolatiles analysis.

All other quality control parameters were within the acceptance limits.

SEMIVOLATILE ORGANIC COMPOUNDS - SELECTED ION MODE (SIM)

Samples WSG-MW-6-10-0 (460-196258-1), WSG-GW5-8-0 (460-196258-4), WSG-MW4-10-0 (460-196258-7), WSG-MW3-10-0 (460-196258-8), WSG-MW5-13-0 (460-196258-9), WSG-GW3-8-0 (460-196258-12), WSG-EB-MW-20191107 (460-196258-13), WSG-GW4-5-0 (460-196258-14) and WSG-GW2-9-0 (460-196258-16) were analyzed for semivolatile organic compounds - Selected Ion Mode (SIM) in accordance with EPA SW-846 Method 8270D SIM. The samples were prepared on 11/12/2019 and 11/13/2019 and analyzed on 11/13/2019 and 11/14/2019.

No difficulties were encountered during the SVOC SIM analysis.

All quality control parameters were within the acceptance limits.

ORGANOCHLORINE PESTICIDES AND POLYCHLORINATED BIPHENYLS BY GAS CHROMATOGRAPHY

Samples WSG-MW-6-10-0 (460-196258-1), WSG-GW5-8-0 (460-196258-4), WSG-MW4-10-0 (460-196258-7), WSG-MW3-10-0 (460-196258-8), WSG-MW5-13-0 (460-196258-9), WSG-GW3-8-0 (460-196258-12), WSG-EB-MW-20191107 (460-196258-13), WSG-GW4-5-0 (460-196258-14) and WSG-GW2-9-0 (460-196258-16) were analyzed for Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography in accordance with 608.3. The samples were prepared on 11/12/2019 and analyzed on 11/18/2019.

The laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 460-654775 and analytical batch 460-656200 recovered outside control limits for the following analytes Endrin ketone on the secondary column, Endosulfan sulfate and Endrin on the primary column. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

The continuing calibration verification (CCV) for Decachlorobiphenyl recovered outside the lower control limit on the secondary column but within control limits on the primary column. The samples associated with this CCV were non-detected, The data have been qualified and reported. (CCVIS 460-656200/3)

Endrin ketone failed the recovery criteria high for LCS 460-654775/2-A. Endrin ketone failed the recovery criteria high for LCSD 460-654775/3-A. Refer to the QC report for details.

Endrin ketone failed the recovery criteria high for the MS/MSD of sample WSG-MW-6-10-0MS/MSD (460-196258-1) in batch 460-656200.

The presence of the '4' qualifier in the data indicates analytes where the concentration in the unspiked sample exceeded four times the spiking amount.

Refer to the QC report for details.

No other difficulties were encountered during the Pesticides/PCBs analysis.

All other quality control parameters were within the acceptance limits.

PESTICIDES

Samples WSG-GS2-0.5-2.0-0 (460-196258-20), WSG-S21-0.0-0.2-0 (460-196258-23), WSG-S21-0.5-2.0-0 (460-196258-24), WSG-S22-0.0-0.2-0 (460-196258-25), WSG-S22-0.5-2.0-0 (460-196258-26), WSG-S19-0.0-0.2-0 (460-196258-27), WSG-S19-0.5-2.0-0 (460-196258-28), WSG-S20-0.0-0.2-0 (460-196258-29) and WSG-S20-0.5-2.0-0 (460-196258-30) were analyzed for Pesticides in accordance with EPA SW-846 Methods 8081B. The samples were prepared on 11/12/2019 and analyzed on 11/14/2019.

The DCB Decachlorobiphenyl surrogate recovery for the following samples was outside acceptance limits (high biased) on the confirmation column due to matrix interference: WSG-S20-0.0-0.2-0 (460-196258-29). The recovery is within acceptance limits on the other column, indicating that the extraction process was in control.

The continuing calibration verification (CCV) associated with batch 460-655184 recovered above the upper control limit for Endosulfan II and Endrin ketone. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following sample is impacted: (CCVIS 460-655184/3).

DCB Decachlorobiphenyl failed the surrogate recovery criteria high for WSG-S20-0.0-0.2-0 (460-196258-29). Refer to the QC report for details.

Several analytes failed the recovery criteria low for the MS/MSD of sample 460-196193-4 in batch 460-655184.

Refer to the QC report for details.

No other difficulties were encountered during the Pesticides analysis.

All other quality control parameters were within the acceptance limits.

POLYCHLORINATED BIPHENYLS

Samples WSG-GS2-0.5-2.0-0 (460-196258-20), WSG-S21-0.0-0.2-0 (460-196258-23), WSG-S21-0.5-2.0-0 (460-196258-24), WSG-S22-0.0-0.2-0 (460-196258-25), WSG-S22-0.5-2.0-0 (460-196258-26), WSG-S19-0.0-0.2-0 (460-196258-27), WSG-S19-0.5-2.0-0 (460-196258-28), WSG-S20-0.0-0.2-0 (460-196258-29) and WSG-S20-0.5-2.0-0 (460-196258-30) were analyzed for polychlorinated biphenyls in accordance with EPA SW-846 Method 8082A. The samples were prepared on 11/12/2019 and analyzed on 11/13/2019.

No difficulties were encountered during the PCBs analysis.

All quality control parameters were within the acceptance limits.

CHLORINATED HERBICIDES

Samples WSG-GS2-0.5-2.0-0 (460-196258-20), WSG-S21-0.0-0.2-0 (460-196258-23), WSG-S21-0.5-2.0-0 (460-196258-24), WSG-S22-0.0-0.2-0 (460-196258-25), WSG-S22-0.5-2.0-0 (460-196258-26), WSG-S19-0.0-0.2-0 (460-196258-27), WSG-S19-0.5-2.0-0 (460-196258-28), WSG-S20-0.0-0.2-0 (460-196258-29) and WSG-S20-0.5-2.0-0 (460-196258-30) were analyzed for chlorinated herbicides in accordance with EPA SW-846 Method 8151A. The samples were prepared and analyzed on 11/13/2019.

2,4-Dichlorophenylacetic acid failed the surrogate recovery criteria high for WSG-S21-0.0-0.2-0 (460-196258-23).
2,4-Dichlorophenylacetic acid failed the surrogate recovery criteria high for WSG-S21-0.5-2.0-0 (460-196258-24).
2,4-Dichlorophenylacetic acid failed the surrogate recovery criteria high for WSG-S22-0.0-0.2-0 (460-196258-25).
2,4-Dichlorophenylacetic acid failed the surrogate recovery criteria high for WSG-S22-0.5-2.0-0 (460-196258-26).
2,4-Dichlorophenylacetic acid failed the surrogate recovery criteria high for WSG-GS2-0.5-2.0-0MSD (460-196258-20MSD). Refer to the QC report for details.

The laboratory control sample duplicate (LCSD) for preparation batch 460-654862 and analytical batch 460-655037 recovered outside control limits for the following analytes: Silvex (2,4,5-TP) and 2,4,5-T. These analytes were biased low in the LCSD but within control limits for LCS and were not detected in the associated samples; therefore, the data have been reported.

The continuing calibration verification (CCV) associated with batch 460-654976 recovered above the upper control limit for Silvex (2,4,5-TP). The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

The continuing calibration verification (CCV) associated with batch 460-654976 recovered above the upper control limit for Silvex (2,4,5-TP). The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

The continuing calibration verification (CCV) associated with batch 460-655329 recovered above the upper control limit for 2,4,5-T. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

The closing continuing calibration verification (CCVC) associated with batch 460-655329 recovered above the upper control limit for 2,4,5-T. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

The closing continuing calibration verification (CCVC) associated with batch 460-655329 recovered above the upper control limit for 2,4-D, Silvex (2,4,5-TP) and 2,4,5-T. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

The continuing calibration verification (CCV) associated with batch 460-655329 recovered above the upper control limit for <AffectedAnalytes>. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following sample is impacted: (CCV 460-655329/1).

The continuing calibration verification (CCV) associated with batch 460-655329 recovered above the upper control limit for 2,4-D, Silvex (2,4,5-TP) and 2,4,5-T. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

2,4,5-T and Silvex (2,4,5-TP) failed the recovery criteria low for LCSD 460-654862/3-A. Refer to the QC report for details.

No other difficulties were encountered during the herbicides analysis.

All other quality control parameters were within the acceptance limits.

CHLORINATED HERBICIDES

Samples WSG-MW-6-10-0 (460-196258-1), WSG-GW5-8-0 (460-196258-4), WSG-MW4-10-0 (460-196258-7), WSG-MW3-10-0 (460-196258-8), WSG-MW5-13-0 (460-196258-9), WSG-GW3-8-0 (460-196258-12), WSG-EB-MW-20191107 (460-196258-13), WSG-GW4-5-0 (460-196258-14) and WSG-GW2-9-0 (460-196258-16) were analyzed for chlorinated herbicides in accordance with EPA SW-846 Method 8151A. The samples were prepared on 11/12/2019 and 11/13/2019 and analyzed on 11/13/2019 and 11/14/2019.

No difficulties were encountered during the herbicides analysis.

All quality control parameters were within the acceptance limits.

SEMIVOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples WSG-GS2-0.5-2.0-0 (460-196258-20), WSG-S21-0.0-0.2-0 (460-196258-23), WSG-S21-0.5-2.0-0 (460-196258-24), WSG-S22-0.0-0.2-0 (460-196258-25), WSG-S22-0.5-2.0-0 (460-196258-26), WSG-S19-0.0-0.2-0 (460-196258-27), WSG-S19-0.5-2.0-0 (460-196258-28), WSG-S20-0.0-0.2-0 (460-196258-29) and WSG-S20-0.5-2.0-0 (460-196258-30) were analyzed for semivolatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8270D. The samples were prepared on 11/12/2019 and analyzed on 11/12/2019 and 11/13/2019.

2,4,6-Tribromophenol (Surr) failed the surrogate recovery criteria low for WSG-S21-0.5-2.0-0 (460-196258-24). Refer to the QC report for details.

No other difficulties were encountered during the semivolatiles analysis.

All other quality control parameters were within the acceptance limits.

PERFLUORINATED HYDROCARBONS (PFC)

Samples WSG-GS2-0.5-2.0-0 (460-196258-20), WSG-GS2-6.0-8.0-0 (460-196258-21), WSG-GS2-0.5-2.0-1 (460-196258-22), WSG-S21-0.0-0.2-0 (460-196258-23), WSG-S21-0.5-2.0-0 (460-196258-24), WSG-S22-0.0-0.2-0 (460-196258-25), WSG-S22-0.5-2.0-0 (460-196258-26), WSG-S19-0.0-0.2-0 (460-196258-27), WSG-S19-0.5-2.0-0 (460-196258-28), WSG-S20-0.0-0.2-0 (460-196258-29) and WSG-S20-0.5-2.0-0 (460-196258-30) were analyzed for Perfluorinated Hydrocarbons (PFC) in accordance with PFC. The samples were prepared on 11/20/2019 and analyzed on 12/14/2019.

Perfluorooctanesulfonic acid (PFOS) was detected in method blank MB 320-340075/1-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

No other difficulties were encountered during the Perfluorinated Hydrocarbons (PFC) analysis.

All other quality control parameters were within the acceptance limits.

PERFLUORINATED HYDROCARBONS (PFC)

Samples WSG-MW-6-10-0 (460-196258-1), WSG-MW-7-10-0 (460-196258-2), WSG-GW4-25-0 (460-196258-3), WSG-GW5-8-0 (460-196258-4), WSG-GW4-15-0 (460-196258-5), WSG-MW1-8-0 (460-196258-6), WSG-MW4-10-0 (460-196258-7), WSG-MW3-10-0 (460-196258-8), WSG-MW5-13-0 (460-196258-9), WSG-GW3-18-0 (460-196258-10), WSG-GW3-28-0 (460-196258-11), WSG-GW3-8-0 (460-196258-12), WSG-EB-MW-20191107 (460-196258-13), WSG-GW4-5-0 (460-196258-14), WSG-GW2-9-0 (460-196258-16), WSG-GW2-19-0 (460-196258-17), WSG-GW2-29-0 (460-196258-18) and WSG-GW2-29-1 (460-196258-19) were analyzed for Perfluorinated Hydrocarbons (PFC) in accordance with PFC. The samples were prepared on 11/16/2019 and analyzed on 11/18/2019, 11/29/2019, 12/05/2019 and 12/06/2019.

Perfluorohexanesulfonic acid (PFHxS) was detected in method blank MB 320-339114/1-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

Perfluorononanoic acid (PFNA) failed the recovery criteria high for the MS of sample WSG-MW-6-10-0MS (460-196258-1) in batch 320-343825.

Perfluoroundecanoic acid (PFUnA) failed the recovery criteria low for the MSD of sample WSG-MW-6-10-0MSD (460-196258-1) in batch 320-343825. Perfluorononanoic acid (PFNA) failed the recovery criteria high.

Refer to the QC report for details.

Samples WSG-MW-6-10-0 (460-196258-1)[20X], WSG-MW3-10-0 (460-196258-8)[10X] and WSG-MW5-13-0 (460-196258-9)[5X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the Perfluorinated Hydrocarbons (PFC) analysis.

All other quality control parameters were within the acceptance limits.

TOTAL METALS (ICP)

Samples WSG-GS2-0.5-2.0-0 (460-196258-20), WSG-S21-0.0-0.2-0 (460-196258-23), WSG-S21-0.5-2.0-0 (460-196258-24), WSG-S22-0.0-0.2-0 (460-196258-25), WSG-S22-0.5-2.0-0 (460-196258-26), WSG-S19-0.0-0.2-0 (460-196258-27), WSG-S19-0.5-2.0-0 (460-196258-28), WSG-S20-0.0-0.2-0 (460-196258-29) and WSG-S20-0.5-2.0-0 (460-196258-30) were analyzed for Total Metals (ICP) in accordance with EPA SW-846 Methods 6010D. The samples were prepared on 11/19/2019 and analyzed on 11/19/2019 and 11/20/2019.

Antimony failed the recovery criteria low for the MS of sample 460-196852-1 in batch 460-656580. Aluminum, Calcium and Iron failed the recovery criteria high.

Refer to the QC report for details.

Arsenic and Silver exceeded the RPD limit for the duplicate of sample 460-196852-1. Refer to the QC report for details.

Samples WSG-GS2-0.5-2.0-0 (460-196258-20)[4X], WSG-S21-0.0-0.2-0 (460-196258-23)[4X], WSG-S21-0.5-2.0-0 (460-196258-24)[4X], WSG-S22-0.0-0.2-0 (460-196258-25)[4X], WSG-S22-0.5-2.0-0 (460-196258-26)[4X], WSG-S19-0.0-0.2-0 (460-196258-27)[4X], WSG-S19-0.5-2.0-0 (460-196258-28)[4X], WSG-S20-0.0-0.2-0 (460-196258-29)[4X] and WSG-S20-0.5-2.0-0 (460-196258-30)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the Total Metals (ICP) analysis.

All other quality control parameters were within the acceptance limits.

METALS

Samples WSG-MW-6-10-0 (460-196258-1), WSG-GW5-8-0 (460-196258-4), WSG-MW4-10-0 (460-196258-7), WSG-MW3-10-0

(460-196258-8), WSG-MW5-13-0 (460-196258-9), WSG-GW3-8-0 (460-196258-12), WSG-EB-MW-20191107 (460-196258-13), WSG-GW4-5-0 (460-196258-14) and WSG-GW2-9-0 (460-196258-16) were analyzed for Metals in accordance with 6010D. The samples were prepared on 11/16/2019 and 11/19/2019 and analyzed on 11/19/2019 and 11/20/2019.

Aluminum and Zinc exceeded the RPD limit for the duplicate of sample WSG-MW4-10-0DU (460-196258-7). Refer to the QC report for details.

No other difficulties were encountered during the Metals analysis.

All other quality control parameters were within the acceptance limits.

TOTAL MERCURY

Samples WSG-MW-6-10-0 (460-196258-1), WSG-GW5-8-0 (460-196258-4), WSG-MW4-10-0 (460-196258-7), WSG-MW3-10-0 (460-196258-8), WSG-MW5-13-0 (460-196258-9), WSG-GW3-8-0 (460-196258-12), WSG-EB-MW-20191107 (460-196258-13), WSG-GW4-5-0 (460-196258-14) and WSG-GW2-9-0 (460-196258-16) were analyzed for total mercury in accordance with EPA SW-846 Methods 7470A. The samples were prepared and analyzed on 11/20/2019.

for the duplicate of sample WSG-MW-6-10-0DU (460-196258-1). Refer to the QC report for details.

No other difficulties were encountered during the Hg analysis.

All other quality control parameters were within the acceptance limits.

TOTAL MERCURY

Samples WSG-GS2-0.5-2.0-0 (460-196258-20), WSG-S21-0.0-0.2-0 (460-196258-23), WSG-S21-0.5-2.0-0 (460-196258-24), WSG-S22-0.0-0.2-0 (460-196258-25), WSG-S22-0.5-2.0-0 (460-196258-26), WSG-S19-0.0-0.2-0 (460-196258-27), WSG-S19-0.5-2.0-0 (460-196258-28), WSG-S20-0.0-0.2-0 (460-196258-29) and WSG-S20-0.5-2.0-0 (460-196258-30) were analyzed for total mercury in accordance with EPA SW-846 Method 7471B. The samples were prepared and analyzed on 11/15/2019.

No difficulties were encountered during the Hg analysis.

All quality control parameters were within the acceptance limits.

PERCENT SOLIDS/PERCENT MOISTURE

Samples WSG-GS2-0.5-2.0-0 (460-196258-20), WSG-GS2-6.0-8.0-0 (460-196258-21), WSG-GS2-0.5-2.0-1 (460-196258-22), WSG-S21-0.0-0.2-0 (460-196258-23), WSG-S21-0.5-2.0-0 (460-196258-24), WSG-S22-0.0-0.2-0 (460-196258-25), WSG-S22-0.5-2.0-0 (460-196258-26), WSG-S19-0.0-0.2-0 (460-196258-27), WSG-S19-0.5-2.0-0 (460-196258-28), WSG-S20-0.0-0.2-0 (460-196258-29) and WSG-S20-0.5-2.0-0 (460-196258-30) were analyzed for percent solids/percent moisture in accordance with EPA Method CLPISM01.2 (Exhibit D) Modified. The samples were analyzed on 11/18/2019 and 11/21/2019.

No difficulties were encountered during the %solids/moisture analysis.

All quality control parameters were within the acceptance limits.

ORGANIC PREP

Method 3535: The following samples were observed to be a light yellow/orange color and contained sediment prior to extraction: WSG-GW3-18-0 (460-196258-10), WSG-GW3-18-0 (460-196258-10[MS]), WSG-GW3-18-0 (460-196258-10[MSD]), WSG-GW3-8-0 (460-196258-12) and WSG-GW4-5-0 (460-196258-14).

Method 3535: The following samples were observed to be a light yellow/orange color, contains sediment, and a thin layer of mud at the bottom of the container prior to extraction: WSG-GW5-8-0 (460-196258-4), WSG-GW4-15-0 (460-196258-5), WSG-GW2-9-0 (460-196258-16), WSG-GW2-19-0 (460-196258-17), WSG-GW2-29-0 (460-196258-18) and WSG-GW2-29-1 (460-196258-19).

Method 3535: The following samples contain non-settleable particulate matter which clogged the solid-phase extraction column: WSG-GW3-28-0 (460-196258-11), WSG-GW2-9-0 (460-196258-16), WSG-GW2-29-0 (460-196258-18) and WSG-GW2-29-1 (460-196258-19).

Method SHAKE: The following sample WSG-S19-0.0-0.2-0 (460-196258-27) was yellow after extraction and final volume.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Sample Summary

Client: New York State D.E.C.

Job ID: 460-196258-1

Project/Site: DEC - WAINSCOTT SAND & GRAVEL

SITE:15225

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
460-196258-1	WSG-MW-6-10-0	Water	11/06/19 13:30	11/08/19 20:00	
460-196258-2	WSG-MW-7-10-0	Water	11/06/19 12:15	11/08/19 20:00	
460-196258-3	WSG-GW4-25-0	Water	11/06/19 14:30	11/08/19 20:00	
460-196258-4	WSG-GW5-8-0	Water	11/06/19 12:10	11/08/19 20:00	
460-196258-5	WSG-GW4-15-0	Water	11/06/19 15:15	11/08/19 20:00	
460-196258-6	WSG-MW1-8-0	Water	11/07/19 08:40	11/08/19 20:00	
460-196258-7	WSG-MW4-10-0	Water	11/07/19 09:45	11/08/19 20:00	
460-196258-8	WSG-MW3-10-0	Water	11/07/19 11:00	11/08/19 20:00	
460-196258-9	WSG-MW5-13-0	Water	11/07/19 12:00	11/08/19 20:00	
460-196258-10	WSG-GW3-18-0	Water	11/07/19 12:25	11/08/19 20:00	
460-196258-11	WSG-GW3-28-0	Water	11/07/19 11:30	11/08/19 20:00	
460-196258-12	WSG-GW3-8-0	Water	11/07/19 13:25	11/08/19 20:00	
460-196258-13	WSG-EB-MW-20191107	Water	11/07/19 13:15	11/08/19 20:00	
460-196258-14	WSG-GW4-5-0	Water	11/07/19 08:30	11/08/19 20:00	
460-196258-15	WSG-TB-20191108	Water	11/08/19 00:00	11/08/19 20:00	
460-196258-16	WSG-GW2-9-0	Water	11/08/19 11:30	11/08/19 20:00	
460-196258-17	WSG-GW2-19-0	Water	11/08/19 09:45	11/08/19 20:00	
460-196258-18	WSG-GW2-29-0	Water	11/08/19 08:35	11/08/19 20:00	
460-196258-19	WSG-GW2-29-1	Water	11/08/19 08:35	11/08/19 20:00	
460-196258-20	WSG-GS2-0.5-2.0-0	Solid	11/07/19 14:20	11/08/19 20:00	
460-196258-21	WSG-GS2-6.0-8.0-0	Solid	11/07/19 14:30	11/08/19 20:00	
460-196258-22	WSG-GS2-0.5-2.0-1	Solid	11/07/19 14:20	11/08/19 20:00	
460-196258-23	WSG-S21-0.0-0.2-0	Solid	11/08/19 08:35	11/08/19 20:00	
460-196258-24	WSG-S21-0.5-2.0-0	Solid	11/08/19 08:45	11/08/19 20:00	
460-196258-25	WSG-S22-0.0-0.2-0	Solid	11/08/19 09:05	11/08/19 20:00	
460-196258-26	WSG-S22-0.5-2.0-0	Solid	11/08/19 09:15	11/08/19 20:00	
460-196258-27	WSG-S19-0.0-0.2-0	Solid	11/08/19 11:05	11/08/19 20:00	
460-196258-28	WSG-S19-0.5-2.0-0	Solid	11/08/19 11:15	11/08/19 20:00	
460-196258-29	WSG-S20-0.0-0.2-0	Solid	11/08/19 10:25	11/08/19 20:00	
460-196258-30	WSG-S20-0.5-2.0-0	Solid	11/08/19 10:35	11/08/19 20:00	

Detection Summary

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196258-1

Client Sample ID: WSG-MW-6-10-0

Lab Sample ID: 460-196258-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid (PFHxA)	61.1		1.95	0.56	ng/L		1	537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	50.0		1.95	0.24	ng/L		1	537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	26.1		1.95	0.83	ng/L		1	537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	92.3		1.95	0.30	ng/L		1	537 (modified)	Total/NA
Perfluoroundecanoic acid (PFUnA)	333		1.95	1.07	ng/L		1	537 (modified)	Total/NA
Perfluorotridecanoic acid (PFTriA)	1.49	J	1.95	1.27	ng/L		1	537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	2.50		1.95	0.19	ng/L		1	537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	58.9	B	1.95	0.17	ng/L		1	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	151		1.95	0.53	ng/L		1	537 (modified)	Total/NA
Perfluorononanoic acid (PFNA) - DL	2850		38.9	5.26	ng/L		20	537 (modified)	Total/NA
Iron	279		150	34.2	ug/L		1	6010D	Total/NA
Aluminum	539		200	28.6	ug/L		1	6010D	Total/NA
Boron	31.4	J	50.0	12.7	ug/L		1	6010D	Total/NA
Barium	32.9	J	200	7.7	ug/L		1	6010D	Total/NA
Calcium	6780		5000	222	ug/L		1	6010D	Total/NA
Potassium	1180	J	5000	323	ug/L		1	6010D	Total/NA
Magnesium	2070	J	5000	177	ug/L		1	6010D	Total/NA
Manganese	37.4		15.0	0.99	ug/L		1	6010D	Total/NA
Sodium	8280		5000	460	ug/L		1	6010D	Total/NA
Strontium	30.6		20.0	0.70	ug/L		1	6010D	Total/NA
Titanium	12.6	J	20.0	2.0	ug/L		1	6010D	Total/NA
Zinc	6.8	J	30.0	3.6	ug/L		1	6010D	Total/NA
Mercury	0.14	J	0.20	0.12	ug/L		1	7470A	Total/NA

Client Sample ID: WSG-MW-7-10-0

Lab Sample ID: 460-196258-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid (PFHxA)	0.76	J	1.96	0.57	ng/L		1	537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	0.85	J	1.96	0.24	ng/L		1	537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	3.90		1.96	0.83	ng/L		1	537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	4.55		1.96	0.26	ng/L		1	537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	0.40	J Z	1.96	0.30	ng/L		1	537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	0.23	J	1.96	0.20	ng/L		1	537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	0.76	J B	1.96	0.17	ng/L		1	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	15.0		1.96	0.53	ng/L		1	537 (modified)	Total/NA

Client Sample ID: WSG-GW4-25-0

Lab Sample ID: 460-196258-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorononanoic acid (PFNA)	0.97	J	1.93	0.26	ng/L		1	537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	1.25	J	1.93	0.19	ng/L		1	537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	19.4	B	1.93	0.16	ng/L		1	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	11.6		1.93	0.52	ng/L		1	537 (modified)	Total/NA

Client Sample ID: WSG-GW5-8-0

Lab Sample ID: 460-196258-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid (PFHxA)	28.8		1.92	0.56	ng/L		1	537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	22.3		1.92	0.24	ng/L		1	537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	40.6		1.92	0.82	ng/L		1	537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	3.20		1.92	0.26	ng/L		1	537 (modified)	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196258-1

Client Sample ID: WSG-GW5-8-0 (Continued)

Lab Sample ID: 460-196258-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorodecanoic acid (PFDA)	0.33	J	1.92	0.30	ng/L	1	1	537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	4.26		1.92	0.19	ng/L	1	1	537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	20.2	B	1.92	0.16	ng/L	1	1	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	29.2		1.92	0.52	ng/L	1	1	537 (modified)	Total/NA
Iron	25700		150	34.2	ug/L	1	1	6010D	Total/NA
Aluminum	993		200	28.6	ug/L	1	1	6010D	Total/NA
Arsenic	5.2	J	15.0	2.7	ug/L	1	1	6010D	Total/NA
Boron	93.1		50.0	12.7	ug/L	1	1	6010D	Total/NA
Barium	102	J	200	7.7	ug/L	1	1	6010D	Total/NA
Calcium	60200		5000	222	ug/L	1	1	6010D	Total/NA
Chromium	11.7		10.0	1.3	ug/L	1	1	6010D	Total/NA
Copper	8.6	J	25.0	5.1	ug/L	1	1	6010D	Total/NA
Potassium	13100		5000	323	ug/L	1	1	6010D	Total/NA
Magnesium	14500		5000	177	ug/L	1	1	6010D	Total/NA
Manganese	3520		15.0	0.99	ug/L	1	1	6010D	Total/NA
Molybdenum	4.0	J	20.0	3.3	ug/L	1	1	6010D	Total/NA
Sodium	18700		5000	460	ug/L	1	1	6010D	Total/NA
Nickel	4.7	J	40.0	1.7	ug/L	1	1	6010D	Total/NA
Strontium	284		20.0	0.70	ug/L	1	1	6010D	Total/NA
Titanium	39.2		20.0	2.0	ug/L	1	1	6010D	Total/NA
Thallium	5.5	J	20.0	5.4	ug/L	1	1	6010D	Total/NA
Zinc	15.4	J	30.0	3.6	ug/L	1	1	6010D	Total/NA

Client Sample ID: WSG-GW4-15-0

Lab Sample ID: 460-196258-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid (PFHxA)	2.69		1.92	0.56	ng/L	1	1	537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	1.50	J	1.92	0.24	ng/L	1	1	537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	4.78		1.92	0.82	ng/L	1	1	537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	1.03	J	1.92	0.26	ng/L	1	1	537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	1.36	J	1.92	0.19	ng/L	1	1	537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	27.0	B	1.92	0.16	ng/L	1	1	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	36.7		1.92	0.52	ng/L	1	1	537 (modified)	Total/NA

Client Sample ID: WSG-MW1-8-0

Lab Sample ID: 460-196258-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid (PFHxA)	4.46		1.91	0.55	ng/L	1	1	537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	3.46		1.91	0.24	ng/L	1	1	537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	4.87		1.91	0.81	ng/L	1	1	537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	1.33	J	1.91	0.26	ng/L	1	1	537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	0.70	J	1.91	0.30	ng/L	1	1	537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	0.91	J	1.91	0.19	ng/L	1	1	537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	2.38	B	1.91	0.16	ng/L	1	1	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	11.6		1.91	0.51	ng/L	1	1	537 (modified)	Total/NA

Client Sample ID: WSG-MW4-10-0

Lab Sample ID: 460-196258-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.54	J	1.0	0.33	ug/L	1	1	8260C	Total/NA
Perfluorohexanoic acid (PFHxA)	5.06		1.96	0.57	ng/L	1	1	537 (modified)	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Edison

Detection Summary

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196258-1

Client Sample ID: WSG-MW4-10-0 (Continued)

Lab Sample ID: 460-196258-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluoroheptanoic acid (PFHpA)	1.09	J	1.96	0.24	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	5.57		1.96	0.83	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	0.80	J	1.96	0.26	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	2.11		1.96	0.20	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	43.4	B	1.96	0.17	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	232		1.96	0.53	ng/L	1		537 (modified)	Total/NA
Aluminum	33.9	J	200	28.6	ug/L	1		6010D	Total/NA
Boron	28.4	J	50.0	12.7	ug/L	1		6010D	Total/NA
Barium	32.6	J	200	7.7	ug/L	1		6010D	Total/NA
Calcium	9170		5000	222	ug/L	1		6010D	Total/NA
Potassium	1710	J	5000	323	ug/L	1		6010D	Total/NA
Magnesium	3200	J	5000	177	ug/L	1		6010D	Total/NA
Manganese	12.8	J	15.0	0.99	ug/L	1		6010D	Total/NA
Sodium	50900		5000	460	ug/L	1		6010D	Total/NA
Strontium	46.0		20.0	0.70	ug/L	1		6010D	Total/NA
Zinc	7.4	J	30.0	3.6	ug/L	1		6010D	Total/NA

Client Sample ID: WSG-MW3-10-0

Lab Sample ID: 460-196258-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	1.1		1.0	0.33	ug/L	1		8260C	Total/NA
Perfluorohexanoic acid (PFHxA)	9.53		1.94	0.56	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	2.27		1.94	0.24	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	27.5		1.94	0.83	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	2.20		1.94	0.26	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	3.66		1.94	0.19	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	306	B	1.94	0.17	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS) - DL	1010		19.4	5.25	ng/L	10		537 (modified)	Total/NA
Iron	164		150	34.2	ug/L	1		6010D	Total/NA
Aluminum	355		200	28.6	ug/L	1		6010D	Total/NA
Boron	36.7	J	50.0	12.7	ug/L	1		6010D	Total/NA
Barium	34.3	J	200	7.7	ug/L	1		6010D	Total/NA
Calcium	12500		5000	222	ug/L	1		6010D	Total/NA
Copper	7.9	J	25.0	5.1	ug/L	1		6010D	Total/NA
Potassium	2870	J	5000	323	ug/L	1		6010D	Total/NA
Magnesium	3590	J	5000	177	ug/L	1		6010D	Total/NA
Manganese	16.4		15.0	0.99	ug/L	1		6010D	Total/NA
Sodium	38100		5000	460	ug/L	1		6010D	Total/NA
Nickel	1.7	J	40.0	1.7	ug/L	1		6010D	Total/NA
Strontium	52.9		20.0	0.70	ug/L	1		6010D	Total/NA
Titanium	5.3	J	20.0	2.0	ug/L	1		6010D	Total/NA
Zinc	5.6	J	30.0	3.6	ug/L	1		6010D	Total/NA

Client Sample ID: WSG-MW5-13-0

Lab Sample ID: 460-196258-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.42	J	1.0	0.33	ug/L	1		8260C	Total/NA
Perfluorohexanoic acid (PFHxA)	12.0		1.93	0.56	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	2.95		1.93	0.24	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	69.4		1.93	0.82	ng/L	1		537 (modified)	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Edison

Detection Summary

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196258-1

Client Sample ID: WSG-MW5-13-0 (Continued)

Lab Sample ID: 460-196258-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorononanoic acid (PFNA)	1.64	J	1.93	0.26	ng/L		1	537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	4.58		1.93	0.19	ng/L		1	537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS) - DL	566	B	9.66	0.82	ng/L		5	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS) - DL	877		9.66	2.61	ng/L		5	537 (modified)	Total/NA
Aluminum	70.6	J	200	28.6	ug/L		1	6010D	Total/NA
Boron	42.1	J	50.0	12.7	ug/L		1	6010D	Total/NA
Barium	28.6	J	200	7.7	ug/L		1	6010D	Total/NA
Calcium	8430		5000	222	ug/L		1	6010D	Total/NA
Potassium	1350	J	5000	323	ug/L		1	6010D	Total/NA
Magnesium	2530	J	5000	177	ug/L		1	6010D	Total/NA
Manganese	12.9	J	15.0	0.99	ug/L		1	6010D	Total/NA
Sodium	46700		5000	460	ug/L		1	6010D	Total/NA
Strontium	37.8		20.0	0.70	ug/L		1	6010D	Total/NA
Zinc	6.1	J	30.0	3.6	ug/L		1	6010D	Total/NA

Client Sample ID: WSG-GW3-18-0

Lab Sample ID: 460-196258-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid (PFHxA)	2.81		1.91	0.55	ng/L		1	537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	0.99	J	1.91	0.24	ng/L		1	537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	2.45		1.91	0.81	ng/L		1	537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	2.43		1.91	0.26	ng/L		1	537 (modified)	Total/NA
Perfluorotetradecanoic acid (PFTeA)	0.35	J	1.91	0.28	ng/L		1	537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	4.35		1.91	0.19	ng/L		1	537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	10.1	B	1.91	0.16	ng/L		1	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	17.5		1.91	0.52	ng/L		1	537 (modified)	Total/NA

Client Sample ID: WSG-GW3-28-0

Lab Sample ID: 460-196258-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluoroheptanoic acid (PFHpA)	0.25	J	1.89	0.24	ng/L		1	537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	0.83	J	1.89	0.80	ng/L		1	537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	0.46	J	1.89	0.26	ng/L		1	537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	3.80		1.89	0.19	ng/L		1	537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	4.99	B	1.89	0.16	ng/L		1	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	2.79		1.89	0.51	ng/L		1	537 (modified)	Total/NA

Client Sample ID: WSG-GW3-8-0

Lab Sample ID: 460-196258-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid (PFHxA)	6.68		1.90	0.55	ng/L		1	537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	3.29		1.90	0.24	ng/L		1	537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	5.70		1.90	0.81	ng/L		1	537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	2.40		1.90	0.26	ng/L		1	537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	4.15		1.90	0.19	ng/L		1	537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	21.4	B	1.90	0.16	ng/L		1	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	33.6		1.90	0.51	ng/L		1	537 (modified)	Total/NA
Iron	15000		150	34.2	ug/L		1	6010D	Total/NA
Aluminum	146	J	200	28.6	ug/L		1	6010D	Total/NA
Arsenic	4.5	J	15.0	2.7	ug/L		1	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: New York State D.E.C.
Project/Site: DEC - WAINSCOTT SAND & GRAVEL
SITE:15225

Job ID: 460-196258-1

Client Sample ID: WSG-GW3-8-0 (Continued)

Lab Sample ID: 460-196258-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	28.3	J	50.0	12.7	ug/L	1		6010D	Total/NA
Barium	21.9	J	200	7.7	ug/L	1		6010D	Total/NA
Calcium	24000		5000	222	ug/L	1		6010D	Total/NA
Cobalt	3.2	J	50.0	1.7	ug/L	1		6010D	Total/NA
Chromium	1.8	J	10.0	1.3	ug/L	1		6010D	Total/NA
Potassium	3840	J	5000	323	ug/L	1		6010D	Total/NA
Magnesium	5050		5000	177	ug/L	1		6010D	Total/NA
Manganese	1970		15.0	0.99	ug/L	1		6010D	Total/NA
Sodium	14900		5000	460	ug/L	1		6010D	Total/NA
Nickel	7.1	J	40.0	1.7	ug/L	1		6010D	Total/NA
Strontium	101		20.0	0.70	ug/L	1		6010D	Total/NA
Titanium	5.3	J	20.0	2.0	ug/L	1		6010D	Total/NA
Zinc	9.8	J	30.0	3.6	ug/L	1		6010D	Total/NA

Client Sample ID: WSG-EB-MW-20191107

Lab Sample ID: 460-196258-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanesulfonic acid (PFHxS)	0.26	J B	1.90	0.16	ng/L	1		537 (modified)	Total/NA

Client Sample ID: WSG-GW4-5-0

Lab Sample ID: 460-196258-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid (PFHxA)	2.82		1.98	0.57	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	2.14		1.98	0.25	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	5.69		1.98	0.84	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	1.92	J	1.98	0.27	ng/L	1		537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	2.49		1.98	0.31	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	0.42	J	1.98	0.20	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	3.43	B	1.98	0.17	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	30.5		1.98	0.53	ng/L	1		537 (modified)	Total/NA
N-ethylperfluorooctanesulfonamidoacetic acid (NETFOSAA)	3.93	J	19.8	1.88	ng/L	1		537 (modified)	Total/NA
Iron	2030		150	34.2	ug/L	1		6010D	Total/NA
Aluminum	707		200	28.6	ug/L	1		6010D	Total/NA
Boron	88.7		50.0	12.7	ug/L	1		6010D	Total/NA
Barium	18.3	J	200	7.7	ug/L	1		6010D	Total/NA
Calcium	44800		5000	222	ug/L	1		6010D	Total/NA
Chromium	4.6	J	10.0	1.3	ug/L	1		6010D	Total/NA
Potassium	36200		5000	323	ug/L	1		6010D	Total/NA
Magnesium	3060	J	5000	177	ug/L	1		6010D	Total/NA
Manganese	242		15.0	0.99	ug/L	1		6010D	Total/NA
Molybdenum	5.5	J	20.0	3.3	ug/L	1		6010D	Total/NA
Sodium	47500		5000	460	ug/L	1		6010D	Total/NA
Nickel	2.3	J	40.0	1.7	ug/L	1		6010D	Total/NA
Strontium	420		20.0	0.70	ug/L	1		6010D	Total/NA
Titanium	44.0		20.0	2.0	ug/L	1		6010D	Total/NA
Vanadium	12.0	J	50.0	2.5	ug/L	1		6010D	Total/NA
Zinc	9.9	J	30.0	3.6	ug/L	1		6010D	Total/NA

Client Sample ID: WSG-TB-20191108

Lab Sample ID: 460-196258-15

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Edison

Detection Summary

Client: New York State D.E.C.
Project/Site: DEC - WAINSCOTT SAND & GRAVEL
SITE:15225

Job ID: 460-196258-1

Client Sample ID: WSG-GW2-9-0

Lab Sample ID: 460-196258-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid (PFHxA)	39.7		1.96	0.57	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	8.70		1.96	0.24	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	17.6		1.96	0.83	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	15.5		1.96	0.26	ng/L	1		537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	0.38	J	1.96	0.30	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	10.5		1.96	0.20	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	229	B	1.96	0.17	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	84.6		1.96	0.53	ng/L	1		537 (modified)	Total/NA
Iron	58900		150	34.2	ug/L	1		6010D	Total/NA
Silver	1.2	J	10.0	1.1	ug/L	1		6010D	Total/NA
Aluminum	70.3	J	200	28.6	ug/L	1		6010D	Total/NA
Arsenic	5.7	J	15.0	2.7	ug/L	1		6010D	Total/NA
Boron	33.4	J	50.0	12.7	ug/L	1		6010D	Total/NA
Barium	59.4	J	200	7.7	ug/L	1		6010D	Total/NA
Calcium	20500		5000	222	ug/L	1		6010D	Total/NA
Cobalt	18.1	J	50.0	1.7	ug/L	1		6010D	Total/NA
Chromium	5.5	J	10.0	1.3	ug/L	1		6010D	Total/NA
Potassium	3960	J	5000	323	ug/L	1		6010D	Total/NA
Magnesium	5540		5000	177	ug/L	1		6010D	Total/NA
Manganese	3380		15.0	0.99	ug/L	1		6010D	Total/NA
Sodium	12400		5000	460	ug/L	1		6010D	Total/NA
Nickel	6.5	J	40.0	1.7	ug/L	1		6010D	Total/NA
Lead	4.6	J	10.0	2.5	ug/L	1		6010D	Total/NA
Strontium	103		20.0	0.70	ug/L	1		6010D	Total/NA
Titanium	3.9	J	20.0	2.0	ug/L	1		6010D	Total/NA
Thallium	5.9	J	20.0	5.4	ug/L	1		6010D	Total/NA
Zinc	10.1	J	30.0	3.6	ug/L	1		6010D	Total/NA

Client Sample ID: WSG-GW2-19-0

Lab Sample ID: 460-196258-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid (PFHxA)	6.41		1.95	0.56	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	1.61	J	1.95	0.24	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	3.78		1.95	0.83	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	4.80		1.95	0.26	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	2.59		1.95	0.19	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	32.5	B	1.95	0.17	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	37.9		1.95	0.53	ng/L	1		537 (modified)	Total/NA

Client Sample ID: WSG-GW2-29-0

Lab Sample ID: 460-196258-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid (PFHxA)	12.9		1.88	0.54	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	3.44		1.88	0.23	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	7.44		1.88	0.80	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	13.0		1.88	0.25	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	5.42		1.88	0.19	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	50.1	B	1.88	0.16	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	52.1		1.88	0.51	ng/L	1		537 (modified)	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Edison

Detection Summary

Client: New York State D.E.C.
Project/Site: DEC - WAINSCOTT SAND & GRAVEL
SITE:15225

Job ID: 460-196258-1

Client Sample ID: WSG-GW2-29-1

Lab Sample ID: 460-196258-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid (PFHxA)	12.5		1.90	0.55	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	3.40		1.90	0.24	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	7.28		1.90	0.81	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	12.9		1.90	0.26	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	5.06		1.90	0.19	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	50.4	B	1.90	0.16	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	52.1		1.90	0.51	ng/L	1		537 (modified)	Total/NA

Client Sample ID: WSG-GS2-0.5-2.0-0

Lab Sample ID: 460-196258-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
4,4'-DDD	6.2	J	7.8	1.3	ug/Kg	1	☼	8081B	Total/NA
4,4'-DDE	8.6		7.8	0.93	ug/Kg	1	☼	8081B	Total/NA
4,4'-DDT	11		7.8	1.4	ug/Kg	1	☼	8081B	Total/NA
Perfluorohexanoic acid (PFHxA)	0.081	J	0.23	0.048	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	0.044	J	0.23	0.033	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	0.13	J	0.23	0.098	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	0.029	J	0.23	0.025	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluoroundecanoic acid (PFUnA)	0.046	J	0.23	0.041	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.96	B	0.57	0.23	ug/Kg	1	☼	537 (modified)	Total/NA
Iron	11700		33.1	16.2	mg/Kg	4	☼	6010D	Total/NA
Aluminum	8700		44.2	12.5	mg/Kg	4	☼	6010D	Total/NA
Arsenic	8.9		3.3	1.3	mg/Kg	4	☼	6010D	Total/NA
Boron	5.2	J	11.0	3.1	mg/Kg	4	☼	6010D	Total/NA
Barium	18.9	J	44.2	2.5	mg/Kg	4	☼	6010D	Total/NA
Beryllium	0.50		0.44	0.098	mg/Kg	4	☼	6010D	Total/NA
Calcium	784	J	1100	65.1	mg/Kg	4	☼	6010D	Total/NA
Cobalt	3.6	J	11.0	1.4	mg/Kg	4	☼	6010D	Total/NA
Chromium	10.6		2.2	0.39	mg/Kg	4	☼	6010D	Total/NA
Copper	43.5		5.5	2.9	mg/Kg	4	☼	6010D	Total/NA
Potassium	512	J	1100	68.7	mg/Kg	4	☼	6010D	Total/NA
Magnesium	1530		1100	64.4	mg/Kg	4	☼	6010D	Total/NA
Manganese	110		3.3	0.39	mg/Kg	4	☼	6010D	Total/NA
Nickel	6.8	J	8.8	0.81	mg/Kg	4	☼	6010D	Total/NA
Lead	9.8		2.2	0.58	mg/Kg	4	☼	6010D	Total/NA
Strontium	4.6		4.4	0.44	mg/Kg	4	☼	6010D	Total/NA
Titanium	493		4.4	0.67	mg/Kg	4	☼	6010D	Total/NA
Vanadium	16.7		11.0	0.73	mg/Kg	4	☼	6010D	Total/NA
Zinc	22.9		6.6	5.1	mg/Kg	4	☼	6010D	Total/NA
Mercury	0.016	J	0.018	0.011	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: WSG-GS2-6.0-8.0-0

Lab Sample ID: 460-196258-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanoic acid (PFOA)	0.10	J	0.22	0.095	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	0.041	J	0.22	0.040	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	0.13	J	0.22	0.024	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	0.069	J	0.22	0.034	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	1.53	B	0.55	0.22	ug/Kg	1	☼	537 (modified)	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Edison

Detection Summary

Client: New York State D.E.C.
Project/Site: DEC - WAINSCOTT SAND & GRAVEL
SITE:15225

Job ID: 460-196258-1

Client Sample ID: WSG-GS2-0.5-2.0-1

Lab Sample ID: 460-196258-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid (PFHxA)	0.064	J	0.21	0.044	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	0.095	J	0.21	0.089	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	1.19	B	0.52	0.21	ug/Kg	1	☼	537 (modified)	Total/NA

Client Sample ID: WSG-S21-0.0-0.2-0

Lab Sample ID: 460-196258-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	2.0		1.0	0.47	ug/Kg	1	☼	8260C	Total/NA
Anthracene	49	J	370	11	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	92		37	13	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	70		37	9.9	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	100		37	9.7	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	51	J	370	11	ug/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	36	J	37	7.3	ug/Kg	1	☼	8270D	Total/NA
Chrysene	85	J	370	6.3	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	170	J	370	13	ug/Kg	1	☼	8270D	Total/NA
Fluorene	14	J	370	5.1	ug/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	67		37	15	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	130	J	370	6.6	ug/Kg	1	☼	8270D	Total/NA
Pyrene	170	J	370	9.3	ug/Kg	1	☼	8270D	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.29	J B	0.53	0.21	ug/Kg	1	☼	537 (modified)	Total/NA
Iron	5190		31.9	15.7	mg/Kg	4	☼	6010D	Total/NA
Aluminum	3530		42.6	12.0	mg/Kg	4	☼	6010D	Total/NA
Arsenic	1.6	J	3.2	1.2	mg/Kg	4	☼	6010D	Total/NA
Boron	5.7	J	10.6	2.9	mg/Kg	4	☼	6010D	Total/NA
Barium	26.4	J	42.6	2.4	mg/Kg	4	☼	6010D	Total/NA
Beryllium	0.26	J	0.43	0.095	mg/Kg	4	☼	6010D	Total/NA
Calcium	25000		1060	62.7	mg/Kg	4	☼	6010D	Total/NA
Cobalt	1.8	J	10.6	1.3	mg/Kg	4	☼	6010D	Total/NA
Chromium	12.2		2.1	0.38	mg/Kg	4	☼	6010D	Total/NA
Copper	7.9		5.3	2.8	mg/Kg	4	☼	6010D	Total/NA
Potassium	794	J	1060	66.2	mg/Kg	4	☼	6010D	Total/NA
Magnesium	2310		1060	62.1	mg/Kg	4	☼	6010D	Total/NA
Manganese	133		3.2	0.37	mg/Kg	4	☼	6010D	Total/NA
Nickel	5.8	J	8.5	0.78	mg/Kg	4	☼	6010D	Total/NA
Lead	7.1		2.1	0.56	mg/Kg	4	☼	6010D	Total/NA
Strontium	97.7		4.3	0.42	mg/Kg	4	☼	6010D	Total/NA
Titanium	249		4.3	0.64	mg/Kg	4	☼	6010D	Total/NA
Vanadium	12.9		10.6	0.71	mg/Kg	4	☼	6010D	Total/NA
Zinc	34.2		6.4	5.0	mg/Kg	4	☼	6010D	Total/NA
Mercury	0.025		0.019	0.011	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: WSG-S21-0.5-2.0-0

Lab Sample ID: 460-196258-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	1.2		1.1	0.49	ug/Kg	1	☼	8260C	Total/NA
Benzo[a]anthracene	55		37	13	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	39		37	9.9	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	53		37	9.6	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	31	J	370	11	ug/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	20	J	37	7.3	ug/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Edison

Detection Summary

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196258-1

Client Sample ID: WSG-S21-0.5-2.0-0 (Continued)

Lab Sample ID: 460-196258-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chrysene	49	J	370	6.3	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	83	J	370	13	ug/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	30	J	37	15	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	61	J	370	6.5	ug/Kg	1	☼	8270D	Total/NA
Pyrene	96	J	370	9.2	ug/Kg	1	☼	8270D	Total/NA
4,4'-DDE	2.8	J	7.5	0.89	ug/Kg	1	☼	8081B	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.31	J B	0.55	0.22	ug/Kg	1	☼	537 (modified)	Total/NA
Iron	5860		31.5	15.4	mg/Kg	4	☼	6010D	Total/NA
Aluminum	4200		42.0	11.9	mg/Kg	4	☼	6010D	Total/NA
Arsenic	1.9	J	3.2	1.2	mg/Kg	4	☼	6010D	Total/NA
Boron	10	J	10.5	2.9	mg/Kg	4	☼	6010D	Total/NA
Barium	27.5	J	42.0	2.3	mg/Kg	4	☼	6010D	Total/NA
Beryllium	0.30	J	0.42	0.094	mg/Kg	4	☼	6010D	Total/NA
Calcium	32400		1050	61.9	mg/Kg	4	☼	6010D	Total/NA
Cobalt	1.8	J	10.5	1.3	mg/Kg	4	☼	6010D	Total/NA
Chromium	9.6		2.1	0.37	mg/Kg	4	☼	6010D	Total/NA
Copper	10		5.3	2.8	mg/Kg	4	☼	6010D	Total/NA
Potassium	575	J	1050	65.4	mg/Kg	4	☼	6010D	Total/NA
Magnesium	2620		1050	61.3	mg/Kg	4	☼	6010D	Total/NA
Manganese	133		3.2	0.37	mg/Kg	4	☼	6010D	Total/NA
Nickel	5.8	J	8.4	0.77	mg/Kg	4	☼	6010D	Total/NA
Lead	5.7		2.1	0.55	mg/Kg	4	☼	6010D	Total/NA
Strontium	96.0		4.2	0.42	mg/Kg	4	☼	6010D	Total/NA
Titanium	322		4.2	0.63	mg/Kg	4	☼	6010D	Total/NA
Vanadium	14.5		10.5	0.70	mg/Kg	4	☼	6010D	Total/NA
Zinc	26.4		6.3	4.9	mg/Kg	4	☼	6010D	Total/NA
Mercury	0.022		0.018	0.010	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: WSG-S22-0.0-0.2-0

Lab Sample ID: 460-196258-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	2.6		1.0	0.48	ug/Kg	1	☼	8260C	Total/NA
Benzo[a]anthracene	22	J	37	13	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	17	J	37	9.9	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	25	J	37	9.6	ug/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	12	J	37	7.3	ug/Kg	1	☼	8270D	Total/NA
Chrysene	18	J	370	6.3	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	24	J	370	13	ug/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	20	J	37	14	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	13	J	370	6.5	ug/Kg	1	☼	8270D	Total/NA
Pyrene	29	J	370	9.2	ug/Kg	1	☼	8270D	Total/NA
Perfluorobutanesulfonic acid (PFBS)	0.065	J Z	0.21	0.027	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	0.035	J	0.21	0.033	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.62	B	0.53	0.21	ug/Kg	1	☼	537 (modified)	Total/NA
Iron	4310		31.7	15.5	mg/Kg	4	☼	6010D	Total/NA
Aluminum	3070		42.2	11.9	mg/Kg	4	☼	6010D	Total/NA
Arsenic	1.4	J	3.2	1.2	mg/Kg	4	☼	6010D	Total/NA
Boron	5.7	J	10.6	2.9	mg/Kg	4	☼	6010D	Total/NA
Barium	22.9	J	42.2	2.3	mg/Kg	4	☼	6010D	Total/NA
Beryllium	0.21	J	0.42	0.094	mg/Kg	4	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Edison

Detection Summary

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196258-1

Client Sample ID: WSG-S22-0.0-0.2-0 (Continued)

Lab Sample ID: 460-196258-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	21000		1060	62.2	mg/Kg	4	☼	6010D	Total/NA
Cobalt	1.4	J	10.6	1.3	mg/Kg	4	☼	6010D	Total/NA
Chromium	7.4		2.1	0.38	mg/Kg	4	☼	6010D	Total/NA
Copper	7.3		5.3	2.8	mg/Kg	4	☼	6010D	Total/NA
Potassium	441	J	1060	65.7	mg/Kg	4	☼	6010D	Total/NA
Magnesium	1740		1060	61.6	mg/Kg	4	☼	6010D	Total/NA
Manganese	149		3.2	0.37	mg/Kg	4	☼	6010D	Total/NA
Nickel	5.0	J	8.4	0.78	mg/Kg	4	☼	6010D	Total/NA
Lead	4.7		2.1	0.55	mg/Kg	4	☼	6010D	Total/NA
Strontium	89.4		4.2	0.42	mg/Kg	4	☼	6010D	Total/NA
Titanium	169		4.2	0.64	mg/Kg	4	☼	6010D	Total/NA
Vanadium	9.3	J	10.6	0.70	mg/Kg	4	☼	6010D	Total/NA
Zinc	31.3		6.3	4.9	mg/Kg	4	☼	6010D	Total/NA
Mercury	0.024		0.018	0.011	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: WSG-S22-0.5-2.0-0

Lab Sample ID: 460-196258-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	2.4		1.0	0.48	ug/Kg	1	☼	8260C	Total/NA
Anthracene	21	J	370	11	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	78		37	13	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	67		37	9.8	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	96		37	9.5	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	59	J	370	11	ug/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	35	J	37	7.2	ug/Kg	1	☼	8270D	Total/NA
Carbazole	14	J	370	14	ug/Kg	1	☼	8270D	Total/NA
Chrysene	76	J	370	6.2	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	140	J	370	13	ug/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	59		37	14	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	92	J	370	6.4	ug/Kg	1	☼	8270D	Total/NA
Pyrene	160	J	370	9.1	ug/Kg	1	☼	8270D	Total/NA
Perfluorodecanoic acid (PFDA)	0.026	J Z	0.21	0.023	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.56	B	0.52	0.21	ug/Kg	1	☼	537 (modified)	Total/NA
Iron	4620		31.1	15.2	mg/Kg	4	☼	6010D	Total/NA
Aluminum	3010		41.4	11.7	mg/Kg	4	☼	6010D	Total/NA
Arsenic	1.6	J	3.1	1.2	mg/Kg	4	☼	6010D	Total/NA
Boron	5.0	J	10.4	2.9	mg/Kg	4	☼	6010D	Total/NA
Barium	26.3	J	41.4	2.3	mg/Kg	4	☼	6010D	Total/NA
Beryllium	0.20	J	0.41	0.092	mg/Kg	4	☼	6010D	Total/NA
Calcium	21100		1040	61.0	mg/Kg	4	☼	6010D	Total/NA
Cobalt	1.7	J	10.4	1.3	mg/Kg	4	☼	6010D	Total/NA
Chromium	8.7		2.1	0.37	mg/Kg	4	☼	6010D	Total/NA
Copper	7.2		5.2	2.8	mg/Kg	4	☼	6010D	Total/NA
Potassium	641	J	1040	64.5	mg/Kg	4	☼	6010D	Total/NA
Magnesium	1860		1040	60.4	mg/Kg	4	☼	6010D	Total/NA
Manganese	122		3.1	0.36	mg/Kg	4	☼	6010D	Total/NA
Nickel	5.1	J	8.3	0.76	mg/Kg	4	☼	6010D	Total/NA
Lead	5.9		2.1	0.54	mg/Kg	4	☼	6010D	Total/NA
Strontium	85.1		4.1	0.41	mg/Kg	4	☼	6010D	Total/NA
Titanium	174		4.1	0.62	mg/Kg	4	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196258-1

Client Sample ID: WSG-S22-0.5-2.0-0 (Continued)

Lab Sample ID: 460-196258-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vanadium	9.4	J	10.4	0.69	mg/Kg	4	☼	6010D	Total/NA
Zinc	25.3		6.2	4.8	mg/Kg	4	☼	6010D	Total/NA
Mercury	0.023		0.018	0.011	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: WSG-S19-0.0-0.2-0

Lab Sample ID: 460-196258-27

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	3.1		1.0	0.48	ug/Kg	1	☼	8260C	Total/NA
Benzo[a]anthracene	38		37	13	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	34	J	37	9.8	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	74		37	9.5	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	55	J	370	11	ug/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	29	J	37	7.2	ug/Kg	1	☼	8270D	Total/NA
Bis(2-ethylhexyl) phthalate	1700		370	19	ug/Kg	1	☼	8270D	Total/NA
Chrysene	55	J	370	6.2	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	38	J	370	13	ug/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	58		37	14	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	20	J	370	6.5	ug/Kg	1	☼	8270D	Total/NA
Pyrene	78	J	370	9.2	ug/Kg	1	☼	8270D	Total/NA
Perfluorodecanoic acid (PFDA)	0.024	J	0.22	0.024	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluoroundecanoic acid (PFUnA)	0.042	J Z	0.22	0.039	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	1.07	B	0.54	0.22	ug/Kg	1	☼	537 (modified)	Total/NA
Iron	14800		30.6	15.0	mg/Kg	4	☼	6010D	Total/NA
Aluminum	3290		40.9	11.5	mg/Kg	4	☼	6010D	Total/NA
Arsenic	2.8	J	3.1	1.2	mg/Kg	4	☼	6010D	Total/NA
Boron	6.8	J	10.2	2.8	mg/Kg	4	☼	6010D	Total/NA
Barium	31.6	J	40.9	2.3	mg/Kg	4	☼	6010D	Total/NA
Beryllium	0.22	J	0.41	0.091	mg/Kg	4	☼	6010D	Total/NA
Calcium	25100		1020	60.2	mg/Kg	4	☼	6010D	Total/NA
Cobalt	2.0	J	10.2	1.3	mg/Kg	4	☼	6010D	Total/NA
Chromium	16.9		2.0	0.36	mg/Kg	4	☼	6010D	Total/NA
Copper	19.6		5.1	2.7	mg/Kg	4	☼	6010D	Total/NA
Potassium	455	J	1020	63.5	mg/Kg	4	☼	6010D	Total/NA
Magnesium	2470		1020	59.6	mg/Kg	4	☼	6010D	Total/NA
Manganese	176		3.1	0.36	mg/Kg	4	☼	6010D	Total/NA
Molybdenum	1.1	J	4.1	0.97	mg/Kg	4	☼	6010D	Total/NA
Sodium	116	J	1020	82.1	mg/Kg	4	☼	6010D	Total/NA
Nickel	8.2		8.2	0.75	mg/Kg	4	☼	6010D	Total/NA
Lead	14.9		2.0	0.53	mg/Kg	4	☼	6010D	Total/NA
Strontium	91.7		4.1	0.41	mg/Kg	4	☼	6010D	Total/NA
Titanium	192		4.1	0.61	mg/Kg	4	☼	6010D	Total/NA
Vanadium	12.3		10.2	0.68	mg/Kg	4	☼	6010D	Total/NA
Zinc	73.1		6.1	4.8	mg/Kg	4	☼	6010D	Total/NA
Mercury	0.039		0.019	0.011	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: WSG-S19-0.5-2.0-0

Lab Sample ID: 460-196258-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[b]fluoranthene	12	J	34	8.8	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	20	J	340	12	ug/Kg	1	☼	8270D	Total/NA
Pyrene	18	J	340	8.5	ug/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196258-1

Client Sample ID: WSG-S19-0.5-2.0-0 (Continued)

Lab Sample ID: 460-196258-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanesulfonic acid (PFOS)	0.84	B	0.47	0.19	ug/Kg	1	☒	537 (modified)	Total/NA
Iron	2190		28.6	14.0	mg/Kg	4	☒	6010D	Total/NA
Aluminum	1250		38.2	10.8	mg/Kg	4	☒	6010D	Total/NA
Boron	3.9	J	9.5	2.6	mg/Kg	4	☒	6010D	Total/NA
Barium	5.4	J	38.2	2.1	mg/Kg	4	☒	6010D	Total/NA
Beryllium	0.097	J	0.38	0.085	mg/Kg	4	☒	6010D	Total/NA
Calcium	2690		954	56.2	mg/Kg	4	☒	6010D	Total/NA
Chromium	2.1		1.9	0.34	mg/Kg	4	☒	6010D	Total/NA
Potassium	94.2	J	954	59.3	mg/Kg	4	☒	6010D	Total/NA
Magnesium	233	J	954	55.6	mg/Kg	4	☒	6010D	Total/NA
Manganese	76.7		2.9	0.33	mg/Kg	4	☒	6010D	Total/NA
Nickel	1.4	J	7.6	0.70	mg/Kg	4	☒	6010D	Total/NA
Lead	1.7	J	1.9	0.50	mg/Kg	4	☒	6010D	Total/NA
Strontium	7.1		3.8	0.38	mg/Kg	4	☒	6010D	Total/NA
Titanium	61.7		3.8	0.57	mg/Kg	4	☒	6010D	Total/NA
Vanadium	3.4	J	9.5	0.63	mg/Kg	4	☒	6010D	Total/NA

Client Sample ID: WSG-S20-0.0-0.2-0

Lab Sample ID: 460-196258-29

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	2.7		1.0	0.48	ug/Kg	1	☒	8260C	Total/NA
2-Methylnaphthalene	13	J	360	10	ug/Kg	1	☒	8270D	Total/NA
Acenaphthene	60	J	360	26	ug/Kg	1	☒	8270D	Total/NA
Anthracene	180	J	360	11	ug/Kg	1	☒	8270D	Total/NA
Benzo[a]anthracene	320		36	13	ug/Kg	1	☒	8270D	Total/NA
Benzo[a]pyrene	220		36	9.7	ug/Kg	1	☒	8270D	Total/NA
Benzo[b]fluoranthene	300		36	9.4	ug/Kg	1	☒	8270D	Total/NA
Benzo[g,h,i]perylene	130	J	360	11	ug/Kg	1	☒	8270D	Total/NA
Benzo[k]fluoranthene	110		36	7.1	ug/Kg	1	☒	8270D	Total/NA
Carbazole	88	J	360	14	ug/Kg	1	☒	8270D	Total/NA
Chrysene	280	J	360	6.1	ug/Kg	1	☒	8270D	Total/NA
Dibenz(a,h)anthracene	43		36	16	ug/Kg	1	☒	8270D	Total/NA
Dibenzofuran	36	J	360	5.1	ug/Kg	1	☒	8270D	Total/NA
Fluoranthene	670		360	13	ug/Kg	1	☒	8270D	Total/NA
Fluorene	77	J	360	4.9	ug/Kg	1	☒	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	160		36	14	ug/Kg	1	☒	8270D	Total/NA
Naphthalene	19	J	360	6.3	ug/Kg	1	☒	8270D	Total/NA
Phenanthrene	650		360	6.4	ug/Kg	1	☒	8270D	Total/NA
Pyrene	670		360	9.0	ug/Kg	1	☒	8270D	Total/NA
Dieldrin	3.8		2.2	0.95	ug/Kg	1	☒	8081B	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.54	B	0.50	0.20	ug/Kg	1	☒	537 (modified)	Total/NA
Iron	3870		31.9	15.6	mg/Kg	4	☒	6010D	Total/NA
Aluminum	2150		42.5	12.0	mg/Kg	4	☒	6010D	Total/NA
Arsenic	1.6	J	3.2	1.2	mg/Kg	4	☒	6010D	Total/NA
Boron	6.7	J	10.6	2.9	mg/Kg	4	☒	6010D	Total/NA
Barium	16.3	J	42.5	2.4	mg/Kg	4	☒	6010D	Total/NA
Beryllium	0.16	J	0.43	0.095	mg/Kg	4	☒	6010D	Total/NA
Calcium	17400		1060	62.6	mg/Kg	4	☒	6010D	Total/NA
Chromium	6.9		2.1	0.38	mg/Kg	4	☒	6010D	Total/NA
Copper	6.8		5.3	2.8	mg/Kg	4	☒	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196258-1

Client Sample ID: WSG-S20-0.0-0.2-0 (Continued)

Lab Sample ID: 460-196258-29

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Potassium	289	J	1060	66.1	mg/Kg	4	☼	6010D	Total/NA
Magnesium	2450		1060	62.0	mg/Kg	4	☼	6010D	Total/NA
Manganese	74.6		3.2	0.37	mg/Kg	4	☼	6010D	Total/NA
Nickel	3.7	J	8.5	0.78	mg/Kg	4	☼	6010D	Total/NA
Lead	8.5		2.1	0.56	mg/Kg	4	☼	6010D	Total/NA
Strontium	57.2		4.3	0.42	mg/Kg	4	☼	6010D	Total/NA
Titanium	129		4.3	0.64	mg/Kg	4	☼	6010D	Total/NA
Thallium	0.83	J	4.3	0.68	mg/Kg	4	☼	6010D	Total/NA
Vanadium	7.9	J	10.6	0.71	mg/Kg	4	☼	6010D	Total/NA
Zinc	21.4		6.4	5.0	mg/Kg	4	☼	6010D	Total/NA
Mercury	0.026		0.019	0.011	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: WSG-S20-0.5-2.0-0

Lab Sample ID: 460-196258-30

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorononanoic acid (PFNA)	0.23		0.20	0.036	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	0.029	J	0.20	0.022	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	1.32	B	0.50	0.20	ug/Kg	1	☼	537 (modified)	Total/NA
Iron	2440		30.0	14.7	mg/Kg	4	☼	6010D	Total/NA
Aluminum	1340		40.0	11.3	mg/Kg	4	☼	6010D	Total/NA
Boron	3.3	J	10.0	2.8	mg/Kg	4	☼	6010D	Total/NA
Barium	4.2	J	40.0	2.2	mg/Kg	4	☼	6010D	Total/NA
Calcium	511	J	1000	59.0	mg/Kg	4	☼	6010D	Total/NA
Chromium	2.2		2.0	0.36	mg/Kg	4	☼	6010D	Total/NA
Potassium	85.2	J	1000	62.3	mg/Kg	4	☼	6010D	Total/NA
Magnesium	289	J	1000	58.4	mg/Kg	4	☼	6010D	Total/NA
Manganese	51.3		3.0	0.35	mg/Kg	4	☼	6010D	Total/NA
Nickel	1.6	J	8.0	0.74	mg/Kg	4	☼	6010D	Total/NA
Lead	2.1		2.0	0.52	mg/Kg	4	☼	6010D	Total/NA
Strontium	2.8	J	4.0	0.40	mg/Kg	4	☼	6010D	Total/NA
Titanium	53.7		4.0	0.60	mg/Kg	4	☼	6010D	Total/NA
Vanadium	3.4	J	10.0	0.66	mg/Kg	4	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: New York State D.E.C.

Job ID: 460-196258-1

Project/Site: DEC - WAINSCOTT SAND & GRAVEL

SITE:15225

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL EDI
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL EDI
8270D SIM	Semivolatile Organic Compounds (GC/MS SIM)	SW846	TAL EDI
608.3	Organochlorine Pesticides/PCBs in Water	40CFR136A	TAL EDI
8081B	Organochlorine Pesticides (GC)	SW846	TAL EDI
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL EDI
8151A	Herbicides (GC)	SW846	TAL EDI
537 (modified)	Fluorinated Alkyl Substances	EPA	TAL SAC
6010D	Metals (ICP)	SW846	TAL EDI
7470A	Mercury (CVAA)	SW846	TAL EDI
7471B	Mercury (CVAA)	SW846	TAL EDI
D 2216	Percent Moisture	ASTM	TAL SAC
Moisture	Percent Moisture	EPA	TAL EDI
3010A	Preparation, Total Metals	SW846	TAL EDI
3050B	Preparation, Metals	SW846	TAL EDI
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL EDI
3535	Solid-Phase Extraction (SPE)	SW846	TAL SAC
3546	Microwave Extraction	SW846	TAL EDI
5030C	Purge and Trap	SW846	TAL EDI
5035	Closed System Purge and Trap	SW846	TAL EDI
608	Liquid-Liquid Extraction (Separatory Funnel)	40CFR136A	TAL EDI
7470A	Preparation, Mercury	SW846	TAL EDI
7471B	Preparation, Mercury	SW846	TAL EDI
8151A	Extraction (Herbicides)	SW846	TAL EDI
SHAKE	Shake Extraction with Ultrasonic Bath Extraction	SW846	TAL SAC

Protocol References:

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL EDI = Eurofins TestAmerica, Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

TAL SAC = Eurofins TestAmerica, Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196258-1

Client Sample ID: WSG-MW-6-10-0

Lab Sample ID: 460-196258-1

Date Collected: 11/06/19 13:30

Matrix: Water

Date Received: 11/08/19 20:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			11/16/19 02:02	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.37	ug/L			11/16/19 02:02	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			11/16/19 02:02	1
1,1,2-Trichloroethane	1.0	U	1.0	0.43	ug/L			11/16/19 02:02	1
1,1-Dichloroethane	1.0	U	1.0	0.26	ug/L			11/16/19 02:02	1
1,1-Dichloroethene	1.0	U	1.0	0.26	ug/L			11/16/19 02:02	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.37	ug/L			11/16/19 02:02	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.38	ug/L			11/16/19 02:02	1
1,2-Dichlorobenzene	1.0	U	1.0	0.43	ug/L			11/16/19 02:02	1
1,2-Dichloroethane	1.0	U	1.0	0.43	ug/L			11/16/19 02:02	1
1,2-Dichloropropane	1.0	U	1.0	0.35	ug/L			11/16/19 02:02	1
1,3-Dichlorobenzene	1.0	U	1.0	0.34	ug/L			11/16/19 02:02	1
1,4-Dichlorobenzene	1.0	U	1.0	0.33	ug/L			11/16/19 02:02	1
2-Butanone (MEK)	5.0	U	5.0	1.9	ug/L			11/16/19 02:02	1
2-Hexanone	5.0	U	5.0	1.1	ug/L			11/16/19 02:02	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	1.3	ug/L			11/16/19 02:02	1
Acetone	5.0	U	5.0	4.4	ug/L			11/16/19 02:02	1
Benzene	1.0	U	1.0	0.20	ug/L			11/16/19 02:02	1
Bromoform	1.0	U	1.0	0.54	ug/L			11/16/19 02:02	1
Bromomethane	1.0	U	1.0	0.55	ug/L			11/16/19 02:02	1
Carbon disulfide	1.0	U	1.0	0.82	ug/L			11/16/19 02:02	1
Carbon tetrachloride	1.0	U	1.0	0.21	ug/L			11/16/19 02:02	1
Chlorobenzene	1.0	U	1.0	0.38	ug/L			11/16/19 02:02	1
Chlorodibromomethane	1.0	U	1.0	0.28	ug/L			11/16/19 02:02	1
Chloroethane	1.0	U	1.0	0.32	ug/L			11/16/19 02:02	1
Chloroform	1.0	U	1.0	0.33	ug/L			11/16/19 02:02	1
Chloromethane	1.0	U	1.0	0.40	ug/L			11/16/19 02:02	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.22	ug/L			11/16/19 02:02	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.22	ug/L			11/16/19 02:02	1
Cyclohexane	1.0	U	1.0	0.32	ug/L			11/16/19 02:02	1
Dichlorobromomethane	1.0	U	1.0	0.34	ug/L			11/16/19 02:02	1
Dichlorodifluoromethane	1.0	U	1.0	0.31	ug/L			11/16/19 02:02	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			11/16/19 02:02	1
Ethylene Dibromide	1.0	U	1.0	0.50	ug/L			11/16/19 02:02	1
Isopropylbenzene	1.0	U	1.0	0.34	ug/L			11/16/19 02:02	1
Methyl acetate	5.0	U	5.0	0.79	ug/L			11/16/19 02:02	1
Methyl tert-butyl ether	1.0	U	1.0	0.47	ug/L			11/16/19 02:02	1
Methylcyclohexane	1.0	U	1.0	0.26	ug/L			11/16/19 02:02	1
Methylene Chloride	1.0	U	1.0	0.32	ug/L			11/16/19 02:02	1
Styrene	1.0	U	1.0	0.42	ug/L			11/16/19 02:02	1
Tetrachloroethene	1.0	U	1.0	0.25	ug/L			11/16/19 02:02	1
Toluene	1.0	U	1.0	0.38	ug/L			11/16/19 02:02	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			11/16/19 02:02	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.49	ug/L			11/16/19 02:02	1
Trichloroethene	1.0	U	1.0	0.31	ug/L			11/16/19 02:02	1
Trichlorofluoromethane	1.0	U	1.0	0.32	ug/L			11/16/19 02:02	1
Vinyl chloride	1.0	U	1.0	0.17	ug/L			11/16/19 02:02	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			11/16/19 02:02	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196258-1

Client Sample ID: WSG-MW-6-10-0

Lab Sample ID: 460-196258-1

Date Collected: 11/06/19 13:30

Matrix: Water

Date Received: 11/08/19 20:00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		74 - 132		11/16/19 02:02	1
4-Bromofluorobenzene	90		77 - 124		11/16/19 02:02	1
Dibromofluoromethane (Surr)	95		72 - 131		11/16/19 02:02	1
Toluene-d8 (Surr)	101		80 - 120		11/16/19 02:02	1

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.40	U	0.40	0.17	ug/L		11/12/19 18:50	11/13/19 12:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	111		38 - 125	11/12/19 18:50	11/13/19 12:49	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	10	U	10	1.2	ug/L		11/12/19 18:50	11/13/19 11:46	1
2,2'-oxybis[1-chloropropane]	10	U	10	0.63	ug/L		11/12/19 18:50	11/13/19 11:46	1
2,4,5-Trichlorophenol	10	U	10	0.88	ug/L		11/12/19 18:50	11/13/19 11:46	1
2,4,6-Trichlorophenol	10	U	10	0.86	ug/L		11/12/19 18:50	11/13/19 11:46	1
2,4-Dichlorophenol	10	U	10	1.1	ug/L		11/12/19 18:50	11/13/19 11:46	1
2,4-Dimethylphenol	10	U	10	0.62	ug/L		11/12/19 18:50	11/13/19 11:46	1
2,4-Dinitrophenol	20	U *	20	14	ug/L		11/12/19 18:50	11/13/19 11:46	1
2,4-Dinitrotoluene	2.0	U	2.0	1.0	ug/L		11/12/19 18:50	11/13/19 11:46	1
2,6-Dinitrotoluene	2.0	U	2.0	0.83	ug/L		11/12/19 18:50	11/13/19 11:46	1
2-Chloronaphthalene	10	U	10	1.2	ug/L		11/12/19 18:50	11/13/19 11:46	1
2-Chlorophenol	10	U	10	0.38	ug/L		11/12/19 18:50	11/13/19 11:46	1
2-Methylnaphthalene	10	U	10	1.1	ug/L		11/12/19 18:50	11/13/19 11:46	1
2-Methylphenol	10	U	10	0.67	ug/L		11/12/19 18:50	11/13/19 11:46	1
2-Nitroaniline	10	U	10	0.47	ug/L		11/12/19 18:50	11/13/19 11:46	1
2-Nitrophenol	10	U	10	0.75	ug/L		11/12/19 18:50	11/13/19 11:46	1
3,3'-Dichlorobenzidine	10	U	10	1.4	ug/L		11/12/19 18:50	11/13/19 11:46	1
3-Nitroaniline	10	U	10	1.9	ug/L		11/12/19 18:50	11/13/19 11:46	1
4,6-Dinitro-2-methylphenol	20	U	20	13	ug/L		11/12/19 18:50	11/13/19 11:46	1
4-Bromophenyl phenyl ether	10	U	10	0.75	ug/L		11/12/19 18:50	11/13/19 11:46	1
4-Chloro-3-methylphenol	10	U	10	0.58	ug/L		11/12/19 18:50	11/13/19 11:46	1
4-Chloroaniline	10	U	10	1.9	ug/L		11/12/19 18:50	11/13/19 11:46	1
4-Chlorophenyl phenyl ether	10	U	10	1.3	ug/L		11/12/19 18:50	11/13/19 11:46	1
4-Methylphenol	10	U	10	0.65	ug/L		11/12/19 18:50	11/13/19 11:46	1
4-Nitroaniline	10	U	10	1.2	ug/L		11/12/19 18:50	11/13/19 11:46	1
4-Nitrophenol	20	U	20	4.0	ug/L		11/12/19 18:50	11/13/19 11:46	1
Acenaphthene	10	U	10	1.1	ug/L		11/12/19 18:50	11/13/19 11:46	1
Acenaphthylene	10	U	10	0.82	ug/L		11/12/19 18:50	11/13/19 11:46	1
Acetophenone	10	U	10	2.3	ug/L		11/12/19 18:50	11/13/19 11:46	1
Anthracene	10	U	10	0.63	ug/L		11/12/19 18:50	11/13/19 11:46	1
Atrazine	2.0	U	2.0	1.3	ug/L		11/12/19 18:50	11/13/19 11:46	1
Benzaldehyde	10	U	10	2.1	ug/L		11/12/19 18:50	11/13/19 11:46	1
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		11/12/19 18:50	11/13/19 11:46	1
Benzo[a]pyrene	1.0	U	1.0	0.41	ug/L		11/12/19 18:50	11/13/19 11:46	1
Benzo[b]fluoranthene	2.0	U *	2.0	0.68	ug/L		11/12/19 18:50	11/13/19 11:46	1
Benzo[g,h,i]perylene	10	U	10	1.4	ug/L		11/12/19 18:50	11/13/19 11:46	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		11/12/19 18:50	11/13/19 11:46	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196258-1

Client Sample ID: WSG-MW-6-10-0

Lab Sample ID: 460-196258-1

Date Collected: 11/06/19 13:30

Matrix: Water

Date Received: 11/08/19 20:00

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-chloroethoxy)methane	10	U	10	0.59	ug/L		11/12/19 18:50	11/13/19 11:46	1
Bis(2-chloroethyl)ether	1.0	U	1.0	0.63	ug/L		11/12/19 18:50	11/13/19 11:46	1
Bis(2-ethylhexyl) phthalate	2.0	U	2.0	1.7	ug/L		11/12/19 18:50	11/13/19 11:46	1
Butyl benzyl phthalate	10	U	10	0.85	ug/L		11/12/19 18:50	11/13/19 11:46	1
Caprolactam	10	U	10	0.68	ug/L		11/12/19 18:50	11/13/19 11:46	1
Carbazole	10	U	10	0.68	ug/L		11/12/19 18:50	11/13/19 11:46	1
Chrysene	2.0	U	2.0	0.91	ug/L		11/12/19 18:50	11/13/19 11:46	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		11/12/19 18:50	11/13/19 11:46	1
Dibenzofuran	10	U	10	1.1	ug/L		11/12/19 18:50	11/13/19 11:46	1
Diethyl phthalate	10	U	10	0.98	ug/L		11/12/19 18:50	11/13/19 11:46	1
Dimethyl phthalate	10	U	10	0.77	ug/L		11/12/19 18:50	11/13/19 11:46	1
Di-n-butyl phthalate	10	U	10	0.84	ug/L		11/12/19 18:50	11/13/19 11:46	1
Di-n-octyl phthalate	10	U*	10	4.8	ug/L		11/12/19 18:50	11/13/19 11:46	1
Fluoranthene	10	U	10	0.84	ug/L		11/12/19 18:50	11/13/19 11:46	1
Fluorene	10	U	10	0.91	ug/L		11/12/19 18:50	11/13/19 11:46	1
Hexachlorobenzene	1.0	U	1.0	0.40	ug/L		11/12/19 18:50	11/13/19 11:46	1
Hexachlorobutadiene	1.0	U	1.0	0.78	ug/L		11/12/19 18:50	11/13/19 11:46	1
Hexachlorocyclopentadiene	10	U	10	3.6	ug/L		11/12/19 18:50	11/13/19 11:46	1
Hexachloroethane	2.0	U	2.0	0.80	ug/L		11/12/19 18:50	11/13/19 11:46	1
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	0.94	ug/L		11/12/19 18:50	11/13/19 11:46	1
Isophorone	10	U	10	0.80	ug/L		11/12/19 18:50	11/13/19 11:46	1
Naphthalene	10	U	10	1.1	ug/L		11/12/19 18:50	11/13/19 11:46	1
Nitrobenzene	1.0	U	1.0	0.57	ug/L		11/12/19 18:50	11/13/19 11:46	1
N-Nitrosodi-n-propylamine	1.0	U	1.0	0.43	ug/L		11/12/19 18:50	11/13/19 11:46	1
N-Nitrosodiphenylamine	10	U	10	0.89	ug/L		11/12/19 18:50	11/13/19 11:46	1
Pentachlorophenol	20	U	20	1.4	ug/L		11/12/19 18:50	11/13/19 11:46	1
Phenanthrene	10	U	10	0.58	ug/L		11/12/19 18:50	11/13/19 11:46	1
Phenol	10	U	10	0.29	ug/L		11/12/19 18:50	11/13/19 11:46	1
Pyrene	10	U	10	1.6	ug/L		11/12/19 18:50	11/13/19 11:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	105		26 - 139	11/12/19 18:50	11/13/19 11:46	1
2-Fluorobiphenyl	77		45 - 107	11/12/19 18:50	11/13/19 11:46	1
2-Fluorophenol (Surr)	44		25 - 58	11/12/19 18:50	11/13/19 11:46	1
Nitrobenzene-d5 (Surr)	89		51 - 108	11/12/19 18:50	11/13/19 11:46	1
Phenol-d5 (Surr)	29		14 - 39	11/12/19 18:50	11/13/19 11:46	1
Terphenyl-d14 (Surr)	81		40 - 148	11/12/19 18:50	11/13/19 11:46	1

Method: 608.3 - Organochlorine Pesticides/PCBs in Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.020	U	0.020	0.012	ug/L		11/12/19 16:57	11/18/19 10:52	1
alpha-BHC	0.020	U	0.020	0.013	ug/L		11/12/19 16:57	11/18/19 10:52	1
beta-BHC	0.030	U	0.030	0.015	ug/L		11/12/19 16:57	11/18/19 10:52	1
delta-BHC	0.020	U	0.020	0.0090	ug/L		11/12/19 16:57	11/18/19 10:52	1
gamma-BHC (Lindane)	0.030	U	0.030	0.013	ug/L		11/12/19 16:57	11/18/19 10:52	1
Chlordane	0.50	U	0.50	0.093	ug/L		11/12/19 16:57	11/18/19 10:52	1
4,4'-DDD	0.040	U	0.040	0.018	ug/L		11/12/19 16:57	11/18/19 10:52	1
4,4'-DDE	0.030	U	0.030	0.018	ug/L		11/12/19 16:57	11/18/19 10:52	1
4,4'-DDT	0.030	U	0.030	0.025	ug/L		11/12/19 16:57	11/18/19 10:52	1

Eurofins TestAmerica, Edison

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196258-1

Client Sample ID: WSG-MW-6-10-0

Lab Sample ID: 460-196258-1

Date Collected: 11/06/19 13:30

Matrix: Water

Date Received: 11/08/19 20:00

Method: 608.3 - Organochlorine Pesticides/PCBs in Water (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dieldrin	0.020	U	0.020	0.016	ug/L		11/12/19 16:57	11/18/19 10:52	1
Endosulfan I	0.030	U	0.030	0.014	ug/L		11/12/19 16:57	11/18/19 10:52	1
Endosulfan II	0.030	U	0.030	0.017	ug/L		11/12/19 16:57	11/18/19 10:52	1
Endosulfan sulfate	0.030	U *	0.030	0.015	ug/L		11/12/19 16:57	11/18/19 10:52	1
Endrin	0.030	U *	0.030	0.021	ug/L		11/12/19 16:57	11/18/19 10:52	1
Endrin aldehyde	0.030	U	0.030	0.024	ug/L		11/12/19 16:57	11/18/19 10:52	1
Endrin ketone	0.030	U	0.030	0.013	ug/L		11/12/19 16:57	11/18/19 10:52	1
Heptachlor	0.030	U	0.030	0.014	ug/L		11/12/19 16:57	11/18/19 10:52	1
Heptachlor epoxide	0.030	U	0.030	0.014	ug/L		11/12/19 16:57	11/18/19 10:52	1
Methoxychlor	0.030	U	0.030	0.030	ug/L		11/12/19 16:57	11/18/19 10:52	1
Toxaphene	0.50	U	0.50	0.20	ug/L		11/12/19 16:57	11/18/19 10:52	1
Aroclor 1016	1.0	U	1.0	0.030	ug/L		11/12/19 16:57	11/18/19 10:52	1
Aroclor 1221	1.0	U	1.0	0.030	ug/L		11/12/19 16:57	11/18/19 10:52	1
Aroclor 1232	1.0	U	1.0	0.030	ug/L		11/12/19 16:57	11/18/19 10:52	1
Aroclor 1242	1.0	U	1.0	0.030	ug/L		11/12/19 16:57	11/18/19 10:52	1
Aroclor 1248	1.0	U	1.0	0.030	ug/L		11/12/19 16:57	11/18/19 10:52	1
Aroclor 1254	1.0	U	1.0	0.037	ug/L		11/12/19 16:57	11/18/19 10:52	1
Aroclor 1260	1.0	U	1.0	0.037	ug/L		11/12/19 16:57	11/18/19 10:52	1
Aroclor 1262	1.0	U	1.0	0.037	ug/L		11/12/19 16:57	11/18/19 10:52	1
Aroclor 1268	1.0	U	1.0	0.037	ug/L		11/12/19 16:57	11/18/19 10:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	72		10 - 150	11/12/19 16:57	11/18/19 10:52	1
Tetrachloro-m-xylene	76		10 - 150	11/12/19 16:57	11/18/19 10:52	1
DCB Decachlorobiphenyl	54		10 - 150	11/12/19 16:57	11/18/19 10:52	1
DCB Decachlorobiphenyl	70		10 - 150	11/12/19 16:57	11/18/19 10:52	1

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	1.2	U	1.2	0.13	ug/L		11/12/19 19:55	11/13/19 16:10	1
Silvex (2,4,5-TP)	1.2	U	1.2	0.11	ug/L		11/12/19 19:55	11/13/19 16:10	1
2,4,5-T	1.2	U	1.2	0.12	ug/L		11/12/19 19:55	11/13/19 16:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	89		54 - 150	11/12/19 19:55	11/13/19 16:10	1
2,4-Dichlorophenylacetic acid	94		54 - 150	11/12/19 19:55	11/13/19 16:10	1

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	61.1		1.95	0.56	ng/L		11/16/19 07:36	11/18/19 09:48	1
Perfluoroheptanoic acid (PFHpA)	50.0		1.95	0.24	ng/L		11/16/19 07:36	11/18/19 09:48	1
Perfluorooctanoic acid (PFOA)	26.1		1.95	0.83	ng/L		11/16/19 07:36	11/18/19 09:48	1
Perfluorodecanoic acid (PFDA)	92.3		1.95	0.30	ng/L		11/16/19 07:36	11/18/19 09:48	1
Perfluoroundecanoic acid (PFUnA)	333		1.95	1.07	ng/L		11/16/19 07:36	11/18/19 09:48	1
Perfluorododecanoic acid (PFDoA)	1.95	U	1.95	0.54	ng/L		11/16/19 07:36	11/18/19 09:48	1
Perfluorotridecanoic acid (PFTriA)	1.49	J	1.95	1.27	ng/L		11/16/19 07:36	11/18/19 09:48	1
Perfluorotetradecanoic acid (PFTeA)	1.95	U	1.95	0.28	ng/L		11/16/19 07:36	11/18/19 09:48	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196258-1

Client Sample ID: WSG-MW-6-10-0

Lab Sample ID: 460-196258-1

Date Collected: 11/06/19 13:30

Matrix: Water

Date Received: 11/08/19 20:00

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanesulfonic acid (PFBS)	2.50		1.95	0.19	ng/L		11/16/19 07:36	11/18/19 09:48	1
Perfluorohexanesulfonic acid (PFHxS)	58.9	B	1.95	0.17	ng/L		11/16/19 07:36	11/18/19 09:48	1
Perfluorooctanesulfonic acid (PFOS)	151		1.95	0.53	ng/L		11/16/19 07:36	11/18/19 09:48	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	19.5	U	19.5	1.85	ng/L		11/16/19 07:36	11/18/19 09:48	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	19.5	U	19.5	3.02	ng/L		11/16/19 07:36	11/18/19 09:48	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C2 PFHxA	107		25 - 150				11/16/19 07:36	11/18/19 09:48	1
13C4 PFHpA	112		25 - 150				11/16/19 07:36	11/18/19 09:48	1
13C4 PFOA	109		25 - 150				11/16/19 07:36	11/18/19 09:48	1
13C5 PFNA	71		25 - 150				11/16/19 07:36	11/18/19 09:48	1
13C2 PFDA	98		25 - 150				11/16/19 07:36	11/18/19 09:48	1
13C2 PFUnA	97		25 - 150				11/16/19 07:36	11/18/19 09:48	1
13C2 PFDoA	101		25 - 150				11/16/19 07:36	11/18/19 09:48	1
13C2 PFTeDA	90		25 - 150				11/16/19 07:36	11/18/19 09:48	1
18O2 PFHxS	117		25 - 150				11/16/19 07:36	11/18/19 09:48	1
13C4 PFOS	75		25 - 150				11/16/19 07:36	11/18/19 09:48	1
d3-NMeFOSAA	82		25 - 150				11/16/19 07:36	11/18/19 09:48	1
d5-NEtFOSAA	88		25 - 150				11/16/19 07:36	11/18/19 09:48	1

Method: 537 (modified) - Fluorinated Alkyl Substances - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorononanoic acid (PFNA)	2850		38.9	5.26	ng/L		11/16/19 07:36	12/06/19 13:32	20
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C5 PFNA	97		25 - 150				11/16/19 07:36	12/06/19 13:32	20

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	279		150	34.2	ug/L		11/16/19 00:00	11/19/19 05:12	1
Silver	10.0	U	10.0	1.1	ug/L		11/16/19 00:00	11/19/19 05:12	1
Aluminum	539		200	28.6	ug/L		11/16/19 00:00	11/19/19 05:12	1
Arsenic	15.0	U	15.0	2.7	ug/L		11/16/19 00:00	11/19/19 05:12	1
Boron	31.4	J	50.0	12.7	ug/L		11/16/19 00:00	11/19/19 05:12	1
Barium	32.9	J	200	7.7	ug/L		11/16/19 00:00	11/19/19 05:12	1
Beryllium	2.0	U	2.0	0.23	ug/L		11/16/19 00:00	11/19/19 05:12	1
Calcium	6780		5000	222	ug/L		11/16/19 00:00	11/19/19 05:12	1
Cadmium	4.0	U	4.0	0.22	ug/L		11/16/19 00:00	11/19/19 05:12	1
Cobalt	50.0	U	50.0	1.7	ug/L		11/16/19 00:00	11/19/19 05:12	1
Chromium	10.0	U	10.0	1.3	ug/L		11/16/19 00:00	11/19/19 05:12	1
Copper	25.0	U	25.0	5.1	ug/L		11/16/19 00:00	11/19/19 05:12	1
Potassium	1180	J	5000	323	ug/L		11/16/19 00:00	11/19/19 05:12	1
Magnesium	2070	J	5000	177	ug/L		11/16/19 00:00	11/19/19 05:12	1
Manganese	37.4		15.0	0.99	ug/L		11/16/19 00:00	11/19/19 05:12	1
Molybdenum	20.0	U	20.0	3.3	ug/L		11/16/19 00:00	11/19/19 05:12	1
Sodium	8280		5000	460	ug/L		11/16/19 00:00	11/19/19 05:12	1
Nickel	40.0	U	40.0	1.7	ug/L		11/16/19 00:00	11/19/19 05:12	1

Eurofins TestAmerica, Edison

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196258-1

Client Sample ID: WSG-MW-6-10-0

Lab Sample ID: 460-196258-1

Date Collected: 11/06/19 13:30

Matrix: Water

Date Received: 11/08/19 20:00

Method: 6010D - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	10.0	U	10.0	2.5	ug/L		11/16/19 00:00	11/19/19 05:12	1
Antimony	20.0	U	20.0	2.9	ug/L		11/16/19 00:00	11/19/19 05:12	1
Selenium	20.0	U	20.0	6.6	ug/L		11/16/19 00:00	11/19/19 05:12	1
Tin	50.0	U	50.0	2.4	ug/L		11/16/19 00:00	11/19/19 05:12	1
Strontium	30.6		20.0	0.70	ug/L		11/16/19 00:00	11/19/19 05:12	1
Titanium	12.6	J	20.0	2.0	ug/L		11/16/19 00:00	11/19/19 05:12	1
Thallium	20.0	U	20.0	5.4	ug/L		11/16/19 00:00	11/19/19 05:12	1
Vanadium	50.0	U	50.0	2.5	ug/L		11/16/19 00:00	11/19/19 05:12	1
Zinc	6.8	J	30.0	3.6	ug/L		11/16/19 00:00	11/19/19 05:12	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.14	J	0.20	0.12	ug/L		11/20/19 13:46	11/20/19 14:44	1

Client Sample ID: WSG-MW-7-10-0

Lab Sample ID: 460-196258-2

Date Collected: 11/06/19 12:15

Matrix: Water

Date Received: 11/08/19 20:00

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	0.76	J	1.96	0.57	ng/L		11/16/19 07:36	11/18/19 10:17	1
Perfluoroheptanoic acid (PFHpA)	0.85	J	1.96	0.24	ng/L		11/16/19 07:36	11/18/19 10:17	1
Perfluorooctanoic acid (PFOA)	3.90		1.96	0.83	ng/L		11/16/19 07:36	11/18/19 10:17	1
Perfluorononanoic acid (PFNA)	4.55		1.96	0.26	ng/L		11/16/19 07:36	11/18/19 10:17	1
Perfluorodecanoic acid (PFDA)	0.40	J Z	1.96	0.30	ng/L		11/16/19 07:36	11/18/19 10:17	1
Perfluoroundecanoic acid (PFUnA)	1.96	U	1.96	1.08	ng/L		11/16/19 07:36	11/18/19 10:17	1
Perfluorododecanoic acid (PFDoA)	1.96	U	1.96	0.54	ng/L		11/16/19 07:36	11/18/19 10:17	1
Perfluorotridecanoic acid (PFTriA)	1.96	U	1.96	1.27	ng/L		11/16/19 07:36	11/18/19 10:17	1
Perfluorotetradecanoic acid (PFTeA)	1.96	U	1.96	0.28	ng/L		11/16/19 07:36	11/18/19 10:17	1
Perfluorobutanesulfonic acid (PFBS)	0.23	J	1.96	0.20	ng/L		11/16/19 07:36	11/18/19 10:17	1
Perfluorohexanesulfonic acid (PFHxS)	0.76	J B	1.96	0.17	ng/L		11/16/19 07:36	11/18/19 10:17	1
Perfluorooctanesulfonic acid (PFOS)	15.0		1.96	0.53	ng/L		11/16/19 07:36	11/18/19 10:17	1
N-ethylperfluorooctanesulfonamidoacetic acid (NETFOSAA)	19.6	U	19.6	1.86	ng/L		11/16/19 07:36	11/18/19 10:17	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	19.6	U	19.6	3.04	ng/L		11/16/19 07:36	11/18/19 10:17	1
<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C2 PFHxA	107		25 - 150				11/16/19 07:36	11/18/19 10:17	1
13C4 PFHpA	113		25 - 150				11/16/19 07:36	11/18/19 10:17	1
13C4 PFOA	108		25 - 150				11/16/19 07:36	11/18/19 10:17	1
13C5 PFNA	100		25 - 150				11/16/19 07:36	11/18/19 10:17	1
13C2 PFDA	99		25 - 150				11/16/19 07:36	11/18/19 10:17	1
13C2 PFUnA	98		25 - 150				11/16/19 07:36	11/18/19 10:17	1
13C2 PFDoA	104		25 - 150				11/16/19 07:36	11/18/19 10:17	1
13C2 PFTeA	92		25 - 150				11/16/19 07:36	11/18/19 10:17	1
18O2 PFHxS	119		25 - 150				11/16/19 07:36	11/18/19 10:17	1
13C4 PFOS	99		25 - 150				11/16/19 07:36	11/18/19 10:17	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196258-1

Client Sample ID: WSG-MW-7-10-0

Lab Sample ID: 460-196258-2

Date Collected: 11/06/19 12:15

Matrix: Water

Date Received: 11/08/19 20:00

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d3-NMeFOSAA	90		25 - 150	11/16/19 07:36	11/18/19 10:17	1
d5-NEtFOSAA	92		25 - 150	11/16/19 07:36	11/18/19 10:17	1

Client Sample ID: WSG-GW4-25-0

Lab Sample ID: 460-196258-3

Date Collected: 11/06/19 14:30

Matrix: Water

Date Received: 11/08/19 20:00

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	1.93	U	1.93	0.56	ng/L		11/16/19 07:36	11/18/19 10:27	1
Perfluoroheptanoic acid (PFHpA)	1.93	U	1.93	0.24	ng/L		11/16/19 07:36	11/18/19 10:27	1
Perfluorooctanoic acid (PFOA)	1.93	U	1.93	0.82	ng/L		11/16/19 07:36	11/18/19 10:27	1
Perfluorononanoic acid (PFNA)	0.97	J	1.93	0.26	ng/L		11/16/19 07:36	11/18/19 10:27	1
Perfluorodecanoic acid (PFDA)	1.93	U	1.93	0.30	ng/L		11/16/19 07:36	11/18/19 10:27	1
Perfluoroundecanoic acid (PFUnA)	1.93	U	1.93	1.06	ng/L		11/16/19 07:36	11/18/19 10:27	1
Perfluorododecanoic acid (PFDoA)	1.93	U	1.93	0.53	ng/L		11/16/19 07:36	11/18/19 10:27	1
Perfluorotridecanoic acid (PFTriA)	1.93	U	1.93	1.25	ng/L		11/16/19 07:36	11/18/19 10:27	1
Perfluorotetradecanoic acid (PFTeA)	1.93	U	1.93	0.28	ng/L		11/16/19 07:36	11/18/19 10:27	1
Perfluorobutanesulfonic acid (PFBS)	1.25	J	1.93	0.19	ng/L		11/16/19 07:36	11/18/19 10:27	1
Perfluorohexanesulfonic acid (PFHxS)	19.4	B	1.93	0.16	ng/L		11/16/19 07:36	11/18/19 10:27	1
Perfluorooctanesulfonic acid (PFOS)	11.6		1.93	0.52	ng/L		11/16/19 07:36	11/18/19 10:27	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	19.3	U	19.3	1.83	ng/L		11/16/19 07:36	11/18/19 10:27	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	19.3	U	19.3	2.99	ng/L		11/16/19 07:36	11/18/19 10:27	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFHxA	105		25 - 150	11/16/19 07:36	11/18/19 10:27	1
13C4 PFHpA	112		25 - 150	11/16/19 07:36	11/18/19 10:27	1
13C4 PFOA	106		25 - 150	11/16/19 07:36	11/18/19 10:27	1
13C5 PFNA	100		25 - 150	11/16/19 07:36	11/18/19 10:27	1
13C2 PFDA	99		25 - 150	11/16/19 07:36	11/18/19 10:27	1
13C2 PFUnA	102		25 - 150	11/16/19 07:36	11/18/19 10:27	1
13C2 PFDoA	104		25 - 150	11/16/19 07:36	11/18/19 10:27	1
13C2 PFTeA	99		25 - 150	11/16/19 07:36	11/18/19 10:27	1
18O2 PFHxS	119		25 - 150	11/16/19 07:36	11/18/19 10:27	1
13C4 PFOS	99		25 - 150	11/16/19 07:36	11/18/19 10:27	1
d3-NMeFOSAA	87		25 - 150	11/16/19 07:36	11/18/19 10:27	1
d5-NEtFOSAA	96		25 - 150	11/16/19 07:36	11/18/19 10:27	1

Client Sample ID: WSG-GW5-8-0

Lab Sample ID: 460-196258-4

Date Collected: 11/06/19 12:10

Matrix: Water

Date Received: 11/08/19 20:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			11/16/19 04:26	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.37	ug/L			11/16/19 04:26	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196258-1

Client Sample ID: WSG-GW5-8-0

Lab Sample ID: 460-196258-4

Date Collected: 11/06/19 12:10

Matrix: Water

Date Received: 11/08/19 20:00

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			11/16/19 04:26	1
1,1,2-Trichloroethane	1.0	U	1.0	0.43	ug/L			11/16/19 04:26	1
1,1-Dichloroethane	1.0	U	1.0	0.26	ug/L			11/16/19 04:26	1
1,1-Dichloroethene	1.0	U	1.0	0.26	ug/L			11/16/19 04:26	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.37	ug/L			11/16/19 04:26	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.38	ug/L			11/16/19 04:26	1
1,2-Dichlorobenzene	1.0	U	1.0	0.43	ug/L			11/16/19 04:26	1
1,2-Dichloroethane	1.0	U	1.0	0.43	ug/L			11/16/19 04:26	1
1,2-Dichloropropane	1.0	U	1.0	0.35	ug/L			11/16/19 04:26	1
1,3-Dichlorobenzene	1.0	U	1.0	0.34	ug/L			11/16/19 04:26	1
1,4-Dichlorobenzene	1.0	U	1.0	0.33	ug/L			11/16/19 04:26	1
2-Butanone (MEK)	5.0	U	5.0	1.9	ug/L			11/16/19 04:26	1
2-Hexanone	5.0	U	5.0	1.1	ug/L			11/16/19 04:26	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	1.3	ug/L			11/16/19 04:26	1
Acetone	5.0	U	5.0	4.4	ug/L			11/16/19 04:26	1
Benzene	1.0	U	1.0	0.20	ug/L			11/16/19 04:26	1
Bromoform	1.0	U	1.0	0.54	ug/L			11/16/19 04:26	1
Bromomethane	1.0	U	1.0	0.55	ug/L			11/16/19 04:26	1
Carbon disulfide	1.0	U	1.0	0.82	ug/L			11/16/19 04:26	1
Carbon tetrachloride	1.0	U	1.0	0.21	ug/L			11/16/19 04:26	1
Chlorobenzene	1.0	U	1.0	0.38	ug/L			11/16/19 04:26	1
Chlorodibromomethane	1.0	U	1.0	0.28	ug/L			11/16/19 04:26	1
Chloroethane	1.0	U	1.0	0.32	ug/L			11/16/19 04:26	1
Chloroform	1.0	U	1.0	0.33	ug/L			11/16/19 04:26	1
Chloromethane	1.0	U	1.0	0.40	ug/L			11/16/19 04:26	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.22	ug/L			11/16/19 04:26	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.22	ug/L			11/16/19 04:26	1
Cyclohexane	1.0	U	1.0	0.32	ug/L			11/16/19 04:26	1
Dichlorobromomethane	1.0	U	1.0	0.34	ug/L			11/16/19 04:26	1
Dichlorodifluoromethane	1.0	U	1.0	0.31	ug/L			11/16/19 04:26	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			11/16/19 04:26	1
Ethylene Dibromide	1.0	U	1.0	0.50	ug/L			11/16/19 04:26	1
Isopropylbenzene	1.0	U	1.0	0.34	ug/L			11/16/19 04:26	1
Methyl acetate	5.0	U	5.0	0.79	ug/L			11/16/19 04:26	1
Methyl tert-butyl ether	1.0	U	1.0	0.47	ug/L			11/16/19 04:26	1
Methylcyclohexane	1.0	U	1.0	0.26	ug/L			11/16/19 04:26	1
Methylene Chloride	1.0	U	1.0	0.32	ug/L			11/16/19 04:26	1
Styrene	1.0	U	1.0	0.42	ug/L			11/16/19 04:26	1
Tetrachloroethene	1.0	U	1.0	0.25	ug/L			11/16/19 04:26	1
Toluene	1.0	U	1.0	0.38	ug/L			11/16/19 04:26	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			11/16/19 04:26	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.49	ug/L			11/16/19 04:26	1
Trichloroethene	1.0	U	1.0	0.31	ug/L			11/16/19 04:26	1
Trichlorofluoromethane	1.0	U	1.0	0.32	ug/L			11/16/19 04:26	1
Vinyl chloride	1.0	U	1.0	0.17	ug/L			11/16/19 04:26	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			11/16/19 04:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		74 - 132		11/16/19 04:26	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196258-1

Client Sample ID: WSG-GW5-8-0

Lab Sample ID: 460-196258-4

Date Collected: 11/06/19 12:10

Matrix: Water

Date Received: 11/08/19 20:00

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	93		77 - 124		11/16/19 04:26	1
Dibromofluoromethane (Surr)	95		72 - 131		11/16/19 04:26	1
Toluene-d8 (Surr)	103		80 - 120		11/16/19 04:26	1

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.40	U	0.40	0.17	ug/L		11/12/19 18:50	11/13/19 13:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	106		38 - 125	11/12/19 18:50	11/13/19 13:10	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	10	U	10	1.2	ug/L		11/12/19 18:50	11/13/19 15:34	1
2,2'-oxybis[1-chloropropane]	10	U	10	0.63	ug/L		11/12/19 18:50	11/13/19 15:34	1
2,4,5-Trichlorophenol	10	U	10	0.88	ug/L		11/12/19 18:50	11/13/19 15:34	1
2,4,6-Trichlorophenol	10	U	10	0.86	ug/L		11/12/19 18:50	11/13/19 15:34	1
2,4-Dichlorophenol	10	U	10	1.1	ug/L		11/12/19 18:50	11/13/19 15:34	1
2,4-Dimethylphenol	10	U	10	0.62	ug/L		11/12/19 18:50	11/13/19 15:34	1
2,4-Dinitrophenol	20	U *	20	14	ug/L		11/12/19 18:50	11/13/19 15:34	1
2,4-Dinitrotoluene	2.0	U	2.0	1.0	ug/L		11/12/19 18:50	11/13/19 15:34	1
2,6-Dinitrotoluene	2.0	U	2.0	0.83	ug/L		11/12/19 18:50	11/13/19 15:34	1
2-Chloronaphthalene	10	U	10	1.2	ug/L		11/12/19 18:50	11/13/19 15:34	1
2-Chlorophenol	10	U	10	0.38	ug/L		11/12/19 18:50	11/13/19 15:34	1
2-Methylnaphthalene	10	U	10	1.1	ug/L		11/12/19 18:50	11/13/19 15:34	1
2-Methylphenol	10	U	10	0.67	ug/L		11/12/19 18:50	11/13/19 15:34	1
2-Nitroaniline	10	U	10	0.47	ug/L		11/12/19 18:50	11/13/19 15:34	1
2-Nitrophenol	10	U	10	0.75	ug/L		11/12/19 18:50	11/13/19 15:34	1
3,3'-Dichlorobenzidine	10	U	10	1.4	ug/L		11/12/19 18:50	11/13/19 15:34	1
3-Nitroaniline	10	U	10	1.9	ug/L		11/12/19 18:50	11/13/19 15:34	1
4,6-Dinitro-2-methylphenol	20	U	20	13	ug/L		11/12/19 18:50	11/13/19 15:34	1
4-Bromophenyl phenyl ether	10	U	10	0.75	ug/L		11/12/19 18:50	11/13/19 15:34	1
4-Chloro-3-methylphenol	10	U	10	0.58	ug/L		11/12/19 18:50	11/13/19 15:34	1
4-Chloroaniline	10	U	10	1.9	ug/L		11/12/19 18:50	11/13/19 15:34	1
4-Chlorophenyl phenyl ether	10	U	10	1.3	ug/L		11/12/19 18:50	11/13/19 15:34	1
4-Methylphenol	10	U	10	0.65	ug/L		11/12/19 18:50	11/13/19 15:34	1
4-Nitroaniline	10	U	10	1.2	ug/L		11/12/19 18:50	11/13/19 15:34	1
4-Nitrophenol	20	U	20	4.0	ug/L		11/12/19 18:50	11/13/19 15:34	1
Acenaphthene	10	U	10	1.1	ug/L		11/12/19 18:50	11/13/19 15:34	1
Acenaphthylene	10	U	10	0.82	ug/L		11/12/19 18:50	11/13/19 15:34	1
Acetophenone	10	U	10	2.3	ug/L		11/12/19 18:50	11/13/19 15:34	1
Anthracene	10	U	10	0.63	ug/L		11/12/19 18:50	11/13/19 15:34	1
Atrazine	2.0	U	2.0	1.3	ug/L		11/12/19 18:50	11/13/19 15:34	1
Benzaldehyde	10	U	10	2.1	ug/L		11/12/19 18:50	11/13/19 15:34	1
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		11/12/19 18:50	11/13/19 15:34	1
Benzo[a]pyrene	1.0	U	1.0	0.41	ug/L		11/12/19 18:50	11/13/19 15:34	1
Benzo[b]fluoranthene	2.0	U *	2.0	0.68	ug/L		11/12/19 18:50	11/13/19 15:34	1
Benzo[g,h,i]perylene	10	U	10	1.4	ug/L		11/12/19 18:50	11/13/19 15:34	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		11/12/19 18:50	11/13/19 15:34	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196258-1

Client Sample ID: WSG-GW5-8-0

Lab Sample ID: 460-196258-4

Date Collected: 11/06/19 12:10

Matrix: Water

Date Received: 11/08/19 20:00

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-chloroethoxy)methane	10	U	10	0.59	ug/L		11/12/19 18:50	11/13/19 15:34	1
Bis(2-chloroethyl)ether	1.0	U	1.0	0.63	ug/L		11/12/19 18:50	11/13/19 15:34	1
Bis(2-ethylhexyl) phthalate	2.0	U	2.0	1.7	ug/L		11/12/19 18:50	11/13/19 15:34	1
Butyl benzyl phthalate	10	U	10	0.85	ug/L		11/12/19 18:50	11/13/19 15:34	1
Caprolactam	10	U	10	0.68	ug/L		11/12/19 18:50	11/13/19 15:34	1
Carbazole	10	U	10	0.68	ug/L		11/12/19 18:50	11/13/19 15:34	1
Chrysene	2.0	U	2.0	0.91	ug/L		11/12/19 18:50	11/13/19 15:34	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		11/12/19 18:50	11/13/19 15:34	1
Dibenzofuran	10	U	10	1.1	ug/L		11/12/19 18:50	11/13/19 15:34	1
Diethyl phthalate	10	U	10	0.98	ug/L		11/12/19 18:50	11/13/19 15:34	1
Dimethyl phthalate	10	U	10	0.77	ug/L		11/12/19 18:50	11/13/19 15:34	1
Di-n-butyl phthalate	10	U	10	0.84	ug/L		11/12/19 18:50	11/13/19 15:34	1
Di-n-octyl phthalate	10	U*	10	4.8	ug/L		11/12/19 18:50	11/13/19 15:34	1
Fluoranthene	10	U	10	0.84	ug/L		11/12/19 18:50	11/13/19 15:34	1
Fluorene	10	U	10	0.91	ug/L		11/12/19 18:50	11/13/19 15:34	1
Hexachlorobenzene	1.0	U	1.0	0.40	ug/L		11/12/19 18:50	11/13/19 15:34	1
Hexachlorobutadiene	1.0	U	1.0	0.78	ug/L		11/12/19 18:50	11/13/19 15:34	1
Hexachlorocyclopentadiene	10	U	10	3.6	ug/L		11/12/19 18:50	11/13/19 15:34	1
Hexachloroethane	2.0	U	2.0	0.80	ug/L		11/12/19 18:50	11/13/19 15:34	1
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	0.94	ug/L		11/12/19 18:50	11/13/19 15:34	1
Isophorone	10	U	10	0.80	ug/L		11/12/19 18:50	11/13/19 15:34	1
Naphthalene	10	U	10	1.1	ug/L		11/12/19 18:50	11/13/19 15:34	1
Nitrobenzene	1.0	U	1.0	0.57	ug/L		11/12/19 18:50	11/13/19 15:34	1
N-Nitrosodi-n-propylamine	1.0	U	1.0	0.43	ug/L		11/12/19 18:50	11/13/19 15:34	1
N-Nitrosodiphenylamine	10	U	10	0.89	ug/L		11/12/19 18:50	11/13/19 15:34	1
Pentachlorophenol	20	U	20	1.4	ug/L		11/12/19 18:50	11/13/19 15:34	1
Phenanthrene	10	U	10	0.58	ug/L		11/12/19 18:50	11/13/19 15:34	1
Phenol	10	U	10	0.29	ug/L		11/12/19 18:50	11/13/19 15:34	1
Pyrene	10	U	10	1.6	ug/L		11/12/19 18:50	11/13/19 15:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	103		26 - 139	11/12/19 18:50	11/13/19 15:34	1
2-Fluorobiphenyl	80		45 - 107	11/12/19 18:50	11/13/19 15:34	1
2-Fluorophenol (Surr)	47		25 - 58	11/12/19 18:50	11/13/19 15:34	1
Nitrobenzene-d5 (Surr)	90		51 - 108	11/12/19 18:50	11/13/19 15:34	1
Phenol-d5 (Surr)	31		14 - 39	11/12/19 18:50	11/13/19 15:34	1
Terphenyl-d14 (Surr)	76		40 - 148	11/12/19 18:50	11/13/19 15:34	1

Method: 608.3 - Organochlorine Pesticides/PCBs in Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.020	U	0.020	0.012	ug/L		11/12/19 16:57	11/18/19 12:13	1
alpha-BHC	0.020	U	0.020	0.013	ug/L		11/12/19 16:57	11/18/19 12:13	1
beta-BHC	0.030	U	0.030	0.015	ug/L		11/12/19 16:57	11/18/19 12:13	1
delta-BHC	0.020	U	0.020	0.0090	ug/L		11/12/19 16:57	11/18/19 12:13	1
gamma-BHC (Lindane)	0.030	U	0.030	0.013	ug/L		11/12/19 16:57	11/18/19 12:13	1
Chlordane	0.50	U	0.50	0.093	ug/L		11/12/19 16:57	11/18/19 12:13	1
4,4'-DDD	0.040	U	0.040	0.018	ug/L		11/12/19 16:57	11/18/19 12:13	1
4,4'-DDE	0.030	U	0.030	0.018	ug/L		11/12/19 16:57	11/18/19 12:13	1
4,4'-DDT	0.030	U	0.030	0.025	ug/L		11/12/19 16:57	11/18/19 12:13	1

Eurofins TestAmerica, Edison

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196258-1

Client Sample ID: WSG-GW5-8-0

Lab Sample ID: 460-196258-4

Date Collected: 11/06/19 12:10

Matrix: Water

Date Received: 11/08/19 20:00

Method: 608.3 - Organochlorine Pesticides/PCBs in Water (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dieldrin	0.020	U	0.020	0.016	ug/L		11/12/19 16:57	11/18/19 12:13	1
Endosulfan I	0.030	U	0.030	0.014	ug/L		11/12/19 16:57	11/18/19 12:13	1
Endosulfan II	0.030	U	0.030	0.017	ug/L		11/12/19 16:57	11/18/19 12:13	1
Endosulfan sulfate	0.030	U *	0.030	0.015	ug/L		11/12/19 16:57	11/18/19 12:13	1
Endrin	0.030	U *	0.030	0.021	ug/L		11/12/19 16:57	11/18/19 12:13	1
Endrin aldehyde	0.030	U	0.030	0.024	ug/L		11/12/19 16:57	11/18/19 12:13	1
Endrin ketone	0.030	U	0.030	0.013	ug/L		11/12/19 16:57	11/18/19 12:13	1
Heptachlor	0.030	U	0.030	0.014	ug/L		11/12/19 16:57	11/18/19 12:13	1
Heptachlor epoxide	0.030	U	0.030	0.014	ug/L		11/12/19 16:57	11/18/19 12:13	1
Methoxychlor	0.030	U	0.030	0.030	ug/L		11/12/19 16:57	11/18/19 12:13	1
Toxaphene	0.50	U	0.50	0.20	ug/L		11/12/19 16:57	11/18/19 12:13	1
Aroclor 1016	1.0	U	1.0	0.030	ug/L		11/12/19 16:57	11/18/19 12:13	1
Aroclor 1221	1.0	U	1.0	0.030	ug/L		11/12/19 16:57	11/18/19 12:13	1
Aroclor 1232	1.0	U	1.0	0.030	ug/L		11/12/19 16:57	11/18/19 12:13	1
Aroclor 1242	1.0	U	1.0	0.030	ug/L		11/12/19 16:57	11/18/19 12:13	1
Aroclor 1248	1.0	U	1.0	0.030	ug/L		11/12/19 16:57	11/18/19 12:13	1
Aroclor 1254	1.0	U	1.0	0.037	ug/L		11/12/19 16:57	11/18/19 12:13	1
Aroclor 1260	1.0	U	1.0	0.037	ug/L		11/12/19 16:57	11/18/19 12:13	1
Aroclor 1262	1.0	U	1.0	0.037	ug/L		11/12/19 16:57	11/18/19 12:13	1
Aroclor 1268	1.0	U	1.0	0.037	ug/L		11/12/19 16:57	11/18/19 12:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	102		10 - 150	11/12/19 16:57	11/18/19 12:13	1
Tetrachloro-m-xylene	67		10 - 150	11/12/19 16:57	11/18/19 12:13	1
DCB Decachlorobiphenyl	83		10 - 150	11/12/19 16:57	11/18/19 12:13	1
DCB Decachlorobiphenyl	65		10 - 150	11/12/19 16:57	11/18/19 12:13	1

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	1.2	U	1.2	0.13	ug/L		11/12/19 19:55	11/13/19 16:54	1
Silvex (2,4,5-TP)	1.2	U	1.2	0.11	ug/L		11/12/19 19:55	11/13/19 16:54	1
2,4,5-T	1.2	U	1.2	0.12	ug/L		11/12/19 19:55	11/13/19 16:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	82		54 - 150	11/12/19 19:55	11/13/19 16:54	1
2,4-Dichlorophenylacetic acid	88		54 - 150	11/12/19 19:55	11/13/19 16:54	1

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	28.8		1.92	0.56	ng/L		11/16/19 07:36	11/18/19 10:37	1
Perfluoroheptanoic acid (PFHpA)	22.3		1.92	0.24	ng/L		11/16/19 07:36	11/18/19 10:37	1
Perfluorooctanoic acid (PFOA)	40.6		1.92	0.82	ng/L		11/16/19 07:36	11/18/19 10:37	1
Perfluorononanoic acid (PFNA)	3.20		1.92	0.26	ng/L		11/16/19 07:36	11/18/19 10:37	1
Perfluorodecanoic acid (PFDA)	0.33	J	1.92	0.30	ng/L		11/16/19 07:36	11/18/19 10:37	1
Perfluoroundecanoic acid (PFUnA)	1.92	U	1.92	1.06	ng/L		11/16/19 07:36	11/18/19 10:37	1
Perfluorododecanoic acid (PFDoA)	1.92	U	1.92	0.53	ng/L		11/16/19 07:36	11/18/19 10:37	1
Perfluorotridecanoic acid (PFTriA)	1.92	U	1.92	1.25	ng/L		11/16/19 07:36	11/18/19 10:37	1
Perfluorotetradecanoic acid (PFTeA)	1.92	U	1.92	0.28	ng/L		11/16/19 07:36	11/18/19 10:37	1
Perfluorobutanesulfonic acid (PFBS)	4.26		1.92	0.19	ng/L		11/16/19 07:36	11/18/19 10:37	1

Eurofins TestAmerica, Edison

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196258-1

Client Sample ID: WSG-GW5-8-0

Lab Sample ID: 460-196258-4

Date Collected: 11/06/19 12:10

Matrix: Water

Date Received: 11/08/19 20:00

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanesulfonic acid (PFHxS)	20.2	B	1.92	0.16	ng/L		11/16/19 07:36	11/18/19 10:37	1
Perfluorooctanesulfonic acid (PFOS)	29.2		1.92	0.52	ng/L		11/16/19 07:36	11/18/19 10:37	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	19.2	U	19.2	1.83	ng/L		11/16/19 07:36	11/18/19 10:37	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	19.2	U	19.2	2.98	ng/L		11/16/19 07:36	11/18/19 10:37	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C2 PFHxA	93		25 - 150				11/16/19 07:36	11/18/19 10:37	1
13C4 PFHpA	101		25 - 150				11/16/19 07:36	11/18/19 10:37	1
13C4 PFOA	105		25 - 150				11/16/19 07:36	11/18/19 10:37	1
13C5 PFNA	105		25 - 150				11/16/19 07:36	11/18/19 10:37	1
13C2 PFDA	103		25 - 150				11/16/19 07:36	11/18/19 10:37	1
13C2 PFUnA	112		25 - 150				11/16/19 07:36	11/18/19 10:37	1
13C2 PFDoA	112		25 - 150				11/16/19 07:36	11/18/19 10:37	1
13C2 PFTeDA	96		25 - 150				11/16/19 07:36	11/18/19 10:37	1
18O2 PFHxS	119		25 - 150				11/16/19 07:36	11/18/19 10:37	1
13C4 PFOS	101		25 - 150				11/16/19 07:36	11/18/19 10:37	1
d3-NMeFOSAA	100		25 - 150				11/16/19 07:36	11/18/19 10:37	1
d5-NEtFOSAA	114		25 - 150				11/16/19 07:36	11/18/19 10:37	1

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	25700		150	34.2	ug/L		11/19/19 07:16	11/20/19 11:10	1
Silver	10.0	U	10.0	1.1	ug/L		11/19/19 07:16	11/20/19 11:10	1
Aluminum	993		200	28.6	ug/L		11/19/19 07:16	11/20/19 11:10	1
Arsenic	5.2	J	15.0	2.7	ug/L		11/19/19 07:16	11/20/19 11:10	1
Boron	93.1		50.0	12.7	ug/L		11/19/19 07:16	11/20/19 11:10	1
Barium	102	J	200	7.7	ug/L		11/19/19 07:16	11/20/19 11:10	1
Beryllium	2.0	U	2.0	0.23	ug/L		11/19/19 07:16	11/20/19 11:10	1
Calcium	60200		5000	222	ug/L		11/19/19 07:16	11/20/19 11:10	1
Cadmium	4.0	U	4.0	0.22	ug/L		11/19/19 07:16	11/20/19 11:10	1
Cobalt	50.0	U	50.0	1.7	ug/L		11/19/19 07:16	11/20/19 11:10	1
Chromium	11.7		10.0	1.3	ug/L		11/19/19 07:16	11/20/19 11:10	1
Copper	8.6	J	25.0	5.1	ug/L		11/19/19 07:16	11/20/19 11:10	1
Potassium	13100		5000	323	ug/L		11/19/19 07:16	11/20/19 11:10	1
Magnesium	14500		5000	177	ug/L		11/19/19 07:16	11/20/19 11:10	1
Manganese	3520		15.0	0.99	ug/L		11/19/19 07:16	11/20/19 11:10	1
Molybdenum	4.0	J	20.0	3.3	ug/L		11/19/19 07:16	11/20/19 11:10	1
Sodium	18700		5000	460	ug/L		11/19/19 07:16	11/20/19 11:10	1
Nickel	4.7	J	40.0	1.7	ug/L		11/19/19 07:16	11/20/19 11:10	1
Lead	10.0	U	10.0	2.5	ug/L		11/19/19 07:16	11/20/19 11:10	1
Antimony	20.0	U	20.0	2.9	ug/L		11/19/19 07:16	11/20/19 11:10	1
Selenium	20.0	U	20.0	6.6	ug/L		11/19/19 07:16	11/20/19 11:10	1
Tin	50.0	U	50.0	2.4	ug/L		11/19/19 07:16	11/20/19 11:10	1
Strontium	284		20.0	0.70	ug/L		11/19/19 07:16	11/20/19 11:10	1
Titanium	39.2		20.0	2.0	ug/L		11/19/19 07:16	11/20/19 11:10	1
Thallium	5.5	J	20.0	5.4	ug/L		11/19/19 07:16	11/20/19 11:10	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196258-1

Client Sample ID: WSG-GW5-8-0

Lab Sample ID: 460-196258-4

Date Collected: 11/06/19 12:10

Matrix: Water

Date Received: 11/08/19 20:00

Method: 6010D - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vanadium	50.0	U	50.0	2.5	ug/L		11/19/19 07:16	11/20/19 11:10	1
Zinc	15.4	J	30.0	3.6	ug/L		11/19/19 07:16	11/20/19 11:10	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.12	ug/L		11/20/19 11:53	11/20/19 13:22	1

Client Sample ID: WSG-GW4-15-0

Lab Sample ID: 460-196258-5

Date Collected: 11/06/19 15:15

Matrix: Water

Date Received: 11/08/19 20:00

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	2.69		1.92	0.56	ng/L		11/16/19 07:36	11/18/19 10:46	1
Perfluoroheptanoic acid (PFHpA)	1.50	J	1.92	0.24	ng/L		11/16/19 07:36	11/18/19 10:46	1
Perfluorooctanoic acid (PFOA)	4.78		1.92	0.82	ng/L		11/16/19 07:36	11/18/19 10:46	1
Perfluorononanoic acid (PFNA)	1.03	J	1.92	0.26	ng/L		11/16/19 07:36	11/18/19 10:46	1
Perfluorodecanoic acid (PFDA)	1.92	U	1.92	0.30	ng/L		11/16/19 07:36	11/18/19 10:46	1
Perfluoroundecanoic acid (PFUnA)	1.92	U	1.92	1.06	ng/L		11/16/19 07:36	11/18/19 10:46	1
Perfluorododecanoic acid (PFDoA)	1.92	U	1.92	0.53	ng/L		11/16/19 07:36	11/18/19 10:46	1
Perfluorotridecanoic acid (PFTriA)	1.92	U	1.92	1.25	ng/L		11/16/19 07:36	11/18/19 10:46	1
Perfluorotetradecanoic acid (PFTeA)	1.92	U	1.92	0.28	ng/L		11/16/19 07:36	11/18/19 10:46	1
Perfluorobutanesulfonic acid (PFBS)	1.36	J	1.92	0.19	ng/L		11/16/19 07:36	11/18/19 10:46	1
Perfluorohexanesulfonic acid (PFHxS)	27.0	B	1.92	0.16	ng/L		11/16/19 07:36	11/18/19 10:46	1
Perfluorooctanesulfonic acid (PFOS)	36.7		1.92	0.52	ng/L		11/16/19 07:36	11/18/19 10:46	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	19.2	U	19.2	1.82	ng/L		11/16/19 07:36	11/18/19 10:46	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	19.2	U	19.2	2.98	ng/L		11/16/19 07:36	11/18/19 10:46	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFHxA	102		25 - 150	11/16/19 07:36	11/18/19 10:46	1
13C4 PFHpA	113		25 - 150	11/16/19 07:36	11/18/19 10:46	1
13C4 PFOA	108		25 - 150	11/16/19 07:36	11/18/19 10:46	1
13C5 PFNA	104		25 - 150	11/16/19 07:36	11/18/19 10:46	1
13C2 PFDA	103		25 - 150	11/16/19 07:36	11/18/19 10:46	1
13C2 PFUnA	104		25 - 150	11/16/19 07:36	11/18/19 10:46	1
13C2 PFDoA	103		25 - 150	11/16/19 07:36	11/18/19 10:46	1
13C2 PFTeA	92		25 - 150	11/16/19 07:36	11/18/19 10:46	1
18O2 PFHxS	116		25 - 150	11/16/19 07:36	11/18/19 10:46	1
13C4 PFOS	99		25 - 150	11/16/19 07:36	11/18/19 10:46	1
d3-NMeFOSAA	88		25 - 150	11/16/19 07:36	11/18/19 10:46	1
d5-NEtFOSAA	97		25 - 150	11/16/19 07:36	11/18/19 10:46	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196258-1

Client Sample ID: WSG-MW1-8-0

Lab Sample ID: 460-196258-6

Date Collected: 11/07/19 08:40

Matrix: Water

Date Received: 11/08/19 20:00

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	4.46		1.91	0.55	ng/L		11/16/19 07:36	11/18/19 10:56	1
Perfluoroheptanoic acid (PFHpA)	3.46		1.91	0.24	ng/L		11/16/19 07:36	11/18/19 10:56	1
Perfluorooctanoic acid (PFOA)	4.87		1.91	0.81	ng/L		11/16/19 07:36	11/18/19 10:56	1
Perfluorononanoic acid (PFNA)	1.33	J	1.91	0.26	ng/L		11/16/19 07:36	11/18/19 10:56	1
Perfluorodecanoic acid (PFDA)	0.70	J	1.91	0.30	ng/L		11/16/19 07:36	11/18/19 10:56	1
Perfluoroundecanoic acid (PFUnA)	1.91	U	1.91	1.05	ng/L		11/16/19 07:36	11/18/19 10:56	1
Perfluorododecanoic acid (PFDoA)	1.91	U	1.91	0.52	ng/L		11/16/19 07:36	11/18/19 10:56	1
Perfluorotridecanoic acid (PFTriA)	1.91	U	1.91	1.24	ng/L		11/16/19 07:36	11/18/19 10:56	1
Perfluorotetradecanoic acid (PFTeA)	1.91	U	1.91	0.28	ng/L		11/16/19 07:36	11/18/19 10:56	1
Perfluorobutanesulfonic acid (PFBS)	0.91	J	1.91	0.19	ng/L		11/16/19 07:36	11/18/19 10:56	1
Perfluorohexanesulfonic acid (PFHxS)	2.38	B	1.91	0.16	ng/L		11/16/19 07:36	11/18/19 10:56	1
Perfluorooctanesulfonic acid (PFOS)	11.6		1.91	0.51	ng/L		11/16/19 07:36	11/18/19 10:56	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	19.1	U	19.1	1.81	ng/L		11/16/19 07:36	11/18/19 10:56	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	19.1	U	19.1	2.95	ng/L		11/16/19 07:36	11/18/19 10:56	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C2 PFHxA	104		25 - 150				11/16/19 07:36	11/18/19 10:56	1
13C4 PFHpA	112		25 - 150				11/16/19 07:36	11/18/19 10:56	1
13C4 PFOA	108		25 - 150				11/16/19 07:36	11/18/19 10:56	1
13C5 PFNA	104		25 - 150				11/16/19 07:36	11/18/19 10:56	1
13C2 PFDA	102		25 - 150				11/16/19 07:36	11/18/19 10:56	1
13C2 PFUnA	108		25 - 150				11/16/19 07:36	11/18/19 10:56	1
13C2 PFDoA	104		25 - 150				11/16/19 07:36	11/18/19 10:56	1
13C2 PFTeDA	91		25 - 150				11/16/19 07:36	11/18/19 10:56	1
18O2 PFHxS	117		25 - 150				11/16/19 07:36	11/18/19 10:56	1
13C4 PFOS	97		25 - 150				11/16/19 07:36	11/18/19 10:56	1
d3-NMeFOSAA	97		25 - 150				11/16/19 07:36	11/18/19 10:56	1
d5-NEtFOSAA	104		25 - 150				11/16/19 07:36	11/18/19 10:56	1

Client Sample ID: WSG-MW4-10-0

Lab Sample ID: 460-196258-7

Date Collected: 11/07/19 09:45

Matrix: Water

Date Received: 11/08/19 20:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			11/16/19 04:49	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.37	ug/L			11/16/19 04:49	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			11/16/19 04:49	1
1,1,2-Trichloroethane	1.0	U	1.0	0.43	ug/L			11/16/19 04:49	1
1,1-Dichloroethane	1.0	U	1.0	0.26	ug/L			11/16/19 04:49	1
1,1-Dichloroethene	1.0	U	1.0	0.26	ug/L			11/16/19 04:49	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.37	ug/L			11/16/19 04:49	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.38	ug/L			11/16/19 04:49	1
1,2-Dichlorobenzene	1.0	U	1.0	0.43	ug/L			11/16/19 04:49	1
1,2-Dichloroethane	1.0	U	1.0	0.43	ug/L			11/16/19 04:49	1
1,2-Dichloropropane	1.0	U	1.0	0.35	ug/L			11/16/19 04:49	1

Eurofins TestAmerica, Edison

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196258-1

Client Sample ID: WSG-MW4-10-0

Lab Sample ID: 460-196258-7

Date Collected: 11/07/19 09:45

Matrix: Water

Date Received: 11/08/19 20:00

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	1.0	U	1.0	0.34	ug/L			11/16/19 04:49	1
1,4-Dichlorobenzene	1.0	U	1.0	0.33	ug/L			11/16/19 04:49	1
2-Butanone (MEK)	5.0	U	5.0	1.9	ug/L			11/16/19 04:49	1
2-Hexanone	5.0	U	5.0	1.1	ug/L			11/16/19 04:49	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	1.3	ug/L			11/16/19 04:49	1
Acetone	5.0	U	5.0	4.4	ug/L			11/16/19 04:49	1
Benzene	1.0	U	1.0	0.20	ug/L			11/16/19 04:49	1
Bromoform	1.0	U	1.0	0.54	ug/L			11/16/19 04:49	1
Bromomethane	1.0	U	1.0	0.55	ug/L			11/16/19 04:49	1
Carbon disulfide	1.0	U	1.0	0.82	ug/L			11/16/19 04:49	1
Carbon tetrachloride	1.0	U	1.0	0.21	ug/L			11/16/19 04:49	1
Chlorobenzene	1.0	U	1.0	0.38	ug/L			11/16/19 04:49	1
Chlorodibromomethane	1.0	U	1.0	0.28	ug/L			11/16/19 04:49	1
Chloroethane	1.0	U	1.0	0.32	ug/L			11/16/19 04:49	1
Chloroform	0.54	J	1.0	0.33	ug/L			11/16/19 04:49	1
Chloromethane	1.0	U	1.0	0.40	ug/L			11/16/19 04:49	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.22	ug/L			11/16/19 04:49	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.22	ug/L			11/16/19 04:49	1
Cyclohexane	1.0	U	1.0	0.32	ug/L			11/16/19 04:49	1
Dichlorobromomethane	1.0	U	1.0	0.34	ug/L			11/16/19 04:49	1
Dichlorodifluoromethane	1.0	U	1.0	0.31	ug/L			11/16/19 04:49	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			11/16/19 04:49	1
Ethylene Dibromide	1.0	U	1.0	0.50	ug/L			11/16/19 04:49	1
Isopropylbenzene	1.0	U	1.0	0.34	ug/L			11/16/19 04:49	1
Methyl acetate	5.0	U	5.0	0.79	ug/L			11/16/19 04:49	1
Methyl tert-butyl ether	1.0	U	1.0	0.47	ug/L			11/16/19 04:49	1
Methylcyclohexane	1.0	U	1.0	0.26	ug/L			11/16/19 04:49	1
Methylene Chloride	1.0	U	1.0	0.32	ug/L			11/16/19 04:49	1
Styrene	1.0	U	1.0	0.42	ug/L			11/16/19 04:49	1
Tetrachloroethene	1.0	U	1.0	0.25	ug/L			11/16/19 04:49	1
Toluene	1.0	U	1.0	0.38	ug/L			11/16/19 04:49	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			11/16/19 04:49	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.49	ug/L			11/16/19 04:49	1
Trichloroethene	1.0	U	1.0	0.31	ug/L			11/16/19 04:49	1
Trichlorofluoromethane	1.0	U	1.0	0.32	ug/L			11/16/19 04:49	1
Vinyl chloride	1.0	U	1.0	0.17	ug/L			11/16/19 04:49	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			11/16/19 04:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		74 - 132		11/16/19 04:49	1
4-Bromofluorobenzene	91		77 - 124		11/16/19 04:49	1
Dibromofluoromethane (Surr)	97		72 - 131		11/16/19 04:49	1
Toluene-d8 (Surr)	100		80 - 120		11/16/19 04:49	1

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.40	U	0.40	0.17	ug/L		11/13/19 09:58	11/14/19 16:25	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196258-1

Client Sample ID: WSG-MW4-10-0

Lab Sample ID: 460-196258-7

Date Collected: 11/07/19 09:45

Matrix: Water

Date Received: 11/08/19 20:00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	88		38 - 125	11/13/19 09:58	11/14/19 16:25	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	10	U	10	1.2	ug/L		11/13/19 09:58	11/14/19 10:54	1
2,2'-oxybis[1-chloropropane]	10	U	10	0.63	ug/L		11/13/19 09:58	11/14/19 10:54	1
2,4,5-Trichlorophenol	10	U	10	0.88	ug/L		11/13/19 09:58	11/14/19 10:54	1
2,4,6-Trichlorophenol	10	U	10	0.86	ug/L		11/13/19 09:58	11/14/19 10:54	1
2,4-Dichlorophenol	10	U	10	1.1	ug/L		11/13/19 09:58	11/14/19 10:54	1
2,4-Dimethylphenol	10	U	10	0.62	ug/L		11/13/19 09:58	11/14/19 10:54	1
2,4-Dinitrophenol	20	U	20	14	ug/L		11/13/19 09:58	11/14/19 10:54	1
2,4-Dinitrotoluene	2.0	U	2.0	1.0	ug/L		11/13/19 09:58	11/14/19 10:54	1
2,6-Dinitrotoluene	2.0	U	2.0	0.83	ug/L		11/13/19 09:58	11/14/19 10:54	1
2-Chloronaphthalene	10	U	10	1.2	ug/L		11/13/19 09:58	11/14/19 10:54	1
2-Chlorophenol	10	U	10	0.38	ug/L		11/13/19 09:58	11/14/19 10:54	1
2-Methylnaphthalene	10	U	10	1.1	ug/L		11/13/19 09:58	11/14/19 10:54	1
2-Methylphenol	10	U	10	0.67	ug/L		11/13/19 09:58	11/14/19 10:54	1
2-Nitroaniline	10	U	10	0.47	ug/L		11/13/19 09:58	11/14/19 10:54	1
2-Nitrophenol	10	U	10	0.75	ug/L		11/13/19 09:58	11/14/19 10:54	1
3,3'-Dichlorobenzidine	10	U *	10	1.4	ug/L		11/13/19 09:58	11/14/19 10:54	1
3-Nitroaniline	10	U	10	1.9	ug/L		11/13/19 09:58	11/14/19 10:54	1
4,6-Dinitro-2-methylphenol	20	U	20	13	ug/L		11/13/19 09:58	11/14/19 10:54	1
4-Bromophenyl phenyl ether	10	U	10	0.75	ug/L		11/13/19 09:58	11/14/19 10:54	1
4-Chloro-3-methylphenol	10	U	10	0.58	ug/L		11/13/19 09:58	11/14/19 10:54	1
4-Chloroaniline	10	U	10	1.9	ug/L		11/13/19 09:58	11/14/19 10:54	1
4-Chlorophenyl phenyl ether	10	U	10	1.3	ug/L		11/13/19 09:58	11/14/19 10:54	1
4-Methylphenol	10	U	10	0.65	ug/L		11/13/19 09:58	11/14/19 10:54	1
4-Nitroaniline	10	U	10	1.2	ug/L		11/13/19 09:58	11/14/19 10:54	1
4-Nitrophenol	20	U	20	4.0	ug/L		11/13/19 09:58	11/14/19 10:54	1
Acenaphthene	10	U	10	1.1	ug/L		11/13/19 09:58	11/14/19 10:54	1
Acenaphthylene	10	U	10	0.82	ug/L		11/13/19 09:58	11/14/19 10:54	1
Acetophenone	10	U	10	2.3	ug/L		11/13/19 09:58	11/14/19 10:54	1
Anthracene	10	U	10	0.63	ug/L		11/13/19 09:58	11/14/19 10:54	1
Atrazine	2.0	U *	2.0	1.3	ug/L		11/13/19 09:58	11/14/19 10:54	1
Benzaldehyde	10	U	10	2.1	ug/L		11/13/19 09:58	11/14/19 10:54	1
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		11/13/19 09:58	11/14/19 10:54	1
Benzo[a]pyrene	1.0	U	1.0	0.41	ug/L		11/13/19 09:58	11/14/19 10:54	1
Benzo[b]fluoranthene	2.0	U	2.0	0.68	ug/L		11/13/19 09:58	11/14/19 10:54	1
Benzo[g,h,i]perylene	10	U	10	1.4	ug/L		11/13/19 09:58	11/14/19 10:54	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		11/13/19 09:58	11/14/19 10:54	1
Bis(2-chloroethoxy)methane	10	U	10	0.59	ug/L		11/13/19 09:58	11/14/19 10:54	1
Bis(2-chloroethyl)ether	1.0	U	1.0	0.63	ug/L		11/13/19 09:58	11/14/19 10:54	1
Bis(2-ethylhexyl) phthalate	2.0	U	2.0	1.7	ug/L		11/13/19 09:58	11/14/19 10:54	1
Butyl benzyl phthalate	10	U	10	0.85	ug/L		11/13/19 09:58	11/14/19 10:54	1
Caprolactam	10	U *	10	0.68	ug/L		11/13/19 09:58	11/14/19 10:54	1
Carbazole	10	U	10	0.68	ug/L		11/13/19 09:58	11/14/19 10:54	1
Chrysene	2.0	U	2.0	0.91	ug/L		11/13/19 09:58	11/14/19 10:54	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		11/13/19 09:58	11/14/19 10:54	1
Dibenzofuran	10	U	10	1.1	ug/L		11/13/19 09:58	11/14/19 10:54	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196258-1

Client Sample ID: WSG-MW4-10-0

Lab Sample ID: 460-196258-7

Date Collected: 11/07/19 09:45

Matrix: Water

Date Received: 11/08/19 20:00

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diethyl phthalate	10	U	10	0.98	ug/L		11/13/19 09:58	11/14/19 10:54	1
Dimethyl phthalate	10	U	10	0.77	ug/L		11/13/19 09:58	11/14/19 10:54	1
Di-n-butyl phthalate	10	U	10	0.84	ug/L		11/13/19 09:58	11/14/19 10:54	1
Di-n-octyl phthalate	10	U	10	4.8	ug/L		11/13/19 09:58	11/14/19 10:54	1
Fluoranthene	10	U	10	0.84	ug/L		11/13/19 09:58	11/14/19 10:54	1
Fluorene	10	U	10	0.91	ug/L		11/13/19 09:58	11/14/19 10:54	1
Hexachlorobenzene	1.0	U	1.0	0.40	ug/L		11/13/19 09:58	11/14/19 10:54	1
Hexachlorobutadiene	1.0	U	1.0	0.78	ug/L		11/13/19 09:58	11/14/19 10:54	1
Hexachlorocyclopentadiene	10	U	10	3.6	ug/L		11/13/19 09:58	11/14/19 10:54	1
Hexachloroethane	2.0	U	2.0	0.80	ug/L		11/13/19 09:58	11/14/19 10:54	1
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	0.94	ug/L		11/13/19 09:58	11/14/19 10:54	1
Isophorone	10	U	10	0.80	ug/L		11/13/19 09:58	11/14/19 10:54	1
Naphthalene	10	U	10	1.1	ug/L		11/13/19 09:58	11/14/19 10:54	1
Nitrobenzene	1.0	U	1.0	0.57	ug/L		11/13/19 09:58	11/14/19 10:54	1
N-Nitrosodi-n-propylamine	1.0	U	1.0	0.43	ug/L		11/13/19 09:58	11/14/19 10:54	1
N-Nitrosodiphenylamine	10	U	10	0.89	ug/L		11/13/19 09:58	11/14/19 10:54	1
Pentachlorophenol	20	U	20	1.4	ug/L		11/13/19 09:58	11/14/19 10:54	1
Phenanthrene	10	U	10	0.58	ug/L		11/13/19 09:58	11/14/19 10:54	1
Phenol	10	U	10	0.29	ug/L		11/13/19 09:58	11/14/19 10:54	1
Pyrene	10	U	10	1.6	ug/L		11/13/19 09:58	11/14/19 10:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	90		26 - 139	11/13/19 09:58	11/14/19 10:54	1
2-Fluorobiphenyl	76		45 - 107	11/13/19 09:58	11/14/19 10:54	1
2-Fluorophenol (Surr)	39		25 - 58	11/13/19 09:58	11/14/19 10:54	1
Nitrobenzene-d5 (Surr)	83		51 - 108	11/13/19 09:58	11/14/19 10:54	1
Phenol-d5 (Surr)	25		14 - 39	11/13/19 09:58	11/14/19 10:54	1
Terphenyl-d14 (Surr)	70		40 - 148	11/13/19 09:58	11/14/19 10:54	1

Method: 608.3 - Organochlorine Pesticides/PCBs in Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.020	U	0.020	0.012	ug/L		11/12/19 16:57	11/18/19 12:26	1
alpha-BHC	0.020	U	0.020	0.013	ug/L		11/12/19 16:57	11/18/19 12:26	1
beta-BHC	0.030	U	0.030	0.015	ug/L		11/12/19 16:57	11/18/19 12:26	1
delta-BHC	0.020	U	0.020	0.0090	ug/L		11/12/19 16:57	11/18/19 12:26	1
gamma-BHC (Lindane)	0.030	U	0.030	0.013	ug/L		11/12/19 16:57	11/18/19 12:26	1
Chlordane	0.50	U	0.50	0.093	ug/L		11/12/19 16:57	11/18/19 12:26	1
4,4'-DDD	0.040	U	0.040	0.018	ug/L		11/12/19 16:57	11/18/19 12:26	1
4,4'-DDE	0.030	U	0.030	0.018	ug/L		11/12/19 16:57	11/18/19 12:26	1
4,4'-DDT	0.030	U	0.030	0.025	ug/L		11/12/19 16:57	11/18/19 12:26	1
Dieldrin	0.020	U	0.020	0.016	ug/L		11/12/19 16:57	11/18/19 12:26	1
Endosulfan I	0.030	U	0.030	0.014	ug/L		11/12/19 16:57	11/18/19 12:26	1
Endosulfan II	0.030	U	0.030	0.017	ug/L		11/12/19 16:57	11/18/19 12:26	1
Endosulfan sulfate	0.030	U *	0.030	0.015	ug/L		11/12/19 16:57	11/18/19 12:26	1
Endrin	0.030	U *	0.030	0.021	ug/L		11/12/19 16:57	11/18/19 12:26	1
Endrin aldehyde	0.030	U	0.030	0.024	ug/L		11/12/19 16:57	11/18/19 12:26	1
Endrin ketone	0.030	U	0.030	0.013	ug/L		11/12/19 16:57	11/18/19 12:26	1
Heptachlor	0.030	U	0.030	0.014	ug/L		11/12/19 16:57	11/18/19 12:26	1
Heptachlor epoxide	0.030	U	0.030	0.014	ug/L		11/12/19 16:57	11/18/19 12:26	1

Eurofins TestAmerica, Edison

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196258-1

Client Sample ID: WSG-MW4-10-0

Lab Sample ID: 460-196258-7

Date Collected: 11/07/19 09:45

Matrix: Water

Date Received: 11/08/19 20:00

Method: 608.3 - Organochlorine Pesticides/PCBs in Water (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methoxychlor	0.030	U	0.030	0.030	ug/L		11/12/19 16:57	11/18/19 12:26	1
Toxaphene	0.50	U	0.50	0.20	ug/L		11/12/19 16:57	11/18/19 12:26	1
Aroclor 1016	1.0	U	1.0	0.030	ug/L		11/12/19 16:57	11/18/19 12:26	1
Aroclor 1221	1.0	U	1.0	0.030	ug/L		11/12/19 16:57	11/18/19 12:26	1
Aroclor 1232	1.0	U	1.0	0.030	ug/L		11/12/19 16:57	11/18/19 12:26	1
Aroclor 1242	1.0	U	1.0	0.030	ug/L		11/12/19 16:57	11/18/19 12:26	1
Aroclor 1248	1.0	U	1.0	0.030	ug/L		11/12/19 16:57	11/18/19 12:26	1
Aroclor 1254	1.0	U	1.0	0.037	ug/L		11/12/19 16:57	11/18/19 12:26	1
Aroclor 1260	1.0	U	1.0	0.037	ug/L		11/12/19 16:57	11/18/19 12:26	1
Aroclor 1262	1.0	U	1.0	0.037	ug/L		11/12/19 16:57	11/18/19 12:26	1
Aroclor 1268	1.0	U	1.0	0.037	ug/L		11/12/19 16:57	11/18/19 12:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	96		10 - 150	11/12/19 16:57	11/18/19 12:26	1
Tetrachloro-m-xylene	82		10 - 150	11/12/19 16:57	11/18/19 12:26	1
DCB Decachlorobiphenyl	57		10 - 150	11/12/19 16:57	11/18/19 12:26	1
DCB Decachlorobiphenyl	52		10 - 150	11/12/19 16:57	11/18/19 12:26	1

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	1.2	U	1.2	0.13	ug/L		11/13/19 23:40	11/14/19 18:46	1
Silvex (2,4,5-TP)	1.2	U	1.2	0.11	ug/L		11/13/19 23:40	11/14/19 18:46	1
2,4,5-T	1.2	U	1.2	0.12	ug/L		11/13/19 23:40	11/14/19 18:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	95		54 - 150	11/13/19 23:40	11/14/19 18:46	1
2,4-Dichlorophenylacetic acid	98		54 - 150	11/13/19 23:40	11/14/19 18:46	1

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	5.06		1.96	0.57	ng/L		11/16/19 07:36	11/18/19 11:25	1
Perfluoroheptanoic acid (PFHpA)	1.09	J	1.96	0.24	ng/L		11/16/19 07:36	11/18/19 11:25	1
Perfluorooctanoic acid (PFOA)	5.57		1.96	0.83	ng/L		11/16/19 07:36	11/18/19 11:25	1
Perfluorononanoic acid (PFNA)	0.80	J	1.96	0.26	ng/L		11/16/19 07:36	11/18/19 11:25	1
Perfluorodecanoic acid (PFDA)	1.96	U	1.96	0.30	ng/L		11/16/19 07:36	11/18/19 11:25	1
Perfluoroundecanoic acid (PFUnA)	1.96	U	1.96	1.08	ng/L		11/16/19 07:36	11/18/19 11:25	1
Perfluorododecanoic acid (PFDoA)	1.96	U	1.96	0.54	ng/L		11/16/19 07:36	11/18/19 11:25	1
Perfluorotridecanoic acid (PFTriA)	1.96	U	1.96	1.27	ng/L		11/16/19 07:36	11/18/19 11:25	1
Perfluorotetradecanoic acid (PFTeA)	1.96	U	1.96	0.28	ng/L		11/16/19 07:36	11/18/19 11:25	1
Perfluorobutanesulfonic acid (PFBS)	2.11		1.96	0.20	ng/L		11/16/19 07:36	11/18/19 11:25	1
Perfluorohexanesulfonic acid (PFHxS)	43.4	B	1.96	0.17	ng/L		11/16/19 07:36	11/18/19 11:25	1
Perfluorooctanesulfonic acid (PFOS)	232		1.96	0.53	ng/L		11/16/19 07:36	11/18/19 11:25	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	19.6	U	19.6	1.86	ng/L		11/16/19 07:36	11/18/19 11:25	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	19.6	U	19.6	3.03	ng/L		11/16/19 07:36	11/18/19 11:25	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196258-1

Client Sample ID: WSG-MW4-10-0

Lab Sample ID: 460-196258-7

Date Collected: 11/07/19 09:45

Matrix: Water

Date Received: 11/08/19 20:00

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFHxA	105		25 - 150	11/16/19 07:36	11/18/19 11:25	1
13C4 PFHpA	115		25 - 150	11/16/19 07:36	11/18/19 11:25	1
13C4 PFOA	108		25 - 150	11/16/19 07:36	11/18/19 11:25	1
13C5 PFNA	102		25 - 150	11/16/19 07:36	11/18/19 11:25	1
13C2 PFDA	103		25 - 150	11/16/19 07:36	11/18/19 11:25	1
13C2 PFUnA	106		25 - 150	11/16/19 07:36	11/18/19 11:25	1
13C2 PFDoA	109		25 - 150	11/16/19 07:36	11/18/19 11:25	1
13C2 PFTeDA	100		25 - 150	11/16/19 07:36	11/18/19 11:25	1
18O2 PFHxS	121		25 - 150	11/16/19 07:36	11/18/19 11:25	1
13C4 PFOS	99		25 - 150	11/16/19 07:36	11/18/19 11:25	1
d3-NMeFOSAA	90		25 - 150	11/16/19 07:36	11/18/19 11:25	1
d5-NEtFOSAA	102		25 - 150	11/16/19 07:36	11/18/19 11:25	1

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	150	U	150	34.2	ug/L		11/19/19 07:16	11/20/19 11:02	1
Silver	10.0	U	10.0	1.1	ug/L		11/19/19 07:16	11/20/19 11:02	1
Aluminum	33.9	J	200	28.6	ug/L		11/19/19 07:16	11/20/19 11:02	1
Arsenic	15.0	U	15.0	2.7	ug/L		11/19/19 07:16	11/20/19 11:02	1
Boron	28.4	J	50.0	12.7	ug/L		11/19/19 07:16	11/20/19 11:02	1
Barium	32.6	J	200	7.7	ug/L		11/19/19 07:16	11/20/19 11:02	1
Beryllium	2.0	U	2.0	0.23	ug/L		11/19/19 07:16	11/20/19 11:02	1
Calcium	9170		5000	222	ug/L		11/19/19 07:16	11/20/19 11:02	1
Cadmium	4.0	U	4.0	0.22	ug/L		11/19/19 07:16	11/20/19 11:02	1
Cobalt	50.0	U	50.0	1.7	ug/L		11/19/19 07:16	11/20/19 11:02	1
Chromium	10.0	U	10.0	1.3	ug/L		11/19/19 07:16	11/20/19 11:02	1
Copper	25.0	U	25.0	5.1	ug/L		11/19/19 07:16	11/20/19 11:02	1
Potassium	1710	J	5000	323	ug/L		11/19/19 07:16	11/20/19 11:02	1
Magnesium	3200	J	5000	177	ug/L		11/19/19 07:16	11/20/19 11:02	1
Manganese	12.8	J	15.0	0.99	ug/L		11/19/19 07:16	11/20/19 11:02	1
Molybdenum	20.0	U	20.0	3.3	ug/L		11/19/19 07:16	11/20/19 11:02	1
Sodium	50900		5000	460	ug/L		11/19/19 07:16	11/20/19 11:02	1
Nickel	40.0	U	40.0	1.7	ug/L		11/19/19 07:16	11/20/19 11:02	1
Lead	10.0	U	10.0	2.5	ug/L		11/19/19 07:16	11/20/19 11:02	1
Antimony	20.0	U	20.0	2.9	ug/L		11/19/19 07:16	11/20/19 11:02	1
Selenium	20.0	U	20.0	6.6	ug/L		11/19/19 07:16	11/20/19 11:02	1
Tin	50.0	U	50.0	2.4	ug/L		11/19/19 07:16	11/20/19 11:02	1
Strontium	46.0		20.0	0.70	ug/L		11/19/19 07:16	11/20/19 11:02	1
Titanium	20.0	U	20.0	2.0	ug/L		11/19/19 07:16	11/20/19 11:02	1
Thallium	20.0	U	20.0	5.4	ug/L		11/19/19 07:16	11/20/19 11:02	1
Vanadium	50.0	U	50.0	2.5	ug/L		11/19/19 07:16	11/20/19 11:02	1
Zinc	7.4	J	30.0	3.6	ug/L		11/19/19 07:16	11/20/19 11:02	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.12	ug/L		11/20/19 11:53	11/20/19 13:23	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196258-1

Client Sample ID: WSG-MW3-10-0

Lab Sample ID: 460-196258-8

Date Collected: 11/07/19 11:00

Matrix: Water

Date Received: 11/08/19 20:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			11/16/19 05:13	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.37	ug/L			11/16/19 05:13	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			11/16/19 05:13	1
1,1,2-Trichloroethane	1.0	U	1.0	0.43	ug/L			11/16/19 05:13	1
1,1-Dichloroethane	1.0	U	1.0	0.26	ug/L			11/16/19 05:13	1
1,1-Dichloroethene	1.0	U	1.0	0.26	ug/L			11/16/19 05:13	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.37	ug/L			11/16/19 05:13	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.38	ug/L			11/16/19 05:13	1
1,2-Dichlorobenzene	1.0	U	1.0	0.43	ug/L			11/16/19 05:13	1
1,2-Dichloroethane	1.0	U	1.0	0.43	ug/L			11/16/19 05:13	1
1,2-Dichloropropane	1.0	U	1.0	0.35	ug/L			11/16/19 05:13	1
1,3-Dichlorobenzene	1.0	U	1.0	0.34	ug/L			11/16/19 05:13	1
1,4-Dichlorobenzene	1.0	U	1.0	0.33	ug/L			11/16/19 05:13	1
2-Butanone (MEK)	5.0	U	5.0	1.9	ug/L			11/16/19 05:13	1
2-Hexanone	5.0	U	5.0	1.1	ug/L			11/16/19 05:13	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	1.3	ug/L			11/16/19 05:13	1
Acetone	5.0	U	5.0	4.4	ug/L			11/16/19 05:13	1
Benzene	1.0	U	1.0	0.20	ug/L			11/16/19 05:13	1
Bromoform	1.0	U	1.0	0.54	ug/L			11/16/19 05:13	1
Bromomethane	1.0	U	1.0	0.55	ug/L			11/16/19 05:13	1
Carbon disulfide	1.0	U	1.0	0.82	ug/L			11/16/19 05:13	1
Carbon tetrachloride	1.0	U	1.0	0.21	ug/L			11/16/19 05:13	1
Chlorobenzene	1.0	U	1.0	0.38	ug/L			11/16/19 05:13	1
Chlorodibromomethane	1.0	U	1.0	0.28	ug/L			11/16/19 05:13	1
Chloroethane	1.0	U	1.0	0.32	ug/L			11/16/19 05:13	1
Chloroform	1.1		1.0	0.33	ug/L			11/16/19 05:13	1
Chloromethane	1.0	U	1.0	0.40	ug/L			11/16/19 05:13	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.22	ug/L			11/16/19 05:13	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.22	ug/L			11/16/19 05:13	1
Cyclohexane	1.0	U	1.0	0.32	ug/L			11/16/19 05:13	1
Dichlorobromomethane	1.0	U	1.0	0.34	ug/L			11/16/19 05:13	1
Dichlorodifluoromethane	1.0	U	1.0	0.31	ug/L			11/16/19 05:13	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			11/16/19 05:13	1
Ethylene Dibromide	1.0	U	1.0	0.50	ug/L			11/16/19 05:13	1
Isopropylbenzene	1.0	U	1.0	0.34	ug/L			11/16/19 05:13	1
Methyl acetate	5.0	U	5.0	0.79	ug/L			11/16/19 05:13	1
Methyl tert-butyl ether	1.0	U	1.0	0.47	ug/L			11/16/19 05:13	1
Methylcyclohexane	1.0	U	1.0	0.26	ug/L			11/16/19 05:13	1
Methylene Chloride	1.0	U	1.0	0.32	ug/L			11/16/19 05:13	1
Styrene	1.0	U	1.0	0.42	ug/L			11/16/19 05:13	1
Tetrachloroethene	1.0	U	1.0	0.25	ug/L			11/16/19 05:13	1
Toluene	1.0	U	1.0	0.38	ug/L			11/16/19 05:13	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			11/16/19 05:13	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.49	ug/L			11/16/19 05:13	1
Trichloroethene	1.0	U	1.0	0.31	ug/L			11/16/19 05:13	1
Trichlorofluoromethane	1.0	U	1.0	0.32	ug/L			11/16/19 05:13	1
Vinyl chloride	1.0	U	1.0	0.17	ug/L			11/16/19 05:13	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			11/16/19 05:13	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196258-1

Client Sample ID: WSG-MW3-10-0

Lab Sample ID: 460-196258-8

Date Collected: 11/07/19 11:00

Matrix: Water

Date Received: 11/08/19 20:00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		74 - 132		11/16/19 05:13	1
4-Bromofluorobenzene	95		77 - 124		11/16/19 05:13	1
Dibromofluoromethane (Surr)	97		72 - 131		11/16/19 05:13	1
Toluene-d8 (Surr)	102		80 - 120		11/16/19 05:13	1

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.40	U	0.40	0.17	ug/L		11/13/19 09:58	11/14/19 16:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	85		38 - 125	11/13/19 09:58	11/14/19 16:46	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	10	U	10	1.2	ug/L		11/13/19 09:58	11/14/19 11:15	1
2,2'-oxybis[1-chloropropane]	10	U	10	0.63	ug/L		11/13/19 09:58	11/14/19 11:15	1
2,4,5-Trichlorophenol	10	U	10	0.88	ug/L		11/13/19 09:58	11/14/19 11:15	1
2,4,6-Trichlorophenol	10	U	10	0.86	ug/L		11/13/19 09:58	11/14/19 11:15	1
2,4-Dichlorophenol	10	U	10	1.1	ug/L		11/13/19 09:58	11/14/19 11:15	1
2,4-Dimethylphenol	10	U	10	0.62	ug/L		11/13/19 09:58	11/14/19 11:15	1
2,4-Dinitrophenol	20	U	20	14	ug/L		11/13/19 09:58	11/14/19 11:15	1
2,4-Dinitrotoluene	2.0	U	2.0	1.0	ug/L		11/13/19 09:58	11/14/19 11:15	1
2,6-Dinitrotoluene	2.0	U	2.0	0.83	ug/L		11/13/19 09:58	11/14/19 11:15	1
2-Chloronaphthalene	10	U	10	1.2	ug/L		11/13/19 09:58	11/14/19 11:15	1
2-Chlorophenol	10	U	10	0.38	ug/L		11/13/19 09:58	11/14/19 11:15	1
2-Methylnaphthalene	10	U	10	1.1	ug/L		11/13/19 09:58	11/14/19 11:15	1
2-Methylphenol	10	U	10	0.67	ug/L		11/13/19 09:58	11/14/19 11:15	1
2-Nitroaniline	10	U	10	0.47	ug/L		11/13/19 09:58	11/14/19 11:15	1
2-Nitrophenol	10	U	10	0.75	ug/L		11/13/19 09:58	11/14/19 11:15	1
3,3'-Dichlorobenzidine	10	U *	10	1.4	ug/L		11/13/19 09:58	11/14/19 11:15	1
3-Nitroaniline	10	U	10	1.9	ug/L		11/13/19 09:58	11/14/19 11:15	1
4,6-Dinitro-2-methylphenol	20	U	20	13	ug/L		11/13/19 09:58	11/14/19 11:15	1
4-Bromophenyl phenyl ether	10	U	10	0.75	ug/L		11/13/19 09:58	11/14/19 11:15	1
4-Chloro-3-methylphenol	10	U	10	0.58	ug/L		11/13/19 09:58	11/14/19 11:15	1
4-Chloroaniline	10	U	10	1.9	ug/L		11/13/19 09:58	11/14/19 11:15	1
4-Chlorophenyl phenyl ether	10	U	10	1.3	ug/L		11/13/19 09:58	11/14/19 11:15	1
4-Methylphenol	10	U	10	0.65	ug/L		11/13/19 09:58	11/14/19 11:15	1
4-Nitroaniline	10	U	10	1.2	ug/L		11/13/19 09:58	11/14/19 11:15	1
4-Nitrophenol	20	U	20	4.0	ug/L		11/13/19 09:58	11/14/19 11:15	1
Acenaphthene	10	U	10	1.1	ug/L		11/13/19 09:58	11/14/19 11:15	1
Acenaphthylene	10	U	10	0.82	ug/L		11/13/19 09:58	11/14/19 11:15	1
Acetophenone	10	U	10	2.3	ug/L		11/13/19 09:58	11/14/19 11:15	1
Anthracene	10	U	10	0.63	ug/L		11/13/19 09:58	11/14/19 11:15	1
Atrazine	2.0	U *	2.0	1.3	ug/L		11/13/19 09:58	11/14/19 11:15	1
Benzaldehyde	10	U	10	2.1	ug/L		11/13/19 09:58	11/14/19 11:15	1
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		11/13/19 09:58	11/14/19 11:15	1
Benzo[a]pyrene	1.0	U	1.0	0.41	ug/L		11/13/19 09:58	11/14/19 11:15	1
Benzo[b]fluoranthene	2.0	U	2.0	0.68	ug/L		11/13/19 09:58	11/14/19 11:15	1
Benzo[g,h,i]perylene	10	U	10	1.4	ug/L		11/13/19 09:58	11/14/19 11:15	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		11/13/19 09:58	11/14/19 11:15	1

Eurofins TestAmerica, Edison

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196258-1

Client Sample ID: WSG-MW3-10-0

Lab Sample ID: 460-196258-8

Date Collected: 11/07/19 11:00

Matrix: Water

Date Received: 11/08/19 20:00

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-chloroethoxy)methane	10	U	10	0.59	ug/L		11/13/19 09:58	11/14/19 11:15	1
Bis(2-chloroethyl)ether	1.0	U	1.0	0.63	ug/L		11/13/19 09:58	11/14/19 11:15	1
Bis(2-ethylhexyl) phthalate	2.0	U	2.0	1.7	ug/L		11/13/19 09:58	11/14/19 11:15	1
Butyl benzyl phthalate	10	U	10	0.85	ug/L		11/13/19 09:58	11/14/19 11:15	1
Caprolactam	10	U *	10	0.68	ug/L		11/13/19 09:58	11/14/19 11:15	1
Carbazole	10	U	10	0.68	ug/L		11/13/19 09:58	11/14/19 11:15	1
Chrysene	2.0	U	2.0	0.91	ug/L		11/13/19 09:58	11/14/19 11:15	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		11/13/19 09:58	11/14/19 11:15	1
Dibenzofuran	10	U	10	1.1	ug/L		11/13/19 09:58	11/14/19 11:15	1
Diethyl phthalate	10	U	10	0.98	ug/L		11/13/19 09:58	11/14/19 11:15	1
Dimethyl phthalate	10	U	10	0.77	ug/L		11/13/19 09:58	11/14/19 11:15	1
Di-n-butyl phthalate	10	U	10	0.84	ug/L		11/13/19 09:58	11/14/19 11:15	1
Di-n-octyl phthalate	10	U	10	4.8	ug/L		11/13/19 09:58	11/14/19 11:15	1
Fluoranthene	10	U	10	0.84	ug/L		11/13/19 09:58	11/14/19 11:15	1
Fluorene	10	U	10	0.91	ug/L		11/13/19 09:58	11/14/19 11:15	1
Hexachlorobenzene	1.0	U	1.0	0.40	ug/L		11/13/19 09:58	11/14/19 11:15	1
Hexachlorobutadiene	1.0	U	1.0	0.78	ug/L		11/13/19 09:58	11/14/19 11:15	1
Hexachlorocyclopentadiene	10	U	10	3.6	ug/L		11/13/19 09:58	11/14/19 11:15	1
Hexachloroethane	2.0	U	2.0	0.80	ug/L		11/13/19 09:58	11/14/19 11:15	1
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	0.94	ug/L		11/13/19 09:58	11/14/19 11:15	1
Isophorone	10	U	10	0.80	ug/L		11/13/19 09:58	11/14/19 11:15	1
Naphthalene	10	U	10	1.1	ug/L		11/13/19 09:58	11/14/19 11:15	1
Nitrobenzene	1.0	U	1.0	0.57	ug/L		11/13/19 09:58	11/14/19 11:15	1
N-Nitrosodi-n-propylamine	1.0	U	1.0	0.43	ug/L		11/13/19 09:58	11/14/19 11:15	1
N-Nitrosodiphenylamine	10	U	10	0.89	ug/L		11/13/19 09:58	11/14/19 11:15	1
Pentachlorophenol	20	U	20	1.4	ug/L		11/13/19 09:58	11/14/19 11:15	1
Phenanthrene	10	U	10	0.58	ug/L		11/13/19 09:58	11/14/19 11:15	1
Phenol	10	U	10	0.29	ug/L		11/13/19 09:58	11/14/19 11:15	1
Pyrene	10	U	10	1.6	ug/L		11/13/19 09:58	11/14/19 11:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	81		26 - 139	11/13/19 09:58	11/14/19 11:15	1
2-Fluorobiphenyl	67		45 - 107	11/13/19 09:58	11/14/19 11:15	1
2-Fluorophenol (Surr)	32		25 - 58	11/13/19 09:58	11/14/19 11:15	1
Nitrobenzene-d5 (Surr)	72		51 - 108	11/13/19 09:58	11/14/19 11:15	1
Phenol-d5 (Surr)	20		14 - 39	11/13/19 09:58	11/14/19 11:15	1
Terphenyl-d14 (Surr)	66		40 - 148	11/13/19 09:58	11/14/19 11:15	1

Method: 608.3 - Organochlorine Pesticides/PCBs in Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.020	U	0.020	0.012	ug/L		11/12/19 16:57	11/18/19 12:39	1
alpha-BHC	0.020	U	0.020	0.013	ug/L		11/12/19 16:57	11/18/19 12:39	1
beta-BHC	0.030	U	0.030	0.015	ug/L		11/12/19 16:57	11/18/19 12:39	1
delta-BHC	0.020	U	0.020	0.0090	ug/L		11/12/19 16:57	11/18/19 12:39	1
gamma-BHC (Lindane)	0.030	U	0.030	0.013	ug/L		11/12/19 16:57	11/18/19 12:39	1
Chlordane	0.50	U	0.50	0.093	ug/L		11/12/19 16:57	11/18/19 12:39	1
4,4'-DDD	0.040	U	0.040	0.018	ug/L		11/12/19 16:57	11/18/19 12:39	1
4,4'-DDE	0.030	U	0.030	0.018	ug/L		11/12/19 16:57	11/18/19 12:39	1
4,4'-DDT	0.030	U	0.030	0.025	ug/L		11/12/19 16:57	11/18/19 12:39	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196258-1

Client Sample ID: WSG-MW3-10-0

Lab Sample ID: 460-196258-8

Date Collected: 11/07/19 11:00

Matrix: Water

Date Received: 11/08/19 20:00

Method: 608.3 - Organochlorine Pesticides/PCBs in Water (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dieldrin	0.020	U	0.020	0.016	ug/L		11/12/19 16:57	11/18/19 12:39	1
Endosulfan I	0.030	U	0.030	0.014	ug/L		11/12/19 16:57	11/18/19 12:39	1
Endosulfan II	0.030	U	0.030	0.017	ug/L		11/12/19 16:57	11/18/19 12:39	1
Endosulfan sulfate	0.030	U *	0.030	0.015	ug/L		11/12/19 16:57	11/18/19 12:39	1
Endrin	0.030	U *	0.030	0.021	ug/L		11/12/19 16:57	11/18/19 12:39	1
Endrin aldehyde	0.030	U	0.030	0.024	ug/L		11/12/19 16:57	11/18/19 12:39	1
Endrin ketone	0.030	U	0.030	0.013	ug/L		11/12/19 16:57	11/18/19 12:39	1
Heptachlor	0.030	U	0.030	0.014	ug/L		11/12/19 16:57	11/18/19 12:39	1
Heptachlor epoxide	0.030	U	0.030	0.014	ug/L		11/12/19 16:57	11/18/19 12:39	1
Methoxychlor	0.030	U	0.030	0.030	ug/L		11/12/19 16:57	11/18/19 12:39	1
Toxaphene	0.50	U	0.50	0.20	ug/L		11/12/19 16:57	11/18/19 12:39	1
Aroclor 1016	1.0	U	1.0	0.030	ug/L		11/12/19 16:57	11/18/19 12:39	1
Aroclor 1221	1.0	U	1.0	0.030	ug/L		11/12/19 16:57	11/18/19 12:39	1
Aroclor 1232	1.0	U	1.0	0.030	ug/L		11/12/19 16:57	11/18/19 12:39	1
Aroclor 1242	1.0	U	1.0	0.030	ug/L		11/12/19 16:57	11/18/19 12:39	1
Aroclor 1248	1.0	U	1.0	0.030	ug/L		11/12/19 16:57	11/18/19 12:39	1
Aroclor 1254	1.0	U	1.0	0.037	ug/L		11/12/19 16:57	11/18/19 12:39	1
Aroclor 1260	1.0	U	1.0	0.037	ug/L		11/12/19 16:57	11/18/19 12:39	1
Aroclor 1262	1.0	U	1.0	0.037	ug/L		11/12/19 16:57	11/18/19 12:39	1
Aroclor 1268	1.0	U	1.0	0.037	ug/L		11/12/19 16:57	11/18/19 12:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	91		10 - 150	11/12/19 16:57	11/18/19 12:39	1
Tetrachloro-m-xylene	83		10 - 150	11/12/19 16:57	11/18/19 12:39	1
DCB Decachlorobiphenyl	42		10 - 150	11/12/19 16:57	11/18/19 12:39	1
DCB Decachlorobiphenyl	45		10 - 150	11/12/19 16:57	11/18/19 12:39	1

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	1.2	U	1.2	0.13	ug/L		11/13/19 23:40	11/14/19 19:01	1
Silvex (2,4,5-TP)	1.2	U	1.2	0.11	ug/L		11/13/19 23:40	11/14/19 19:01	1
2,4,5-T	1.2	U	1.2	0.12	ug/L		11/13/19 23:40	11/14/19 19:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	83		54 - 150	11/13/19 23:40	11/14/19 19:01	1
2,4-Dichlorophenylacetic acid	87		54 - 150	11/13/19 23:40	11/14/19 19:01	1

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	9.53		1.94	0.56	ng/L		11/16/19 07:36	11/18/19 11:35	1
Perfluoroheptanoic acid (PFHpA)	2.27		1.94	0.24	ng/L		11/16/19 07:36	11/18/19 11:35	1
Perfluorooctanoic acid (PFOA)	27.5		1.94	0.83	ng/L		11/16/19 07:36	11/18/19 11:35	1
Perfluorononanoic acid (PFNA)	2.20		1.94	0.26	ng/L		11/16/19 07:36	11/18/19 11:35	1
Perfluorodecanoic acid (PFDA)	1.94	U	1.94	0.30	ng/L		11/16/19 07:36	11/18/19 11:35	1
Perfluoroundecanoic acid (PFUnA)	1.94	U	1.94	1.07	ng/L		11/16/19 07:36	11/18/19 11:35	1
Perfluorododecanoic acid (PFDoA)	1.94	U	1.94	0.53	ng/L		11/16/19 07:36	11/18/19 11:35	1
Perfluorotridecanoic acid (PFTriA)	1.94	U	1.94	1.26	ng/L		11/16/19 07:36	11/18/19 11:35	1
Perfluorotetradecanoic acid (PFTeA)	1.94	U	1.94	0.28	ng/L		11/16/19 07:36	11/18/19 11:35	1
Perfluorobutanesulfonic acid (PFBS)	3.66		1.94	0.19	ng/L		11/16/19 07:36	11/18/19 11:35	1

Eurofins TestAmerica, Edison

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196258-1

Client Sample ID: WSG-MW3-10-0

Lab Sample ID: 460-196258-8

Date Collected: 11/07/19 11:00

Matrix: Water

Date Received: 11/08/19 20:00

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanesulfonic acid (PFHxS)	306	B	1.94	0.17	ng/L		11/16/19 07:36	11/18/19 11:35	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	19.4	U	19.4	1.85	ng/L		11/16/19 07:36	11/18/19 11:35	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	19.4	U	19.4	3.01	ng/L		11/16/19 07:36	11/18/19 11:35	1
<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C2 PFHxA	105		25 - 150				11/16/19 07:36	11/18/19 11:35	1
13C4 PFHpA	113		25 - 150				11/16/19 07:36	11/18/19 11:35	1
13C4 PFOA	108		25 - 150				11/16/19 07:36	11/18/19 11:35	1
13C5 PFNA	98		25 - 150				11/16/19 07:36	11/18/19 11:35	1
13C2 PFDA	101		25 - 150				11/16/19 07:36	11/18/19 11:35	1
13C2 PFUnA	104		25 - 150				11/16/19 07:36	11/18/19 11:35	1
13C2 PFDoA	106		25 - 150				11/16/19 07:36	11/18/19 11:35	1
13C2 PFTeDA	94		25 - 150				11/16/19 07:36	11/18/19 11:35	1
18O2 PFHxS	118		25 - 150				11/16/19 07:36	11/18/19 11:35	1
13C4 PFOS	94		25 - 150				11/16/19 07:36	11/18/19 11:35	1
d3-NMeFOSAA	93		25 - 150				11/16/19 07:36	11/18/19 11:35	1
d5-NEtFOSAA	100		25 - 150				11/16/19 07:36	11/18/19 11:35	1

Method: 537 (modified) - Fluorinated Alkyl Substances - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	1010		19.4	5.25	ng/L		11/16/19 07:36	12/05/19 06:54	10
<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C4 PFOS	91		25 - 150				11/16/19 07:36	12/05/19 06:54	10

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	164		150	34.2	ug/L		11/19/19 07:16	11/20/19 11:14	1
Silver	10.0	U	10.0	1.1	ug/L		11/19/19 07:16	11/20/19 11:14	1
Aluminum	355		200	28.6	ug/L		11/19/19 07:16	11/20/19 11:14	1
Arsenic	15.0	U	15.0	2.7	ug/L		11/19/19 07:16	11/20/19 11:14	1
Boron	36.7	J	50.0	12.7	ug/L		11/19/19 07:16	11/20/19 11:14	1
Barium	34.3	J	200	7.7	ug/L		11/19/19 07:16	11/20/19 11:14	1
Beryllium	2.0	U	2.0	0.23	ug/L		11/19/19 07:16	11/20/19 11:14	1
Calcium	12500		5000	222	ug/L		11/19/19 07:16	11/20/19 11:14	1
Cadmium	4.0	U	4.0	0.22	ug/L		11/19/19 07:16	11/20/19 11:14	1
Cobalt	50.0	U	50.0	1.7	ug/L		11/19/19 07:16	11/20/19 11:14	1
Chromium	10.0	U	10.0	1.3	ug/L		11/19/19 07:16	11/20/19 11:14	1
Copper	7.9	J	25.0	5.1	ug/L		11/19/19 07:16	11/20/19 11:14	1
Potassium	2870	J	5000	323	ug/L		11/19/19 07:16	11/20/19 11:14	1
Magnesium	3590	J	5000	177	ug/L		11/19/19 07:16	11/20/19 11:14	1
Manganese	16.4		15.0	0.99	ug/L		11/19/19 07:16	11/20/19 11:14	1
Molybdenum	20.0	U	20.0	3.3	ug/L		11/19/19 07:16	11/20/19 11:14	1
Sodium	38100		5000	460	ug/L		11/19/19 07:16	11/20/19 11:14	1
Nickel	1.7	J	40.0	1.7	ug/L		11/19/19 07:16	11/20/19 11:14	1
Lead	10.0	U	10.0	2.5	ug/L		11/19/19 07:16	11/20/19 11:14	1
Antimony	20.0	U	20.0	2.9	ug/L		11/19/19 07:16	11/20/19 11:14	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196258-1

Client Sample ID: WSG-MW3-10-0

Lab Sample ID: 460-196258-8

Date Collected: 11/07/19 11:00

Matrix: Water

Date Received: 11/08/19 20:00

Method: 6010D - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	20.0	U	20.0	6.6	ug/L		11/19/19 07:16	11/20/19 11:14	1
Tin	50.0	U	50.0	2.4	ug/L		11/19/19 07:16	11/20/19 11:14	1
Strontium	52.9		20.0	0.70	ug/L		11/19/19 07:16	11/20/19 11:14	1
Titanium	5.3	J	20.0	2.0	ug/L		11/19/19 07:16	11/20/19 11:14	1
Thallium	20.0	U	20.0	5.4	ug/L		11/19/19 07:16	11/20/19 11:14	1
Vanadium	50.0	U	50.0	2.5	ug/L		11/19/19 07:16	11/20/19 11:14	1
Zinc	5.6	J	30.0	3.6	ug/L		11/19/19 07:16	11/20/19 11:14	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.12	ug/L		11/20/19 11:53	11/20/19 13:25	1

Client Sample ID: WSG-MW5-13-0

Lab Sample ID: 460-196258-9

Date Collected: 11/07/19 12:00

Matrix: Water

Date Received: 11/08/19 20:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			11/16/19 05:37	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.37	ug/L			11/16/19 05:37	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			11/16/19 05:37	1
1,1,2-Trichloroethane	1.0	U	1.0	0.43	ug/L			11/16/19 05:37	1
1,1-Dichloroethane	1.0	U	1.0	0.26	ug/L			11/16/19 05:37	1
1,1-Dichloroethene	1.0	U	1.0	0.26	ug/L			11/16/19 05:37	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.37	ug/L			11/16/19 05:37	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.38	ug/L			11/16/19 05:37	1
1,2-Dichlorobenzene	1.0	U	1.0	0.43	ug/L			11/16/19 05:37	1
1,2-Dichloroethane	1.0	U	1.0	0.43	ug/L			11/16/19 05:37	1
1,2-Dichloropropane	1.0	U	1.0	0.35	ug/L			11/16/19 05:37	1
1,3-Dichlorobenzene	1.0	U	1.0	0.34	ug/L			11/16/19 05:37	1
1,4-Dichlorobenzene	1.0	U	1.0	0.33	ug/L			11/16/19 05:37	1
2-Butanone (MEK)	5.0	U	5.0	1.9	ug/L			11/16/19 05:37	1
2-Hexanone	5.0	U	5.0	1.1	ug/L			11/16/19 05:37	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	1.3	ug/L			11/16/19 05:37	1
Acetone	5.0	U	5.0	4.4	ug/L			11/16/19 05:37	1
Benzene	1.0	U	1.0	0.20	ug/L			11/16/19 05:37	1
Bromoform	1.0	U	1.0	0.54	ug/L			11/16/19 05:37	1
Bromomethane	1.0	U	1.0	0.55	ug/L			11/16/19 05:37	1
Carbon disulfide	1.0	U	1.0	0.82	ug/L			11/16/19 05:37	1
Carbon tetrachloride	1.0	U	1.0	0.21	ug/L			11/16/19 05:37	1
Chlorobenzene	1.0	U	1.0	0.38	ug/L			11/16/19 05:37	1
Chlorodibromomethane	1.0	U	1.0	0.28	ug/L			11/16/19 05:37	1
Chloroethane	1.0	U	1.0	0.32	ug/L			11/16/19 05:37	1
Chloroform	0.42	J	1.0	0.33	ug/L			11/16/19 05:37	1
Chloromethane	1.0	U	1.0	0.40	ug/L			11/16/19 05:37	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.22	ug/L			11/16/19 05:37	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.22	ug/L			11/16/19 05:37	1
Cyclohexane	1.0	U	1.0	0.32	ug/L			11/16/19 05:37	1
Dichlorobromomethane	1.0	U	1.0	0.34	ug/L			11/16/19 05:37	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196258-1

Client Sample ID: WSG-MW5-13-0

Lab Sample ID: 460-196258-9

Date Collected: 11/07/19 12:00

Matrix: Water

Date Received: 11/08/19 20:00

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	1.0	U	1.0	0.31	ug/L			11/16/19 05:37	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			11/16/19 05:37	1
Ethylene Dibromide	1.0	U	1.0	0.50	ug/L			11/16/19 05:37	1
Isopropylbenzene	1.0	U	1.0	0.34	ug/L			11/16/19 05:37	1
Methyl acetate	5.0	U	5.0	0.79	ug/L			11/16/19 05:37	1
Methyl tert-butyl ether	1.0	U	1.0	0.47	ug/L			11/16/19 05:37	1
Methylcyclohexane	1.0	U	1.0	0.26	ug/L			11/16/19 05:37	1
Methylene Chloride	1.0	U	1.0	0.32	ug/L			11/16/19 05:37	1
Styrene	1.0	U	1.0	0.42	ug/L			11/16/19 05:37	1
Tetrachloroethene	1.0	U	1.0	0.25	ug/L			11/16/19 05:37	1
Toluene	1.0	U	1.0	0.38	ug/L			11/16/19 05:37	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			11/16/19 05:37	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.49	ug/L			11/16/19 05:37	1
Trichloroethene	1.0	U	1.0	0.31	ug/L			11/16/19 05:37	1
Trichlorofluoromethane	1.0	U	1.0	0.32	ug/L			11/16/19 05:37	1
Vinyl chloride	1.0	U	1.0	0.17	ug/L			11/16/19 05:37	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			11/16/19 05:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		74 - 132		11/16/19 05:37	1
4-Bromofluorobenzene	93		77 - 124		11/16/19 05:37	1
Dibromofluoromethane (Surr)	93		72 - 131		11/16/19 05:37	1
Toluene-d8 (Surr)	101		80 - 120		11/16/19 05:37	1

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.40	U	0.40	0.17	ug/L		11/13/19 09:58	11/14/19 17:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	88		38 - 125	11/13/19 09:58	11/14/19 17:07	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	10	U	10	1.2	ug/L		11/13/19 09:58	11/14/19 11:36	1
2,2'-oxybis[1-chloropropane]	10	U	10	0.63	ug/L		11/13/19 09:58	11/14/19 11:36	1
2,4,5-Trichlorophenol	10	U	10	0.88	ug/L		11/13/19 09:58	11/14/19 11:36	1
2,4,6-Trichlorophenol	10	U	10	0.86	ug/L		11/13/19 09:58	11/14/19 11:36	1
2,4-Dichlorophenol	10	U	10	1.1	ug/L		11/13/19 09:58	11/14/19 11:36	1
2,4-Dimethylphenol	10	U	10	0.62	ug/L		11/13/19 09:58	11/14/19 11:36	1
2,4-Dinitrophenol	20	U	20	14	ug/L		11/13/19 09:58	11/14/19 11:36	1
2,4-Dinitrotoluene	2.0	U	2.0	1.0	ug/L		11/13/19 09:58	11/14/19 11:36	1
2,6-Dinitrotoluene	2.0	U	2.0	0.83	ug/L		11/13/19 09:58	11/14/19 11:36	1
2-Chloronaphthalene	10	U	10	1.2	ug/L		11/13/19 09:58	11/14/19 11:36	1
2-Chlorophenol	10	U	10	0.38	ug/L		11/13/19 09:58	11/14/19 11:36	1
2-Methylnaphthalene	10	U	10	1.1	ug/L		11/13/19 09:58	11/14/19 11:36	1
2-Methylphenol	10	U	10	0.67	ug/L		11/13/19 09:58	11/14/19 11:36	1
2-Nitroaniline	10	U	10	0.47	ug/L		11/13/19 09:58	11/14/19 11:36	1
2-Nitrophenol	10	U	10	0.75	ug/L		11/13/19 09:58	11/14/19 11:36	1
3,3'-Dichlorobenzidine	10	U *	10	1.4	ug/L		11/13/19 09:58	11/14/19 11:36	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196258-1

Client Sample ID: WSG-MW5-13-0

Lab Sample ID: 460-196258-9

Date Collected: 11/07/19 12:00

Matrix: Water

Date Received: 11/08/19 20:00

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3-Nitroaniline	10	U	10	1.9	ug/L		11/13/19 09:58	11/14/19 11:36	1
4,6-Dinitro-2-methylphenol	20	U	20	13	ug/L		11/13/19 09:58	11/14/19 11:36	1
4-Bromophenyl phenyl ether	10	U	10	0.75	ug/L		11/13/19 09:58	11/14/19 11:36	1
4-Chloro-3-methylphenol	10	U	10	0.58	ug/L		11/13/19 09:58	11/14/19 11:36	1
4-Chloroaniline	10	U	10	1.9	ug/L		11/13/19 09:58	11/14/19 11:36	1
4-Chlorophenyl phenyl ether	10	U	10	1.3	ug/L		11/13/19 09:58	11/14/19 11:36	1
4-Methylphenol	10	U	10	0.65	ug/L		11/13/19 09:58	11/14/19 11:36	1
4-Nitroaniline	10	U	10	1.2	ug/L		11/13/19 09:58	11/14/19 11:36	1
4-Nitrophenol	20	U	20	4.0	ug/L		11/13/19 09:58	11/14/19 11:36	1
Acenaphthene	10	U	10	1.1	ug/L		11/13/19 09:58	11/14/19 11:36	1
Acenaphthylene	10	U	10	0.82	ug/L		11/13/19 09:58	11/14/19 11:36	1
Acetophenone	10	U	10	2.3	ug/L		11/13/19 09:58	11/14/19 11:36	1
Anthracene	10	U	10	0.63	ug/L		11/13/19 09:58	11/14/19 11:36	1
Atrazine	2.0	U *	2.0	1.3	ug/L		11/13/19 09:58	11/14/19 11:36	1
Benzaldehyde	10	U	10	2.1	ug/L		11/13/19 09:58	11/14/19 11:36	1
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		11/13/19 09:58	11/14/19 11:36	1
Benzo[a]pyrene	1.0	U	1.0	0.41	ug/L		11/13/19 09:58	11/14/19 11:36	1
Benzo[b]fluoranthene	2.0	U	2.0	0.68	ug/L		11/13/19 09:58	11/14/19 11:36	1
Benzo[g,h,i]perylene	10	U	10	1.4	ug/L		11/13/19 09:58	11/14/19 11:36	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		11/13/19 09:58	11/14/19 11:36	1
Bis(2-chloroethoxy)methane	10	U	10	0.59	ug/L		11/13/19 09:58	11/14/19 11:36	1
Bis(2-chloroethyl)ether	1.0	U	1.0	0.63	ug/L		11/13/19 09:58	11/14/19 11:36	1
Bis(2-ethylhexyl) phthalate	2.0	U	2.0	1.7	ug/L		11/13/19 09:58	11/14/19 11:36	1
Butyl benzyl phthalate	10	U	10	0.85	ug/L		11/13/19 09:58	11/14/19 11:36	1
Caprolactam	10	U *	10	0.68	ug/L		11/13/19 09:58	11/14/19 11:36	1
Carbazole	10	U	10	0.68	ug/L		11/13/19 09:58	11/14/19 11:36	1
Chrysene	2.0	U	2.0	0.91	ug/L		11/13/19 09:58	11/14/19 11:36	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		11/13/19 09:58	11/14/19 11:36	1
Dibenzofuran	10	U	10	1.1	ug/L		11/13/19 09:58	11/14/19 11:36	1
Diethyl phthalate	10	U	10	0.98	ug/L		11/13/19 09:58	11/14/19 11:36	1
Dimethyl phthalate	10	U	10	0.77	ug/L		11/13/19 09:58	11/14/19 11:36	1
Di-n-butyl phthalate	10	U	10	0.84	ug/L		11/13/19 09:58	11/14/19 11:36	1
Di-n-octyl phthalate	10	U	10	4.8	ug/L		11/13/19 09:58	11/14/19 11:36	1
Fluoranthene	10	U	10	0.84	ug/L		11/13/19 09:58	11/14/19 11:36	1
Fluorene	10	U	10	0.91	ug/L		11/13/19 09:58	11/14/19 11:36	1
Hexachlorobenzene	1.0	U	1.0	0.40	ug/L		11/13/19 09:58	11/14/19 11:36	1
Hexachlorobutadiene	1.0	U	1.0	0.78	ug/L		11/13/19 09:58	11/14/19 11:36	1
Hexachlorocyclopentadiene	10	U	10	3.6	ug/L		11/13/19 09:58	11/14/19 11:36	1
Hexachloroethane	2.0	U	2.0	0.80	ug/L		11/13/19 09:58	11/14/19 11:36	1
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	0.94	ug/L		11/13/19 09:58	11/14/19 11:36	1
Isophorone	10	U	10	0.80	ug/L		11/13/19 09:58	11/14/19 11:36	1
Naphthalene	10	U	10	1.1	ug/L		11/13/19 09:58	11/14/19 11:36	1
Nitrobenzene	1.0	U	1.0	0.57	ug/L		11/13/19 09:58	11/14/19 11:36	1
N-Nitrosodi-n-propylamine	1.0	U	1.0	0.43	ug/L		11/13/19 09:58	11/14/19 11:36	1
N-Nitrosodiphenylamine	10	U	10	0.89	ug/L		11/13/19 09:58	11/14/19 11:36	1
Pentachlorophenol	20	U	20	1.4	ug/L		11/13/19 09:58	11/14/19 11:36	1
Phenanthrene	10	U	10	0.58	ug/L		11/13/19 09:58	11/14/19 11:36	1
Phenol	10	U	10	0.29	ug/L		11/13/19 09:58	11/14/19 11:36	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196258-1

Client Sample ID: WSG-MW5-13-0

Lab Sample ID: 460-196258-9

Date Collected: 11/07/19 12:00

Matrix: Water

Date Received: 11/08/19 20:00

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pyrene	10	U	10	1.6	ug/L		11/13/19 09:58	11/14/19 11:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	98		26 - 139				11/13/19 09:58	11/14/19 11:36	1
2-Fluorobiphenyl	77		45 - 107				11/13/19 09:58	11/14/19 11:36	1
2-Fluorophenol (Surr)	41		25 - 58				11/13/19 09:58	11/14/19 11:36	1
Nitrobenzene-d5 (Surr)	88		51 - 108				11/13/19 09:58	11/14/19 11:36	1
Phenol-d5 (Surr)	26		14 - 39				11/13/19 09:58	11/14/19 11:36	1
Terphenyl-d14 (Surr)	72		40 - 148				11/13/19 09:58	11/14/19 11:36	1

Method: 608.3 - Organochlorine Pesticides/PCBs in Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.020	U	0.020	0.012	ug/L		11/12/19 16:57	11/18/19 12:53	1
alpha-BHC	0.020	U	0.020	0.013	ug/L		11/12/19 16:57	11/18/19 12:53	1
beta-BHC	0.030	U	0.030	0.015	ug/L		11/12/19 16:57	11/18/19 12:53	1
delta-BHC	0.020	U	0.020	0.0090	ug/L		11/12/19 16:57	11/18/19 12:53	1
gamma-BHC (Lindane)	0.030	U	0.030	0.013	ug/L		11/12/19 16:57	11/18/19 12:53	1
Chlordane	0.50	U	0.50	0.093	ug/L		11/12/19 16:57	11/18/19 12:53	1
4,4'-DDD	0.040	U	0.040	0.018	ug/L		11/12/19 16:57	11/18/19 12:53	1
4,4'-DDE	0.030	U	0.030	0.018	ug/L		11/12/19 16:57	11/18/19 12:53	1
4,4'-DDT	0.030	U	0.030	0.025	ug/L		11/12/19 16:57	11/18/19 12:53	1
Dieldrin	0.020	U	0.020	0.016	ug/L		11/12/19 16:57	11/18/19 12:53	1
Endosulfan I	0.030	U	0.030	0.014	ug/L		11/12/19 16:57	11/18/19 12:53	1
Endosulfan II	0.030	U	0.030	0.017	ug/L		11/12/19 16:57	11/18/19 12:53	1
Endosulfan sulfate	0.030	U *	0.030	0.015	ug/L		11/12/19 16:57	11/18/19 12:53	1
Endrin	0.030	U *	0.030	0.021	ug/L		11/12/19 16:57	11/18/19 12:53	1
Endrin aldehyde	0.030	U	0.030	0.024	ug/L		11/12/19 16:57	11/18/19 12:53	1
Endrin ketone	0.030	U	0.030	0.013	ug/L		11/12/19 16:57	11/18/19 12:53	1
Heptachlor	0.030	U	0.030	0.014	ug/L		11/12/19 16:57	11/18/19 12:53	1
Heptachlor epoxide	0.030	U	0.030	0.014	ug/L		11/12/19 16:57	11/18/19 12:53	1
Methoxychlor	0.030	U	0.030	0.030	ug/L		11/12/19 16:57	11/18/19 12:53	1
Toxaphene	0.50	U	0.50	0.20	ug/L		11/12/19 16:57	11/18/19 12:53	1
Aroclor 1016	1.0	U	1.0	0.030	ug/L		11/12/19 16:57	11/18/19 12:53	1
Aroclor 1221	1.0	U	1.0	0.030	ug/L		11/12/19 16:57	11/18/19 12:53	1
Aroclor 1232	1.0	U	1.0	0.030	ug/L		11/12/19 16:57	11/18/19 12:53	1
Aroclor 1242	1.0	U	1.0	0.030	ug/L		11/12/19 16:57	11/18/19 12:53	1
Aroclor 1248	1.0	U	1.0	0.030	ug/L		11/12/19 16:57	11/18/19 12:53	1
Aroclor 1254	1.0	U	1.0	0.037	ug/L		11/12/19 16:57	11/18/19 12:53	1
Aroclor 1260	1.0	U	1.0	0.037	ug/L		11/12/19 16:57	11/18/19 12:53	1
Aroclor 1262	1.0	U	1.0	0.037	ug/L		11/12/19 16:57	11/18/19 12:53	1
Aroclor 1268	1.0	U	1.0	0.037	ug/L		11/12/19 16:57	11/18/19 12:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	81		10 - 150				11/12/19 16:57	11/18/19 12:53	1
Tetrachloro-m-xylene	84		10 - 150				11/12/19 16:57	11/18/19 12:53	1
DCB Decachlorobiphenyl	42		10 - 150				11/12/19 16:57	11/18/19 12:53	1
DCB Decachlorobiphenyl	62		10 - 150				11/12/19 16:57	11/18/19 12:53	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196258-1

Client Sample ID: WSG-MW5-13-0

Lab Sample ID: 460-196258-9

Date Collected: 11/07/19 12:00

Matrix: Water

Date Received: 11/08/19 20:00

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	1.2	U	1.2	0.13	ug/L		11/13/19 23:40	11/14/19 19:16	1
Silvex (2,4,5-TP)	1.2	U	1.2	0.11	ug/L		11/13/19 23:40	11/14/19 19:16	1
2,4,5-T	1.2	U	1.2	0.12	ug/L		11/13/19 23:40	11/14/19 19:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	91		54 - 150	11/13/19 23:40	11/14/19 19:16	1
2,4-Dichlorophenylacetic acid	95		54 - 150	11/13/19 23:40	11/14/19 19:16	1

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	12.0		1.93	0.56	ng/L		11/16/19 07:36	11/18/19 11:45	1
Perfluoroheptanoic acid (PFHpA)	2.95		1.93	0.24	ng/L		11/16/19 07:36	11/18/19 11:45	1
Perfluorooctanoic acid (PFOA)	69.4		1.93	0.82	ng/L		11/16/19 07:36	11/18/19 11:45	1
Perfluorononanoic acid (PFNA)	1.64	J	1.93	0.26	ng/L		11/16/19 07:36	11/18/19 11:45	1
Perfluorodecanoic acid (PFDA)	1.93	U	1.93	0.30	ng/L		11/16/19 07:36	11/18/19 11:45	1
Perfluoroundecanoic acid (PFUnA)	1.93	U	1.93	1.06	ng/L		11/16/19 07:36	11/18/19 11:45	1
Perfluorododecanoic acid (PFDoA)	1.93	U	1.93	0.53	ng/L		11/16/19 07:36	11/18/19 11:45	1
Perfluorotridecanoic acid (PFTriA)	1.93	U	1.93	1.26	ng/L		11/16/19 07:36	11/18/19 11:45	1
Perfluorotetradecanoic acid (PFTeA)	1.93	U	1.93	0.28	ng/L		11/16/19 07:36	11/18/19 11:45	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanesulfonic acid (PFBS)	4.58		1.93	0.19	ng/L		11/16/19 07:36	11/18/19 11:45	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	19.3	U	19.3	1.83	ng/L		11/16/19 07:36	11/18/19 11:45	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	19.3	U	19.3	2.99	ng/L		11/16/19 07:36	11/18/19 11:45	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFHxA	109		25 - 150	11/16/19 07:36	11/18/19 11:45	1
13C4 PFHpA	110		25 - 150	11/16/19 07:36	11/18/19 11:45	1
13C4 PFOA	108		25 - 150	11/16/19 07:36	11/18/19 11:45	1
13C5 PFNA	103		25 - 150	11/16/19 07:36	11/18/19 11:45	1
13C2 PFDA	102		25 - 150	11/16/19 07:36	11/18/19 11:45	1
13C2 PFUnA	108		25 - 150	11/16/19 07:36	11/18/19 11:45	1
13C2 PFDoA	107		25 - 150	11/16/19 07:36	11/18/19 11:45	1
13C2 PFTeDA	100		25 - 150	11/16/19 07:36	11/18/19 11:45	1
d3-NMeFOSAA	92		25 - 150	11/16/19 07:36	11/18/19 11:45	1
d5-NEtFOSAA	101		25 - 150	11/16/19 07:36	11/18/19 11:45	1

Method: 537 (modified) - Fluorinated Alkyl Substances - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanesulfonic acid (PFHxS)	566	B	9.66	0.82	ng/L		11/16/19 07:36	11/29/19 23:16	5
Perfluorooctanesulfonic acid (PFOS)	877		9.66	2.61	ng/L		11/16/19 07:36	11/29/19 23:16	5

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
18O2 PFHxS	102		25 - 150	11/16/19 07:36	11/29/19 23:16	5
13C4 PFOS	91		25 - 150	11/16/19 07:36	11/29/19 23:16	5

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	150	U	150	34.2	ug/L		11/19/19 07:16	11/20/19 11:18	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196258-1

Client Sample ID: WSG-MW5-13-0

Lab Sample ID: 460-196258-9

Date Collected: 11/07/19 12:00

Matrix: Water

Date Received: 11/08/19 20:00

Method: 6010D - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	10.0	U	10.0	1.1	ug/L		11/19/19 07:16	11/20/19 11:18	1
Aluminum	70.6	J	200	28.6	ug/L		11/19/19 07:16	11/20/19 11:18	1
Arsenic	15.0	U	15.0	2.7	ug/L		11/19/19 07:16	11/20/19 11:18	1
Boron	42.1	J	50.0	12.7	ug/L		11/19/19 07:16	11/20/19 11:18	1
Barium	28.6	J	200	7.7	ug/L		11/19/19 07:16	11/20/19 11:18	1
Beryllium	2.0	U	2.0	0.23	ug/L		11/19/19 07:16	11/20/19 11:18	1
Calcium	8430		5000	222	ug/L		11/19/19 07:16	11/20/19 11:18	1
Cadmium	4.0	U	4.0	0.22	ug/L		11/19/19 07:16	11/20/19 11:18	1
Cobalt	50.0	U	50.0	1.7	ug/L		11/19/19 07:16	11/20/19 11:18	1
Chromium	10.0	U	10.0	1.3	ug/L		11/19/19 07:16	11/20/19 11:18	1
Copper	25.0	U	25.0	5.1	ug/L		11/19/19 07:16	11/20/19 11:18	1
Potassium	1350	J	5000	323	ug/L		11/19/19 07:16	11/20/19 11:18	1
Magnesium	2530	J	5000	177	ug/L		11/19/19 07:16	11/20/19 11:18	1
Manganese	12.9	J	15.0	0.99	ug/L		11/19/19 07:16	11/20/19 11:18	1
Molybdenum	20.0	U	20.0	3.3	ug/L		11/19/19 07:16	11/20/19 11:18	1
Sodium	46700		5000	460	ug/L		11/19/19 07:16	11/20/19 11:18	1
Nickel	40.0	U	40.0	1.7	ug/L		11/19/19 07:16	11/20/19 11:18	1
Lead	10.0	U	10.0	2.5	ug/L		11/19/19 07:16	11/20/19 11:18	1
Antimony	20.0	U	20.0	2.9	ug/L		11/19/19 07:16	11/20/19 11:18	1
Selenium	20.0	U	20.0	6.6	ug/L		11/19/19 07:16	11/20/19 11:18	1
Tin	50.0	U	50.0	2.4	ug/L		11/19/19 07:16	11/20/19 11:18	1
Strontium	37.8		20.0	0.70	ug/L		11/19/19 07:16	11/20/19 11:18	1
Titanium	20.0	U	20.0	2.0	ug/L		11/19/19 07:16	11/20/19 11:18	1
Thallium	20.0	U	20.0	5.4	ug/L		11/19/19 07:16	11/20/19 11:18	1
Vanadium	50.0	U	50.0	2.5	ug/L		11/19/19 07:16	11/20/19 11:18	1
Zinc	6.1	J	30.0	3.6	ug/L		11/19/19 07:16	11/20/19 11:18	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.12	ug/L		11/20/19 11:53	11/20/19 13:27	1

Client Sample ID: WSG-GW3-18-0

Lab Sample ID: 460-196258-10

Date Collected: 11/07/19 12:25

Matrix: Water

Date Received: 11/08/19 20:00

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	2.81		1.91	0.55	ng/L		11/16/19 07:36	11/18/19 11:54	1
Perfluoroheptanoic acid (PFHpA)	0.99	J	1.91	0.24	ng/L		11/16/19 07:36	11/18/19 11:54	1
Perfluorooctanoic acid (PFOA)	2.45		1.91	0.81	ng/L		11/16/19 07:36	11/18/19 11:54	1
Perfluorononanoic acid (PFNA)	2.43		1.91	0.26	ng/L		11/16/19 07:36	11/18/19 11:54	1
Perfluorodecanoic acid (PFDA)	1.91	U	1.91	0.30	ng/L		11/16/19 07:36	11/18/19 11:54	1
Perfluoroundecanoic acid (PFUnA)	1.91	U	1.91	1.05	ng/L		11/16/19 07:36	11/18/19 11:54	1
Perfluorododecanoic acid (PFDoA)	1.91	U	1.91	0.53	ng/L		11/16/19 07:36	11/18/19 11:54	1
Perfluorotridecanoic acid (PFTriA)	1.91	U	1.91	1.24	ng/L		11/16/19 07:36	11/18/19 11:54	1
Perfluorotetradecanoic acid (PFTeA)	0.35	J	1.91	0.28	ng/L		11/16/19 07:36	11/18/19 11:54	1
Perfluorobutanesulfonic acid (PFBS)	4.35		1.91	0.19	ng/L		11/16/19 07:36	11/18/19 11:54	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196258-1

Client Sample ID: WSG-GW3-18-0

Lab Sample ID: 460-196258-10

Date Collected: 11/07/19 12:25

Matrix: Water

Date Received: 11/08/19 20:00

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanesulfonic acid (PFHxS)	10.1	B	1.91	0.16	ng/L		11/16/19 07:36	11/18/19 11:54	1
Perfluorooctanesulfonic acid (PFOS)	17.5		1.91	0.52	ng/L		11/16/19 07:36	11/18/19 11:54	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	19.1	U	19.1	1.82	ng/L		11/16/19 07:36	11/18/19 11:54	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	19.1	U	19.1	2.96	ng/L		11/16/19 07:36	11/18/19 11:54	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C2 PFHxA	106		25 - 150				11/16/19 07:36	11/18/19 11:54	1
13C4 PFHpA	111		25 - 150				11/16/19 07:36	11/18/19 11:54	1
13C4 PFOA	105		25 - 150				11/16/19 07:36	11/18/19 11:54	1
13C5 PFNA	105		25 - 150				11/16/19 07:36	11/18/19 11:54	1
13C2 PFDA	99		25 - 150				11/16/19 07:36	11/18/19 11:54	1
13C2 PFUnA	101		25 - 150				11/16/19 07:36	11/18/19 11:54	1
13C2 PFDoA	102		25 - 150				11/16/19 07:36	11/18/19 11:54	1
13C2 PFTeDA	95		25 - 150				11/16/19 07:36	11/18/19 11:54	1
18O2 PFHxS	124		25 - 150				11/16/19 07:36	11/18/19 11:54	1
13C4 PFOS	101		25 - 150				11/16/19 07:36	11/18/19 11:54	1
d3-NMeFOSAA	88		25 - 150				11/16/19 07:36	11/18/19 11:54	1
d5-NEtFOSAA	96		25 - 150				11/16/19 07:36	11/18/19 11:54	1

Client Sample ID: WSG-GW3-28-0

Lab Sample ID: 460-196258-11

Date Collected: 11/07/19 11:30

Matrix: Water

Date Received: 11/08/19 20:00

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	1.89	U	1.89	0.55	ng/L		11/16/19 07:36	11/18/19 12:24	1
Perfluoroheptanoic acid (PFHpA)	0.25	J	1.89	0.24	ng/L		11/16/19 07:36	11/18/19 12:24	1
Perfluorooctanoic acid (PFOA)	0.83	J	1.89	0.80	ng/L		11/16/19 07:36	11/18/19 12:24	1
Perfluorononanoic acid (PFNA)	0.46	J	1.89	0.26	ng/L		11/16/19 07:36	11/18/19 12:24	1
Perfluorodecanoic acid (PFDA)	1.89	U	1.89	0.29	ng/L		11/16/19 07:36	11/18/19 12:24	1
Perfluoroundecanoic acid (PFUnA)	1.89	U	1.89	1.04	ng/L		11/16/19 07:36	11/18/19 12:24	1
Perfluorododecanoic acid (PFDoA)	1.89	U	1.89	0.52	ng/L		11/16/19 07:36	11/18/19 12:24	1
Perfluorotridecanoic acid (PFTriA)	1.89	U	1.89	1.23	ng/L		11/16/19 07:36	11/18/19 12:24	1
Perfluorotetradecanoic acid (PFTeA)	1.89	U	1.89	0.27	ng/L		11/16/19 07:36	11/18/19 12:24	1
Perfluorobutanesulfonic acid (PFBS)	3.80		1.89	0.19	ng/L		11/16/19 07:36	11/18/19 12:24	1
Perfluorohexanesulfonic acid (PFHxS)	4.99	B	1.89	0.16	ng/L		11/16/19 07:36	11/18/19 12:24	1
Perfluorooctanesulfonic acid (PFOS)	2.79		1.89	0.51	ng/L		11/16/19 07:36	11/18/19 12:24	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	18.9	U	18.9	1.80	ng/L		11/16/19 07:36	11/18/19 12:24	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	18.9	U	18.9	2.93	ng/L		11/16/19 07:36	11/18/19 12:24	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C2 PFHxA	101		25 - 150				11/16/19 07:36	11/18/19 12:24	1
13C4 PFHpA	107		25 - 150				11/16/19 07:36	11/18/19 12:24	1
13C4 PFOA	102		25 - 150				11/16/19 07:36	11/18/19 12:24	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196258-1

Client Sample ID: WSG-GW3-28-0

Lab Sample ID: 460-196258-11

Date Collected: 11/07/19 11:30

Matrix: Water

Date Received: 11/08/19 20:00

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C5 PFNA	102		25 - 150	11/16/19 07:36	11/18/19 12:24	1
13C2 PFDA	91		25 - 150	11/16/19 07:36	11/18/19 12:24	1
13C2 PFUnA	90		25 - 150	11/16/19 07:36	11/18/19 12:24	1
13C2 PFDoA	83		25 - 150	11/16/19 07:36	11/18/19 12:24	1
13C2 PFTeDA	77		25 - 150	11/16/19 07:36	11/18/19 12:24	1
18O2 PFHxS	119		25 - 150	11/16/19 07:36	11/18/19 12:24	1
13C4 PFOS	91		25 - 150	11/16/19 07:36	11/18/19 12:24	1
d3-NMeFOSAA	81		25 - 150	11/16/19 07:36	11/18/19 12:24	1
d5-NEtFOSAA	86		25 - 150	11/16/19 07:36	11/18/19 12:24	1

Client Sample ID: WSG-GW3-8-0

Lab Sample ID: 460-196258-12

Date Collected: 11/07/19 13:25

Matrix: Water

Date Received: 11/08/19 20:00

Method: 8260C - Volatile Organic Compounds by GC/MS

<i>Analyte</i>	<i>Result</i>	<i>Qualifier</i>	<i>RL</i>	<i>MDL</i>	<i>Unit</i>	<i>D</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			11/16/19 06:01	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.37	ug/L			11/16/19 06:01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			11/16/19 06:01	1
1,1,2-Trichloroethane	1.0	U	1.0	0.43	ug/L			11/16/19 06:01	1
1,1-Dichloroethane	1.0	U	1.0	0.26	ug/L			11/16/19 06:01	1
1,1-Dichloroethene	1.0	U	1.0	0.26	ug/L			11/16/19 06:01	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.37	ug/L			11/16/19 06:01	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.38	ug/L			11/16/19 06:01	1
1,2-Dichlorobenzene	1.0	U	1.0	0.43	ug/L			11/16/19 06:01	1
1,2-Dichloroethane	1.0	U	1.0	0.43	ug/L			11/16/19 06:01	1
1,2-Dichloropropane	1.0	U	1.0	0.35	ug/L			11/16/19 06:01	1
1,3-Dichlorobenzene	1.0	U	1.0	0.34	ug/L			11/16/19 06:01	1
1,4-Dichlorobenzene	1.0	U	1.0	0.33	ug/L			11/16/19 06:01	1
2-Butanone (MEK)	5.0	U	5.0	1.9	ug/L			11/16/19 06:01	1
2-Hexanone	5.0	U	5.0	1.1	ug/L			11/16/19 06:01	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	1.3	ug/L			11/16/19 06:01	1
Acetone	5.0	U	5.0	4.4	ug/L			11/16/19 06:01	1
Benzene	1.0	U	1.0	0.20	ug/L			11/16/19 06:01	1
Bromoform	1.0	U	1.0	0.54	ug/L			11/16/19 06:01	1
Bromomethane	1.0	U	1.0	0.55	ug/L			11/16/19 06:01	1
Carbon disulfide	1.0	U	1.0	0.82	ug/L			11/16/19 06:01	1
Carbon tetrachloride	1.0	U	1.0	0.21	ug/L			11/16/19 06:01	1
Chlorobenzene	1.0	U	1.0	0.38	ug/L			11/16/19 06:01	1
Chlorodibromomethane	1.0	U	1.0	0.28	ug/L			11/16/19 06:01	1
Chloroethane	1.0	U	1.0	0.32	ug/L			11/16/19 06:01	1
Chloroform	1.0	U	1.0	0.33	ug/L			11/16/19 06:01	1
Chloromethane	1.0	U	1.0	0.40	ug/L			11/16/19 06:01	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.22	ug/L			11/16/19 06:01	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.22	ug/L			11/16/19 06:01	1
Cyclohexane	1.0	U	1.0	0.32	ug/L			11/16/19 06:01	1
Dichlorobromomethane	1.0	U	1.0	0.34	ug/L			11/16/19 06:01	1
Dichlorodifluoromethane	1.0	U	1.0	0.31	ug/L			11/16/19 06:01	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			11/16/19 06:01	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196258-1

Client Sample ID: WSG-GW3-8-0

Lab Sample ID: 460-196258-12

Date Collected: 11/07/19 13:25

Matrix: Water

Date Received: 11/08/19 20:00

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide	1.0	U	1.0	0.50	ug/L			11/16/19 06:01	1
Isopropylbenzene	1.0	U	1.0	0.34	ug/L			11/16/19 06:01	1
Methyl acetate	5.0	U	5.0	0.79	ug/L			11/16/19 06:01	1
Methyl tert-butyl ether	1.0	U	1.0	0.47	ug/L			11/16/19 06:01	1
Methylcyclohexane	1.0	U	1.0	0.26	ug/L			11/16/19 06:01	1
Methylene Chloride	1.0	U	1.0	0.32	ug/L			11/16/19 06:01	1
Styrene	1.0	U	1.0	0.42	ug/L			11/16/19 06:01	1
Tetrachloroethene	1.0	U	1.0	0.25	ug/L			11/16/19 06:01	1
Toluene	1.0	U	1.0	0.38	ug/L			11/16/19 06:01	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			11/16/19 06:01	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.49	ug/L			11/16/19 06:01	1
Trichloroethene	1.0	U	1.0	0.31	ug/L			11/16/19 06:01	1
Trichlorofluoromethane	1.0	U	1.0	0.32	ug/L			11/16/19 06:01	1
Vinyl chloride	1.0	U	1.0	0.17	ug/L			11/16/19 06:01	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			11/16/19 06:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		74 - 132		11/16/19 06:01	1
4-Bromofluorobenzene	94		77 - 124		11/16/19 06:01	1
Dibromofluoromethane (Surr)	95		72 - 131		11/16/19 06:01	1
Toluene-d8 (Surr)	103		80 - 120		11/16/19 06:01	1

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.40	U	0.40	0.17	ug/L		11/13/19 09:58	11/14/19 17:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	90		38 - 125	11/13/19 09:58	11/14/19 17:28	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	10	U	10	1.2	ug/L		11/13/19 09:58	11/14/19 11:57	1
2,2'-oxybis[1-chloropropane]	10	U	10	0.63	ug/L		11/13/19 09:58	11/14/19 11:57	1
2,4,5-Trichlorophenol	10	U	10	0.88	ug/L		11/13/19 09:58	11/14/19 11:57	1
2,4,6-Trichlorophenol	10	U	10	0.86	ug/L		11/13/19 09:58	11/14/19 11:57	1
2,4-Dichlorophenol	10	U	10	1.1	ug/L		11/13/19 09:58	11/14/19 11:57	1
2,4-Dimethylphenol	10	U	10	0.62	ug/L		11/13/19 09:58	11/14/19 11:57	1
2,4-Dinitrophenol	20	U	20	14	ug/L		11/13/19 09:58	11/14/19 11:57	1
2,4-Dinitrotoluene	2.0	U	2.0	1.0	ug/L		11/13/19 09:58	11/14/19 11:57	1
2,6-Dinitrotoluene	2.0	U	2.0	0.83	ug/L		11/13/19 09:58	11/14/19 11:57	1
2-Chloronaphthalene	10	U	10	1.2	ug/L		11/13/19 09:58	11/14/19 11:57	1
2-Chlorophenol	10	U	10	0.38	ug/L		11/13/19 09:58	11/14/19 11:57	1
2-Methylnaphthalene	10	U	10	1.1	ug/L		11/13/19 09:58	11/14/19 11:57	1
2-Methylphenol	10	U	10	0.67	ug/L		11/13/19 09:58	11/14/19 11:57	1
2-Nitroaniline	10	U	10	0.47	ug/L		11/13/19 09:58	11/14/19 11:57	1
2-Nitrophenol	10	U	10	0.75	ug/L		11/13/19 09:58	11/14/19 11:57	1
3,3'-Dichlorobenzidine	10	U *	10	1.4	ug/L		11/13/19 09:58	11/14/19 11:57	1
3-Nitroaniline	10	U	10	1.9	ug/L		11/13/19 09:58	11/14/19 11:57	1
4,6-Dinitro-2-methylphenol	20	U	20	13	ug/L		11/13/19 09:58	11/14/19 11:57	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196258-1

Client Sample ID: WSG-GW3-8-0

Lab Sample ID: 460-196258-12

Date Collected: 11/07/19 13:25

Matrix: Water

Date Received: 11/08/19 20:00

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Bromophenyl phenyl ether	10	U	10	0.75	ug/L		11/13/19 09:58	11/14/19 11:57	1
4-Chloro-3-methylphenol	10	U	10	0.58	ug/L		11/13/19 09:58	11/14/19 11:57	1
4-Chloroaniline	10	U	10	1.9	ug/L		11/13/19 09:58	11/14/19 11:57	1
4-Chlorophenyl phenyl ether	10	U	10	1.3	ug/L		11/13/19 09:58	11/14/19 11:57	1
4-Methylphenol	10	U	10	0.65	ug/L		11/13/19 09:58	11/14/19 11:57	1
4-Nitroaniline	10	U	10	1.2	ug/L		11/13/19 09:58	11/14/19 11:57	1
4-Nitrophenol	20	U	20	4.0	ug/L		11/13/19 09:58	11/14/19 11:57	1
Acenaphthene	10	U	10	1.1	ug/L		11/13/19 09:58	11/14/19 11:57	1
Acenaphthylene	10	U	10	0.82	ug/L		11/13/19 09:58	11/14/19 11:57	1
Acetophenone	10	U	10	2.3	ug/L		11/13/19 09:58	11/14/19 11:57	1
Anthracene	10	U	10	0.63	ug/L		11/13/19 09:58	11/14/19 11:57	1
Atrazine	2.0	U *	2.0	1.3	ug/L		11/13/19 09:58	11/14/19 11:57	1
Benzaldehyde	10	U	10	2.1	ug/L		11/13/19 09:58	11/14/19 11:57	1
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		11/13/19 09:58	11/14/19 11:57	1
Benzo[a]pyrene	1.0	U	1.0	0.41	ug/L		11/13/19 09:58	11/14/19 11:57	1
Benzo[b]fluoranthene	2.0	U	2.0	0.68	ug/L		11/13/19 09:58	11/14/19 11:57	1
Benzo[g,h,i]perylene	10	U	10	1.4	ug/L		11/13/19 09:58	11/14/19 11:57	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		11/13/19 09:58	11/14/19 11:57	1
Bis(2-chloroethoxy)methane	10	U	10	0.59	ug/L		11/13/19 09:58	11/14/19 11:57	1
Bis(2-chloroethyl)ether	1.0	U	1.0	0.63	ug/L		11/13/19 09:58	11/14/19 11:57	1
Bis(2-ethylhexyl) phthalate	2.0	U	2.0	1.7	ug/L		11/13/19 09:58	11/14/19 11:57	1
Butyl benzyl phthalate	10	U	10	0.85	ug/L		11/13/19 09:58	11/14/19 11:57	1
Caprolactam	10	U *	10	0.68	ug/L		11/13/19 09:58	11/14/19 11:57	1
Carbazole	10	U	10	0.68	ug/L		11/13/19 09:58	11/14/19 11:57	1
Chrysene	2.0	U	2.0	0.91	ug/L		11/13/19 09:58	11/14/19 11:57	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		11/13/19 09:58	11/14/19 11:57	1
Dibenzofuran	10	U	10	1.1	ug/L		11/13/19 09:58	11/14/19 11:57	1
Diethyl phthalate	10	U	10	0.98	ug/L		11/13/19 09:58	11/14/19 11:57	1
Dimethyl phthalate	10	U	10	0.77	ug/L		11/13/19 09:58	11/14/19 11:57	1
Di-n-butyl phthalate	10	U	10	0.84	ug/L		11/13/19 09:58	11/14/19 11:57	1
Di-n-octyl phthalate	10	U	10	4.8	ug/L		11/13/19 09:58	11/14/19 11:57	1
Fluoranthene	10	U	10	0.84	ug/L		11/13/19 09:58	11/14/19 11:57	1
Fluorene	10	U	10	0.91	ug/L		11/13/19 09:58	11/14/19 11:57	1
Hexachlorobenzene	1.0	U	1.0	0.40	ug/L		11/13/19 09:58	11/14/19 11:57	1
Hexachlorobutadiene	1.0	U	1.0	0.78	ug/L		11/13/19 09:58	11/14/19 11:57	1
Hexachlorocyclopentadiene	10	U	10	3.6	ug/L		11/13/19 09:58	11/14/19 11:57	1
Hexachloroethane	2.0	U	2.0	0.80	ug/L		11/13/19 09:58	11/14/19 11:57	1
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	0.94	ug/L		11/13/19 09:58	11/14/19 11:57	1
Isophorone	10	U	10	0.80	ug/L		11/13/19 09:58	11/14/19 11:57	1
Naphthalene	10	U	10	1.1	ug/L		11/13/19 09:58	11/14/19 11:57	1
Nitrobenzene	1.0	U	1.0	0.57	ug/L		11/13/19 09:58	11/14/19 11:57	1
N-Nitrosodi-n-propylamine	1.0	U	1.0	0.43	ug/L		11/13/19 09:58	11/14/19 11:57	1
N-Nitrosodiphenylamine	10	U	10	0.89	ug/L		11/13/19 09:58	11/14/19 11:57	1
Pentachlorophenol	20	U	20	1.4	ug/L		11/13/19 09:58	11/14/19 11:57	1
Phenanthrene	10	U	10	0.58	ug/L		11/13/19 09:58	11/14/19 11:57	1
Phenol	10	U	10	0.29	ug/L		11/13/19 09:58	11/14/19 11:57	1
Pyrene	10	U	10	1.6	ug/L		11/13/19 09:58	11/14/19 11:57	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196258-1

Client Sample ID: WSG-GW3-8-0

Lab Sample ID: 460-196258-12

Date Collected: 11/07/19 13:25

Matrix: Water

Date Received: 11/08/19 20:00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	89		26 - 139	11/13/19 09:58	11/14/19 11:57	1
2-Fluorobiphenyl	74		45 - 107	11/13/19 09:58	11/14/19 11:57	1
2-Fluorophenol (Surr)	37		25 - 58	11/13/19 09:58	11/14/19 11:57	1
Nitrobenzene-d5 (Surr)	81		51 - 108	11/13/19 09:58	11/14/19 11:57	1
Phenol-d5 (Surr)	24		14 - 39	11/13/19 09:58	11/14/19 11:57	1
Terphenyl-d14 (Surr)	56		40 - 148	11/13/19 09:58	11/14/19 11:57	1

Method: 608.3 - Organochlorine Pesticides/PCBs in Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.020	U	0.020	0.012	ug/L		11/12/19 16:57	11/18/19 13:42	1
alpha-BHC	0.020	U	0.020	0.013	ug/L		11/12/19 16:57	11/18/19 13:42	1
beta-BHC	0.030	U	0.030	0.015	ug/L		11/12/19 16:57	11/18/19 13:42	1
delta-BHC	0.020	U	0.020	0.0090	ug/L		11/12/19 16:57	11/18/19 13:42	1
gamma-BHC (Lindane)	0.030	U	0.030	0.013	ug/L		11/12/19 16:57	11/18/19 13:42	1
Chlordane	0.50	U	0.50	0.093	ug/L		11/12/19 16:57	11/18/19 13:42	1
4,4'-DDD	0.040	U	0.040	0.018	ug/L		11/12/19 16:57	11/18/19 13:42	1
4,4'-DDE	0.030	U	0.030	0.018	ug/L		11/12/19 16:57	11/18/19 13:42	1
4,4'-DDT	0.030	U	0.030	0.025	ug/L		11/12/19 16:57	11/18/19 13:42	1
Dieldrin	0.020	U	0.020	0.016	ug/L		11/12/19 16:57	11/18/19 13:42	1
Endosulfan I	0.030	U	0.030	0.014	ug/L		11/12/19 16:57	11/18/19 13:42	1
Endosulfan II	0.030	U	0.030	0.017	ug/L		11/12/19 16:57	11/18/19 13:42	1
Endosulfan sulfate	0.030	U *	0.030	0.015	ug/L		11/12/19 16:57	11/18/19 13:42	1
Endrin	0.030	U *	0.030	0.021	ug/L		11/12/19 16:57	11/18/19 13:42	1
Endrin aldehyde	0.030	U	0.030	0.024	ug/L		11/12/19 16:57	11/18/19 13:42	1
Endrin ketone	0.030	U	0.030	0.013	ug/L		11/12/19 16:57	11/18/19 13:42	1
Heptachlor	0.030	U	0.030	0.014	ug/L		11/12/19 16:57	11/18/19 13:42	1
Heptachlor epoxide	0.030	U	0.030	0.014	ug/L		11/12/19 16:57	11/18/19 13:42	1
Methoxychlor	0.030	U	0.030	0.030	ug/L		11/12/19 16:57	11/18/19 13:42	1
Toxaphene	0.50	U	0.50	0.20	ug/L		11/12/19 16:57	11/18/19 13:42	1
Aroclor 1016	1.0	U	1.0	0.030	ug/L		11/12/19 16:57	11/18/19 13:42	1
Aroclor 1221	1.0	U	1.0	0.030	ug/L		11/12/19 16:57	11/18/19 13:42	1
Aroclor 1232	1.0	U	1.0	0.030	ug/L		11/12/19 16:57	11/18/19 13:42	1
Aroclor 1242	1.0	U	1.0	0.030	ug/L		11/12/19 16:57	11/18/19 13:42	1
Aroclor 1248	1.0	U	1.0	0.030	ug/L		11/12/19 16:57	11/18/19 13:42	1
Aroclor 1254	1.0	U	1.0	0.037	ug/L		11/12/19 16:57	11/18/19 13:42	1
Aroclor 1260	1.0	U	1.0	0.037	ug/L		11/12/19 16:57	11/18/19 13:42	1
Aroclor 1262	1.0	U	1.0	0.037	ug/L		11/12/19 16:57	11/18/19 13:42	1
Aroclor 1268	1.0	U	1.0	0.037	ug/L		11/12/19 16:57	11/18/19 13:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	69		10 - 150	11/12/19 16:57	11/18/19 13:42	1
Tetrachloro-m-xylene	69		10 - 150	11/12/19 16:57	11/18/19 13:42	1
DCB Decachlorobiphenyl	48		10 - 150	11/12/19 16:57	11/18/19 13:42	1
DCB Decachlorobiphenyl	53		10 - 150	11/12/19 16:57	11/18/19 13:42	1

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	1.2	U	1.2	0.13	ug/L		11/13/19 23:40	11/14/19 19:30	1
Silvex (2,4,5-TP)	1.2	U	1.2	0.11	ug/L		11/13/19 23:40	11/14/19 19:30	1
2,4,5-T	1.2	U	1.2	0.12	ug/L		11/13/19 23:40	11/14/19 19:30	1

Eurofins TestAmerica, Edison

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196258-1

Client Sample ID: WSG-GW3-8-0

Lab Sample ID: 460-196258-12

Date Collected: 11/07/19 13:25

Matrix: Water

Date Received: 11/08/19 20:00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	85		54 - 150	11/13/19 23:40	11/14/19 19:30	1
2,4-Dichlorophenylacetic acid	88		54 - 150	11/13/19 23:40	11/14/19 19:30	1

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	6.68		1.90	0.55	ng/L		11/16/19 07:36	11/18/19 12:33	1
Perfluoroheptanoic acid (PFHpA)	3.29		1.90	0.24	ng/L		11/16/19 07:36	11/18/19 12:33	1
Perfluorooctanoic acid (PFOA)	5.70		1.90	0.81	ng/L		11/16/19 07:36	11/18/19 12:33	1
Perfluorononanoic acid (PFNA)	2.40		1.90	0.26	ng/L		11/16/19 07:36	11/18/19 12:33	1
Perfluorodecanoic acid (PFDA)	1.90	U	1.90	0.30	ng/L		11/16/19 07:36	11/18/19 12:33	1
Perfluoroundecanoic acid (PFUnA)	1.90	U	1.90	1.05	ng/L		11/16/19 07:36	11/18/19 12:33	1
Perfluorododecanoic acid (PFDoA)	1.90	U	1.90	0.52	ng/L		11/16/19 07:36	11/18/19 12:33	1
Perfluorotridecanoic acid (PFTriA)	1.90	U	1.90	1.24	ng/L		11/16/19 07:36	11/18/19 12:33	1
Perfluorotetradecanoic acid (PFTeA)	1.90	U	1.90	0.28	ng/L		11/16/19 07:36	11/18/19 12:33	1
Perfluorobutanesulfonic acid (PFBS)	4.15		1.90	0.19	ng/L		11/16/19 07:36	11/18/19 12:33	1
Perfluorohexanesulfonic acid (PFHxS)	21.4	B	1.90	0.16	ng/L		11/16/19 07:36	11/18/19 12:33	1
Perfluorooctanesulfonic acid (PFOS)	33.6		1.90	0.51	ng/L		11/16/19 07:36	11/18/19 12:33	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	19.0	U	19.0	1.81	ng/L		11/16/19 07:36	11/18/19 12:33	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	19.0	U	19.0	2.95	ng/L		11/16/19 07:36	11/18/19 12:33	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFHxA	105		25 - 150	11/16/19 07:36	11/18/19 12:33	1
13C4 PFHpA	111		25 - 150	11/16/19 07:36	11/18/19 12:33	1
13C4 PFOA	107		25 - 150	11/16/19 07:36	11/18/19 12:33	1
13C5 PFNA	100		25 - 150	11/16/19 07:36	11/18/19 12:33	1
13C2 PFDA	98		25 - 150	11/16/19 07:36	11/18/19 12:33	1
13C2 PFUnA	98		25 - 150	11/16/19 07:36	11/18/19 12:33	1
13C2 PFDoA	100		25 - 150	11/16/19 07:36	11/18/19 12:33	1
13C2 PFTeDA	95		25 - 150	11/16/19 07:36	11/18/19 12:33	1
18O2 PFHxS	115		25 - 150	11/16/19 07:36	11/18/19 12:33	1
13C4 PFOS	94		25 - 150	11/16/19 07:36	11/18/19 12:33	1
d3-NMeFOSAA	86		25 - 150	11/16/19 07:36	11/18/19 12:33	1
d5-NEtFOSAA	96		25 - 150	11/16/19 07:36	11/18/19 12:33	1

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	15000		150	34.2	ug/L		11/19/19 07:16	11/20/19 12:42	1
Silver	10.0	U	10.0	1.1	ug/L		11/19/19 07:16	11/20/19 12:42	1
Aluminum	146	J	200	28.6	ug/L		11/19/19 07:16	11/20/19 12:42	1
Arsenic	4.5	J	15.0	2.7	ug/L		11/19/19 07:16	11/20/19 12:42	1
Boron	28.3	J	50.0	12.7	ug/L		11/19/19 07:16	11/20/19 12:42	1
Barium	21.9	J	200	7.7	ug/L		11/19/19 07:16	11/20/19 12:42	1
Beryllium	2.0	U	2.0	0.23	ug/L		11/19/19 07:16	11/20/19 12:42	1
Calcium	24000		5000	222	ug/L		11/19/19 07:16	11/20/19 12:42	1
Cadmium	4.0	U	4.0	0.22	ug/L		11/19/19 07:16	11/20/19 12:42	1
Cobalt	3.2	J	50.0	1.7	ug/L		11/19/19 07:16	11/20/19 12:42	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196258-1

Client Sample ID: WSG-GW3-8-0

Lab Sample ID: 460-196258-12

Date Collected: 11/07/19 13:25

Matrix: Water

Date Received: 11/08/19 20:00

Method: 6010D - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	1.8	J	10.0	1.3	ug/L		11/19/19 07:16	11/20/19 12:42	1
Copper	25.0	U	25.0	5.1	ug/L		11/19/19 07:16	11/20/19 12:42	1
Potassium	3840	J	5000	323	ug/L		11/19/19 07:16	11/20/19 12:42	1
Magnesium	5050		5000	177	ug/L		11/19/19 07:16	11/20/19 12:42	1
Manganese	1970		15.0	0.99	ug/L		11/19/19 07:16	11/20/19 12:42	1
Molybdenum	20.0	U	20.0	3.3	ug/L		11/19/19 07:16	11/20/19 12:42	1
Sodium	14900		5000	460	ug/L		11/19/19 07:16	11/20/19 12:42	1
Nickel	7.1	J	40.0	1.7	ug/L		11/19/19 07:16	11/20/19 12:42	1
Lead	10.0	U	10.0	2.5	ug/L		11/19/19 07:16	11/20/19 12:42	1
Antimony	20.0	U	20.0	2.9	ug/L		11/19/19 07:16	11/20/19 12:42	1
Selenium	20.0	U	20.0	6.6	ug/L		11/19/19 07:16	11/20/19 12:42	1
Tin	50.0	U	50.0	2.4	ug/L		11/19/19 07:16	11/20/19 12:42	1
Strontium	101		20.0	0.70	ug/L		11/19/19 07:16	11/20/19 12:42	1
Titanium	5.3	J	20.0	2.0	ug/L		11/19/19 07:16	11/20/19 12:42	1
Thallium	20.0	U	20.0	5.4	ug/L		11/19/19 07:16	11/20/19 12:42	1
Vanadium	50.0	U	50.0	2.5	ug/L		11/19/19 07:16	11/20/19 12:42	1
Zinc	9.8	J	30.0	3.6	ug/L		11/19/19 07:16	11/20/19 12:42	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.12	ug/L		11/20/19 11:53	11/20/19 13:29	1

Client Sample ID: WSG-EB-MW-20191107

Lab Sample ID: 460-196258-13

Date Collected: 11/07/19 13:15

Matrix: Water

Date Received: 11/08/19 20:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			11/16/19 06:26	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.37	ug/L			11/16/19 06:26	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			11/16/19 06:26	1
1,1,2-Trichloroethane	1.0	U	1.0	0.43	ug/L			11/16/19 06:26	1
1,1-Dichloroethane	1.0	U	1.0	0.26	ug/L			11/16/19 06:26	1
1,1-Dichloroethene	1.0	U	1.0	0.26	ug/L			11/16/19 06:26	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.37	ug/L			11/16/19 06:26	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.38	ug/L			11/16/19 06:26	1
1,2-Dichlorobenzene	1.0	U	1.0	0.43	ug/L			11/16/19 06:26	1
1,2-Dichloroethane	1.0	U	1.0	0.43	ug/L			11/16/19 06:26	1
1,2-Dichloropropane	1.0	U	1.0	0.35	ug/L			11/16/19 06:26	1
1,3-Dichlorobenzene	1.0	U	1.0	0.34	ug/L			11/16/19 06:26	1
1,4-Dichlorobenzene	1.0	U	1.0	0.33	ug/L			11/16/19 06:26	1
2-Butanone (MEK)	5.0	U	5.0	1.9	ug/L			11/16/19 06:26	1
2-Hexanone	5.0	U	5.0	1.1	ug/L			11/16/19 06:26	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	1.3	ug/L			11/16/19 06:26	1
Acetone	5.0	U	5.0	4.4	ug/L			11/16/19 06:26	1
Benzene	1.0	U	1.0	0.20	ug/L			11/16/19 06:26	1
Bromoform	1.0	U	1.0	0.54	ug/L			11/16/19 06:26	1
Bromomethane	1.0	U	1.0	0.55	ug/L			11/16/19 06:26	1
Carbon disulfide	1.0	U	1.0	0.82	ug/L			11/16/19 06:26	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196258-1

Client Sample ID: WSG-EB-MW-20191107

Lab Sample ID: 460-196258-13

Date Collected: 11/07/19 13:15

Matrix: Water

Date Received: 11/08/19 20:00

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	1.0	U	1.0	0.21	ug/L			11/16/19 06:26	1
Chlorobenzene	1.0	U	1.0	0.38	ug/L			11/16/19 06:26	1
Chlorodibromomethane	1.0	U	1.0	0.28	ug/L			11/16/19 06:26	1
Chloroethane	1.0	U	1.0	0.32	ug/L			11/16/19 06:26	1
Chloroform	1.0	U	1.0	0.33	ug/L			11/16/19 06:26	1
Chloromethane	1.0	U	1.0	0.40	ug/L			11/16/19 06:26	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.22	ug/L			11/16/19 06:26	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.22	ug/L			11/16/19 06:26	1
Cyclohexane	1.0	U	1.0	0.32	ug/L			11/16/19 06:26	1
Dichlorobromomethane	1.0	U	1.0	0.34	ug/L			11/16/19 06:26	1
Dichlorodifluoromethane	1.0	U	1.0	0.31	ug/L			11/16/19 06:26	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			11/16/19 06:26	1
Ethylene Dibromide	1.0	U	1.0	0.50	ug/L			11/16/19 06:26	1
Isopropylbenzene	1.0	U	1.0	0.34	ug/L			11/16/19 06:26	1
Methyl acetate	5.0	U	5.0	0.79	ug/L			11/16/19 06:26	1
Methyl tert-butyl ether	1.0	U	1.0	0.47	ug/L			11/16/19 06:26	1
Methylcyclohexane	1.0	U	1.0	0.26	ug/L			11/16/19 06:26	1
Methylene Chloride	1.0	U	1.0	0.32	ug/L			11/16/19 06:26	1
Styrene	1.0	U	1.0	0.42	ug/L			11/16/19 06:26	1
Tetrachloroethene	1.0	U	1.0	0.25	ug/L			11/16/19 06:26	1
Toluene	1.0	U	1.0	0.38	ug/L			11/16/19 06:26	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			11/16/19 06:26	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.49	ug/L			11/16/19 06:26	1
Trichloroethene	1.0	U	1.0	0.31	ug/L			11/16/19 06:26	1
Trichlorofluoromethane	1.0	U	1.0	0.32	ug/L			11/16/19 06:26	1
Vinyl chloride	1.0	U	1.0	0.17	ug/L			11/16/19 06:26	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			11/16/19 06:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		74 - 132		11/16/19 06:26	1
4-Bromofluorobenzene	92		77 - 124		11/16/19 06:26	1
Dibromofluoromethane (Surr)	98		72 - 131		11/16/19 06:26	1
Toluene-d8 (Surr)	101		80 - 120		11/16/19 06:26	1

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.40	U	0.40	0.17	ug/L		11/13/19 09:58	11/14/19 17:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	84		38 - 125	11/13/19 09:58	11/14/19 17:49	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	10	U	10	1.2	ug/L		11/13/19 09:58	11/14/19 12:17	1
2,2'-oxybis[1-chloropropane]	10	U	10	0.63	ug/L		11/13/19 09:58	11/14/19 12:17	1
2,4,5-Trichlorophenol	10	U	10	0.88	ug/L		11/13/19 09:58	11/14/19 12:17	1
2,4,6-Trichlorophenol	10	U	10	0.86	ug/L		11/13/19 09:58	11/14/19 12:17	1
2,4-Dichlorophenol	10	U	10	1.1	ug/L		11/13/19 09:58	11/14/19 12:17	1
2,4-Dimethylphenol	10	U	10	0.62	ug/L		11/13/19 09:58	11/14/19 12:17	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196258-1

Client Sample ID: WSG-EB-MW-20191107

Lab Sample ID: 460-196258-13

Date Collected: 11/07/19 13:15

Matrix: Water

Date Received: 11/08/19 20:00

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrophenol	20	U	20	14	ug/L		11/13/19 09:58	11/14/19 12:17	1
2,4-Dinitrotoluene	2.0	U	2.0	1.0	ug/L		11/13/19 09:58	11/14/19 12:17	1
2,6-Dinitrotoluene	2.0	U	2.0	0.83	ug/L		11/13/19 09:58	11/14/19 12:17	1
2-Chloronaphthalene	10	U	10	1.2	ug/L		11/13/19 09:58	11/14/19 12:17	1
2-Chlorophenol	10	U	10	0.38	ug/L		11/13/19 09:58	11/14/19 12:17	1
2-Methylnaphthalene	10	U	10	1.1	ug/L		11/13/19 09:58	11/14/19 12:17	1
2-Methylphenol	10	U	10	0.67	ug/L		11/13/19 09:58	11/14/19 12:17	1
2-Nitroaniline	10	U	10	0.47	ug/L		11/13/19 09:58	11/14/19 12:17	1
2-Nitrophenol	10	U	10	0.75	ug/L		11/13/19 09:58	11/14/19 12:17	1
3,3'-Dichlorobenzidine	10	U *	10	1.4	ug/L		11/13/19 09:58	11/14/19 12:17	1
3-Nitroaniline	10	U	10	1.9	ug/L		11/13/19 09:58	11/14/19 12:17	1
4,6-Dinitro-2-methylphenol	20	U	20	13	ug/L		11/13/19 09:58	11/14/19 12:17	1
4-Bromophenyl phenyl ether	10	U	10	0.75	ug/L		11/13/19 09:58	11/14/19 12:17	1
4-Chloro-3-methylphenol	10	U	10	0.58	ug/L		11/13/19 09:58	11/14/19 12:17	1
4-Chloroaniline	10	U	10	1.9	ug/L		11/13/19 09:58	11/14/19 12:17	1
4-Chlorophenyl phenyl ether	10	U	10	1.3	ug/L		11/13/19 09:58	11/14/19 12:17	1
4-Methylphenol	10	U	10	0.65	ug/L		11/13/19 09:58	11/14/19 12:17	1
4-Nitroaniline	10	U	10	1.2	ug/L		11/13/19 09:58	11/14/19 12:17	1
4-Nitrophenol	20	U	20	4.0	ug/L		11/13/19 09:58	11/14/19 12:17	1
Acenaphthene	10	U	10	1.1	ug/L		11/13/19 09:58	11/14/19 12:17	1
Acenaphthylene	10	U	10	0.82	ug/L		11/13/19 09:58	11/14/19 12:17	1
Acetophenone	10	U	10	2.3	ug/L		11/13/19 09:58	11/14/19 12:17	1
Anthracene	10	U	10	0.63	ug/L		11/13/19 09:58	11/14/19 12:17	1
Atrazine	2.0	U *	2.0	1.3	ug/L		11/13/19 09:58	11/14/19 12:17	1
Benzaldehyde	10	U	10	2.1	ug/L		11/13/19 09:58	11/14/19 12:17	1
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		11/13/19 09:58	11/14/19 12:17	1
Benzo[a]pyrene	1.0	U	1.0	0.41	ug/L		11/13/19 09:58	11/14/19 12:17	1
Benzo[b]fluoranthene	2.0	U	2.0	0.68	ug/L		11/13/19 09:58	11/14/19 12:17	1
Benzo[g,h,i]perylene	10	U	10	1.4	ug/L		11/13/19 09:58	11/14/19 12:17	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		11/13/19 09:58	11/14/19 12:17	1
Bis(2-chloroethoxy)methane	10	U	10	0.59	ug/L		11/13/19 09:58	11/14/19 12:17	1
Bis(2-chloroethyl)ether	1.0	U	1.0	0.63	ug/L		11/13/19 09:58	11/14/19 12:17	1
Bis(2-ethylhexyl) phthalate	2.0	U	2.0	1.7	ug/L		11/13/19 09:58	11/14/19 12:17	1
Butyl benzyl phthalate	10	U	10	0.85	ug/L		11/13/19 09:58	11/14/19 12:17	1
Caprolactam	10	U *	10	0.68	ug/L		11/13/19 09:58	11/14/19 12:17	1
Carbazole	10	U	10	0.68	ug/L		11/13/19 09:58	11/14/19 12:17	1
Chrysene	2.0	U	2.0	0.91	ug/L		11/13/19 09:58	11/14/19 12:17	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		11/13/19 09:58	11/14/19 12:17	1
Dibenzofuran	10	U	10	1.1	ug/L		11/13/19 09:58	11/14/19 12:17	1
Diethyl phthalate	10	U	10	0.98	ug/L		11/13/19 09:58	11/14/19 12:17	1
Dimethyl phthalate	10	U	10	0.77	ug/L		11/13/19 09:58	11/14/19 12:17	1
Di-n-butyl phthalate	10	U	10	0.84	ug/L		11/13/19 09:58	11/14/19 12:17	1
Di-n-octyl phthalate	10	U	10	4.8	ug/L		11/13/19 09:58	11/14/19 12:17	1
Fluoranthene	10	U	10	0.84	ug/L		11/13/19 09:58	11/14/19 12:17	1
Fluorene	10	U	10	0.91	ug/L		11/13/19 09:58	11/14/19 12:17	1
Hexachlorobenzene	1.0	U	1.0	0.40	ug/L		11/13/19 09:58	11/14/19 12:17	1
Hexachlorobutadiene	1.0	U	1.0	0.78	ug/L		11/13/19 09:58	11/14/19 12:17	1
Hexachlorocyclopentadiene	10	U	10	3.6	ug/L		11/13/19 09:58	11/14/19 12:17	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196258-1

Client Sample ID: WSG-EB-MW-20191107

Lab Sample ID: 460-196258-13

Date Collected: 11/07/19 13:15

Matrix: Water

Date Received: 11/08/19 20:00

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachloroethane	2.0	U	2.0	0.80	ug/L		11/13/19 09:58	11/14/19 12:17	1
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	0.94	ug/L		11/13/19 09:58	11/14/19 12:17	1
Isophorone	10	U	10	0.80	ug/L		11/13/19 09:58	11/14/19 12:17	1
Naphthalene	10	U	10	1.1	ug/L		11/13/19 09:58	11/14/19 12:17	1
Nitrobenzene	1.0	U	1.0	0.57	ug/L		11/13/19 09:58	11/14/19 12:17	1
N-Nitrosodi-n-propylamine	1.0	U	1.0	0.43	ug/L		11/13/19 09:58	11/14/19 12:17	1
N-Nitrosodiphenylamine	10	U	10	0.89	ug/L		11/13/19 09:58	11/14/19 12:17	1
Pentachlorophenol	20	U	20	1.4	ug/L		11/13/19 09:58	11/14/19 12:17	1
Phenanthrene	10	U	10	0.58	ug/L		11/13/19 09:58	11/14/19 12:17	1
Phenol	10	U	10	0.29	ug/L		11/13/19 09:58	11/14/19 12:17	1
Pyrene	10	U	10	1.6	ug/L		11/13/19 09:58	11/14/19 12:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	92		26 - 139	11/13/19 09:58	11/14/19 12:17	1
2-Fluorobiphenyl	76		45 - 107	11/13/19 09:58	11/14/19 12:17	1
2-Fluorophenol (Surr)	40		25 - 58	11/13/19 09:58	11/14/19 12:17	1
Nitrobenzene-d5 (Surr)	84		51 - 108	11/13/19 09:58	11/14/19 12:17	1
Phenol-d5 (Surr)	26		14 - 39	11/13/19 09:58	11/14/19 12:17	1
Terphenyl-d14 (Surr)	82		40 - 148	11/13/19 09:58	11/14/19 12:17	1

Method: 608.3 - Organochlorine Pesticides/PCBs in Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.020	U	0.020	0.012	ug/L		11/12/19 16:57	11/18/19 13:55	1
alpha-BHC	0.020	U	0.020	0.013	ug/L		11/12/19 16:57	11/18/19 13:55	1
beta-BHC	0.030	U	0.030	0.015	ug/L		11/12/19 16:57	11/18/19 13:55	1
delta-BHC	0.020	U	0.020	0.0090	ug/L		11/12/19 16:57	11/18/19 13:55	1
gamma-BHC (Lindane)	0.030	U	0.030	0.013	ug/L		11/12/19 16:57	11/18/19 13:55	1
Chlordane	0.50	U	0.50	0.093	ug/L		11/12/19 16:57	11/18/19 13:55	1
4,4'-DDD	0.040	U	0.040	0.018	ug/L		11/12/19 16:57	11/18/19 13:55	1
4,4'-DDE	0.030	U	0.030	0.018	ug/L		11/12/19 16:57	11/18/19 13:55	1
4,4'-DDT	0.030	U	0.030	0.025	ug/L		11/12/19 16:57	11/18/19 13:55	1
Dieldrin	0.020	U	0.020	0.016	ug/L		11/12/19 16:57	11/18/19 13:55	1
Endosulfan I	0.030	U	0.030	0.014	ug/L		11/12/19 16:57	11/18/19 13:55	1
Endosulfan II	0.030	U	0.030	0.017	ug/L		11/12/19 16:57	11/18/19 13:55	1
Endosulfan sulfate	0.030	U *	0.030	0.015	ug/L		11/12/19 16:57	11/18/19 13:55	1
Endrin	0.030	U *	0.030	0.021	ug/L		11/12/19 16:57	11/18/19 13:55	1
Endrin aldehyde	0.030	U	0.030	0.024	ug/L		11/12/19 16:57	11/18/19 13:55	1
Endrin ketone	0.030	U	0.030	0.013	ug/L		11/12/19 16:57	11/18/19 13:55	1
Heptachlor	0.030	U	0.030	0.014	ug/L		11/12/19 16:57	11/18/19 13:55	1
Heptachlor epoxide	0.030	U	0.030	0.014	ug/L		11/12/19 16:57	11/18/19 13:55	1
Methoxychlor	0.030	U	0.030	0.030	ug/L		11/12/19 16:57	11/18/19 13:55	1
Toxaphene	0.50	U	0.50	0.20	ug/L		11/12/19 16:57	11/18/19 13:55	1
Aroclor 1016	1.0	U	1.0	0.030	ug/L		11/12/19 16:57	11/18/19 13:55	1
Aroclor 1221	1.0	U	1.0	0.030	ug/L		11/12/19 16:57	11/18/19 13:55	1
Aroclor 1232	1.0	U	1.0	0.030	ug/L		11/12/19 16:57	11/18/19 13:55	1
Aroclor 1242	1.0	U	1.0	0.030	ug/L		11/12/19 16:57	11/18/19 13:55	1
Aroclor 1248	1.0	U	1.0	0.030	ug/L		11/12/19 16:57	11/18/19 13:55	1
Aroclor 1254	1.0	U	1.0	0.037	ug/L		11/12/19 16:57	11/18/19 13:55	1
Aroclor 1260	1.0	U	1.0	0.037	ug/L		11/12/19 16:57	11/18/19 13:55	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196258-1

Client Sample ID: WSG-EB-MW-20191107

Lab Sample ID: 460-196258-13

Date Collected: 11/07/19 13:15

Matrix: Water

Date Received: 11/08/19 20:00

Method: 608.3 - Organochlorine Pesticides/PCBs in Water (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1262	1.0	U	1.0	0.037	ug/L		11/12/19 16:57	11/18/19 13:55	1
Aroclor 1268	1.0	U	1.0	0.037	ug/L		11/12/19 16:57	11/18/19 13:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	69		10 - 150				11/12/19 16:57	11/18/19 13:55	1
Tetrachloro-m-xylene	82		10 - 150				11/12/19 16:57	11/18/19 13:55	1
DCB Decachlorobiphenyl	38		10 - 150				11/12/19 16:57	11/18/19 13:55	1
DCB Decachlorobiphenyl	50		10 - 150				11/12/19 16:57	11/18/19 13:55	1

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	1.2	U	1.2	0.13	ug/L		11/13/19 23:40	11/14/19 19:45	1
Silvex (2,4,5-TP)	1.2	U	1.2	0.11	ug/L		11/13/19 23:40	11/14/19 19:45	1
2,4,5-T	1.2	U	1.2	0.12	ug/L		11/13/19 23:40	11/14/19 19:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	84		54 - 150				11/13/19 23:40	11/14/19 19:45	1
2,4-Dichlorophenylacetic acid	86		54 - 150				11/13/19 23:40	11/14/19 19:45	1

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	1.90	U	1.90	0.55	ng/L		11/16/19 07:36	11/18/19 12:43	1
Perfluoroheptanoic acid (PFHpA)	1.90	U	1.90	0.24	ng/L		11/16/19 07:36	11/18/19 12:43	1
Perfluorooctanoic acid (PFOA)	1.90	U	1.90	0.81	ng/L		11/16/19 07:36	11/18/19 12:43	1
Perfluorononanoic acid (PFNA)	1.90	U	1.90	0.26	ng/L		11/16/19 07:36	11/18/19 12:43	1
Perfluorodecanoic acid (PFDA)	1.90	U	1.90	0.29	ng/L		11/16/19 07:36	11/18/19 12:43	1
Perfluoroundecanoic acid (PFUnA)	1.90	U	1.90	1.04	ng/L		11/16/19 07:36	11/18/19 12:43	1
Perfluorododecanoic acid (PFDoA)	1.90	U	1.90	0.52	ng/L		11/16/19 07:36	11/18/19 12:43	1
Perfluorotridecanoic acid (PFTriA)	1.90	U	1.90	1.23	ng/L		11/16/19 07:36	11/18/19 12:43	1
Perfluorotetradecanoic acid (PFTeA)	1.90	U	1.90	0.27	ng/L		11/16/19 07:36	11/18/19 12:43	1
Perfluorobutanesulfonic acid (PFBS)	1.90	U	1.90	0.19	ng/L		11/16/19 07:36	11/18/19 12:43	1
Perfluorohexanesulfonic acid (PFHxS)	0.26	J B	1.90	0.16	ng/L		11/16/19 07:36	11/18/19 12:43	1
Perfluorooctanesulfonic acid (PFOS)	1.90	U	1.90	0.51	ng/L		11/16/19 07:36	11/18/19 12:43	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	19.0	U	19.0	1.80	ng/L		11/16/19 07:36	11/18/19 12:43	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	19.0	U	19.0	2.94	ng/L		11/16/19 07:36	11/18/19 12:43	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C2 PFHxA	108		25 - 150				11/16/19 07:36	11/18/19 12:43	1
13C4 PFHpA	113		25 - 150				11/16/19 07:36	11/18/19 12:43	1
13C4 PFOA	108		25 - 150				11/16/19 07:36	11/18/19 12:43	1
13C5 PFNA	103		25 - 150				11/16/19 07:36	11/18/19 12:43	1
13C2 PFDA	102		25 - 150				11/16/19 07:36	11/18/19 12:43	1
13C2 PFUnA	106		25 - 150				11/16/19 07:36	11/18/19 12:43	1
13C2 PFDoA	101		25 - 150				11/16/19 07:36	11/18/19 12:43	1
13C2 PFTeA	101		25 - 150				11/16/19 07:36	11/18/19 12:43	1
18O2 PFHxS	122		25 - 150				11/16/19 07:36	11/18/19 12:43	1
13C4 PFOS	97		25 - 150				11/16/19 07:36	11/18/19 12:43	1
d3-NMeFOSAA	91		25 - 150				11/16/19 07:36	11/18/19 12:43	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196258-1

Client Sample ID: WSG-EB-MW-20191107

Lab Sample ID: 460-196258-13

Date Collected: 11/07/19 13:15

Matrix: Water

Date Received: 11/08/19 20:00

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	93		25 - 150	11/16/19 07:36	11/18/19 12:43	1

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	150	U	150	34.2	ug/L		11/19/19 07:16	11/20/19 12:46	1
Silver	10.0	U	10.0	1.1	ug/L		11/19/19 07:16	11/20/19 12:46	1
Aluminum	200	U	200	28.6	ug/L		11/19/19 07:16	11/20/19 12:46	1
Arsenic	15.0	U	15.0	2.7	ug/L		11/19/19 07:16	11/20/19 12:46	1
Boron	50.0	U	50.0	12.7	ug/L		11/19/19 07:16	11/20/19 12:46	1
Barium	200	U	200	7.7	ug/L		11/19/19 07:16	11/20/19 12:46	1
Beryllium	2.0	U	2.0	0.23	ug/L		11/19/19 07:16	11/20/19 12:46	1
Calcium	5000	U	5000	222	ug/L		11/19/19 07:16	11/20/19 12:46	1
Cadmium	4.0	U	4.0	0.22	ug/L		11/19/19 07:16	11/20/19 12:46	1
Cobalt	50.0	U	50.0	1.7	ug/L		11/19/19 07:16	11/20/19 12:46	1
Chromium	10.0	U	10.0	1.3	ug/L		11/19/19 07:16	11/20/19 12:46	1
Copper	25.0	U	25.0	5.1	ug/L		11/19/19 07:16	11/20/19 12:46	1
Potassium	5000	U	5000	323	ug/L		11/19/19 07:16	11/20/19 12:46	1
Magnesium	5000	U	5000	177	ug/L		11/19/19 07:16	11/20/19 12:46	1
Manganese	15.0	U	15.0	0.99	ug/L		11/19/19 07:16	11/20/19 12:46	1
Molybdenum	20.0	U	20.0	3.3	ug/L		11/19/19 07:16	11/20/19 12:46	1
Sodium	5000	U	5000	460	ug/L		11/19/19 07:16	11/20/19 12:46	1
Nickel	40.0	U	40.0	1.7	ug/L		11/19/19 07:16	11/20/19 12:46	1
Lead	10.0	U	10.0	2.5	ug/L		11/19/19 07:16	11/20/19 12:46	1
Antimony	20.0	U	20.0	2.9	ug/L		11/19/19 07:16	11/20/19 12:46	1
Selenium	20.0	U	20.0	6.6	ug/L		11/19/19 07:16	11/20/19 12:46	1
Tin	50.0	U	50.0	2.4	ug/L		11/19/19 07:16	11/20/19 12:46	1
Strontium	20.0	U	20.0	0.70	ug/L		11/19/19 07:16	11/20/19 12:46	1
Titanium	20.0	U	20.0	2.0	ug/L		11/19/19 07:16	11/20/19 12:46	1
Thallium	20.0	U	20.0	5.4	ug/L		11/19/19 07:16	11/20/19 12:46	1
Vanadium	50.0	U	50.0	2.5	ug/L		11/19/19 07:16	11/20/19 12:46	1
Zinc	30.0	U	30.0	3.6	ug/L		11/19/19 07:16	11/20/19 12:46	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.12	ug/L		11/20/19 11:53	11/20/19 13:34	1

Client Sample ID: WSG-GW4-5-0

Lab Sample ID: 460-196258-14

Date Collected: 11/07/19 08:30

Matrix: Water

Date Received: 11/08/19 20:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			11/16/19 06:50	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.37	ug/L			11/16/19 06:50	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			11/16/19 06:50	1
1,1,2-Trichloroethane	1.0	U	1.0	0.43	ug/L			11/16/19 06:50	1
1,1-Dichloroethane	1.0	U	1.0	0.26	ug/L			11/16/19 06:50	1
1,1-Dichloroethene	1.0	U	1.0	0.26	ug/L			11/16/19 06:50	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.37	ug/L			11/16/19 06:50	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196258-1

Client Sample ID: WSG-GW4-5-0

Lab Sample ID: 460-196258-14

Date Collected: 11/07/19 08:30

Matrix: Water

Date Received: 11/08/19 20:00

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.38	ug/L			11/16/19 06:50	1
1,2-Dichlorobenzene	1.0	U	1.0	0.43	ug/L			11/16/19 06:50	1
1,2-Dichloroethane	1.0	U	1.0	0.43	ug/L			11/16/19 06:50	1
1,2-Dichloropropane	1.0	U	1.0	0.35	ug/L			11/16/19 06:50	1
1,3-Dichlorobenzene	1.0	U	1.0	0.34	ug/L			11/16/19 06:50	1
1,4-Dichlorobenzene	1.0	U	1.0	0.33	ug/L			11/16/19 06:50	1
2-Butanone (MEK)	5.0	U	5.0	1.9	ug/L			11/16/19 06:50	1
2-Hexanone	5.0	U	5.0	1.1	ug/L			11/16/19 06:50	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	1.3	ug/L			11/16/19 06:50	1
Acetone	5.0	U	5.0	4.4	ug/L			11/16/19 06:50	1
Benzene	1.0	U	1.0	0.20	ug/L			11/16/19 06:50	1
Bromoform	1.0	U	1.0	0.54	ug/L			11/16/19 06:50	1
Bromomethane	1.0	U	1.0	0.55	ug/L			11/16/19 06:50	1
Carbon disulfide	1.0	U	1.0	0.82	ug/L			11/16/19 06:50	1
Carbon tetrachloride	1.0	U	1.0	0.21	ug/L			11/16/19 06:50	1
Chlorobenzene	1.0	U	1.0	0.38	ug/L			11/16/19 06:50	1
Chlorodibromomethane	1.0	U	1.0	0.28	ug/L			11/16/19 06:50	1
Chloroethane	1.0	U	1.0	0.32	ug/L			11/16/19 06:50	1
Chloroform	1.0	U	1.0	0.33	ug/L			11/16/19 06:50	1
Chloromethane	1.0	U	1.0	0.40	ug/L			11/16/19 06:50	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.22	ug/L			11/16/19 06:50	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.22	ug/L			11/16/19 06:50	1
Cyclohexane	1.0	U	1.0	0.32	ug/L			11/16/19 06:50	1
Dichlorobromomethane	1.0	U	1.0	0.34	ug/L			11/16/19 06:50	1
Dichlorodifluoromethane	1.0	U	1.0	0.31	ug/L			11/16/19 06:50	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			11/16/19 06:50	1
Ethylene Dibromide	1.0	U	1.0	0.50	ug/L			11/16/19 06:50	1
Isopropylbenzene	1.0	U	1.0	0.34	ug/L			11/16/19 06:50	1
Methyl acetate	5.0	U	5.0	0.79	ug/L			11/16/19 06:50	1
Methyl tert-butyl ether	1.0	U	1.0	0.47	ug/L			11/16/19 06:50	1
Methylcyclohexane	1.0	U	1.0	0.26	ug/L			11/16/19 06:50	1
Methylene Chloride	1.0	U	1.0	0.32	ug/L			11/16/19 06:50	1
Styrene	1.0	U	1.0	0.42	ug/L			11/16/19 06:50	1
Tetrachloroethene	1.0	U	1.0	0.25	ug/L			11/16/19 06:50	1
Toluene	1.0	U	1.0	0.38	ug/L			11/16/19 06:50	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			11/16/19 06:50	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.49	ug/L			11/16/19 06:50	1
Trichloroethene	1.0	U	1.0	0.31	ug/L			11/16/19 06:50	1
Trichlorofluoromethane	1.0	U	1.0	0.32	ug/L			11/16/19 06:50	1
Vinyl chloride	1.0	U	1.0	0.17	ug/L			11/16/19 06:50	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			11/16/19 06:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		74 - 132		11/16/19 06:50	1
4-Bromofluorobenzene	92		77 - 124		11/16/19 06:50	1
Dibromofluoromethane (Surr)	95		72 - 131		11/16/19 06:50	1
Toluene-d8 (Surr)	102		80 - 120		11/16/19 06:50	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196258-1

Client Sample ID: WSG-GW4-5-0

Lab Sample ID: 460-196258-14

Date Collected: 11/07/19 08:30

Matrix: Water

Date Received: 11/08/19 20:00

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.40	U	0.40	0.17	ug/L		11/13/19 09:58	11/14/19 18:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	75		38 - 125	11/13/19 09:58	11/14/19 18:10	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	10	U	10	1.2	ug/L		11/13/19 09:58	11/14/19 12:38	1
2,2'-oxybis[1-chloropropane]	10	U	10	0.63	ug/L		11/13/19 09:58	11/14/19 12:38	1
2,4,5-Trichlorophenol	10	U	10	0.88	ug/L		11/13/19 09:58	11/14/19 12:38	1
2,4,6-Trichlorophenol	10	U	10	0.86	ug/L		11/13/19 09:58	11/14/19 12:38	1
2,4-Dichlorophenol	10	U	10	1.1	ug/L		11/13/19 09:58	11/14/19 12:38	1
2,4-Dimethylphenol	10	U	10	0.62	ug/L		11/13/19 09:58	11/14/19 12:38	1
2,4-Dinitrophenol	20	U	20	14	ug/L		11/13/19 09:58	11/14/19 12:38	1
2,4-Dinitrotoluene	2.0	U	2.0	1.0	ug/L		11/13/19 09:58	11/14/19 12:38	1
2,6-Dinitrotoluene	2.0	U	2.0	0.83	ug/L		11/13/19 09:58	11/14/19 12:38	1
2-Chloronaphthalene	10	U	10	1.2	ug/L		11/13/19 09:58	11/14/19 12:38	1
2-Chlorophenol	10	U	10	0.38	ug/L		11/13/19 09:58	11/14/19 12:38	1
2-Methylnaphthalene	10	U	10	1.1	ug/L		11/13/19 09:58	11/14/19 12:38	1
2-Methylphenol	10	U	10	0.67	ug/L		11/13/19 09:58	11/14/19 12:38	1
2-Nitroaniline	10	U	10	0.47	ug/L		11/13/19 09:58	11/14/19 12:38	1
2-Nitrophenol	10	U	10	0.75	ug/L		11/13/19 09:58	11/14/19 12:38	1
3,3'-Dichlorobenzidine	10	U *	10	1.4	ug/L		11/13/19 09:58	11/14/19 12:38	1
3-Nitroaniline	10	U	10	1.9	ug/L		11/13/19 09:58	11/14/19 12:38	1
4,6-Dinitro-2-methylphenol	20	U	20	13	ug/L		11/13/19 09:58	11/14/19 12:38	1
4-Bromophenyl phenyl ether	10	U	10	0.75	ug/L		11/13/19 09:58	11/14/19 12:38	1
4-Chloro-3-methylphenol	10	U	10	0.58	ug/L		11/13/19 09:58	11/14/19 12:38	1
4-Chloroaniline	10	U	10	1.9	ug/L		11/13/19 09:58	11/14/19 12:38	1
4-Chlorophenyl phenyl ether	10	U	10	1.3	ug/L		11/13/19 09:58	11/14/19 12:38	1
4-Methylphenol	10	U	10	0.65	ug/L		11/13/19 09:58	11/14/19 12:38	1
4-Nitroaniline	10	U	10	1.2	ug/L		11/13/19 09:58	11/14/19 12:38	1
4-Nitrophenol	20	U	20	4.0	ug/L		11/13/19 09:58	11/14/19 12:38	1
Acenaphthene	10	U	10	1.1	ug/L		11/13/19 09:58	11/14/19 12:38	1
Acenaphthylene	10	U	10	0.82	ug/L		11/13/19 09:58	11/14/19 12:38	1
Acetophenone	10	U	10	2.3	ug/L		11/13/19 09:58	11/14/19 12:38	1
Anthracene	10	U	10	0.63	ug/L		11/13/19 09:58	11/14/19 12:38	1
Atrazine	2.0	U *	2.0	1.3	ug/L		11/13/19 09:58	11/14/19 12:38	1
Benzaldehyde	10	U	10	2.1	ug/L		11/13/19 09:58	11/14/19 12:38	1
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		11/13/19 09:58	11/14/19 12:38	1
Benzo[a]pyrene	1.0	U	1.0	0.41	ug/L		11/13/19 09:58	11/14/19 12:38	1
Benzo[b]fluoranthene	2.0	U	2.0	0.68	ug/L		11/13/19 09:58	11/14/19 12:38	1
Benzo[g,h,i]perylene	10	U	10	1.4	ug/L		11/13/19 09:58	11/14/19 12:38	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		11/13/19 09:58	11/14/19 12:38	1
Bis(2-chloroethoxy)methane	10	U	10	0.59	ug/L		11/13/19 09:58	11/14/19 12:38	1
Bis(2-chloroethyl)ether	1.0	U	1.0	0.63	ug/L		11/13/19 09:58	11/14/19 12:38	1
Bis(2-ethylhexyl) phthalate	2.0	U	2.0	1.7	ug/L		11/13/19 09:58	11/14/19 12:38	1
Butyl benzyl phthalate	10	U	10	0.85	ug/L		11/13/19 09:58	11/14/19 12:38	1
Caprolactam	10	U *	10	0.68	ug/L		11/13/19 09:58	11/14/19 12:38	1
Carbazole	10	U	10	0.68	ug/L		11/13/19 09:58	11/14/19 12:38	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196258-1

Client Sample ID: WSG-GW4-5-0

Lab Sample ID: 460-196258-14

Date Collected: 11/07/19 08:30

Matrix: Water

Date Received: 11/08/19 20:00

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	2.0	U	2.0	0.91	ug/L		11/13/19 09:58	11/14/19 12:38	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		11/13/19 09:58	11/14/19 12:38	1
Dibenzofuran	10	U	10	1.1	ug/L		11/13/19 09:58	11/14/19 12:38	1
Diethyl phthalate	10	U	10	0.98	ug/L		11/13/19 09:58	11/14/19 12:38	1
Dimethyl phthalate	10	U	10	0.77	ug/L		11/13/19 09:58	11/14/19 12:38	1
Di-n-butyl phthalate	10	U	10	0.84	ug/L		11/13/19 09:58	11/14/19 12:38	1
Di-n-octyl phthalate	10	U	10	4.8	ug/L		11/13/19 09:58	11/14/19 12:38	1
Fluoranthene	10	U	10	0.84	ug/L		11/13/19 09:58	11/14/19 12:38	1
Fluorene	10	U	10	0.91	ug/L		11/13/19 09:58	11/14/19 12:38	1
Hexachlorobenzene	1.0	U	1.0	0.40	ug/L		11/13/19 09:58	11/14/19 12:38	1
Hexachlorobutadiene	1.0	U	1.0	0.78	ug/L		11/13/19 09:58	11/14/19 12:38	1
Hexachlorocyclopentadiene	10	U	10	3.6	ug/L		11/13/19 09:58	11/14/19 12:38	1
Hexachloroethane	2.0	U	2.0	0.80	ug/L		11/13/19 09:58	11/14/19 12:38	1
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	0.94	ug/L		11/13/19 09:58	11/14/19 12:38	1
Isophorone	10	U	10	0.80	ug/L		11/13/19 09:58	11/14/19 12:38	1
Naphthalene	10	U	10	1.1	ug/L		11/13/19 09:58	11/14/19 12:38	1
Nitrobenzene	1.0	U	1.0	0.57	ug/L		11/13/19 09:58	11/14/19 12:38	1
N-Nitrosodi-n-propylamine	1.0	U	1.0	0.43	ug/L		11/13/19 09:58	11/14/19 12:38	1
N-Nitrosodiphenylamine	10	U	10	0.89	ug/L		11/13/19 09:58	11/14/19 12:38	1
Pentachlorophenol	20	U	20	1.4	ug/L		11/13/19 09:58	11/14/19 12:38	1
Phenanthrene	10	U	10	0.58	ug/L		11/13/19 09:58	11/14/19 12:38	1
Phenol	10	U	10	0.29	ug/L		11/13/19 09:58	11/14/19 12:38	1
Pyrene	10	U	10	1.6	ug/L		11/13/19 09:58	11/14/19 12:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	118		26 - 139	11/13/19 09:58	11/14/19 12:38	1
2-Fluorobiphenyl	93		45 - 107	11/13/19 09:58	11/14/19 12:38	1
2-Fluorophenol (Surr)	50		25 - 58	11/13/19 09:58	11/14/19 12:38	1
Nitrobenzene-d5 (Surr)	105		51 - 108	11/13/19 09:58	11/14/19 12:38	1
Phenol-d5 (Surr)	32		14 - 39	11/13/19 09:58	11/14/19 12:38	1
Terphenyl-d14 (Surr)	104		40 - 148	11/13/19 09:58	11/14/19 12:38	1

Method: 608.3 - Organochlorine Pesticides/PCBs in Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.020	U	0.020	0.012	ug/L		11/12/19 16:57	11/18/19 14:08	1
alpha-BHC	0.020	U	0.020	0.013	ug/L		11/12/19 16:57	11/18/19 14:08	1
beta-BHC	0.030	U	0.030	0.015	ug/L		11/12/19 16:57	11/18/19 14:08	1
delta-BHC	0.020	U	0.020	0.0090	ug/L		11/12/19 16:57	11/18/19 14:08	1
gamma-BHC (Lindane)	0.030	U	0.030	0.013	ug/L		11/12/19 16:57	11/18/19 14:08	1
Chlordane	0.50	U	0.50	0.093	ug/L		11/12/19 16:57	11/18/19 14:08	1
4,4'-DDD	0.040	U	0.040	0.018	ug/L		11/12/19 16:57	11/18/19 14:08	1
4,4'-DDE	0.030	U	0.030	0.018	ug/L		11/12/19 16:57	11/18/19 14:08	1
4,4'-DDT	0.030	U	0.030	0.025	ug/L		11/12/19 16:57	11/18/19 14:08	1
Dieldrin	0.020	U	0.020	0.016	ug/L		11/12/19 16:57	11/18/19 14:08	1
Endosulfan I	0.030	U	0.030	0.014	ug/L		11/12/19 16:57	11/18/19 14:08	1
Endosulfan II	0.030	U	0.030	0.017	ug/L		11/12/19 16:57	11/18/19 14:08	1
Endosulfan sulfate	0.030	U *	0.030	0.015	ug/L		11/12/19 16:57	11/18/19 14:08	1
Endrin	0.030	U *	0.030	0.021	ug/L		11/12/19 16:57	11/18/19 14:08	1
Endrin aldehyde	0.030	U	0.030	0.024	ug/L		11/12/19 16:57	11/18/19 14:08	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196258-1

Client Sample ID: WSG-GW4-5-0

Lab Sample ID: 460-196258-14

Date Collected: 11/07/19 08:30

Matrix: Water

Date Received: 11/08/19 20:00

Method: 608.3 - Organochlorine Pesticides/PCBs in Water (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endrin ketone	0.030	U	0.030	0.013	ug/L		11/12/19 16:57	11/18/19 14:08	1
Heptachlor	0.030	U	0.030	0.014	ug/L		11/12/19 16:57	11/18/19 14:08	1
Heptachlor epoxide	0.030	U	0.030	0.014	ug/L		11/12/19 16:57	11/18/19 14:08	1
Methoxychlor	0.030	U	0.030	0.030	ug/L		11/12/19 16:57	11/18/19 14:08	1
Toxaphene	0.50	U	0.50	0.20	ug/L		11/12/19 16:57	11/18/19 14:08	1
Aroclor 1016	1.0	U	1.0	0.030	ug/L		11/12/19 16:57	11/18/19 14:08	1
Aroclor 1221	1.0	U	1.0	0.030	ug/L		11/12/19 16:57	11/18/19 14:08	1
Aroclor 1232	1.0	U	1.0	0.030	ug/L		11/12/19 16:57	11/18/19 14:08	1
Aroclor 1242	1.0	U	1.0	0.030	ug/L		11/12/19 16:57	11/18/19 14:08	1
Aroclor 1248	1.0	U	1.0	0.030	ug/L		11/12/19 16:57	11/18/19 14:08	1
Aroclor 1254	1.0	U	1.0	0.037	ug/L		11/12/19 16:57	11/18/19 14:08	1
Aroclor 1260	1.0	U	1.0	0.037	ug/L		11/12/19 16:57	11/18/19 14:08	1
Aroclor 1262	1.0	U	1.0	0.037	ug/L		11/12/19 16:57	11/18/19 14:08	1
Aroclor 1268	1.0	U	1.0	0.037	ug/L		11/12/19 16:57	11/18/19 14:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	60		10 - 150				11/12/19 16:57	11/18/19 14:08	1
Tetrachloro-m-xylene	59		10 - 150				11/12/19 16:57	11/18/19 14:08	1
DCB Decachlorobiphenyl	31		10 - 150				11/12/19 16:57	11/18/19 14:08	1
DCB Decachlorobiphenyl	34		10 - 150				11/12/19 16:57	11/18/19 14:08	1

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	1.2	U	1.2	0.13	ug/L		11/13/19 23:40	11/14/19 20:00	1
Silvex (2,4,5-TP)	1.2	U	1.2	0.11	ug/L		11/13/19 23:40	11/14/19 20:00	1
2,4,5-T	1.2	U	1.2	0.12	ug/L		11/13/19 23:40	11/14/19 20:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	95		54 - 150				11/13/19 23:40	11/14/19 20:00	1
2,4-Dichlorophenylacetic acid	97		54 - 150				11/13/19 23:40	11/14/19 20:00	1

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	2.82		1.98	0.57	ng/L		11/16/19 07:36	11/18/19 12:53	1
Perfluoroheptanoic acid (PFHpA)	2.14		1.98	0.25	ng/L		11/16/19 07:36	11/18/19 12:53	1
Perfluorooctanoic acid (PFOA)	5.69		1.98	0.84	ng/L		11/16/19 07:36	11/18/19 12:53	1
Perfluorononanoic acid (PFNA)	1.92	J	1.98	0.27	ng/L		11/16/19 07:36	11/18/19 12:53	1
Perfluorodecanoic acid (PFDA)	2.49		1.98	0.31	ng/L		11/16/19 07:36	11/18/19 12:53	1
Perfluoroundecanoic acid (PFUnA)	1.98	U	1.98	1.09	ng/L		11/16/19 07:36	11/18/19 12:53	1
Perfluorododecanoic acid (PFDoA)	1.98	U	1.98	0.54	ng/L		11/16/19 07:36	11/18/19 12:53	1
Perfluorotridecanoic acid (PFTriA)	1.98	U	1.98	1.29	ng/L		11/16/19 07:36	11/18/19 12:53	1
Perfluorotetradecanoic acid (PFTeA)	1.98	U	1.98	0.29	ng/L		11/16/19 07:36	11/18/19 12:53	1
Perfluorobutanesulfonic acid (PFBS)	0.42	J	1.98	0.20	ng/L		11/16/19 07:36	11/18/19 12:53	1
Perfluorohexanesulfonic acid (PFHxS)	3.43	B	1.98	0.17	ng/L		11/16/19 07:36	11/18/19 12:53	1
Perfluorooctanesulfonic acid (PFOS)	30.5		1.98	0.53	ng/L		11/16/19 07:36	11/18/19 12:53	1
N-ethylperfluorooctanesulfonamide doacetic acid (NETFOSAA)	3.93	J	19.8	1.88	ng/L		11/16/19 07:36	11/18/19 12:53	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196258-1

Client Sample ID: WSG-GW4-5-0

Lab Sample ID: 460-196258-14

Date Collected: 11/07/19 08:30

Matrix: Water

Date Received: 11/08/19 20:00

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	19.8	U	19.8	3.07	ng/L		11/16/19 07:36	11/18/19 12:53	1
Isotope Dilution									
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
¹³ C2 PFHxA	102		25 - 150				11/16/19 07:36	11/18/19 12:53	1
¹³ C4 PFHpA	109		25 - 150				11/16/19 07:36	11/18/19 12:53	1
¹³ C4 PFOA	108		25 - 150				11/16/19 07:36	11/18/19 12:53	1
¹³ C5 PFNA	104		25 - 150				11/16/19 07:36	11/18/19 12:53	1
¹³ C2 PFDA	101		25 - 150				11/16/19 07:36	11/18/19 12:53	1
¹³ C2 PFUnA	107		25 - 150				11/16/19 07:36	11/18/19 12:53	1
¹³ C2 PFDoA	98		25 - 150				11/16/19 07:36	11/18/19 12:53	1
¹³ C2 PFTeDA	46		25 - 150				11/16/19 07:36	11/18/19 12:53	1
¹⁸ O2 PFHxS	121		25 - 150				11/16/19 07:36	11/18/19 12:53	1
¹³ C4 PFOS	105		25 - 150				11/16/19 07:36	11/18/19 12:53	1
d3-NMeFOSAA	91		25 - 150				11/16/19 07:36	11/18/19 12:53	1
d5-NEtFOSAA	114		25 - 150				11/16/19 07:36	11/18/19 12:53	1

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	2030		150	34.2	ug/L		11/19/19 07:16	11/20/19 12:50	1
Silver	10.0	U	10.0	1.1	ug/L		11/19/19 07:16	11/20/19 12:50	1
Aluminum	707		200	28.6	ug/L		11/19/19 07:16	11/20/19 12:50	1
Arsenic	15.0	U	15.0	2.7	ug/L		11/19/19 07:16	11/20/19 12:50	1
Boron	88.7		50.0	12.7	ug/L		11/19/19 07:16	11/20/19 12:50	1
Barium	18.3	J	200	7.7	ug/L		11/19/19 07:16	11/20/19 12:50	1
Beryllium	2.0	U	2.0	0.23	ug/L		11/19/19 07:16	11/20/19 12:50	1
Calcium	44800		5000	222	ug/L		11/19/19 07:16	11/20/19 12:50	1
Cadmium	4.0	U	4.0	0.22	ug/L		11/19/19 07:16	11/20/19 12:50	1
Cobalt	50.0	U	50.0	1.7	ug/L		11/19/19 07:16	11/20/19 12:50	1
Chromium	4.6	J	10.0	1.3	ug/L		11/19/19 07:16	11/20/19 12:50	1
Copper	25.0	U	25.0	5.1	ug/L		11/19/19 07:16	11/20/19 12:50	1
Potassium	36200		5000	323	ug/L		11/19/19 07:16	11/20/19 12:50	1
Magnesium	3060	J	5000	177	ug/L		11/19/19 07:16	11/20/19 12:50	1
Manganese	242		15.0	0.99	ug/L		11/19/19 07:16	11/20/19 12:50	1
Molybdenum	5.5	J	20.0	3.3	ug/L		11/19/19 07:16	11/20/19 12:50	1
Sodium	47500		5000	460	ug/L		11/19/19 07:16	11/20/19 12:50	1
Nickel	2.3	J	40.0	1.7	ug/L		11/19/19 07:16	11/20/19 12:50	1
Lead	10.0	U	10.0	2.5	ug/L		11/19/19 07:16	11/20/19 12:50	1
Antimony	20.0	U	20.0	2.9	ug/L		11/19/19 07:16	11/20/19 12:50	1
Selenium	20.0	U	20.0	6.6	ug/L		11/19/19 07:16	11/20/19 12:50	1
Tin	50.0	U	50.0	2.4	ug/L		11/19/19 07:16	11/20/19 12:50	1
Strontium	420		20.0	0.70	ug/L		11/19/19 07:16	11/20/19 12:50	1
Titanium	44.0		20.0	2.0	ug/L		11/19/19 07:16	11/20/19 12:50	1
Thallium	20.0	U	20.0	5.4	ug/L		11/19/19 07:16	11/20/19 12:50	1
Vanadium	12.0	J	50.0	2.5	ug/L		11/19/19 07:16	11/20/19 12:50	1
Zinc	9.9	J	30.0	3.6	ug/L		11/19/19 07:16	11/20/19 12:50	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.12	ug/L		11/20/19 11:53	11/20/19 13:35	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196258-1

Client Sample ID: WSG-TB-20191108

Lab Sample ID: 460-196258-15

Date Collected: 11/08/19 00:00

Matrix: Water

Date Received: 11/08/19 20:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			11/16/19 01:15	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.37	ug/L			11/16/19 01:15	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			11/16/19 01:15	1
1,1,2-Trichloroethane	1.0	U	1.0	0.43	ug/L			11/16/19 01:15	1
1,1-Dichloroethane	1.0	U	1.0	0.26	ug/L			11/16/19 01:15	1
1,1-Dichloroethene	1.0	U	1.0	0.26	ug/L			11/16/19 01:15	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.37	ug/L			11/16/19 01:15	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.38	ug/L			11/16/19 01:15	1
1,2-Dichlorobenzene	1.0	U	1.0	0.43	ug/L			11/16/19 01:15	1
1,2-Dichloroethane	1.0	U	1.0	0.43	ug/L			11/16/19 01:15	1
1,2-Dichloropropane	1.0	U	1.0	0.35	ug/L			11/16/19 01:15	1
1,3-Dichlorobenzene	1.0	U	1.0	0.34	ug/L			11/16/19 01:15	1
1,4-Dichlorobenzene	1.0	U	1.0	0.33	ug/L			11/16/19 01:15	1
2-Butanone (MEK)	5.0	U	5.0	1.9	ug/L			11/16/19 01:15	1
2-Hexanone	5.0	U	5.0	1.1	ug/L			11/16/19 01:15	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	1.3	ug/L			11/16/19 01:15	1
Acetone	5.0	U	5.0	4.4	ug/L			11/16/19 01:15	1
Benzene	1.0	U	1.0	0.20	ug/L			11/16/19 01:15	1
Bromoform	1.0	U	1.0	0.54	ug/L			11/16/19 01:15	1
Bromomethane	1.0	U	1.0	0.55	ug/L			11/16/19 01:15	1
Carbon disulfide	1.0	U	1.0	0.82	ug/L			11/16/19 01:15	1
Carbon tetrachloride	1.0	U	1.0	0.21	ug/L			11/16/19 01:15	1
Chlorobenzene	1.0	U	1.0	0.38	ug/L			11/16/19 01:15	1
Chlorodibromomethane	1.0	U	1.0	0.28	ug/L			11/16/19 01:15	1
Chloroethane	1.0	U	1.0	0.32	ug/L			11/16/19 01:15	1
Chloroform	1.0	U	1.0	0.33	ug/L			11/16/19 01:15	1
Chloromethane	1.0	U	1.0	0.40	ug/L			11/16/19 01:15	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.22	ug/L			11/16/19 01:15	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.22	ug/L			11/16/19 01:15	1
Cyclohexane	1.0	U	1.0	0.32	ug/L			11/16/19 01:15	1
Dichlorobromomethane	1.0	U	1.0	0.34	ug/L			11/16/19 01:15	1
Dichlorodifluoromethane	1.0	U	1.0	0.31	ug/L			11/16/19 01:15	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			11/16/19 01:15	1
Ethylene Dibromide	1.0	U	1.0	0.50	ug/L			11/16/19 01:15	1
Isopropylbenzene	1.0	U	1.0	0.34	ug/L			11/16/19 01:15	1
Methyl acetate	5.0	U	5.0	0.79	ug/L			11/16/19 01:15	1
Methyl tert-butyl ether	1.0	U	1.0	0.47	ug/L			11/16/19 01:15	1
Methylcyclohexane	1.0	U	1.0	0.26	ug/L			11/16/19 01:15	1
Methylene Chloride	1.0	U	1.0	0.32	ug/L			11/16/19 01:15	1
Styrene	1.0	U	1.0	0.42	ug/L			11/16/19 01:15	1
Tetrachloroethene	1.0	U	1.0	0.25	ug/L			11/16/19 01:15	1
Toluene	1.0	U	1.0	0.38	ug/L			11/16/19 01:15	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			11/16/19 01:15	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.49	ug/L			11/16/19 01:15	1
Trichloroethene	1.0	U	1.0	0.31	ug/L			11/16/19 01:15	1
Trichlorofluoromethane	1.0	U	1.0	0.32	ug/L			11/16/19 01:15	1
Vinyl chloride	1.0	U	1.0	0.17	ug/L			11/16/19 01:15	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			11/16/19 01:15	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196258-1

Client Sample ID: WSG-TB-20191108

Lab Sample ID: 460-196258-15

Date Collected: 11/08/19 00:00

Matrix: Water

Date Received: 11/08/19 20:00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		74 - 132		11/16/19 01:15	1
4-Bromofluorobenzene	94		77 - 124		11/16/19 01:15	1
Dibromofluoromethane (Surr)	95		72 - 131		11/16/19 01:15	1
Toluene-d8 (Surr)	104		80 - 120		11/16/19 01:15	1

Client Sample ID: WSG-GW2-9-0

Lab Sample ID: 460-196258-16

Date Collected: 11/08/19 11:30

Matrix: Water

Date Received: 11/08/19 20:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			11/16/19 07:14	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.37	ug/L			11/16/19 07:14	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			11/16/19 07:14	1
1,1,2-Trichloroethane	1.0	U	1.0	0.43	ug/L			11/16/19 07:14	1
1,1-Dichloroethane	1.0	U	1.0	0.26	ug/L			11/16/19 07:14	1
1,1-Dichloroethene	1.0	U	1.0	0.26	ug/L			11/16/19 07:14	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.37	ug/L			11/16/19 07:14	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.38	ug/L			11/16/19 07:14	1
1,2-Dichlorobenzene	1.0	U	1.0	0.43	ug/L			11/16/19 07:14	1
1,2-Dichloroethane	1.0	U	1.0	0.43	ug/L			11/16/19 07:14	1
1,2-Dichloropropane	1.0	U	1.0	0.35	ug/L			11/16/19 07:14	1
1,3-Dichlorobenzene	1.0	U	1.0	0.34	ug/L			11/16/19 07:14	1
1,4-Dichlorobenzene	1.0	U	1.0	0.33	ug/L			11/16/19 07:14	1
2-Butanone (MEK)	5.0	U	5.0	1.9	ug/L			11/16/19 07:14	1
2-Hexanone	5.0	U	5.0	1.1	ug/L			11/16/19 07:14	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	1.3	ug/L			11/16/19 07:14	1
Acetone	5.0	U	5.0	4.4	ug/L			11/16/19 07:14	1
Benzene	1.0	U	1.0	0.20	ug/L			11/16/19 07:14	1
Bromoform	1.0	U	1.0	0.54	ug/L			11/16/19 07:14	1
Bromomethane	1.0	U	1.0	0.55	ug/L			11/16/19 07:14	1
Carbon disulfide	1.0	U	1.0	0.82	ug/L			11/16/19 07:14	1
Carbon tetrachloride	1.0	U	1.0	0.21	ug/L			11/16/19 07:14	1
Chlorobenzene	1.0	U	1.0	0.38	ug/L			11/16/19 07:14	1
Chlorodibromomethane	1.0	U	1.0	0.28	ug/L			11/16/19 07:14	1
Chloroethane	1.0	U	1.0	0.32	ug/L			11/16/19 07:14	1
Chloroform	1.0	U	1.0	0.33	ug/L			11/16/19 07:14	1
Chloromethane	1.0	U	1.0	0.40	ug/L			11/16/19 07:14	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.22	ug/L			11/16/19 07:14	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.22	ug/L			11/16/19 07:14	1
Cyclohexane	1.0	U	1.0	0.32	ug/L			11/16/19 07:14	1
Dichlorobromomethane	1.0	U	1.0	0.34	ug/L			11/16/19 07:14	1
Dichlorodifluoromethane	1.0	U	1.0	0.31	ug/L			11/16/19 07:14	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			11/16/19 07:14	1
Ethylene Dibromide	1.0	U	1.0	0.50	ug/L			11/16/19 07:14	1
Isopropylbenzene	1.0	U	1.0	0.34	ug/L			11/16/19 07:14	1
Methyl acetate	5.0	U	5.0	0.79	ug/L			11/16/19 07:14	1
Methyl tert-butyl ether	1.0	U	1.0	0.47	ug/L			11/16/19 07:14	1
Methylcyclohexane	1.0	U	1.0	0.26	ug/L			11/16/19 07:14	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196258-1

Client Sample ID: WSG-GW2-9-0

Lab Sample ID: 460-196258-16

Date Collected: 11/08/19 11:30

Matrix: Water

Date Received: 11/08/19 20:00

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	1.0	U	1.0	0.32	ug/L			11/16/19 07:14	1
Styrene	1.0	U	1.0	0.42	ug/L			11/16/19 07:14	1
Tetrachloroethene	1.0	U	1.0	0.25	ug/L			11/16/19 07:14	1
Toluene	1.0	U	1.0	0.38	ug/L			11/16/19 07:14	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			11/16/19 07:14	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.49	ug/L			11/16/19 07:14	1
Trichloroethene	1.0	U	1.0	0.31	ug/L			11/16/19 07:14	1
Trichlorofluoromethane	1.0	U	1.0	0.32	ug/L			11/16/19 07:14	1
Vinyl chloride	1.0	U	1.0	0.17	ug/L			11/16/19 07:14	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			11/16/19 07:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		74 - 132		11/16/19 07:14	1
4-Bromofluorobenzene	93		77 - 124		11/16/19 07:14	1
Dibromofluoromethane (Surr)	95		72 - 131		11/16/19 07:14	1
Toluene-d8 (Surr)	103		80 - 120		11/16/19 07:14	1

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.40	U	0.40	0.17	ug/L		11/13/19 09:58	11/14/19 18:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	90		38 - 125	11/13/19 09:58	11/14/19 18:31	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	10	U	10	1.2	ug/L		11/13/19 09:58	11/14/19 12:59	1
2,2'-oxybis[1-chloropropane]	10	U	10	0.63	ug/L		11/13/19 09:58	11/14/19 12:59	1
2,4,5-Trichlorophenol	10	U	10	0.88	ug/L		11/13/19 09:58	11/14/19 12:59	1
2,4,6-Trichlorophenol	10	U	10	0.86	ug/L		11/13/19 09:58	11/14/19 12:59	1
2,4-Dichlorophenol	10	U	10	1.1	ug/L		11/13/19 09:58	11/14/19 12:59	1
2,4-Dimethylphenol	10	U	10	0.62	ug/L		11/13/19 09:58	11/14/19 12:59	1
2,4-Dinitrophenol	20	U	20	14	ug/L		11/13/19 09:58	11/14/19 12:59	1
2,4-Dinitrotoluene	2.0	U	2.0	1.0	ug/L		11/13/19 09:58	11/14/19 12:59	1
2,6-Dinitrotoluene	2.0	U	2.0	0.83	ug/L		11/13/19 09:58	11/14/19 12:59	1
2-Chloronaphthalene	10	U	10	1.2	ug/L		11/13/19 09:58	11/14/19 12:59	1
2-Chlorophenol	10	U	10	0.38	ug/L		11/13/19 09:58	11/14/19 12:59	1
2-Methylnaphthalene	10	U	10	1.1	ug/L		11/13/19 09:58	11/14/19 12:59	1
2-Methylphenol	10	U	10	0.67	ug/L		11/13/19 09:58	11/14/19 12:59	1
2-Nitroaniline	10	U	10	0.47	ug/L		11/13/19 09:58	11/14/19 12:59	1
2-Nitrophenol	10	U	10	0.75	ug/L		11/13/19 09:58	11/14/19 12:59	1
3,3'-Dichlorobenzidine	10	U *	10	1.4	ug/L		11/13/19 09:58	11/14/19 12:59	1
3-Nitroaniline	10	U	10	1.9	ug/L		11/13/19 09:58	11/14/19 12:59	1
4,6-Dinitro-2-methylphenol	20	U	20	13	ug/L		11/13/19 09:58	11/14/19 12:59	1
4-Bromophenyl phenyl ether	10	U	10	0.75	ug/L		11/13/19 09:58	11/14/19 12:59	1
4-Chloro-3-methylphenol	10	U	10	0.58	ug/L		11/13/19 09:58	11/14/19 12:59	1
4-Chloroaniline	10	U	10	1.9	ug/L		11/13/19 09:58	11/14/19 12:59	1
4-Chlorophenyl phenyl ether	10	U	10	1.3	ug/L		11/13/19 09:58	11/14/19 12:59	1
4-Methylphenol	10	U	10	0.65	ug/L		11/13/19 09:58	11/14/19 12:59	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196258-1

Client Sample ID: WSG-GW2-9-0

Lab Sample ID: 460-196258-16

Date Collected: 11/08/19 11:30

Matrix: Water

Date Received: 11/08/19 20:00

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitroaniline	10	U	10	1.2	ug/L		11/13/19 09:58	11/14/19 12:59	1
4-Nitrophenol	20	U	20	4.0	ug/L		11/13/19 09:58	11/14/19 12:59	1
Acenaphthene	10	U	10	1.1	ug/L		11/13/19 09:58	11/14/19 12:59	1
Acenaphthylene	10	U	10	0.82	ug/L		11/13/19 09:58	11/14/19 12:59	1
Acetophenone	10	U	10	2.3	ug/L		11/13/19 09:58	11/14/19 12:59	1
Anthracene	10	U	10	0.63	ug/L		11/13/19 09:58	11/14/19 12:59	1
Atrazine	2.0	U *	2.0	1.3	ug/L		11/13/19 09:58	11/14/19 12:59	1
Benzaldehyde	10	U	10	2.1	ug/L		11/13/19 09:58	11/14/19 12:59	1
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		11/13/19 09:58	11/14/19 12:59	1
Benzo[a]pyrene	1.0	U	1.0	0.41	ug/L		11/13/19 09:58	11/14/19 12:59	1
Benzo[b]fluoranthene	2.0	U	2.0	0.68	ug/L		11/13/19 09:58	11/14/19 12:59	1
Benzo[g,h,i]perylene	10	U	10	1.4	ug/L		11/13/19 09:58	11/14/19 12:59	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		11/13/19 09:58	11/14/19 12:59	1
Bis(2-chloroethoxy)methane	10	U	10	0.59	ug/L		11/13/19 09:58	11/14/19 12:59	1
Bis(2-chloroethyl)ether	1.0	U	1.0	0.63	ug/L		11/13/19 09:58	11/14/19 12:59	1
Bis(2-ethylhexyl) phthalate	2.0	U	2.0	1.7	ug/L		11/13/19 09:58	11/14/19 12:59	1
Butyl benzyl phthalate	10	U	10	0.85	ug/L		11/13/19 09:58	11/14/19 12:59	1
Caprolactam	10	U *	10	0.68	ug/L		11/13/19 09:58	11/14/19 12:59	1
Carbazole	10	U	10	0.68	ug/L		11/13/19 09:58	11/14/19 12:59	1
Chrysene	2.0	U	2.0	0.91	ug/L		11/13/19 09:58	11/14/19 12:59	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		11/13/19 09:58	11/14/19 12:59	1
Dibenzofuran	10	U	10	1.1	ug/L		11/13/19 09:58	11/14/19 12:59	1
Diethyl phthalate	10	U	10	0.98	ug/L		11/13/19 09:58	11/14/19 12:59	1
Dimethyl phthalate	10	U	10	0.77	ug/L		11/13/19 09:58	11/14/19 12:59	1
Di-n-butyl phthalate	10	U	10	0.84	ug/L		11/13/19 09:58	11/14/19 12:59	1
Di-n-octyl phthalate	10	U	10	4.8	ug/L		11/13/19 09:58	11/14/19 12:59	1
Fluoranthene	10	U	10	0.84	ug/L		11/13/19 09:58	11/14/19 12:59	1
Fluorene	10	U	10	0.91	ug/L		11/13/19 09:58	11/14/19 12:59	1
Hexachlorobenzene	1.0	U	1.0	0.40	ug/L		11/13/19 09:58	11/14/19 12:59	1
Hexachlorobutadiene	1.0	U	1.0	0.78	ug/L		11/13/19 09:58	11/14/19 12:59	1
Hexachlorocyclopentadiene	10	U	10	3.6	ug/L		11/13/19 09:58	11/14/19 12:59	1
Hexachloroethane	2.0	U	2.0	0.80	ug/L		11/13/19 09:58	11/14/19 12:59	1
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	0.94	ug/L		11/13/19 09:58	11/14/19 12:59	1
Isophorone	10	U	10	0.80	ug/L		11/13/19 09:58	11/14/19 12:59	1
Naphthalene	10	U	10	1.1	ug/L		11/13/19 09:58	11/14/19 12:59	1
Nitrobenzene	1.0	U	1.0	0.57	ug/L		11/13/19 09:58	11/14/19 12:59	1
N-Nitrosodi-n-propylamine	1.0	U	1.0	0.43	ug/L		11/13/19 09:58	11/14/19 12:59	1
N-Nitrosodiphenylamine	10	U	10	0.89	ug/L		11/13/19 09:58	11/14/19 12:59	1
Pentachlorophenol	20	U	20	1.4	ug/L		11/13/19 09:58	11/14/19 12:59	1
Phenanthrene	10	U	10	0.58	ug/L		11/13/19 09:58	11/14/19 12:59	1
Phenol	10	U	10	0.29	ug/L		11/13/19 09:58	11/14/19 12:59	1
Pyrene	10	U	10	1.6	ug/L		11/13/19 09:58	11/14/19 12:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	93		26 - 139	11/13/19 09:58	11/14/19 12:59	1
2-Fluorobiphenyl	76		45 - 107	11/13/19 09:58	11/14/19 12:59	1
2-Fluorophenol (Surr)	38		25 - 58	11/13/19 09:58	11/14/19 12:59	1
Nitrobenzene-d5 (Surr)	83		51 - 108	11/13/19 09:58	11/14/19 12:59	1
Phenol-d5 (Surr)	24		14 - 39	11/13/19 09:58	11/14/19 12:59	1

Eurofins TestAmerica, Edison

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196258-1

Client Sample ID: WSG-GW2-9-0

Lab Sample ID: 460-196258-16

Date Collected: 11/08/19 11:30

Matrix: Water

Date Received: 11/08/19 20:00

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14 (Surr)	56		40 - 148	11/13/19 09:58	11/14/19 12:59	1

Method: 608.3 - Organochlorine Pesticides/PCBs in Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.020	U	0.020	0.012	ug/L		11/12/19 16:57	11/18/19 14:21	1
alpha-BHC	0.020	U	0.020	0.013	ug/L		11/12/19 16:57	11/18/19 14:21	1
beta-BHC	0.030	U	0.030	0.015	ug/L		11/12/19 16:57	11/18/19 14:21	1
delta-BHC	0.020	U	0.020	0.0090	ug/L		11/12/19 16:57	11/18/19 14:21	1
gamma-BHC (Lindane)	0.030	U	0.030	0.013	ug/L		11/12/19 16:57	11/18/19 14:21	1
Chlordane	0.50	U	0.50	0.093	ug/L		11/12/19 16:57	11/18/19 14:21	1
4,4'-DDD	0.040	U	0.040	0.018	ug/L		11/12/19 16:57	11/18/19 14:21	1
4,4'-DDE	0.030	U	0.030	0.018	ug/L		11/12/19 16:57	11/18/19 14:21	1
4,4'-DDT	0.030	U	0.030	0.025	ug/L		11/12/19 16:57	11/18/19 14:21	1
Dieldrin	0.020	U	0.020	0.016	ug/L		11/12/19 16:57	11/18/19 14:21	1
Endosulfan I	0.030	U	0.030	0.014	ug/L		11/12/19 16:57	11/18/19 14:21	1
Endosulfan II	0.030	U	0.030	0.017	ug/L		11/12/19 16:57	11/18/19 14:21	1
Endosulfan sulfate	0.030	U *	0.030	0.015	ug/L		11/12/19 16:57	11/18/19 14:21	1
Endrin	0.030	U *	0.030	0.021	ug/L		11/12/19 16:57	11/18/19 14:21	1
Endrin aldehyde	0.030	U	0.030	0.024	ug/L		11/12/19 16:57	11/18/19 14:21	1
Endrin ketone	0.030	U	0.030	0.013	ug/L		11/12/19 16:57	11/18/19 14:21	1
Heptachlor	0.030	U	0.030	0.014	ug/L		11/12/19 16:57	11/18/19 14:21	1
Heptachlor epoxide	0.030	U	0.030	0.014	ug/L		11/12/19 16:57	11/18/19 14:21	1
Methoxychlor	0.030	U	0.030	0.030	ug/L		11/12/19 16:57	11/18/19 14:21	1
Toxaphene	0.50	U	0.50	0.20	ug/L		11/12/19 16:57	11/18/19 14:21	1
Aroclor 1016	1.0	U	1.0	0.030	ug/L		11/12/19 16:57	11/18/19 14:21	1
Aroclor 1221	1.0	U	1.0	0.030	ug/L		11/12/19 16:57	11/18/19 14:21	1
Aroclor 1232	1.0	U	1.0	0.030	ug/L		11/12/19 16:57	11/18/19 14:21	1
Aroclor 1242	1.0	U	1.0	0.030	ug/L		11/12/19 16:57	11/18/19 14:21	1
Aroclor 1248	1.0	U	1.0	0.030	ug/L		11/12/19 16:57	11/18/19 14:21	1
Aroclor 1254	1.0	U	1.0	0.037	ug/L		11/12/19 16:57	11/18/19 14:21	1
Aroclor 1260	1.0	U	1.0	0.037	ug/L		11/12/19 16:57	11/18/19 14:21	1
Aroclor 1262	1.0	U	1.0	0.037	ug/L		11/12/19 16:57	11/18/19 14:21	1
Aroclor 1268	1.0	U	1.0	0.037	ug/L		11/12/19 16:57	11/18/19 14:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	62		10 - 150	11/12/19 16:57	11/18/19 14:21	1
Tetrachloro-m-xylene	70		10 - 150	11/12/19 16:57	11/18/19 14:21	1
DCB Decachlorobiphenyl	52		10 - 150	11/12/19 16:57	11/18/19 14:21	1
DCB Decachlorobiphenyl	65		10 - 150	11/12/19 16:57	11/18/19 14:21	1

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	1.2	U	1.2	0.13	ug/L		11/13/19 23:40	11/14/19 20:14	1
Silvex (2,4,5-TP)	1.2	U	1.2	0.11	ug/L		11/13/19 23:40	11/14/19 20:14	1
2,4,5-T	1.2	U	1.2	0.12	ug/L		11/13/19 23:40	11/14/19 20:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	85		54 - 150	11/13/19 23:40	11/14/19 20:14	1
2,4-Dichlorophenylacetic acid	88		54 - 150	11/13/19 23:40	11/14/19 20:14	1

Eurofins TestAmerica, Edison

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196258-1

Client Sample ID: WSG-GW2-9-0

Lab Sample ID: 460-196258-16

Date Collected: 11/08/19 11:30

Matrix: Water

Date Received: 11/08/19 20:00

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	39.7		1.96	0.57	ng/L		11/16/19 07:36	11/18/19 13:12	1
Perfluoroheptanoic acid (PFHpA)	8.70		1.96	0.24	ng/L		11/16/19 07:36	11/18/19 13:12	1
Perfluorooctanoic acid (PFOA)	17.6		1.96	0.83	ng/L		11/16/19 07:36	11/18/19 13:12	1
Perfluorononanoic acid (PFNA)	15.5		1.96	0.26	ng/L		11/16/19 07:36	11/18/19 13:12	1
Perfluorodecanoic acid (PFDA)	0.38	J	1.96	0.30	ng/L		11/16/19 07:36	11/18/19 13:12	1
Perfluoroundecanoic acid (PFUnA)	1.96	U	1.96	1.08	ng/L		11/16/19 07:36	11/18/19 13:12	1
Perfluorododecanoic acid (PFDoA)	1.96	U	1.96	0.54	ng/L		11/16/19 07:36	11/18/19 13:12	1
Perfluorotridecanoic acid (PFTriA)	1.96	U	1.96	1.27	ng/L		11/16/19 07:36	11/18/19 13:12	1
Perfluorotetradecanoic acid (PFTeA)	1.96	U	1.96	0.28	ng/L		11/16/19 07:36	11/18/19 13:12	1
Perfluorobutanesulfonic acid (PFBS)	10.5		1.96	0.20	ng/L		11/16/19 07:36	11/18/19 13:12	1
Perfluorohexanesulfonic acid (PFHxS)	229	B	1.96	0.17	ng/L		11/16/19 07:36	11/18/19 13:12	1
Perfluorooctanesulfonic acid (PFOS)	84.6		1.96	0.53	ng/L		11/16/19 07:36	11/18/19 13:12	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	19.6	U	19.6	1.86	ng/L		11/16/19 07:36	11/18/19 13:12	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	19.6	U	19.6	3.03	ng/L		11/16/19 07:36	11/18/19 13:12	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C2 PFHxA	97		25 - 150				11/16/19 07:36	11/18/19 13:12	1
13C4 PFHpA	104		25 - 150				11/16/19 07:36	11/18/19 13:12	1
13C4 PFOA	103		25 - 150				11/16/19 07:36	11/18/19 13:12	1
13C5 PFNA	95		25 - 150				11/16/19 07:36	11/18/19 13:12	1
13C2 PFDA	89		25 - 150				11/16/19 07:36	11/18/19 13:12	1
13C2 PFUnA	92		25 - 150				11/16/19 07:36	11/18/19 13:12	1
13C2 PFDoA	91		25 - 150				11/16/19 07:36	11/18/19 13:12	1
13C2 PFTeDA	78		25 - 150				11/16/19 07:36	11/18/19 13:12	1
18O2 PFHxS	110		25 - 150				11/16/19 07:36	11/18/19 13:12	1
13C4 PFOS	90		25 - 150				11/16/19 07:36	11/18/19 13:12	1
d3-NMeFOSAA	78		25 - 150				11/16/19 07:36	11/18/19 13:12	1
d5-NEtFOSAA	84		25 - 150				11/16/19 07:36	11/18/19 13:12	1

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	58900		150	34.2	ug/L		11/19/19 07:16	11/20/19 12:54	1
Silver	1.2	J	10.0	1.1	ug/L		11/19/19 07:16	11/20/19 12:54	1
Aluminum	70.3	J	200	28.6	ug/L		11/19/19 07:16	11/20/19 12:54	1
Arsenic	5.7	J	15.0	2.7	ug/L		11/19/19 07:16	11/20/19 12:54	1
Boron	33.4	J	50.0	12.7	ug/L		11/19/19 07:16	11/20/19 12:54	1
Barium	59.4	J	200	7.7	ug/L		11/19/19 07:16	11/20/19 12:54	1
Beryllium	2.0	U	2.0	0.23	ug/L		11/19/19 07:16	11/20/19 12:54	1
Calcium	20500		5000	222	ug/L		11/19/19 07:16	11/20/19 12:54	1
Cadmium	4.0	U	4.0	0.22	ug/L		11/19/19 07:16	11/20/19 12:54	1
Cobalt	18.1	J	50.0	1.7	ug/L		11/19/19 07:16	11/20/19 12:54	1
Chromium	5.5	J	10.0	1.3	ug/L		11/19/19 07:16	11/20/19 12:54	1
Copper	25.0	U	25.0	5.1	ug/L		11/19/19 07:16	11/20/19 12:54	1
Potassium	3960	J	5000	323	ug/L		11/19/19 07:16	11/20/19 12:54	1
Magnesium	5540		5000	177	ug/L		11/19/19 07:16	11/20/19 12:54	1
Manganese	3380		15.0	0.99	ug/L		11/19/19 07:16	11/20/19 12:54	1

Eurofins TestAmerica, Edison

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196258-1

Client Sample ID: WSG-GW2-9-0

Lab Sample ID: 460-196258-16

Date Collected: 11/08/19 11:30

Matrix: Water

Date Received: 11/08/19 20:00

Method: 6010D - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Molybdenum	20.0	U	20.0	3.3	ug/L		11/19/19 07:16	11/20/19 12:54	1
Sodium	12400		5000	460	ug/L		11/19/19 07:16	11/20/19 12:54	1
Nickel	6.5	J	40.0	1.7	ug/L		11/19/19 07:16	11/20/19 12:54	1
Lead	4.6	J	10.0	2.5	ug/L		11/19/19 07:16	11/20/19 12:54	1
Antimony	20.0	U	20.0	2.9	ug/L		11/19/19 07:16	11/20/19 12:54	1
Selenium	20.0	U	20.0	6.6	ug/L		11/19/19 07:16	11/20/19 12:54	1
Tin	50.0	U	50.0	2.4	ug/L		11/19/19 07:16	11/20/19 12:54	1
Strontium	103		20.0	0.70	ug/L		11/19/19 07:16	11/20/19 12:54	1
Titanium	3.9	J	20.0	2.0	ug/L		11/19/19 07:16	11/20/19 12:54	1
Thallium	5.9	J	20.0	5.4	ug/L		11/19/19 07:16	11/20/19 12:54	1
Vanadium	50.0	U	50.0	2.5	ug/L		11/19/19 07:16	11/20/19 12:54	1
Zinc	10.1	J	30.0	3.6	ug/L		11/19/19 07:16	11/20/19 12:54	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.12	ug/L		11/20/19 11:53	11/20/19 12:56	1

Client Sample ID: WSG-GW2-19-0

Lab Sample ID: 460-196258-17

Date Collected: 11/08/19 09:45

Matrix: Water

Date Received: 11/08/19 20:00

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	6.41		1.95	0.56	ng/L		11/16/19 07:36	11/18/19 13:22	1
Perfluoroheptanoic acid (PFHpA)	1.61	J	1.95	0.24	ng/L		11/16/19 07:36	11/18/19 13:22	1
Perfluorooctanoic acid (PFOA)	3.78		1.95	0.83	ng/L		11/16/19 07:36	11/18/19 13:22	1
Perfluorononanoic acid (PFNA)	4.80		1.95	0.26	ng/L		11/16/19 07:36	11/18/19 13:22	1
Perfluorodecanoic acid (PFDA)	1.95	U	1.95	0.30	ng/L		11/16/19 07:36	11/18/19 13:22	1
Perfluoroundecanoic acid (PFUnA)	1.95	U	1.95	1.07	ng/L		11/16/19 07:36	11/18/19 13:22	1
Perfluorododecanoic acid (PFDoA)	1.95	U	1.95	0.54	ng/L		11/16/19 07:36	11/18/19 13:22	1
Perfluorotridecanoic acid (PFTriA)	1.95	U	1.95	1.27	ng/L		11/16/19 07:36	11/18/19 13:22	1
Perfluorotetradecanoic acid (PFTeA)	1.95	U	1.95	0.28	ng/L		11/16/19 07:36	11/18/19 13:22	1
Perfluorobutanesulfonic acid (PFBS)	2.59		1.95	0.19	ng/L		11/16/19 07:36	11/18/19 13:22	1
Perfluorohexanesulfonic acid (PFHxS)	32.5	B	1.95	0.17	ng/L		11/16/19 07:36	11/18/19 13:22	1
Perfluorooctanesulfonic acid (PFOS)	37.9		1.95	0.53	ng/L		11/16/19 07:36	11/18/19 13:22	1
N-ethylperfluorooctanesulfonamidoacetic acid (NETFOSAA)	19.5	U	19.5	1.85	ng/L		11/16/19 07:36	11/18/19 13:22	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	19.5	U	19.5	3.02	ng/L		11/16/19 07:36	11/18/19 13:22	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C2 PFHxA	112		25 - 150				11/16/19 07:36	11/18/19 13:22	1
13C4 PFHpA	115		25 - 150				11/16/19 07:36	11/18/19 13:22	1
13C4 PFOA	109		25 - 150				11/16/19 07:36	11/18/19 13:22	1
13C5 PFNA	101		25 - 150				11/16/19 07:36	11/18/19 13:22	1
13C2 PFDA	100		25 - 150				11/16/19 07:36	11/18/19 13:22	1
13C2 PFUnA	101		25 - 150				11/16/19 07:36	11/18/19 13:22	1
13C2 PFDoA	102		25 - 150				11/16/19 07:36	11/18/19 13:22	1

Eurofins TestAmerica, Edison

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196258-1

Client Sample ID: WSG-GW2-19-0

Lab Sample ID: 460-196258-17

Date Collected: 11/08/19 09:45

Matrix: Water

Date Received: 11/08/19 20:00

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFTeDA	93		25 - 150	11/16/19 07:36	11/18/19 13:22	1
18O2 PFHxS	118		25 - 150	11/16/19 07:36	11/18/19 13:22	1
13C4 PFOS	97		25 - 150	11/16/19 07:36	11/18/19 13:22	1
d3-NMeFOSAA	81		25 - 150	11/16/19 07:36	11/18/19 13:22	1
d5-NEtFOSAA	91		25 - 150	11/16/19 07:36	11/18/19 13:22	1

Client Sample ID: WSG-GW2-29-0

Lab Sample ID: 460-196258-18

Date Collected: 11/08/19 08:35

Matrix: Water

Date Received: 11/08/19 20:00

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	12.9		1.88	0.54	ng/L		11/16/19 07:36	11/18/19 13:32	1
Perfluoroheptanoic acid (PFHpA)	3.44		1.88	0.23	ng/L		11/16/19 07:36	11/18/19 13:32	1
Perfluorooctanoic acid (PFOA)	7.44		1.88	0.80	ng/L		11/16/19 07:36	11/18/19 13:32	1
Perfluorononanoic acid (PFNA)	13.0		1.88	0.25	ng/L		11/16/19 07:36	11/18/19 13:32	1
Perfluorodecanoic acid (PFDA)	1.88	U	1.88	0.29	ng/L		11/16/19 07:36	11/18/19 13:32	1
Perfluoroundecanoic acid (PFUnA)	1.88	U	1.88	1.03	ng/L		11/16/19 07:36	11/18/19 13:32	1
Perfluorododecanoic acid (PFDoA)	1.88	U	1.88	0.52	ng/L		11/16/19 07:36	11/18/19 13:32	1
Perfluorotridecanoic acid (PFTriA)	1.88	U	1.88	1.22	ng/L		11/16/19 07:36	11/18/19 13:32	1
Perfluorotetradecanoic acid (PFTeA)	1.88	U	1.88	0.27	ng/L		11/16/19 07:36	11/18/19 13:32	1
Perfluorobutanesulfonic acid (PFBS)	5.42		1.88	0.19	ng/L		11/16/19 07:36	11/18/19 13:32	1
Perfluorohexanesulfonic acid (PFHxS)	50.1	B	1.88	0.16	ng/L		11/16/19 07:36	11/18/19 13:32	1
Perfluorooctanesulfonic acid (PFOS)	52.1		1.88	0.51	ng/L		11/16/19 07:36	11/18/19 13:32	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	18.8	U	18.8	1.78	ng/L		11/16/19 07:36	11/18/19 13:32	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	18.8	U	18.8	2.91	ng/L		11/16/19 07:36	11/18/19 13:32	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFHxA	103		25 - 150	11/16/19 07:36	11/18/19 13:32	1
13C4 PFHpA	109		25 - 150	11/16/19 07:36	11/18/19 13:32	1
13C4 PFOA	103		25 - 150	11/16/19 07:36	11/18/19 13:32	1
13C5 PFNA	98		25 - 150	11/16/19 07:36	11/18/19 13:32	1
13C2 PFDA	94		25 - 150	11/16/19 07:36	11/18/19 13:32	1
13C2 PFUnA	91		25 - 150	11/16/19 07:36	11/18/19 13:32	1
13C2 PFDoA	87		25 - 150	11/16/19 07:36	11/18/19 13:32	1
13C2 PFTeDA	72		25 - 150	11/16/19 07:36	11/18/19 13:32	1
18O2 PFHxS	115		25 - 150	11/16/19 07:36	11/18/19 13:32	1
13C4 PFOS	91		25 - 150	11/16/19 07:36	11/18/19 13:32	1
d3-NMeFOSAA	73		25 - 150	11/16/19 07:36	11/18/19 13:32	1
d5-NEtFOSAA	75		25 - 150	11/16/19 07:36	11/18/19 13:32	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196258-1

Client Sample ID: WSG-GW2-29-1

Lab Sample ID: 460-196258-19

Date Collected: 11/08/19 08:35

Matrix: Water

Date Received: 11/08/19 20:00

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	12.5		1.90	0.55	ng/L		11/16/19 07:36	11/18/19 13:41	1
Perfluoroheptanoic acid (PFHpA)	3.40		1.90	0.24	ng/L		11/16/19 07:36	11/18/19 13:41	1
Perfluorooctanoic acid (PFOA)	7.28		1.90	0.81	ng/L		11/16/19 07:36	11/18/19 13:41	1
Perfluorononanoic acid (PFNA)	12.9		1.90	0.26	ng/L		11/16/19 07:36	11/18/19 13:41	1
Perfluorodecanoic acid (PFDA)	1.90	U	1.90	0.29	ng/L		11/16/19 07:36	11/18/19 13:41	1
Perfluoroundecanoic acid (PFUnA)	1.90	U	1.90	1.05	ng/L		11/16/19 07:36	11/18/19 13:41	1
Perfluorododecanoic acid (PFDoA)	1.90	U	1.90	0.52	ng/L		11/16/19 07:36	11/18/19 13:41	1
Perfluorotridecanoic acid (PFTriA)	1.90	U	1.90	1.24	ng/L		11/16/19 07:36	11/18/19 13:41	1
Perfluorotetradecanoic acid (PFTeA)	1.90	U	1.90	0.28	ng/L		11/16/19 07:36	11/18/19 13:41	1
Perfluorobutanesulfonic acid (PFBS)	5.06		1.90	0.19	ng/L		11/16/19 07:36	11/18/19 13:41	1
Perfluorohexanesulfonic acid (PFHxS)	50.4	B	1.90	0.16	ng/L		11/16/19 07:36	11/18/19 13:41	1
Perfluorooctanesulfonic acid (PFOS)	52.1		1.90	0.51	ng/L		11/16/19 07:36	11/18/19 13:41	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	19.0	U	19.0	1.81	ng/L		11/16/19 07:36	11/18/19 13:41	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	19.0	U	19.0	2.95	ng/L		11/16/19 07:36	11/18/19 13:41	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C2 PFHxA	103		25 - 150				11/16/19 07:36	11/18/19 13:41	1
13C4 PFHpA	109		25 - 150				11/16/19 07:36	11/18/19 13:41	1
13C4 PFOA	103		25 - 150				11/16/19 07:36	11/18/19 13:41	1
13C5 PFNA	98		25 - 150				11/16/19 07:36	11/18/19 13:41	1
13C2 PFDA	89		25 - 150				11/16/19 07:36	11/18/19 13:41	1
13C2 PFUnA	91		25 - 150				11/16/19 07:36	11/18/19 13:41	1
13C2 PFDoA	89		25 - 150				11/16/19 07:36	11/18/19 13:41	1
13C2 PFTeDA	79		25 - 150				11/16/19 07:36	11/18/19 13:41	1
18O2 PFHxS	115		25 - 150				11/16/19 07:36	11/18/19 13:41	1
13C4 PFOS	90		25 - 150				11/16/19 07:36	11/18/19 13:41	1
d3-NMeFOSAA	75		25 - 150				11/16/19 07:36	11/18/19 13:41	1
d5-NEtFOSAA	76		25 - 150				11/16/19 07:36	11/18/19 13:41	1

Client Sample ID: WSG-GS2-0.5-2.0-0

Lab Sample ID: 460-196258-20

Date Collected: 11/07/19 14:20

Matrix: Solid

Date Received: 11/08/19 20:00

Percent Solids: 85.4

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.1	U	1.1	0.26	ug/Kg	☼	11/15/19 10:42	11/16/19 01:39	1
1,1,2,2-Tetrachloroethane	1.1	U	1.1	0.24	ug/Kg	☼	11/15/19 10:42	11/16/19 01:39	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.1	U	1.1	0.33	ug/Kg	☼	11/15/19 10:42	11/16/19 01:39	1
1,1,2-Trichloroethane	1.1	U	1.1	0.20	ug/Kg	☼	11/15/19 10:42	11/16/19 01:39	1
1,1-Dichloroethane	1.1	U	1.1	0.23	ug/Kg	☼	11/15/19 10:42	11/16/19 01:39	1
1,1-Dichloroethene	1.1	U	1.1	0.25	ug/Kg	☼	11/15/19 10:42	11/16/19 01:39	1
1,2,4-Trichlorobenzene	1.1	U	1.1	0.40	ug/Kg	☼	11/15/19 10:42	11/16/19 01:39	1
1,2-Dibromo-3-Chloropropane	1.1	U	1.1	0.51	ug/Kg	☼	11/15/19 10:42	11/16/19 01:39	1
1,2-Dichlorobenzene	1.1	U	1.1	0.16	ug/Kg	☼	11/15/19 10:42	11/16/19 01:39	1
1,2-Dichloroethane	1.1	U	1.1	0.33	ug/Kg	☼	11/15/19 10:42	11/16/19 01:39	1
1,2-Dichloropropane	1.1	U	1.1	0.47	ug/Kg	☼	11/15/19 10:42	11/16/19 01:39	1

Euofins TestAmerica, Edison

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196258-1

Client Sample ID: WSG-GS2-0.5-2.0-0

Lab Sample ID: 460-196258-20

Date Collected: 11/07/19 14:20

Matrix: Solid

Date Received: 11/08/19 20:00

Percent Solids: 85.4

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	1.1	U	1.1	0.18	ug/Kg	☼	11/15/19 10:42	11/16/19 01:39	1
1,4-Dichlorobenzene	1.1	U	1.1	0.25	ug/Kg	☼	11/15/19 10:42	11/16/19 01:39	1
2-Butanone (MEK)	5.6	U	5.6	3.0	ug/Kg	☼	11/15/19 10:42	11/16/19 01:39	1
2-Hexanone	5.6	U	5.6	1.9	ug/Kg	☼	11/15/19 10:42	11/16/19 01:39	1
4-Methyl-2-pentanone (MIBK)	5.6	U	5.6	1.7	ug/Kg	☼	11/15/19 10:42	11/16/19 01:39	1
Acetone	6.7	U	6.7	6.4	ug/Kg	☼	11/15/19 10:42	11/16/19 01:39	1
Benzene	1.1	U	1.1	0.29	ug/Kg	☼	11/15/19 10:42	11/16/19 01:39	1
Bromoform	1.1	U	1.1	0.47	ug/Kg	☼	11/15/19 10:42	11/16/19 01:39	1
Bromomethane	1.1	U	1.1	0.53	ug/Kg	☼	11/15/19 10:42	11/16/19 01:39	1
Carbon disulfide	1.1	U	1.1	0.30	ug/Kg	☼	11/15/19 10:42	11/16/19 01:39	1
Carbon tetrachloride	1.1	U	1.1	0.43	ug/Kg	☼	11/15/19 10:42	11/16/19 01:39	1
Chlorobenzene	1.1	U	1.1	0.20	ug/Kg	☼	11/15/19 10:42	11/16/19 01:39	1
Chlorodibromomethane	1.1	U	1.1	0.22	ug/Kg	☼	11/15/19 10:42	11/16/19 01:39	1
Chloroethane	1.1	U	1.1	0.58	ug/Kg	☼	11/15/19 10:42	11/16/19 01:39	1
Chloroform	1.1	U	1.1	0.35	ug/Kg	☼	11/15/19 10:42	11/16/19 01:39	1
Chloromethane	1.1	U	1.1	0.48	ug/Kg	☼	11/15/19 10:42	11/16/19 01:39	1
cis-1,2-Dichloroethene	1.1	U	1.1	0.17	ug/Kg	☼	11/15/19 10:42	11/16/19 01:39	1
cis-1,3-Dichloropropene	1.1	U	1.1	0.30	ug/Kg	☼	11/15/19 10:42	11/16/19 01:39	1
Cyclohexane	1.1	U	1.1	0.25	ug/Kg	☼	11/15/19 10:42	11/16/19 01:39	1
Dichlorobromomethane	1.1	U	1.1	0.29	ug/Kg	☼	11/15/19 10:42	11/16/19 01:39	1
Dichlorodifluoromethane	1.1	U	1.1	0.38	ug/Kg	☼	11/15/19 10:42	11/16/19 01:39	1
Ethylbenzene	1.1	U	1.1	0.22	ug/Kg	☼	11/15/19 10:42	11/16/19 01:39	1
Ethylene Dibromide	1.1	U	1.1	0.20	ug/Kg	☼	11/15/19 10:42	11/16/19 01:39	1
Isopropylbenzene	1.1	U	1.1	0.14	ug/Kg	☼	11/15/19 10:42	11/16/19 01:39	1
Methyl acetate	5.6	U	5.6	4.8	ug/Kg	☼	11/15/19 10:42	11/16/19 01:39	1
Methyl tert-butyl ether	1.1	U	1.1	0.14	ug/Kg	☼	11/15/19 10:42	11/16/19 01:39	1
Methylcyclohexane	1.1	U	1.1	0.55	ug/Kg	☼	11/15/19 10:42	11/16/19 01:39	1
Methylene Chloride	1.1	U	1.1	0.52	ug/Kg	☼	11/15/19 10:42	11/16/19 01:39	1
Styrene	1.1	U	1.1	0.31	ug/Kg	☼	11/15/19 10:42	11/16/19 01:39	1
Tetrachloroethene	1.1	U	1.1	0.16	ug/Kg	☼	11/15/19 10:42	11/16/19 01:39	1
Toluene	1.1	U	1.1	0.26	ug/Kg	☼	11/15/19 10:42	11/16/19 01:39	1
trans-1,2-Dichloroethene	1.1	U	1.1	0.27	ug/Kg	☼	11/15/19 10:42	11/16/19 01:39	1
trans-1,3-Dichloropropene	1.1	U	1.1	0.30	ug/Kg	☼	11/15/19 10:42	11/16/19 01:39	1
Trichloroethene	1.1	U	1.1	0.16	ug/Kg	☼	11/15/19 10:42	11/16/19 01:39	1
Trichlorofluoromethane	1.1	U	1.1	0.45	ug/Kg	☼	11/15/19 10:42	11/16/19 01:39	1
Vinyl chloride	1.1	U	1.1	0.61	ug/Kg	☼	11/15/19 10:42	11/16/19 01:39	1
Xylenes, Total	2.2	U	2.2	0.19	ug/Kg	☼	11/15/19 10:42	11/16/19 01:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		78 - 135	11/15/19 10:42	11/16/19 01:39	1
4-Bromofluorobenzene	99		67 - 126	11/15/19 10:42	11/16/19 01:39	1
Dibromofluoromethane (Surr)	105		61 - 149	11/15/19 10:42	11/16/19 01:39	1
Toluene-d8 (Surr)	99		73 - 121	11/15/19 10:42	11/16/19 01:39	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	390	U	390	5.1	ug/Kg	☼	11/12/19 12:47	11/12/19 21:46	1
2,2'-oxybis[1-chloropropane]	390	U	390	7.0	ug/Kg	☼	11/12/19 12:47	11/12/19 21:46	1
2,4,5-Trichlorophenol	390	U	390	39	ug/Kg	☼	11/12/19 12:47	11/12/19 21:46	1

Eurofins TestAmerica, Edison

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196258-1

Client Sample ID: WSG-GS2-0.5-2.0-0

Lab Sample ID: 460-196258-20

Date Collected: 11/07/19 14:20

Matrix: Solid

Date Received: 11/08/19 20:00

Percent Solids: 85.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,6-Trichlorophenol	160	U	160	50	ug/Kg	☒	11/12/19 12:47	11/12/19 21:46	1
2,4-Dichlorophenol	160	U	160	25	ug/Kg	☒	11/12/19 12:47	11/12/19 21:46	1
2,4-Dimethylphenol	390	U	390	17	ug/Kg	☒	11/12/19 12:47	11/12/19 21:46	1
2,4-Dinitrophenol	310	U	310	190	ug/Kg	☒	11/12/19 12:47	11/12/19 21:46	1
2,4-Dinitrotoluene	78	U	78	42	ug/Kg	☒	11/12/19 12:47	11/12/19 21:46	1
2,6-Dinitrotoluene	78	U	78	28	ug/Kg	☒	11/12/19 12:47	11/12/19 21:46	1
2-Chloronaphthalene	390	U	390	18	ug/Kg	☒	11/12/19 12:47	11/12/19 21:46	1
2-Chlorophenol	390	U	390	14	ug/Kg	☒	11/12/19 12:47	11/12/19 21:46	1
2-Methylnaphthalene	390	U	390	11	ug/Kg	☒	11/12/19 12:47	11/12/19 21:46	1
2-Methylphenol	390	U	390	14	ug/Kg	☒	11/12/19 12:47	11/12/19 21:46	1
2-Nitroaniline	390	U	390	14	ug/Kg	☒	11/12/19 12:47	11/12/19 21:46	1
2-Nitrophenol	390	U	390	39	ug/Kg	☒	11/12/19 12:47	11/12/19 21:46	1
3,3'-Dichlorobenzidine	160	U	160	59	ug/Kg	☒	11/12/19 12:47	11/12/19 21:46	1
3-Nitroaniline	390	U	390	44	ug/Kg	☒	11/12/19 12:47	11/12/19 21:46	1
4,6-Dinitro-2-methylphenol	310	U	310	63	ug/Kg	☒	11/12/19 12:47	11/12/19 21:46	1
4-Bromophenyl phenyl ether	390	U	390	15	ug/Kg	☒	11/12/19 12:47	11/12/19 21:46	1
4-Chloro-3-methylphenol	390	U	390	22	ug/Kg	☒	11/12/19 12:47	11/12/19 21:46	1
4-Chloroaniline	390	U	390	27	ug/Kg	☒	11/12/19 12:47	11/12/19 21:46	1
4-Chlorophenyl phenyl ether	390	U	390	14	ug/Kg	☒	11/12/19 12:47	11/12/19 21:46	1
4-Methylphenol	390	U	390	24	ug/Kg	☒	11/12/19 12:47	11/12/19 21:46	1
4-Nitroaniline	390	U	390	44	ug/Kg	☒	11/12/19 12:47	11/12/19 21:46	1
4-Nitrophenol	780	U	780	63	ug/Kg	☒	11/12/19 12:47	11/12/19 21:46	1
Acenaphthene	390	U	390	28	ug/Kg	☒	11/12/19 12:47	11/12/19 21:46	1
Acenaphthylene	390	U	390	4.0	ug/Kg	☒	11/12/19 12:47	11/12/19 21:46	1
Acetophenone	390	U	390	19	ug/Kg	☒	11/12/19 12:47	11/12/19 21:46	1
Anthracene	390	U	390	12	ug/Kg	☒	11/12/19 12:47	11/12/19 21:46	1
Atrazine	160	U	160	9.8	ug/Kg	☒	11/12/19 12:47	11/12/19 21:46	1
Benzaldehyde	390	U	390	17	ug/Kg	☒	11/12/19 12:47	11/12/19 21:46	1
Benzo[a]anthracene	39	U	39	14	ug/Kg	☒	11/12/19 12:47	11/12/19 21:46	1
Benzo[a]pyrene	39	U	39	10	ug/Kg	☒	11/12/19 12:47	11/12/19 21:46	1
Benzo[b]fluoranthene	39	U	39	10	ug/Kg	☒	11/12/19 12:47	11/12/19 21:46	1
Benzo[g,h,i]perylene	390	U	390	11	ug/Kg	☒	11/12/19 12:47	11/12/19 21:46	1
Benzo[k]fluoranthene	39	U	39	7.6	ug/Kg	☒	11/12/19 12:47	11/12/19 21:46	1
Bis(2-chloroethoxy)methane	390	U	390	30	ug/Kg	☒	11/12/19 12:47	11/12/19 21:46	1
Bis(2-chloroethyl)ether	39	U	39	13	ug/Kg	☒	11/12/19 12:47	11/12/19 21:46	1
Bis(2-ethylhexyl) phthalate	390	U	390	20	ug/Kg	☒	11/12/19 12:47	11/12/19 21:46	1
Butyl benzyl phthalate	390	U	390	18	ug/Kg	☒	11/12/19 12:47	11/12/19 21:46	1
Caprolactam	390	U	390	60	ug/Kg	☒	11/12/19 12:47	11/12/19 21:46	1
Carbazole	390	U	390	15	ug/Kg	☒	11/12/19 12:47	11/12/19 21:46	1
Chrysene	390	U	390	6.5	ug/Kg	☒	11/12/19 12:47	11/12/19 21:46	1
Dibenz(a,h)anthracene	39	U	39	17	ug/Kg	☒	11/12/19 12:47	11/12/19 21:46	1
Dibenzofuran	390	U	390	5.4	ug/Kg	☒	11/12/19 12:47	11/12/19 21:46	1
Diethyl phthalate	390	U	390	5.6	ug/Kg	☒	11/12/19 12:47	11/12/19 21:46	1
Dimethyl phthalate	390	U	390	88	ug/Kg	☒	11/12/19 12:47	11/12/19 21:46	1
Di-n-butyl phthalate	390	U	390	68	ug/Kg	☒	11/12/19 12:47	11/12/19 21:46	1
Di-n-octyl phthalate	390	U	390	21	ug/Kg	☒	11/12/19 12:47	11/12/19 21:46	1
Fluoranthene	390	U	390	14	ug/Kg	☒	11/12/19 12:47	11/12/19 21:46	1
Fluorene	390	U	390	5.3	ug/Kg	☒	11/12/19 12:47	11/12/19 21:46	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196258-1

Client Sample ID: WSG-GS2-0.5-2.0-0

Lab Sample ID: 460-196258-20

Date Collected: 11/07/19 14:20

Matrix: Solid

Date Received: 11/08/19 20:00

Percent Solids: 85.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobenzene	39	U	39	18	ug/Kg	☼	11/12/19 12:47	11/12/19 21:46	1
Hexachlorobutadiene	78	U	78	8.2	ug/Kg	☼	11/12/19 12:47	11/12/19 21:46	1
Hexachlorocyclopentadiene	390	U	390	34	ug/Kg	☼	11/12/19 12:47	11/12/19 21:46	1
Hexachloroethane	39	U	39	13	ug/Kg	☼	11/12/19 12:47	11/12/19 21:46	1
Indeno[1,2,3-cd]pyrene	39	U	39	15	ug/Kg	☼	11/12/19 12:47	11/12/19 21:46	1
Isophorone	160	U	160	110	ug/Kg	☼	11/12/19 12:47	11/12/19 21:46	1
Naphthalene	390	U	390	6.7	ug/Kg	☼	11/12/19 12:47	11/12/19 21:46	1
Nitrobenzene	39	U	39	9.3	ug/Kg	☼	11/12/19 12:47	11/12/19 21:46	1
N-Nitrosodi-n-propylamine	39	U	39	28	ug/Kg	☼	11/12/19 12:47	11/12/19 21:46	1
N-Nitrosodiphenylamine	390	U	390	7.4	ug/Kg	☼	11/12/19 12:47	11/12/19 21:46	1
Pentachlorophenol	310	U	310	79	ug/Kg	☼	11/12/19 12:47	11/12/19 21:46	1
Phenanthrene	390	U	390	6.8	ug/Kg	☼	11/12/19 12:47	11/12/19 21:46	1
Phenol	390	U	390	14	ug/Kg	☼	11/12/19 12:47	11/12/19 21:46	1
Pyrene	390	U	390	9.6	ug/Kg	☼	11/12/19 12:47	11/12/19 21:46	1
1,4-Dioxane	120	U	120	11	ug/Kg	☼	11/12/19 12:47	11/12/19 21:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	55		10 - 137	11/12/19 12:47	11/12/19 21:46	1
2-Fluorobiphenyl	52		29 - 107	11/12/19 12:47	11/12/19 21:46	1
2-Fluorophenol (Surr)	55		20 - 115	11/12/19 12:47	11/12/19 21:46	1
Nitrobenzene-d5 (Surr)	53		25 - 113	11/12/19 12:47	11/12/19 21:46	1
Phenol-d5 (Surr)	53		28 - 109	11/12/19 12:47	11/12/19 21:46	1
Terphenyl-d14 (Surr)	69		27 - 123	11/12/19 12:47	11/12/19 21:46	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	6.2	J	7.8	1.3	ug/Kg	☼	11/12/19 09:56	11/14/19 11:03	1
4,4'-DDE	8.6		7.8	0.93	ug/Kg	☼	11/12/19 09:56	11/14/19 11:03	1
4,4'-DDT	11		7.8	1.4	ug/Kg	☼	11/12/19 09:56	11/14/19 11:03	1
Aldrin	7.8	U	7.8	1.2	ug/Kg	☼	11/12/19 09:56	11/14/19 11:03	1
alpha-BHC	2.3	U	2.3	0.80	ug/Kg	☼	11/12/19 09:56	11/14/19 11:03	1
beta-BHC	2.3	U	2.3	0.88	ug/Kg	☼	11/12/19 09:56	11/14/19 11:03	1
Chlordane (technical)	78	U	78	19	ug/Kg	☼	11/12/19 09:56	11/14/19 11:03	1
delta-BHC	2.3	U	2.3	0.48	ug/Kg	☼	11/12/19 09:56	11/14/19 11:03	1
Dieldrin	2.3	U	2.3	1.0	ug/Kg	☼	11/12/19 09:56	11/14/19 11:03	1
Endosulfan I	7.8	U	7.8	1.2	ug/Kg	☼	11/12/19 09:56	11/14/19 11:03	1
Endosulfan II	7.8	U	7.8	2.0	ug/Kg	☼	11/12/19 09:56	11/14/19 11:03	1
Endosulfan sulfate	7.8	U	7.8	0.98	ug/Kg	☼	11/12/19 09:56	11/14/19 11:03	1
Endrin	7.8	U	7.8	1.1	ug/Kg	☼	11/12/19 09:56	11/14/19 11:03	1
Endrin aldehyde	7.8	U	7.8	1.9	ug/Kg	☼	11/12/19 09:56	11/14/19 11:03	1
Endrin ketone	7.8	U	7.8	1.5	ug/Kg	☼	11/12/19 09:56	11/14/19 11:03	1
gamma-BHC (Lindane)	2.3	U	2.3	0.73	ug/Kg	☼	11/12/19 09:56	11/14/19 11:03	1
Heptachlor	7.8	U	7.8	0.93	ug/Kg	☼	11/12/19 09:56	11/14/19 11:03	1
Heptachlor epoxide	7.8	U	7.8	1.2	ug/Kg	☼	11/12/19 09:56	11/14/19 11:03	1
Methoxychlor	7.8	U	7.8	1.8	ug/Kg	☼	11/12/19 09:56	11/14/19 11:03	1
Toxaphene	78	U	78	28	ug/Kg	☼	11/12/19 09:56	11/14/19 11:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	75		49 - 150	11/12/19 09:56	11/14/19 11:03	1

Eurofins TestAmerica, Edison

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196258-1

Client Sample ID: WSG-GS2-0.5-2.0-0

Lab Sample ID: 460-196258-20

Date Collected: 11/07/19 14:20

Matrix: Solid

Date Received: 11/08/19 20:00

Percent Solids: 85.4

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	68		49 - 150	11/12/19 09:56	11/14/19 11:03	1
Tetrachloro-m-xylene	56		47 - 150	11/12/19 09:56	11/14/19 11:03	1
Tetrachloro-m-xylene	70		47 - 150	11/12/19 09:56	11/14/19 11:03	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	78	U	78	10	ug/Kg	☼	11/12/19 09:48	11/13/19 14:47	1
Aroclor 1221	78	U	78	10	ug/Kg	☼	11/12/19 09:48	11/13/19 14:47	1
Aroclor 1232	78	U	78	10	ug/Kg	☼	11/12/19 09:48	11/13/19 14:47	1
Aroclor 1242	78	U	78	10	ug/Kg	☼	11/12/19 09:48	11/13/19 14:47	1
Aroclor 1248	78	U	78	10	ug/Kg	☼	11/12/19 09:48	11/13/19 14:47	1
Aroclor 1254	78	U	78	11	ug/Kg	☼	11/12/19 09:48	11/13/19 14:47	1
Aroclor 1260	78	U	78	11	ug/Kg	☼	11/12/19 09:48	11/13/19 14:47	1
Aroclor-1262	78	U	78	11	ug/Kg	☼	11/12/19 09:48	11/13/19 14:47	1
Aroclor 1268	78	U	78	11	ug/Kg	☼	11/12/19 09:48	11/13/19 14:47	1
Polychlorinated biphenyls, Total	78	U	78	11	ug/Kg	☼	11/12/19 09:48	11/13/19 14:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	103		53 - 150	11/12/19 09:48	11/13/19 14:47	1
DCB Decachlorobiphenyl	91		53 - 150	11/12/19 09:48	11/13/19 14:47	1

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	39	U	39	14	ug/Kg	☼	11/13/19 00:19	11/13/19 17:48	1
Silvex (2,4,5-TP)	39	U *	39	4.1	ug/Kg	☼	11/13/19 00:19	11/13/19 17:48	1
2,4,5-T	39	U *	39	8.3	ug/Kg	☼	11/13/19 00:19	11/13/19 17:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	129		30 - 150	11/13/19 00:19	11/13/19 17:48	1
2,4-Dichlorophenylacetic acid	143		30 - 150	11/13/19 00:19	11/13/19 17:48	1

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	0.081	J	0.23	0.048	ug/Kg	☼	11/20/19 06:46	12/14/19 17:59	1
Perfluoroheptanoic acid (PFHpA)	0.044	J	0.23	0.033	ug/Kg	☼	11/20/19 06:46	12/14/19 17:59	1
Perfluorooctanoic acid (PFOA)	0.13	J	0.23	0.098	ug/Kg	☼	11/20/19 06:46	12/14/19 17:59	1
Perfluorononanoic acid (PFNA)	0.23	U	0.23	0.041	ug/Kg	☼	11/20/19 06:46	12/14/19 17:59	1
Perfluorodecanoic acid (PFDA)	0.029	J	0.23	0.025	ug/Kg	☼	11/20/19 06:46	12/14/19 17:59	1
Perfluoroundecanoic acid (PFUnA)	0.046	J	0.23	0.041	ug/Kg	☼	11/20/19 06:46	12/14/19 17:59	1
Perfluorododecanoic acid (PFDoA)	0.23	U	0.23	0.076	ug/Kg	☼	11/20/19 06:46	12/14/19 17:59	1
Perfluorotridecanoic acid (PFTriA)	0.23	U	0.23	0.058	ug/Kg	☼	11/20/19 06:46	12/14/19 17:59	1
Perfluorotetradecanoic acid (PFTeA)	0.23	U	0.23	0.061	ug/Kg	☼	11/20/19 06:46	12/14/19 17:59	1
Perfluorobutanesulfonic acid (PFBS)	0.23	U	0.23	0.028	ug/Kg	☼	11/20/19 06:46	12/14/19 17:59	1
Perfluorohexanesulfonic acid (PFHxS)	0.23	U	0.23	0.035	ug/Kg	☼	11/20/19 06:46	12/14/19 17:59	1
Perfluorooctanesulfonic acid (PFOS)	0.96	B	0.57	0.23	ug/Kg	☼	11/20/19 06:46	12/14/19 17:59	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEFOSAA)	2.27	U	2.27	0.42	ug/Kg	☼	11/20/19 06:46	12/14/19 17:59	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196258-1

Client Sample ID: WSG-GS2-0.5-2.0-0

Lab Sample ID: 460-196258-20

Date Collected: 11/07/19 14:20

Matrix: Solid

Date Received: 11/08/19 20:00

Percent Solids: 85.4

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.27	U	2.27	0.44	ug/Kg	☼	11/20/19 06:46	12/14/19 17:59	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
¹³ C2 PFHxA	81		25 - 150				11/20/19 06:46	12/14/19 17:59	1
¹³ C4 PFHpA	80		25 - 150				11/20/19 06:46	12/14/19 17:59	1
¹³ C4 PFOA	83		25 - 150				11/20/19 06:46	12/14/19 17:59	1
¹³ C5 PFNA	86		25 - 150				11/20/19 06:46	12/14/19 17:59	1
¹³ C2 PFDA	97		25 - 150				11/20/19 06:46	12/14/19 17:59	1
¹³ C2 PFUnA	102		25 - 150				11/20/19 06:46	12/14/19 17:59	1
¹³ C2 PFDoA	86		25 - 150				11/20/19 06:46	12/14/19 17:59	1
¹³ C2 PFTeDA	81		25 - 150				11/20/19 06:46	12/14/19 17:59	1
¹⁸ O2 PFHxS	78		25 - 150				11/20/19 06:46	12/14/19 17:59	1
¹³ C4 PFOS	84		25 - 150				11/20/19 06:46	12/14/19 17:59	1
d3-NMeFOSAA	81		25 - 150				11/20/19 06:46	12/14/19 17:59	1
d5-NEtFOSAA	85		25 - 150				11/20/19 06:46	12/14/19 17:59	1

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	11700		33.1	16.2	mg/Kg	☼	11/19/19 07:02	11/19/19 23:31	4
Silver	2.2	U	2.2	0.21	mg/Kg	☼	11/19/19 07:02	11/19/19 23:31	4
Aluminum	8700		44.2	12.5	mg/Kg	☼	11/19/19 07:02	11/19/19 23:31	4
Arsenic	8.9		3.3	1.3	mg/Kg	☼	11/19/19 07:02	11/19/19 23:31	4
Boron	5.2	J	11.0	3.1	mg/Kg	☼	11/19/19 07:02	11/19/19 23:31	4
Barium	18.9	J	44.2	2.5	mg/Kg	☼	11/19/19 07:02	11/19/19 23:31	4
Beryllium	0.50		0.44	0.098	mg/Kg	☼	11/19/19 07:02	11/19/19 23:31	4
Calcium	784	J	1100	65.1	mg/Kg	☼	11/19/19 07:02	11/19/19 23:31	4
Cadmium	0.88	U	0.88	0.15	mg/Kg	☼	11/19/19 07:02	11/19/19 23:31	4
Cobalt	3.6	J	11.0	1.4	mg/Kg	☼	11/19/19 07:02	11/19/19 23:31	4
Chromium	10.6		2.2	0.39	mg/Kg	☼	11/19/19 07:02	11/19/19 23:31	4
Copper	43.5		5.5	2.9	mg/Kg	☼	11/19/19 07:02	11/19/19 23:31	4
Potassium	512	J	1100	68.7	mg/Kg	☼	11/19/19 07:02	11/19/19 23:31	4
Magnesium	1530		1100	64.4	mg/Kg	☼	11/19/19 07:02	11/19/19 23:31	4
Manganese	110		3.3	0.39	mg/Kg	☼	11/19/19 07:02	11/19/19 23:31	4
Molybdenum	4.4	U	4.4	1.0	mg/Kg	☼	11/19/19 07:02	11/19/19 23:31	4
Sodium	1100	U	1100	88.8	mg/Kg	☼	11/19/19 07:02	11/19/19 23:31	4
Nickel	6.8	J	8.8	0.81	mg/Kg	☼	11/19/19 07:02	11/19/19 23:31	4
Lead	9.8		2.2	0.58	mg/Kg	☼	11/19/19 07:02	11/19/19 23:31	4
Antimony	4.4	U	4.4	1.2	mg/Kg	☼	11/19/19 07:02	11/19/19 23:31	4
Selenium	4.4	U	4.4	2.6	mg/Kg	☼	11/19/19 07:02	11/19/19 23:31	4
Tin	11.0	U	11.0	7.1	mg/Kg	☼	11/19/19 07:02	11/19/19 23:31	4
Strontium	4.6		4.4	0.44	mg/Kg	☼	11/19/19 07:02	11/19/19 23:31	4
Titanium	493		4.4	0.67	mg/Kg	☼	11/19/19 07:02	11/19/19 23:31	4
Thallium	4.4	U	4.4	0.70	mg/Kg	☼	11/19/19 07:02	11/19/19 23:31	4
Vanadium	16.7		11.0	0.73	mg/Kg	☼	11/19/19 07:02	11/19/19 23:31	4
Zinc	22.9		6.6	5.1	mg/Kg	☼	11/19/19 07:02	11/19/19 23:31	4

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.016	J	0.018	0.011	mg/Kg	☼	11/15/19 04:40	11/15/19 09:27	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196258-1

Client Sample ID: WSG-GS2-6.0-8.0-0

Lab Sample ID: 460-196258-21

Date Collected: 11/07/19 14:30

Matrix: Solid

Date Received: 11/08/19 20:00

Percent Solids: 90.1

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	0.22	U	0.22	0.046	ug/Kg	☼	11/20/19 06:46	12/14/19 18:24	1
Perfluoroheptanoic acid (PFHpA)	0.22	U	0.22	0.032	ug/Kg	☼	11/20/19 06:46	12/14/19 18:24	1
Perfluorooctanoic acid (PFOA)	0.10	J	0.22	0.095	ug/Kg	☼	11/20/19 06:46	12/14/19 18:24	1
Perfluorononanoic acid (PFNA)	0.041	J	0.22	0.040	ug/Kg	☼	11/20/19 06:46	12/14/19 18:24	1
Perfluorodecanoic acid (PFDA)	0.13	J	0.22	0.024	ug/Kg	☼	11/20/19 06:46	12/14/19 18:24	1
Perfluoroundecanoic acid (PFUnA)	0.22	U	0.22	0.040	ug/Kg	☼	11/20/19 06:46	12/14/19 18:24	1
Perfluorododecanoic acid (PFDoA)	0.22	U	0.22	0.074	ug/Kg	☼	11/20/19 06:46	12/14/19 18:24	1
Perfluorotridecanoic acid (PFTriA)	0.22	U	0.22	0.056	ug/Kg	☼	11/20/19 06:46	12/14/19 18:24	1
Perfluorotetradecanoic acid (PFTeA)	0.22	U	0.22	0.059	ug/Kg	☼	11/20/19 06:46	12/14/19 18:24	1
Perfluorobutanesulfonic acid (PFBS)	0.22	U	0.22	0.028	ug/Kg	☼	11/20/19 06:46	12/14/19 18:24	1
Perfluorohexanesulfonic acid (PFHxS)	0.069	J	0.22	0.034	ug/Kg	☼	11/20/19 06:46	12/14/19 18:24	1
Perfluorooctanesulfonic acid (PFOS)	1.53	B	0.55	0.22	ug/Kg	☼	11/20/19 06:46	12/14/19 18:24	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.20	U	2.20	0.41	ug/Kg	☼	11/20/19 06:46	12/14/19 18:24	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.20	U	2.20	0.43	ug/Kg	☼	11/20/19 06:46	12/14/19 18:24	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFHxA	97		25 - 150	11/20/19 06:46	12/14/19 18:24	1
13C4 PFHpA	103		25 - 150	11/20/19 06:46	12/14/19 18:24	1
13C4 PFOA	98		25 - 150	11/20/19 06:46	12/14/19 18:24	1
13C5 PFNA	99		25 - 150	11/20/19 06:46	12/14/19 18:24	1
13C2 PFDA	112		25 - 150	11/20/19 06:46	12/14/19 18:24	1
13C2 PFUnA	116		25 - 150	11/20/19 06:46	12/14/19 18:24	1
13C2 PFDoA	105		25 - 150	11/20/19 06:46	12/14/19 18:24	1
13C2 PFTeDA	94		25 - 150	11/20/19 06:46	12/14/19 18:24	1
18O2 PFHxS	92		25 - 150	11/20/19 06:46	12/14/19 18:24	1
13C4 PFOS	93		25 - 150	11/20/19 06:46	12/14/19 18:24	1
d3-NMeFOSAA	113		25 - 150	11/20/19 06:46	12/14/19 18:24	1
d5-NEtFOSAA	118		25 - 150	11/20/19 06:46	12/14/19 18:24	1

Client Sample ID: WSG-GS2-0.5-2.0-1

Lab Sample ID: 460-196258-22

Date Collected: 11/07/19 14:20

Matrix: Solid

Date Received: 11/08/19 20:00

Percent Solids: 88.8

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	0.064	J	0.21	0.044	ug/Kg	☼	11/20/19 06:46	12/14/19 18:32	1
Perfluoroheptanoic acid (PFHpA)	0.21	U	0.21	0.030	ug/Kg	☼	11/20/19 06:46	12/14/19 18:32	1
Perfluorooctanoic acid (PFOA)	0.095	J	0.21	0.089	ug/Kg	☼	11/20/19 06:46	12/14/19 18:32	1
Perfluorononanoic acid (PFNA)	0.21	U	0.21	0.037	ug/Kg	☼	11/20/19 06:46	12/14/19 18:32	1
Perfluorodecanoic acid (PFDA)	0.21	U	0.21	0.023	ug/Kg	☼	11/20/19 06:46	12/14/19 18:32	1
Perfluoroundecanoic acid (PFUnA)	0.21	U	0.21	0.037	ug/Kg	☼	11/20/19 06:46	12/14/19 18:32	1
Perfluorododecanoic acid (PFDoA)	0.21	U	0.21	0.070	ug/Kg	☼	11/20/19 06:46	12/14/19 18:32	1
Perfluorotridecanoic acid (PFTriA)	0.21	U	0.21	0.053	ug/Kg	☼	11/20/19 06:46	12/14/19 18:32	1
Perfluorotetradecanoic acid (PFTeA)	0.21	U	0.21	0.056	ug/Kg	☼	11/20/19 06:46	12/14/19 18:32	1
Perfluorobutanesulfonic acid (PFBS)	0.21	U	0.21	0.026	ug/Kg	☼	11/20/19 06:46	12/14/19 18:32	1
Perfluorohexanesulfonic acid (PFHxS)	0.21	U	0.21	0.032	ug/Kg	☼	11/20/19 06:46	12/14/19 18:32	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196258-1

Client Sample ID: WSG-GS2-0.5-2.0-1

Lab Sample ID: 460-196258-22

Date Collected: 11/07/19 14:20

Matrix: Solid

Date Received: 11/08/19 20:00

Percent Solids: 88.8

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	1.19	B	0.52	0.21	ug/Kg	☼	11/20/19 06:46	12/14/19 18:32	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.08	U	2.08	0.38	ug/Kg	☼	11/20/19 06:46	12/14/19 18:32	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.08	U	2.08	0.41	ug/Kg	☼	11/20/19 06:46	12/14/19 18:32	1
<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C2 PFHxA	98		25 - 150				11/20/19 06:46	12/14/19 18:32	1
13C4 PFHpA	98		25 - 150				11/20/19 06:46	12/14/19 18:32	1
13C4 PFOA	97		25 - 150				11/20/19 06:46	12/14/19 18:32	1
13C5 PFNA	97		25 - 150				11/20/19 06:46	12/14/19 18:32	1
13C2 PFDA	111		25 - 150				11/20/19 06:46	12/14/19 18:32	1
13C2 PFUnA	114		25 - 150				11/20/19 06:46	12/14/19 18:32	1
13C2 PFDoA	103		25 - 150				11/20/19 06:46	12/14/19 18:32	1
13C2 PFTeDA	91		25 - 150				11/20/19 06:46	12/14/19 18:32	1
18O2 PFHxS	88		25 - 150				11/20/19 06:46	12/14/19 18:32	1
13C4 PFOS	91		25 - 150				11/20/19 06:46	12/14/19 18:32	1
d3-NMeFOSAA	36		25 - 150				11/20/19 06:46	12/14/19 18:32	1
d5-NEtFOSAA	35		25 - 150				11/20/19 06:46	12/14/19 18:32	1

Client Sample ID: WSG-S21-0.0-0.2-0

Lab Sample ID: 460-196258-23

Date Collected: 11/08/19 08:35

Matrix: Solid

Date Received: 11/08/19 20:00

Percent Solids: 88.6

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/Kg	☼	11/15/19 10:44	11/16/19 02:05	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22	ug/Kg	☼	11/15/19 10:44	11/16/19 02:05	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.30	ug/Kg	☼	11/15/19 10:44	11/16/19 02:05	1
1,1,2-Trichloroethane	1.0	U	1.0	0.18	ug/Kg	☼	11/15/19 10:44	11/16/19 02:05	1
1,1-Dichloroethane	1.0	U	1.0	0.21	ug/Kg	☼	11/15/19 10:44	11/16/19 02:05	1
1,1-Dichloroethene	1.0	U	1.0	0.23	ug/Kg	☼	11/15/19 10:44	11/16/19 02:05	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.36	ug/Kg	☼	11/15/19 10:44	11/16/19 02:05	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.47	ug/Kg	☼	11/15/19 10:44	11/16/19 02:05	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/Kg	☼	11/15/19 10:44	11/16/19 02:05	1
1,2-Dichloroethane	1.0	U	1.0	0.30	ug/Kg	☼	11/15/19 10:44	11/16/19 02:05	1
1,2-Dichloropropane	1.0	U	1.0	0.43	ug/Kg	☼	11/15/19 10:44	11/16/19 02:05	1
1,3-Dichlorobenzene	1.0	U	1.0	0.16	ug/Kg	☼	11/15/19 10:44	11/16/19 02:05	1
1,4-Dichlorobenzene	1.0	U	1.0	0.23	ug/Kg	☼	11/15/19 10:44	11/16/19 02:05	1
2-Butanone (MEK)	5.1	U	5.1	2.7	ug/Kg	☼	11/15/19 10:44	11/16/19 02:05	1
2-Hexanone	5.1	U	5.1	1.7	ug/Kg	☼	11/15/19 10:44	11/16/19 02:05	1
4-Methyl-2-pentanone (MIBK)	5.1	U	5.1	1.6	ug/Kg	☼	11/15/19 10:44	11/16/19 02:05	1
Acetone	6.1	U	6.1	5.8	ug/Kg	☼	11/15/19 10:44	11/16/19 02:05	1
Benzene	1.0	U	1.0	0.26	ug/Kg	☼	11/15/19 10:44	11/16/19 02:05	1
Bromoform	1.0	U	1.0	0.43	ug/Kg	☼	11/15/19 10:44	11/16/19 02:05	1
Bromomethane	1.0	U	1.0	0.48	ug/Kg	☼	11/15/19 10:44	11/16/19 02:05	1
Carbon disulfide	1.0	U	1.0	0.27	ug/Kg	☼	11/15/19 10:44	11/16/19 02:05	1
Carbon tetrachloride	1.0	U	1.0	0.39	ug/Kg	☼	11/15/19 10:44	11/16/19 02:05	1
Chlorobenzene	1.0	U	1.0	0.18	ug/Kg	☼	11/15/19 10:44	11/16/19 02:05	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196258-1

Client Sample ID: WSG-S21-0.0-0.2-0

Lab Sample ID: 460-196258-23

Date Collected: 11/08/19 08:35

Matrix: Solid

Date Received: 11/08/19 20:00

Percent Solids: 88.6

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorodibromomethane	1.0	U	1.0	0.20	ug/Kg	☒	11/15/19 10:44	11/16/19 02:05	1
Chloroethane	1.0	U	1.0	0.53	ug/Kg	☒	11/15/19 10:44	11/16/19 02:05	1
Chloroform	1.0	U	1.0	0.32	ug/Kg	☒	11/15/19 10:44	11/16/19 02:05	1
Chloromethane	1.0	U	1.0	0.44	ug/Kg	☒	11/15/19 10:44	11/16/19 02:05	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/Kg	☒	11/15/19 10:44	11/16/19 02:05	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.28	ug/Kg	☒	11/15/19 10:44	11/16/19 02:05	1
Cyclohexane	1.0	U	1.0	0.22	ug/Kg	☒	11/15/19 10:44	11/16/19 02:05	1
Dichlorobromomethane	1.0	U	1.0	0.26	ug/Kg	☒	11/15/19 10:44	11/16/19 02:05	1
Dichlorodifluoromethane	1.0	U	1.0	0.34	ug/Kg	☒	11/15/19 10:44	11/16/19 02:05	1
Ethylbenzene	1.0	U	1.0	0.20	ug/Kg	☒	11/15/19 10:44	11/16/19 02:05	1
Ethylene Dibromide	1.0	U	1.0	0.18	ug/Kg	☒	11/15/19 10:44	11/16/19 02:05	1
Isopropylbenzene	1.0	U	1.0	0.13	ug/Kg	☒	11/15/19 10:44	11/16/19 02:05	1
Methyl acetate	5.1	U	5.1	4.4	ug/Kg	☒	11/15/19 10:44	11/16/19 02:05	1
Methyl tert-butyl ether	1.0	U	1.0	0.13	ug/Kg	☒	11/15/19 10:44	11/16/19 02:05	1
Methylcyclohexane	1.0	U	1.0	0.51	ug/Kg	☒	11/15/19 10:44	11/16/19 02:05	1
Methylene Chloride	2.0		1.0	0.47	ug/Kg	☒	11/15/19 10:44	11/16/19 02:05	1
Styrene	1.0	U	1.0	0.28	ug/Kg	☒	11/15/19 10:44	11/16/19 02:05	1
Tetrachloroethene	1.0	U	1.0	0.14	ug/Kg	☒	11/15/19 10:44	11/16/19 02:05	1
Toluene	1.0	U	1.0	0.24	ug/Kg	☒	11/15/19 10:44	11/16/19 02:05	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.25	ug/Kg	☒	11/15/19 10:44	11/16/19 02:05	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.27	ug/Kg	☒	11/15/19 10:44	11/16/19 02:05	1
Trichloroethene	1.0	U	1.0	0.15	ug/Kg	☒	11/15/19 10:44	11/16/19 02:05	1
Trichlorofluoromethane	1.0	U	1.0	0.41	ug/Kg	☒	11/15/19 10:44	11/16/19 02:05	1
Vinyl chloride	1.0	U	1.0	0.55	ug/Kg	☒	11/15/19 10:44	11/16/19 02:05	1
Xylenes, Total	2.0	U	2.0	0.18	ug/Kg	☒	11/15/19 10:44	11/16/19 02:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		78 - 135	11/15/19 10:44	11/16/19 02:05	1
4-Bromofluorobenzene	104		67 - 126	11/15/19 10:44	11/16/19 02:05	1
Dibromofluoromethane (Surr)	109		61 - 149	11/15/19 10:44	11/16/19 02:05	1
Toluene-d8 (Surr)	105		73 - 121	11/15/19 10:44	11/16/19 02:05	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	370	U	370	5.0	ug/Kg	☒	11/12/19 12:47	11/12/19 23:16	1
2,2'-oxybis[1-chloropropane]	370	U	370	6.8	ug/Kg	☒	11/12/19 12:47	11/12/19 23:16	1
2,4,5-Trichlorophenol	370	U	370	38	ug/Kg	☒	11/12/19 12:47	11/12/19 23:16	1
2,4,6-Trichlorophenol	150	U	150	48	ug/Kg	☒	11/12/19 12:47	11/12/19 23:16	1
2,4-Dichlorophenol	150	U	150	24	ug/Kg	☒	11/12/19 12:47	11/12/19 23:16	1
2,4-Dimethylphenol	370	U	370	16	ug/Kg	☒	11/12/19 12:47	11/12/19 23:16	1
2,4-Dinitrophenol	300	U	300	180	ug/Kg	☒	11/12/19 12:47	11/12/19 23:16	1
2,4-Dinitrotoluene	76	U	76	40	ug/Kg	☒	11/12/19 12:47	11/12/19 23:16	1
2,6-Dinitrotoluene	76	U	76	27	ug/Kg	☒	11/12/19 12:47	11/12/19 23:16	1
2-Chloronaphthalene	370	U	370	17	ug/Kg	☒	11/12/19 12:47	11/12/19 23:16	1
2-Chlorophenol	370	U	370	13	ug/Kg	☒	11/12/19 12:47	11/12/19 23:16	1
2-Methylnaphthalene	370	U	370	10	ug/Kg	☒	11/12/19 12:47	11/12/19 23:16	1
2-Methylphenol	370	U	370	14	ug/Kg	☒	11/12/19 12:47	11/12/19 23:16	1
2-Nitroaniline	370	U	370	14	ug/Kg	☒	11/12/19 12:47	11/12/19 23:16	1
2-Nitrophenol	370	U	370	37	ug/Kg	☒	11/12/19 12:47	11/12/19 23:16	1

Eurofins TestAmerica, Edison

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196258-1

Client Sample ID: WSG-S21-0.0-0.2-0

Lab Sample ID: 460-196258-23

Date Collected: 11/08/19 08:35

Matrix: Solid

Date Received: 11/08/19 20:00

Percent Solids: 88.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	150	U	150	56	ug/Kg	☒	11/12/19 12:47	11/12/19 23:16	1
3-Nitroaniline	370	U	370	42	ug/Kg	☒	11/12/19 12:47	11/12/19 23:16	1
4,6-Dinitro-2-methylphenol	300	U	300	61	ug/Kg	☒	11/12/19 12:47	11/12/19 23:16	1
4-Bromophenyl phenyl ether	370	U	370	15	ug/Kg	☒	11/12/19 12:47	11/12/19 23:16	1
4-Chloro-3-methylphenol	370	U	370	21	ug/Kg	☒	11/12/19 12:47	11/12/19 23:16	1
4-Chloroaniline	370	U	370	26	ug/Kg	☒	11/12/19 12:47	11/12/19 23:16	1
4-Chlorophenyl phenyl ether	370	U	370	13	ug/Kg	☒	11/12/19 12:47	11/12/19 23:16	1
4-Methylphenol	370	U	370	23	ug/Kg	☒	11/12/19 12:47	11/12/19 23:16	1
4-Nitroaniline	370	U	370	43	ug/Kg	☒	11/12/19 12:47	11/12/19 23:16	1
4-Nitrophenol	760	U	760	61	ug/Kg	☒	11/12/19 12:47	11/12/19 23:16	1
Acenaphthene	370	U	370	27	ug/Kg	☒	11/12/19 12:47	11/12/19 23:16	1
Acenaphthylene	370	U	370	3.9	ug/Kg	☒	11/12/19 12:47	11/12/19 23:16	1
Acetophenone	370	U	370	18	ug/Kg	☒	11/12/19 12:47	11/12/19 23:16	1
Anthracene	49	J	370	11	ug/Kg	☒	11/12/19 12:47	11/12/19 23:16	1
Atrazine	150	U	150	9.4	ug/Kg	☒	11/12/19 12:47	11/12/19 23:16	1
Benzaldehyde	370	U	370	16	ug/Kg	☒	11/12/19 12:47	11/12/19 23:16	1
Benzo[a]anthracene	92		37	13	ug/Kg	☒	11/12/19 12:47	11/12/19 23:16	1
Benzo[a]pyrene	70		37	9.9	ug/Kg	☒	11/12/19 12:47	11/12/19 23:16	1
Benzo[b]fluoranthene	100		37	9.7	ug/Kg	☒	11/12/19 12:47	11/12/19 23:16	1
Benzo[g,h,i]perylene	51	J	370	11	ug/Kg	☒	11/12/19 12:47	11/12/19 23:16	1
Benzo[k]fluoranthene	36	J	37	7.3	ug/Kg	☒	11/12/19 12:47	11/12/19 23:16	1
Bis(2-chloroethoxy)methane	370	U	370	29	ug/Kg	☒	11/12/19 12:47	11/12/19 23:16	1
Bis(2-chloroethyl)ether	37	U	37	13	ug/Kg	☒	11/12/19 12:47	11/12/19 23:16	1
Bis(2-ethylhexyl) phthalate	370	U	370	20	ug/Kg	☒	11/12/19 12:47	11/12/19 23:16	1
Butyl benzyl phthalate	370	U	370	18	ug/Kg	☒	11/12/19 12:47	11/12/19 23:16	1
Caprolactam	370	U	370	58	ug/Kg	☒	11/12/19 12:47	11/12/19 23:16	1
Carbazole	370	U	370	14	ug/Kg	☒	11/12/19 12:47	11/12/19 23:16	1
Chrysene	85	J	370	6.3	ug/Kg	☒	11/12/19 12:47	11/12/19 23:16	1
Dibenz(a,h)anthracene	37	U	37	16	ug/Kg	☒	11/12/19 12:47	11/12/19 23:16	1
Dibenzofuran	370	U	370	5.2	ug/Kg	☒	11/12/19 12:47	11/12/19 23:16	1
Diethyl phthalate	370	U	370	5.4	ug/Kg	☒	11/12/19 12:47	11/12/19 23:16	1
Dimethyl phthalate	370	U	370	85	ug/Kg	☒	11/12/19 12:47	11/12/19 23:16	1
Di-n-butyl phthalate	370	U	370	66	ug/Kg	☒	11/12/19 12:47	11/12/19 23:16	1
Di-n-octyl phthalate	370	U	370	20	ug/Kg	☒	11/12/19 12:47	11/12/19 23:16	1
Fluoranthene	170	J	370	13	ug/Kg	☒	11/12/19 12:47	11/12/19 23:16	1
Fluorene	14	J	370	5.1	ug/Kg	☒	11/12/19 12:47	11/12/19 23:16	1
Hexachlorobenzene	37	U	37	18	ug/Kg	☒	11/12/19 12:47	11/12/19 23:16	1
Hexachlorobutadiene	76	U	76	7.9	ug/Kg	☒	11/12/19 12:47	11/12/19 23:16	1
Hexachlorocyclopentadiene	370	U	370	33	ug/Kg	☒	11/12/19 12:47	11/12/19 23:16	1
Hexachloroethane	37	U	37	13	ug/Kg	☒	11/12/19 12:47	11/12/19 23:16	1
Indeno[1,2,3-cd]pyrene	67		37	15	ug/Kg	☒	11/12/19 12:47	11/12/19 23:16	1
Isophorone	150	U	150	110	ug/Kg	☒	11/12/19 12:47	11/12/19 23:16	1
Naphthalene	370	U	370	6.5	ug/Kg	☒	11/12/19 12:47	11/12/19 23:16	1
Nitrobenzene	37	U	37	9.0	ug/Kg	☒	11/12/19 12:47	11/12/19 23:16	1
N-Nitrosodi-n-propylamine	37	U	37	27	ug/Kg	☒	11/12/19 12:47	11/12/19 23:16	1
N-Nitrosodiphenylamine	370	U	370	7.1	ug/Kg	☒	11/12/19 12:47	11/12/19 23:16	1
Pentachlorophenol	300	U	300	77	ug/Kg	☒	11/12/19 12:47	11/12/19 23:16	1
Phenanthrene	130	J	370	6.6	ug/Kg	☒	11/12/19 12:47	11/12/19 23:16	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196258-1

Client Sample ID: WSG-S21-0.0-0.2-0

Lab Sample ID: 460-196258-23

Date Collected: 11/08/19 08:35

Matrix: Solid

Date Received: 11/08/19 20:00

Percent Solids: 88.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	370	U	370	14	ug/Kg	☼	11/12/19 12:47	11/12/19 23:16	1
Pyrene	170	J	370	9.3	ug/Kg	☼	11/12/19 12:47	11/12/19 23:16	1
1,4-Dioxane	110	U	110	10	ug/Kg	☼	11/12/19 12:47	11/12/19 23:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	43		10 - 137	11/12/19 12:47	11/12/19 23:16	1
2-Fluorobiphenyl	47		29 - 107	11/12/19 12:47	11/12/19 23:16	1
2-Fluorophenol (Surr)	52		20 - 115	11/12/19 12:47	11/12/19 23:16	1
Nitrobenzene-d5 (Surr)	50		25 - 113	11/12/19 12:47	11/12/19 23:16	1
Phenol-d5 (Surr)	49		28 - 109	11/12/19 12:47	11/12/19 23:16	1
Terphenyl-d14 (Surr)	53		27 - 123	11/12/19 12:47	11/12/19 23:16	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	7.6	U	7.6	1.3	ug/Kg	☼	11/12/19 09:56	11/14/19 11:15	1
4,4'-DDE	7.6	U	7.6	0.89	ug/Kg	☼	11/12/19 09:56	11/14/19 11:15	1
4,4'-DDT	7.6	U	7.6	1.4	ug/Kg	☼	11/12/19 09:56	11/14/19 11:15	1
Aldrin	7.6	U	7.6	1.1	ug/Kg	☼	11/12/19 09:56	11/14/19 11:15	1
alpha-BHC	2.3	U	2.3	0.77	ug/Kg	☼	11/12/19 09:56	11/14/19 11:15	1
beta-BHC	2.3	U	2.3	0.85	ug/Kg	☼	11/12/19 09:56	11/14/19 11:15	1
Chlordane (technical)	76	U	76	18	ug/Kg	☼	11/12/19 09:56	11/14/19 11:15	1
delta-BHC	2.3	U	2.3	0.46	ug/Kg	☼	11/12/19 09:56	11/14/19 11:15	1
Dieldrin	2.3	U	2.3	0.98	ug/Kg	☼	11/12/19 09:56	11/14/19 11:15	1
Endosulfan I	7.6	U	7.6	1.2	ug/Kg	☼	11/12/19 09:56	11/14/19 11:15	1
Endosulfan II	7.6	U	7.6	1.9	ug/Kg	☼	11/12/19 09:56	11/14/19 11:15	1
Endosulfan sulfate	7.6	U	7.6	0.95	ug/Kg	☼	11/12/19 09:56	11/14/19 11:15	1
Endrin	7.6	U	7.6	1.1	ug/Kg	☼	11/12/19 09:56	11/14/19 11:15	1
Endrin aldehyde	7.6	U	7.6	1.8	ug/Kg	☼	11/12/19 09:56	11/14/19 11:15	1
Endrin ketone	7.6	U	7.6	1.5	ug/Kg	☼	11/12/19 09:56	11/14/19 11:15	1
gamma-BHC (Lindane)	2.3	U	2.3	0.70	ug/Kg	☼	11/12/19 09:56	11/14/19 11:15	1
Heptachlor	7.6	U	7.6	0.89	ug/Kg	☼	11/12/19 09:56	11/14/19 11:15	1
Heptachlor epoxide	7.6	U	7.6	1.1	ug/Kg	☼	11/12/19 09:56	11/14/19 11:15	1
Methoxychlor	7.6	U	7.6	1.7	ug/Kg	☼	11/12/19 09:56	11/14/19 11:15	1
Toxaphene	76	U	76	27	ug/Kg	☼	11/12/19 09:56	11/14/19 11:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	50		49 - 150	11/12/19 09:56	11/14/19 11:15	1
DCB Decachlorobiphenyl	86		49 - 150	11/12/19 09:56	11/14/19 11:15	1
Tetrachloro-m-xylene	70		47 - 150	11/12/19 09:56	11/14/19 11:15	1
Tetrachloro-m-xylene	73		47 - 150	11/12/19 09:56	11/14/19 11:15	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	76	U	76	10	ug/Kg	☼	11/12/19 09:48	11/13/19 15:07	1
Aroclor 1221	76	U	76	10	ug/Kg	☼	11/12/19 09:48	11/13/19 15:07	1
Aroclor 1232	76	U	76	10	ug/Kg	☼	11/12/19 09:48	11/13/19 15:07	1
Aroclor 1242	76	U	76	10	ug/Kg	☼	11/12/19 09:48	11/13/19 15:07	1
Aroclor 1248	76	U	76	10	ug/Kg	☼	11/12/19 09:48	11/13/19 15:07	1
Aroclor 1254	76	U	76	10	ug/Kg	☼	11/12/19 09:48	11/13/19 15:07	1

Eurofins TestAmerica, Edison

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196258-1

Client Sample ID: WSG-S21-0.0-0.2-0

Lab Sample ID: 460-196258-23

Date Collected: 11/08/19 08:35

Matrix: Solid

Date Received: 11/08/19 20:00

Percent Solids: 88.6

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1260	76	U	76	10	ug/Kg	☼	11/12/19 09:48	11/13/19 15:07	1
Aroclor-1262	76	U	76	10	ug/Kg	☼	11/12/19 09:48	11/13/19 15:07	1
Aroclor 1268	76	U	76	10	ug/Kg	☼	11/12/19 09:48	11/13/19 15:07	1
Polychlorinated biphenyls, Total	76	U	76	10	ug/Kg	☼	11/12/19 09:48	11/13/19 15:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	109		53 - 150	11/12/19 09:48	11/13/19 15:07	1
DCB Decachlorobiphenyl	96		53 - 150	11/12/19 09:48	11/13/19 15:07	1

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	38	U	38	14	ug/Kg	☼	11/13/19 00:19	11/13/19 18:01	1
Silvex (2,4,5-TP)	38	U *	38	3.9	ug/Kg	☼	11/13/19 00:19	11/13/19 18:01	1
2,4,5-T	38	U *	38	8.0	ug/Kg	☼	11/13/19 00:19	11/13/19 18:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	151	*	30 - 150	11/13/19 00:19	11/13/19 18:01	1
2,4-Dichlorophenylacetic acid	137		30 - 150	11/13/19 00:19	11/13/19 18:01	1

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	0.21	U	0.21	0.044	ug/Kg	☼	11/20/19 06:46	12/14/19 18:40	1
Perfluoroheptanoic acid (PFHpA)	0.21	U	0.21	0.030	ug/Kg	☼	11/20/19 06:46	12/14/19 18:40	1
Perfluorooctanoic acid (PFOA)	0.21	U	0.21	0.090	ug/Kg	☼	11/20/19 06:46	12/14/19 18:40	1
Perfluorononanoic acid (PFNA)	0.21	U	0.21	0.038	ug/Kg	☼	11/20/19 06:46	12/14/19 18:40	1
Perfluorodecanoic acid (PFDA)	0.21	U	0.21	0.023	ug/Kg	☼	11/20/19 06:46	12/14/19 18:40	1
Perfluoroundecanoic acid (PFUnA)	0.21	U	0.21	0.038	ug/Kg	☼	11/20/19 06:46	12/14/19 18:40	1
Perfluorododecanoic acid (PFDoA)	0.21	U	0.21	0.070	ug/Kg	☼	11/20/19 06:46	12/14/19 18:40	1
Perfluorotridecanoic acid (PFTriA)	0.21	U	0.21	0.054	ug/Kg	☼	11/20/19 06:46	12/14/19 18:40	1
Perfluorotetradecanoic acid (PFTeA)	0.21	U	0.21	0.057	ug/Kg	☼	11/20/19 06:46	12/14/19 18:40	1
Perfluorobutanesulfonic acid (PFBS)	0.21	U	0.21	0.026	ug/Kg	☼	11/20/19 06:46	12/14/19 18:40	1
Perfluorohexanesulfonic acid (PFHxS)	0.21	U	0.21	0.033	ug/Kg	☼	11/20/19 06:46	12/14/19 18:40	1

Perfluorooctanesulfonic acid (PFOS)	0.29	J B	0.53	0.21	ug/Kg	☼	11/20/19 06:46	12/14/19 18:40	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.10	U	2.10	0.39	ug/Kg	☼	11/20/19 06:46	12/14/19 18:40	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.10	U	2.10	0.41	ug/Kg	☼	11/20/19 06:46	12/14/19 18:40	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFHxA	95		25 - 150	11/20/19 06:46	12/14/19 18:40	1
13C4 PFHpA	102		25 - 150	11/20/19 06:46	12/14/19 18:40	1
13C4 PFOA	97		25 - 150	11/20/19 06:46	12/14/19 18:40	1
13C5 PFNA	97		25 - 150	11/20/19 06:46	12/14/19 18:40	1
13C2 PFDA	109		25 - 150	11/20/19 06:46	12/14/19 18:40	1
13C2 PFUnA	110		25 - 150	11/20/19 06:46	12/14/19 18:40	1
13C2 PFDoA	115		25 - 150	11/20/19 06:46	12/14/19 18:40	1
13C2 PFTeA	95		25 - 150	11/20/19 06:46	12/14/19 18:40	1
18O2 PFHxS	95		25 - 150	11/20/19 06:46	12/14/19 18:40	1
13C4 PFOS	95		25 - 150	11/20/19 06:46	12/14/19 18:40	1
d3-NMeFOSAA	101		25 - 150	11/20/19 06:46	12/14/19 18:40	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196258-1

Client Sample ID: WSG-S21-0.0-0.2-0

Lab Sample ID: 460-196258-23

Date Collected: 11/08/19 08:35

Matrix: Solid

Date Received: 11/08/19 20:00

Percent Solids: 88.6

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	111		25 - 150	11/20/19 06:46	12/14/19 18:40	1

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	5190		31.9	15.7	mg/Kg	☼	11/19/19 07:02	11/19/19 23:35	4
Silver	2.1	U	2.1	0.20	mg/Kg	☼	11/19/19 07:02	11/19/19 23:35	4
Aluminum	3530		42.6	12.0	mg/Kg	☼	11/19/19 07:02	11/19/19 23:35	4
Arsenic	1.6	J	3.2	1.2	mg/Kg	☼	11/19/19 07:02	11/19/19 23:35	4
Boron	5.7	J	10.6	2.9	mg/Kg	☼	11/19/19 07:02	11/19/19 23:35	4
Barium	26.4	J	42.6	2.4	mg/Kg	☼	11/19/19 07:02	11/19/19 23:35	4
Beryllium	0.26	J	0.43	0.095	mg/Kg	☼	11/19/19 07:02	11/19/19 23:35	4
Calcium	25000		1060	62.7	mg/Kg	☼	11/19/19 07:02	11/19/19 23:35	4
Cadmium	0.85	U	0.85	0.14	mg/Kg	☼	11/19/19 07:02	11/19/19 23:35	4
Cobalt	1.8	J	10.6	1.3	mg/Kg	☼	11/19/19 07:02	11/19/19 23:35	4
Chromium	12.2		2.1	0.38	mg/Kg	☼	11/19/19 07:02	11/19/19 23:35	4
Copper	7.9		5.3	2.8	mg/Kg	☼	11/19/19 07:02	11/19/19 23:35	4
Potassium	794	J	1060	66.2	mg/Kg	☼	11/19/19 07:02	11/19/19 23:35	4
Magnesium	2310		1060	62.1	mg/Kg	☼	11/19/19 07:02	11/19/19 23:35	4
Manganese	133		3.2	0.37	mg/Kg	☼	11/19/19 07:02	11/19/19 23:35	4
Molybdenum	4.3	U	4.3	1.0	mg/Kg	☼	11/19/19 07:02	11/19/19 23:35	4
Sodium	1060	U	1060	85.6	mg/Kg	☼	11/19/19 07:02	11/19/19 23:35	4
Nickel	5.8	J	8.5	0.78	mg/Kg	☼	11/19/19 07:02	11/19/19 23:35	4
Lead	7.1		2.1	0.56	mg/Kg	☼	11/19/19 07:02	11/19/19 23:35	4
Antimony	4.3	U	4.3	1.1	mg/Kg	☼	11/19/19 07:02	11/19/19 23:35	4
Selenium	4.3	U	4.3	2.5	mg/Kg	☼	11/19/19 07:02	11/19/19 23:35	4
Tin	10.6	U	10.6	6.9	mg/Kg	☼	11/19/19 07:02	11/19/19 23:35	4
Strontium	97.7		4.3	0.42	mg/Kg	☼	11/19/19 07:02	11/19/19 23:35	4
Titanium	249		4.3	0.64	mg/Kg	☼	11/19/19 07:02	11/19/19 23:35	4
Thallium	4.3	U	4.3	0.68	mg/Kg	☼	11/19/19 07:02	11/19/19 23:35	4
Vanadium	12.9		10.6	0.71	mg/Kg	☼	11/19/19 07:02	11/19/19 23:35	4
Zinc	34.2		6.4	5.0	mg/Kg	☼	11/19/19 07:02	11/19/19 23:35	4

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.025		0.019	0.011	mg/Kg	☼	11/15/19 04:40	11/15/19 09:37	1

Client Sample ID: WSG-S21-0.5-2.0-0

Lab Sample ID: 460-196258-24

Date Collected: 11/08/19 08:45

Matrix: Solid

Date Received: 11/08/19 20:00

Percent Solids: 88.9

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.1	U	1.1	0.25	ug/Kg	☼	11/15/19 10:45	11/16/19 02:30	1
1,1,2,2-Tetrachloroethane	1.1	U	1.1	0.23	ug/Kg	☼	11/15/19 10:45	11/16/19 02:30	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.1	U	1.1	0.32	ug/Kg	☼	11/15/19 10:45	11/16/19 02:30	1
1,1,2-Trichloroethane	1.1	U	1.1	0.19	ug/Kg	☼	11/15/19 10:45	11/16/19 02:30	1
1,1-Dichloroethane	1.1	U	1.1	0.22	ug/Kg	☼	11/15/19 10:45	11/16/19 02:30	1
1,1-Dichloroethene	1.1	U	1.1	0.24	ug/Kg	☼	11/15/19 10:45	11/16/19 02:30	1
1,2,4-Trichlorobenzene	1.1	U	1.1	0.38	ug/Kg	☼	11/15/19 10:45	11/16/19 02:30	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196258-1

Client Sample ID: WSG-S21-0.5-2.0-0

Lab Sample ID: 460-196258-24

Date Collected: 11/08/19 08:45

Matrix: Solid

Date Received: 11/08/19 20:00

Percent Solids: 88.9

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	1.1	U	1.1	0.49	ug/Kg	☼	11/15/19 10:45	11/16/19 02:30	1
1,2-Dichlorobenzene	1.1	U	1.1	0.15	ug/Kg	☼	11/15/19 10:45	11/16/19 02:30	1
1,2-Dichloroethane	1.1	U	1.1	0.31	ug/Kg	☼	11/15/19 10:45	11/16/19 02:30	1
1,2-Dichloropropane	1.1	U	1.1	0.45	ug/Kg	☼	11/15/19 10:45	11/16/19 02:30	1
1,3-Dichlorobenzene	1.1	U	1.1	0.17	ug/Kg	☼	11/15/19 10:45	11/16/19 02:30	1
1,4-Dichlorobenzene	1.1	U	1.1	0.24	ug/Kg	☼	11/15/19 10:45	11/16/19 02:30	1
2-Butanone (MEK)	5.3	U	5.3	2.9	ug/Kg	☼	11/15/19 10:45	11/16/19 02:30	1
2-Hexanone	5.3	U	5.3	1.8	ug/Kg	☼	11/15/19 10:45	11/16/19 02:30	1
4-Methyl-2-pentanone (MIBK)	5.3	U	5.3	1.6	ug/Kg	☼	11/15/19 10:45	11/16/19 02:30	1
Acetone	6.4	U	6.4	6.1	ug/Kg	☼	11/15/19 10:45	11/16/19 02:30	1
Benzene	1.1	U	1.1	0.27	ug/Kg	☼	11/15/19 10:45	11/16/19 02:30	1
Bromoform	1.1	U	1.1	0.45	ug/Kg	☼	11/15/19 10:45	11/16/19 02:30	1
Bromomethane	1.1	U	1.1	0.50	ug/Kg	☼	11/15/19 10:45	11/16/19 02:30	1
Carbon disulfide	1.1	U	1.1	0.28	ug/Kg	☼	11/15/19 10:45	11/16/19 02:30	1
Carbon tetrachloride	1.1	U	1.1	0.41	ug/Kg	☼	11/15/19 10:45	11/16/19 02:30	1
Chlorobenzene	1.1	U	1.1	0.19	ug/Kg	☼	11/15/19 10:45	11/16/19 02:30	1
Chlorodibromomethane	1.1	U	1.1	0.21	ug/Kg	☼	11/15/19 10:45	11/16/19 02:30	1
Chloroethane	1.1	U	1.1	0.55	ug/Kg	☼	11/15/19 10:45	11/16/19 02:30	1
Chloroform	1.1	U	1.1	0.34	ug/Kg	☼	11/15/19 10:45	11/16/19 02:30	1
Chloromethane	1.1	U	1.1	0.46	ug/Kg	☼	11/15/19 10:45	11/16/19 02:30	1
cis-1,2-Dichloroethene	1.1	U	1.1	0.16	ug/Kg	☼	11/15/19 10:45	11/16/19 02:30	1
cis-1,3-Dichloropropene	1.1	U	1.1	0.29	ug/Kg	☼	11/15/19 10:45	11/16/19 02:30	1
Cyclohexane	1.1	U	1.1	0.23	ug/Kg	☼	11/15/19 10:45	11/16/19 02:30	1
Dichlorobromomethane	1.1	U	1.1	0.27	ug/Kg	☼	11/15/19 10:45	11/16/19 02:30	1
Dichlorodifluoromethane	1.1	U	1.1	0.36	ug/Kg	☼	11/15/19 10:45	11/16/19 02:30	1
Ethylbenzene	1.1	U	1.1	0.21	ug/Kg	☼	11/15/19 10:45	11/16/19 02:30	1
Ethylene Dibromide	1.1	U	1.1	0.19	ug/Kg	☼	11/15/19 10:45	11/16/19 02:30	1
Isopropylbenzene	1.1	U	1.1	0.13	ug/Kg	☼	11/15/19 10:45	11/16/19 02:30	1
Methyl acetate	5.3	U	5.3	4.6	ug/Kg	☼	11/15/19 10:45	11/16/19 02:30	1
Methyl tert-butyl ether	1.1	U	1.1	0.13	ug/Kg	☼	11/15/19 10:45	11/16/19 02:30	1
Methylcyclohexane	1.1	U	1.1	0.53	ug/Kg	☼	11/15/19 10:45	11/16/19 02:30	1
Methylene Chloride	1.2		1.1	0.49	ug/Kg	☼	11/15/19 10:45	11/16/19 02:30	1
Styrene	1.1	U	1.1	0.29	ug/Kg	☼	11/15/19 10:45	11/16/19 02:30	1
Tetrachloroethene	1.1	U	1.1	0.15	ug/Kg	☼	11/15/19 10:45	11/16/19 02:30	1
Toluene	1.1	U	1.1	0.25	ug/Kg	☼	11/15/19 10:45	11/16/19 02:30	1
trans-1,2-Dichloroethene	1.1	U	1.1	0.26	ug/Kg	☼	11/15/19 10:45	11/16/19 02:30	1
trans-1,3-Dichloropropene	1.1	U	1.1	0.28	ug/Kg	☼	11/15/19 10:45	11/16/19 02:30	1
Trichloroethene	1.1	U	1.1	0.15	ug/Kg	☼	11/15/19 10:45	11/16/19 02:30	1
Trichlorofluoromethane	1.1	U	1.1	0.43	ug/Kg	☼	11/15/19 10:45	11/16/19 02:30	1
Vinyl chloride	1.1	U	1.1	0.58	ug/Kg	☼	11/15/19 10:45	11/16/19 02:30	1
Xylenes, Total	2.1	U	2.1	0.18	ug/Kg	☼	11/15/19 10:45	11/16/19 02:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		78 - 135				11/15/19 10:45	11/16/19 02:30	1
4-Bromofluorobenzene	107		67 - 126				11/15/19 10:45	11/16/19 02:30	1
Dibromofluoromethane (Surr)	101		61 - 149				11/15/19 10:45	11/16/19 02:30	1
Toluene-d8 (Surr)	106		73 - 121				11/15/19 10:45	11/16/19 02:30	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196258-1

Client Sample ID: WSG-S21-0.5-2.0-0

Lab Sample ID: 460-196258-24

Date Collected: 11/08/19 08:45

Matrix: Solid

Date Received: 11/08/19 20:00

Percent Solids: 88.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	370	U	370	4.9	ug/Kg	☼	11/12/19 12:47	11/12/19 23:38	1
2,2'-oxybis[1-chloropropane]	370	U	370	6.7	ug/Kg	☼	11/12/19 12:47	11/12/19 23:38	1
2,4,5-Trichlorophenol	370	U	370	38	ug/Kg	☼	11/12/19 12:47	11/12/19 23:38	1
2,4,6-Trichlorophenol	150	U	150	48	ug/Kg	☼	11/12/19 12:47	11/12/19 23:38	1
2,4-Dichlorophenol	150	U	150	24	ug/Kg	☼	11/12/19 12:47	11/12/19 23:38	1
2,4-Dimethylphenol	370	U	370	16	ug/Kg	☼	11/12/19 12:47	11/12/19 23:38	1
2,4-Dinitrophenol	300	U	300	180	ug/Kg	☼	11/12/19 12:47	11/12/19 23:38	1
2,4-Dinitrotoluene	75	U	75	40	ug/Kg	☼	11/12/19 12:47	11/12/19 23:38	1
2,6-Dinitrotoluene	75	U	75	27	ug/Kg	☼	11/12/19 12:47	11/12/19 23:38	1
2-Chloronaphthalene	370	U	370	17	ug/Kg	☼	11/12/19 12:47	11/12/19 23:38	1
2-Chlorophenol	370	U	370	13	ug/Kg	☼	11/12/19 12:47	11/12/19 23:38	1
2-Methylnaphthalene	370	U	370	10	ug/Kg	☼	11/12/19 12:47	11/12/19 23:38	1
2-Methylphenol	370	U	370	14	ug/Kg	☼	11/12/19 12:47	11/12/19 23:38	1
2-Nitroaniline	370	U	370	14	ug/Kg	☼	11/12/19 12:47	11/12/19 23:38	1
2-Nitrophenol	370	U	370	37	ug/Kg	☼	11/12/19 12:47	11/12/19 23:38	1
3,3'-Dichlorobenzidine	150	U	150	56	ug/Kg	☼	11/12/19 12:47	11/12/19 23:38	1
3-Nitroaniline	370	U	370	42	ug/Kg	☼	11/12/19 12:47	11/12/19 23:38	1
4,6-Dinitro-2-methylphenol	300	U	300	60	ug/Kg	☼	11/12/19 12:47	11/12/19 23:38	1
4-Bromophenyl phenyl ether	370	U	370	15	ug/Kg	☼	11/12/19 12:47	11/12/19 23:38	1
4-Chloro-3-methylphenol	370	U	370	21	ug/Kg	☼	11/12/19 12:47	11/12/19 23:38	1
4-Chloroaniline	370	U	370	26	ug/Kg	☼	11/12/19 12:47	11/12/19 23:38	1
4-Chlorophenyl phenyl ether	370	U	370	13	ug/Kg	☼	11/12/19 12:47	11/12/19 23:38	1
4-Methylphenol	370	U	370	23	ug/Kg	☼	11/12/19 12:47	11/12/19 23:38	1
4-Nitroaniline	370	U	370	43	ug/Kg	☼	11/12/19 12:47	11/12/19 23:38	1
4-Nitrophenol	750	U	750	61	ug/Kg	☼	11/12/19 12:47	11/12/19 23:38	1
Acenaphthene	370	U	370	27	ug/Kg	☼	11/12/19 12:47	11/12/19 23:38	1
Acenaphthylene	370	U	370	3.8	ug/Kg	☼	11/12/19 12:47	11/12/19 23:38	1
Acetophenone	370	U	370	18	ug/Kg	☼	11/12/19 12:47	11/12/19 23:38	1
Anthracene	370	U	370	11	ug/Kg	☼	11/12/19 12:47	11/12/19 23:38	1
Atrazine	150	U	150	9.4	ug/Kg	☼	11/12/19 12:47	11/12/19 23:38	1
Benzaldehyde	370	U	370	16	ug/Kg	☼	11/12/19 12:47	11/12/19 23:38	1
Benzo[a]anthracene	55		37	13	ug/Kg	☼	11/12/19 12:47	11/12/19 23:38	1
Benzo[a]pyrene	39		37	9.9	ug/Kg	☼	11/12/19 12:47	11/12/19 23:38	1
Benzo[b]fluoranthene	53		37	9.6	ug/Kg	☼	11/12/19 12:47	11/12/19 23:38	1
Benzo[g,h,i]perylene	31 J		370	11	ug/Kg	☼	11/12/19 12:47	11/12/19 23:38	1
Benzo[k]fluoranthene	20 J		37	7.3	ug/Kg	☼	11/12/19 12:47	11/12/19 23:38	1
Bis(2-chloroethoxy)methane	370	U	370	29	ug/Kg	☼	11/12/19 12:47	11/12/19 23:38	1
Bis(2-chloroethyl)ether	37	U	37	13	ug/Kg	☼	11/12/19 12:47	11/12/19 23:38	1
Bis(2-ethylhexyl) phthalate	370	U	370	20	ug/Kg	☼	11/12/19 12:47	11/12/19 23:38	1
Butyl benzyl phthalate	370	U	370	17	ug/Kg	☼	11/12/19 12:47	11/12/19 23:38	1
Caprolactam	370	U	370	58	ug/Kg	☼	11/12/19 12:47	11/12/19 23:38	1
Carbazole	370	U	370	14	ug/Kg	☼	11/12/19 12:47	11/12/19 23:38	1
Chrysene	49 J		370	6.3	ug/Kg	☼	11/12/19 12:47	11/12/19 23:38	1
Dibenz(a,h)anthracene	37	U	37	16	ug/Kg	☼	11/12/19 12:47	11/12/19 23:38	1
Dibenzofuran	370	U	370	5.2	ug/Kg	☼	11/12/19 12:47	11/12/19 23:38	1
Diethyl phthalate	370	U	370	5.4	ug/Kg	☼	11/12/19 12:47	11/12/19 23:38	1
Dimethyl phthalate	370	U	370	85	ug/Kg	☼	11/12/19 12:47	11/12/19 23:38	1
Di-n-butyl phthalate	370	U	370	66	ug/Kg	☼	11/12/19 12:47	11/12/19 23:38	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196258-1

Client Sample ID: WSG-S21-0.5-2.0-0

Lab Sample ID: 460-196258-24

Date Collected: 11/08/19 08:45

Matrix: Solid

Date Received: 11/08/19 20:00

Percent Solids: 88.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate	370	U	370	20	ug/Kg	☒	11/12/19 12:47	11/12/19 23:38	1
Fluoranthene	83	J	370	13	ug/Kg	☒	11/12/19 12:47	11/12/19 23:38	1
Fluorene	370	U	370	5.0	ug/Kg	☒	11/12/19 12:47	11/12/19 23:38	1
Hexachlorobenzene	37	U	37	18	ug/Kg	☒	11/12/19 12:47	11/12/19 23:38	1
Hexachlorobutadiene	75	U	75	7.9	ug/Kg	☒	11/12/19 12:47	11/12/19 23:38	1
Hexachlorocyclopentadiene	370	U	370	33	ug/Kg	☒	11/12/19 12:47	11/12/19 23:38	1
Hexachloroethane	37	U	37	13	ug/Kg	☒	11/12/19 12:47	11/12/19 23:38	1
Indeno[1,2,3-cd]pyrene	30	J	37	15	ug/Kg	☒	11/12/19 12:47	11/12/19 23:38	1
Isophorone	150	U	150	110	ug/Kg	☒	11/12/19 12:47	11/12/19 23:38	1
Naphthalene	370	U	370	6.4	ug/Kg	☒	11/12/19 12:47	11/12/19 23:38	1
Nitrobenzene	37	U	37	8.9	ug/Kg	☒	11/12/19 12:47	11/12/19 23:38	1
N-Nitrosodi-n-propylamine	37	U	37	27	ug/Kg	☒	11/12/19 12:47	11/12/19 23:38	1
N-Nitrosodiphenylamine	370	U	370	7.1	ug/Kg	☒	11/12/19 12:47	11/12/19 23:38	1
Pentachlorophenol	300	U	300	76	ug/Kg	☒	11/12/19 12:47	11/12/19 23:38	1
Phenanthrene	61	J	370	6.5	ug/Kg	☒	11/12/19 12:47	11/12/19 23:38	1
Phenol	370	U	370	14	ug/Kg	☒	11/12/19 12:47	11/12/19 23:38	1
Pyrene	96	J	370	9.2	ug/Kg	☒	11/12/19 12:47	11/12/19 23:38	1
1,4-Dioxane	110	U	110	10	ug/Kg	☒	11/12/19 12:47	11/12/19 23:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	5	*	10 - 137	11/12/19 12:47	11/12/19 23:38	1
2-Fluorobiphenyl	64		29 - 107	11/12/19 12:47	11/12/19 23:38	1
2-Fluorophenol (Surr)	38		20 - 115	11/12/19 12:47	11/12/19 23:38	1
Nitrobenzene-d5 (Surr)	67		25 - 113	11/12/19 12:47	11/12/19 23:38	1
Phenol-d5 (Surr)	67		28 - 109	11/12/19 12:47	11/12/19 23:38	1
Terphenyl-d14 (Surr)	75		27 - 123	11/12/19 12:47	11/12/19 23:38	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	7.5	U	7.5	1.3	ug/Kg	☒	11/12/19 09:56	11/14/19 11:27	1
4,4'-DDE	2.8	J	7.5	0.89	ug/Kg	☒	11/12/19 09:56	11/14/19 11:27	1
4,4'-DDT	7.5	U	7.5	1.4	ug/Kg	☒	11/12/19 09:56	11/14/19 11:27	1
Aldrin	7.5	U	7.5	1.1	ug/Kg	☒	11/12/19 09:56	11/14/19 11:27	1
alpha-BHC	2.2	U	2.2	0.76	ug/Kg	☒	11/12/19 09:56	11/14/19 11:27	1
beta-BHC	2.2	U	2.2	0.84	ug/Kg	☒	11/12/19 09:56	11/14/19 11:27	1
Chlordane (technical)	75	U	75	18	ug/Kg	☒	11/12/19 09:56	11/14/19 11:27	1
delta-BHC	2.2	U	2.2	0.46	ug/Kg	☒	11/12/19 09:56	11/14/19 11:27	1
Dieldrin	2.2	U	2.2	0.98	ug/Kg	☒	11/12/19 09:56	11/14/19 11:27	1
Endosulfan I	7.5	U	7.5	1.1	ug/Kg	☒	11/12/19 09:56	11/14/19 11:27	1
Endosulfan II	7.5	U	7.5	1.9	ug/Kg	☒	11/12/19 09:56	11/14/19 11:27	1
Endosulfan sulfate	7.5	U	7.5	0.94	ug/Kg	☒	11/12/19 09:56	11/14/19 11:27	1
Endrin	7.5	U	7.5	1.1	ug/Kg	☒	11/12/19 09:56	11/14/19 11:27	1
Endrin aldehyde	7.5	U	7.5	1.8	ug/Kg	☒	11/12/19 09:56	11/14/19 11:27	1
Endrin ketone	7.5	U	7.5	1.5	ug/Kg	☒	11/12/19 09:56	11/14/19 11:27	1
gamma-BHC (Lindane)	2.2	U	2.2	0.70	ug/Kg	☒	11/12/19 09:56	11/14/19 11:27	1
Heptachlor	7.5	U	7.5	0.89	ug/Kg	☒	11/12/19 09:56	11/14/19 11:27	1
Heptachlor epoxide	7.5	U	7.5	1.1	ug/Kg	☒	11/12/19 09:56	11/14/19 11:27	1
Methoxychlor	7.5	U	7.5	1.7	ug/Kg	☒	11/12/19 09:56	11/14/19 11:27	1
Toxaphene	75	U	75	27	ug/Kg	☒	11/12/19 09:56	11/14/19 11:27	1

Eurofins TestAmerica, Edison

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196258-1

Client Sample ID: WSG-S21-0.5-2.0-0

Lab Sample ID: 460-196258-24

Date Collected: 11/08/19 08:45

Matrix: Solid

Date Received: 11/08/19 20:00

Percent Solids: 88.9

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	103		49 - 150	11/12/19 09:56	11/14/19 11:27	1
DCB Decachlorobiphenyl	117		49 - 150	11/12/19 09:56	11/14/19 11:27	1
Tetrachloro-m-xylene	91		47 - 150	11/12/19 09:56	11/14/19 11:27	1
Tetrachloro-m-xylene	92		47 - 150	11/12/19 09:56	11/14/19 11:27	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	75	U	75	10	ug/Kg	☼	11/12/19 09:48	11/13/19 15:28	1
Aroclor 1221	75	U	75	10	ug/Kg	☼	11/12/19 09:48	11/13/19 15:28	1
Aroclor 1232	75	U	75	10	ug/Kg	☼	11/12/19 09:48	11/13/19 15:28	1
Aroclor 1242	75	U	75	10	ug/Kg	☼	11/12/19 09:48	11/13/19 15:28	1
Aroclor 1248	75	U	75	10	ug/Kg	☼	11/12/19 09:48	11/13/19 15:28	1
Aroclor 1254	75	U	75	10	ug/Kg	☼	11/12/19 09:48	11/13/19 15:28	1
Aroclor 1260	75	U	75	10	ug/Kg	☼	11/12/19 09:48	11/13/19 15:28	1
Aroclor-1262	75	U	75	10	ug/Kg	☼	11/12/19 09:48	11/13/19 15:28	1
Aroclor 1268	75	U	75	10	ug/Kg	☼	11/12/19 09:48	11/13/19 15:28	1
Polychlorinated biphenyls, Total	75	U	75	10	ug/Kg	☼	11/12/19 09:48	11/13/19 15:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	128		53 - 150	11/12/19 09:48	11/13/19 15:28	1
DCB Decachlorobiphenyl	113		53 - 150	11/12/19 09:48	11/13/19 15:28	1

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	37	U	37	14	ug/Kg	☼	11/13/19 00:19	11/13/19 18:15	1
Silvex (2,4,5-TP)	37	U *	37	3.9	ug/Kg	☼	11/13/19 00:19	11/13/19 18:15	1
2,4,5-T	37	U *	37	8.0	ug/Kg	☼	11/13/19 00:19	11/13/19 18:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	153	*	30 - 150	11/13/19 00:19	11/13/19 18:15	1
2,4-Dichlorophenylacetic acid	137		30 - 150	11/13/19 00:19	11/13/19 18:15	1

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	0.22	U	0.22	0.046	ug/Kg	☼	11/20/19 06:46	12/14/19 18:48	1
Perfluoroheptanoic acid (PFHpA)	0.22	U	0.22	0.032	ug/Kg	☼	11/20/19 06:46	12/14/19 18:48	1
Perfluorooctanoic acid (PFOA)	0.22	U	0.22	0.094	ug/Kg	☼	11/20/19 06:46	12/14/19 18:48	1
Perfluorononanoic acid (PFNA)	0.22	U	0.22	0.039	ug/Kg	☼	11/20/19 06:46	12/14/19 18:48	1
Perfluorodecanoic acid (PFDA)	0.22	U	0.22	0.024	ug/Kg	☼	11/20/19 06:46	12/14/19 18:48	1
Perfluoroundecanoic acid (PFUnA)	0.22	U	0.22	0.039	ug/Kg	☼	11/20/19 06:46	12/14/19 18:48	1
Perfluorododecanoic acid (PFDoA)	0.22	U	0.22	0.073	ug/Kg	☼	11/20/19 06:46	12/14/19 18:48	1
Perfluorotridecanoic acid (PFTriA)	0.22	U	0.22	0.056	ug/Kg	☼	11/20/19 06:46	12/14/19 18:48	1
Perfluorotetradecanoic acid (PFTeA)	0.22	U	0.22	0.059	ug/Kg	☼	11/20/19 06:46	12/14/19 18:48	1
Perfluorobutanesulfonic acid (PFBS)	0.22	U	0.22	0.027	ug/Kg	☼	11/20/19 06:46	12/14/19 18:48	1
Perfluorohexanesulfonic acid (PFHxS)	0.22	U	0.22	0.034	ug/Kg	☼	11/20/19 06:46	12/14/19 18:48	1
Perfluorooctanesulfonic acid (PFOS)	0.31	J B	0.55	0.22	ug/Kg	☼	11/20/19 06:46	12/14/19 18:48	1
N-ethylperfluorooctanesulfonamidoacetic acid (NETFOSAA)	2.18	U	2.18	0.40	ug/Kg	☼	11/20/19 06:46	12/14/19 18:48	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.18	U	2.18	0.43	ug/Kg	☼	11/20/19 06:46	12/14/19 18:48	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196258-1

Client Sample ID: WSG-S21-0.5-2.0-0

Lab Sample ID: 460-196258-24

Date Collected: 11/08/19 08:45

Matrix: Solid

Date Received: 11/08/19 20:00

Percent Solids: 88.9

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFHxA	96		25 - 150	11/20/19 06:46	12/14/19 18:48	1
13C4 PFHpA	100		25 - 150	11/20/19 06:46	12/14/19 18:48	1
13C4 PFOA	96		25 - 150	11/20/19 06:46	12/14/19 18:48	1
13C5 PFNA	94		25 - 150	11/20/19 06:46	12/14/19 18:48	1
13C2 PFDA	94		25 - 150	11/20/19 06:46	12/14/19 18:48	1
13C2 PFUnA	103		25 - 150	11/20/19 06:46	12/14/19 18:48	1
13C2 PFDoA	99		25 - 150	11/20/19 06:46	12/14/19 18:48	1
13C2 PFTeDA	92		25 - 150	11/20/19 06:46	12/14/19 18:48	1
18O2 PFHxS	87		25 - 150	11/20/19 06:46	12/14/19 18:48	1
13C4 PFOS	86		25 - 150	11/20/19 06:46	12/14/19 18:48	1
d3-NMeFOSAA	77		25 - 150	11/20/19 06:46	12/14/19 18:48	1
d5-NEtFOSAA	82		25 - 150	11/20/19 06:46	12/14/19 18:48	1

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	5860		31.5	15.4	mg/Kg	☼	11/19/19 07:02	11/19/19 23:39	4
Silver	2.1	U	2.1	0.20	mg/Kg	☼	11/19/19 07:02	11/19/19 23:39	4
Aluminum	4200		42.0	11.9	mg/Kg	☼	11/19/19 07:02	11/19/19 23:39	4
Arsenic	1.9	J	3.2	1.2	mg/Kg	☼	11/19/19 07:02	11/19/19 23:39	4
Boron	10	J	10.5	2.9	mg/Kg	☼	11/19/19 07:02	11/19/19 23:39	4
Barium	27.5	J	42.0	2.3	mg/Kg	☼	11/19/19 07:02	11/19/19 23:39	4
Beryllium	0.30	J	0.42	0.094	mg/Kg	☼	11/19/19 07:02	11/19/19 23:39	4
Calcium	32400		1050	61.9	mg/Kg	☼	11/19/19 07:02	11/19/19 23:39	4
Cadmium	0.84	U	0.84	0.14	mg/Kg	☼	11/19/19 07:02	11/19/19 23:39	4
Cobalt	1.8	J	10.5	1.3	mg/Kg	☼	11/19/19 07:02	11/19/19 23:39	4
Chromium	9.6		2.1	0.37	mg/Kg	☼	11/19/19 07:02	11/19/19 23:39	4
Copper	10		5.3	2.8	mg/Kg	☼	11/19/19 07:02	11/19/19 23:39	4
Potassium	575	J	1050	65.4	mg/Kg	☼	11/19/19 07:02	11/19/19 23:39	4
Magnesium	2620		1050	61.3	mg/Kg	☼	11/19/19 07:02	11/19/19 23:39	4
Manganese	133		3.2	0.37	mg/Kg	☼	11/19/19 07:02	11/19/19 23:39	4
Molybdenum	4.2	U	4.2	1.0	mg/Kg	☼	11/19/19 07:02	11/19/19 23:39	4
Sodium	1050	U	1050	84.5	mg/Kg	☼	11/19/19 07:02	11/19/19 23:39	4
Nickel	5.8	J	8.4	0.77	mg/Kg	☼	11/19/19 07:02	11/19/19 23:39	4
Lead	5.7		2.1	0.55	mg/Kg	☼	11/19/19 07:02	11/19/19 23:39	4
Antimony	4.2	U	4.2	1.1	mg/Kg	☼	11/19/19 07:02	11/19/19 23:39	4
Selenium	4.2	U	4.2	2.5	mg/Kg	☼	11/19/19 07:02	11/19/19 23:39	4
Tin	10.5	U	10.5	6.8	mg/Kg	☼	11/19/19 07:02	11/19/19 23:39	4
Strontium	96.0		4.2	0.42	mg/Kg	☼	11/19/19 07:02	11/19/19 23:39	4
Titanium	322		4.2	0.63	mg/Kg	☼	11/19/19 07:02	11/19/19 23:39	4
Thallium	4.2	U	4.2	0.67	mg/Kg	☼	11/19/19 07:02	11/19/19 23:39	4
Vanadium	14.5		10.5	0.70	mg/Kg	☼	11/19/19 07:02	11/19/19 23:39	4
Zinc	26.4		6.3	4.9	mg/Kg	☼	11/19/19 07:02	11/19/19 23:39	4

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.022		0.018	0.010	mg/Kg	☼	11/15/19 04:40	11/15/19 09:39	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196258-1

Client Sample ID: WSG-S22-0.0-0.2-0

Lab Sample ID: 460-196258-25

Date Collected: 11/08/19 09:05

Matrix: Solid

Date Received: 11/08/19 20:00

Percent Solids: 89.3

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/Kg	☼	11/15/19 10:47	11/16/19 02:55	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22	ug/Kg	☼	11/15/19 10:47	11/16/19 02:55	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/Kg	☼	11/15/19 10:47	11/16/19 02:55	1
1,1,2-Trichloroethane	1.0	U	1.0	0.18	ug/Kg	☼	11/15/19 10:47	11/16/19 02:55	1
1,1-Dichloroethane	1.0	U	1.0	0.21	ug/Kg	☼	11/15/19 10:47	11/16/19 02:55	1
1,1-Dichloroethene	1.0	U	1.0	0.23	ug/Kg	☼	11/15/19 10:47	11/16/19 02:55	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.37	ug/Kg	☼	11/15/19 10:47	11/16/19 02:55	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.48	ug/Kg	☼	11/15/19 10:47	11/16/19 02:55	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/Kg	☼	11/15/19 10:47	11/16/19 02:55	1
1,2-Dichloroethane	1.0	U	1.0	0.31	ug/Kg	☼	11/15/19 10:47	11/16/19 02:55	1
1,2-Dichloropropane	1.0	U	1.0	0.44	ug/Kg	☼	11/15/19 10:47	11/16/19 02:55	1
1,3-Dichlorobenzene	1.0	U	1.0	0.16	ug/Kg	☼	11/15/19 10:47	11/16/19 02:55	1
1,4-Dichlorobenzene	1.0	U	1.0	0.23	ug/Kg	☼	11/15/19 10:47	11/16/19 02:55	1
2-Butanone (MEK)	5.2	U	5.2	2.8	ug/Kg	☼	11/15/19 10:47	11/16/19 02:55	1
2-Hexanone	5.2	U	5.2	1.8	ug/Kg	☼	11/15/19 10:47	11/16/19 02:55	1
4-Methyl-2-pentanone (MIBK)	5.2	U	5.2	1.6	ug/Kg	☼	11/15/19 10:47	11/16/19 02:55	1
Acetone	6.2	U	6.2	5.9	ug/Kg	☼	11/15/19 10:47	11/16/19 02:55	1
Benzene	1.0	U	1.0	0.27	ug/Kg	☼	11/15/19 10:47	11/16/19 02:55	1
Bromoform	1.0	U	1.0	0.44	ug/Kg	☼	11/15/19 10:47	11/16/19 02:55	1
Bromomethane	1.0	U	1.0	0.49	ug/Kg	☼	11/15/19 10:47	11/16/19 02:55	1
Carbon disulfide	1.0	U	1.0	0.28	ug/Kg	☼	11/15/19 10:47	11/16/19 02:55	1
Carbon tetrachloride	1.0	U	1.0	0.40	ug/Kg	☼	11/15/19 10:47	11/16/19 02:55	1
Chlorobenzene	1.0	U	1.0	0.18	ug/Kg	☼	11/15/19 10:47	11/16/19 02:55	1
Chlorodibromomethane	1.0	U	1.0	0.20	ug/Kg	☼	11/15/19 10:47	11/16/19 02:55	1
Chloroethane	1.0	U	1.0	0.54	ug/Kg	☼	11/15/19 10:47	11/16/19 02:55	1
Chloroform	1.0	U	1.0	0.33	ug/Kg	☼	11/15/19 10:47	11/16/19 02:55	1
Chloromethane	1.0	U	1.0	0.45	ug/Kg	☼	11/15/19 10:47	11/16/19 02:55	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/Kg	☼	11/15/19 10:47	11/16/19 02:55	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.28	ug/Kg	☼	11/15/19 10:47	11/16/19 02:55	1
Cyclohexane	1.0	U	1.0	0.23	ug/Kg	☼	11/15/19 10:47	11/16/19 02:55	1
Dichlorobromomethane	1.0	U	1.0	0.27	ug/Kg	☼	11/15/19 10:47	11/16/19 02:55	1
Dichlorodifluoromethane	1.0	U	1.0	0.35	ug/Kg	☼	11/15/19 10:47	11/16/19 02:55	1
Ethylbenzene	1.0	U	1.0	0.21	ug/Kg	☼	11/15/19 10:47	11/16/19 02:55	1
Ethylene Dibromide	1.0	U	1.0	0.19	ug/Kg	☼	11/15/19 10:47	11/16/19 02:55	1
Isopropylbenzene	1.0	U	1.0	0.13	ug/Kg	☼	11/15/19 10:47	11/16/19 02:55	1
Methyl acetate	5.2	U	5.2	4.4	ug/Kg	☼	11/15/19 10:47	11/16/19 02:55	1
Methyl tert-butyl ether	1.0	U	1.0	0.13	ug/Kg	☼	11/15/19 10:47	11/16/19 02:55	1
Methylcyclohexane	1.0	U	1.0	0.52	ug/Kg	☼	11/15/19 10:47	11/16/19 02:55	1
Methylene Chloride	2.6		1.0	0.48	ug/Kg	☼	11/15/19 10:47	11/16/19 02:55	1
Styrene	1.0	U	1.0	0.29	ug/Kg	☼	11/15/19 10:47	11/16/19 02:55	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/Kg	☼	11/15/19 10:47	11/16/19 02:55	1
Toluene	1.0	U	1.0	0.24	ug/Kg	☼	11/15/19 10:47	11/16/19 02:55	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.25	ug/Kg	☼	11/15/19 10:47	11/16/19 02:55	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.28	ug/Kg	☼	11/15/19 10:47	11/16/19 02:55	1
Trichloroethene	1.0	U	1.0	0.15	ug/Kg	☼	11/15/19 10:47	11/16/19 02:55	1
Trichlorofluoromethane	1.0	U	1.0	0.42	ug/Kg	☼	11/15/19 10:47	11/16/19 02:55	1
Vinyl chloride	1.0	U	1.0	0.56	ug/Kg	☼	11/15/19 10:47	11/16/19 02:55	1
Xylenes, Total	2.1	U	2.1	0.18	ug/Kg	☼	11/15/19 10:47	11/16/19 02:55	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196258-1

Client Sample ID: WSG-S22-0.0-0.2-0

Lab Sample ID: 460-196258-25

Date Collected: 11/08/19 09:05

Matrix: Solid

Date Received: 11/08/19 20:00

Percent Solids: 89.3

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		78 - 135	11/15/19 10:47	11/16/19 02:55	1
4-Bromofluorobenzene	105		67 - 126	11/15/19 10:47	11/16/19 02:55	1
Dibromofluoromethane (Surr)	110		61 - 149	11/15/19 10:47	11/16/19 02:55	1
Toluene-d8 (Surr)	107		73 - 121	11/15/19 10:47	11/16/19 02:55	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	370	U	370	4.9	ug/Kg	☼	11/12/19 12:47	11/13/19 00:01	1
2,2'-oxybis[1-chloropropane]	370	U	370	6.7	ug/Kg	☼	11/12/19 12:47	11/13/19 00:01	1
2,4,5-Trichlorophenol	370	U	370	38	ug/Kg	☼	11/12/19 12:47	11/13/19 00:01	1
2,4,6-Trichlorophenol	150	U	150	48	ug/Kg	☼	11/12/19 12:47	11/13/19 00:01	1
2,4-Dichlorophenol	150	U	150	24	ug/Kg	☼	11/12/19 12:47	11/13/19 00:01	1
2,4-Dimethylphenol	370	U	370	16	ug/Kg	☼	11/12/19 12:47	11/13/19 00:01	1
2,4-Dinitrophenol	300	U	300	180	ug/Kg	☼	11/12/19 12:47	11/13/19 00:01	1
2,4-Dinitrotoluene	75	U	75	40	ug/Kg	☼	11/12/19 12:47	11/13/19 00:01	1
2,6-Dinitrotoluene	75	U	75	27	ug/Kg	☼	11/12/19 12:47	11/13/19 00:01	1
2-Chloronaphthalene	370	U	370	17	ug/Kg	☼	11/12/19 12:47	11/13/19 00:01	1
2-Chlorophenol	370	U	370	13	ug/Kg	☼	11/12/19 12:47	11/13/19 00:01	1
2-Methylnaphthalene	370	U	370	10	ug/Kg	☼	11/12/19 12:47	11/13/19 00:01	1
2-Methylphenol	370	U	370	14	ug/Kg	☼	11/12/19 12:47	11/13/19 00:01	1
2-Nitroaniline	370	U	370	14	ug/Kg	☼	11/12/19 12:47	11/13/19 00:01	1
2-Nitrophenol	370	U	370	37	ug/Kg	☼	11/12/19 12:47	11/13/19 00:01	1
3,3'-Dichlorobenzidine	150	U	150	56	ug/Kg	☼	11/12/19 12:47	11/13/19 00:01	1
3-Nitroaniline	370	U	370	42	ug/Kg	☼	11/12/19 12:47	11/13/19 00:01	1
4,6-Dinitro-2-methylphenol	300	U	300	60	ug/Kg	☼	11/12/19 12:47	11/13/19 00:01	1
4-Bromophenyl phenyl ether	370	U	370	15	ug/Kg	☼	11/12/19 12:47	11/13/19 00:01	1
4-Chloro-3-methylphenol	370	U	370	21	ug/Kg	☼	11/12/19 12:47	11/13/19 00:01	1
4-Chloroaniline	370	U	370	26	ug/Kg	☼	11/12/19 12:47	11/13/19 00:01	1
4-Chlorophenyl phenyl ether	370	U	370	13	ug/Kg	☼	11/12/19 12:47	11/13/19 00:01	1
4-Methylphenol	370	U	370	23	ug/Kg	☼	11/12/19 12:47	11/13/19 00:01	1
4-Nitroaniline	370	U	370	43	ug/Kg	☼	11/12/19 12:47	11/13/19 00:01	1
4-Nitrophenol	750	U	750	60	ug/Kg	☼	11/12/19 12:47	11/13/19 00:01	1
Acenaphthene	370	U	370	27	ug/Kg	☼	11/12/19 12:47	11/13/19 00:01	1
Acenaphthylene	370	U	370	3.8	ug/Kg	☼	11/12/19 12:47	11/13/19 00:01	1
Acetophenone	370	U	370	18	ug/Kg	☼	11/12/19 12:47	11/13/19 00:01	1
Anthracene	370	U	370	11	ug/Kg	☼	11/12/19 12:47	11/13/19 00:01	1
Atrazine	150	U	150	9.3	ug/Kg	☼	11/12/19 12:47	11/13/19 00:01	1
Benzaldehyde	370	U	370	16	ug/Kg	☼	11/12/19 12:47	11/13/19 00:01	1
Benzo[a]anthracene	22	J	37	13	ug/Kg	☼	11/12/19 12:47	11/13/19 00:01	1
Benzo[a]pyrene	17	J	37	9.9	ug/Kg	☼	11/12/19 12:47	11/13/19 00:01	1
Benzo[b]fluoranthene	25	J	37	9.6	ug/Kg	☼	11/12/19 12:47	11/13/19 00:01	1
Benzo[g,h,i]perylene	370	U	370	11	ug/Kg	☼	11/12/19 12:47	11/13/19 00:01	1
Benzo[k]fluoranthene	12	J	37	7.3	ug/Kg	☼	11/12/19 12:47	11/13/19 00:01	1
Bis(2-chloroethoxy)methane	370	U	370	29	ug/Kg	☼	11/12/19 12:47	11/13/19 00:01	1
Bis(2-chloroethyl)ether	37	U	37	13	ug/Kg	☼	11/12/19 12:47	11/13/19 00:01	1
Bis(2-ethylhexyl) phthalate	370	U	370	20	ug/Kg	☼	11/12/19 12:47	11/13/19 00:01	1
Butyl benzyl phthalate	370	U	370	17	ug/Kg	☼	11/12/19 12:47	11/13/19 00:01	1
Caprolactam	370	U	370	58	ug/Kg	☼	11/12/19 12:47	11/13/19 00:01	1
Carbazole	370	U	370	14	ug/Kg	☼	11/12/19 12:47	11/13/19 00:01	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196258-1

Client Sample ID: WSG-S22-0.0-0.2-0

Lab Sample ID: 460-196258-25

Date Collected: 11/08/19 09:05

Matrix: Solid

Date Received: 11/08/19 20:00

Percent Solids: 89.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	18	J	370	6.3	ug/Kg	☒	11/12/19 12:47	11/13/19 00:01	1
Dibenz(a,h)anthracene	37	U	37	16	ug/Kg	☒	11/12/19 12:47	11/13/19 00:01	1
Dibenzofuran	370	U	370	5.2	ug/Kg	☒	11/12/19 12:47	11/13/19 00:01	1
Diethyl phthalate	370	U	370	5.4	ug/Kg	☒	11/12/19 12:47	11/13/19 00:01	1
Dimethyl phthalate	370	U	370	84	ug/Kg	☒	11/12/19 12:47	11/13/19 00:01	1
Di-n-butyl phthalate	370	U	370	65	ug/Kg	☒	11/12/19 12:47	11/13/19 00:01	1
Di-n-octyl phthalate	370	U	370	20	ug/Kg	☒	11/12/19 12:47	11/13/19 00:01	1
Fluoranthene	24	J	370	13	ug/Kg	☒	11/12/19 12:47	11/13/19 00:01	1
Fluorene	370	U	370	5.0	ug/Kg	☒	11/12/19 12:47	11/13/19 00:01	1
Hexachlorobenzene	37	U	37	18	ug/Kg	☒	11/12/19 12:47	11/13/19 00:01	1
Hexachlorobutadiene	75	U	75	7.9	ug/Kg	☒	11/12/19 12:47	11/13/19 00:01	1
Hexachlorocyclopentadiene	370	U	370	32	ug/Kg	☒	11/12/19 12:47	11/13/19 00:01	1
Hexachloroethane	37	U	37	13	ug/Kg	☒	11/12/19 12:47	11/13/19 00:01	1
Indeno[1,2,3-cd]pyrene	20	J	37	14	ug/Kg	☒	11/12/19 12:47	11/13/19 00:01	1
Isophorone	150	U	150	110	ug/Kg	☒	11/12/19 12:47	11/13/19 00:01	1
Naphthalene	370	U	370	6.4	ug/Kg	☒	11/12/19 12:47	11/13/19 00:01	1
Nitrobenzene	37	U	37	8.9	ug/Kg	☒	11/12/19 12:47	11/13/19 00:01	1
N-Nitrosodi-n-propylamine	37	U	37	27	ug/Kg	☒	11/12/19 12:47	11/13/19 00:01	1
N-Nitrosodiphenylamine	370	U	370	7.1	ug/Kg	☒	11/12/19 12:47	11/13/19 00:01	1
Pentachlorophenol	300	U	300	76	ug/Kg	☒	11/12/19 12:47	11/13/19 00:01	1
Phenanthrene	13	J	370	6.5	ug/Kg	☒	11/12/19 12:47	11/13/19 00:01	1
Phenol	370	U	370	14	ug/Kg	☒	11/12/19 12:47	11/13/19 00:01	1
Pyrene	29	J	370	9.2	ug/Kg	☒	11/12/19 12:47	11/13/19 00:01	1
1,4-Dioxane	110	U	110	10	ug/Kg	☒	11/12/19 12:47	11/13/19 00:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	52		10 - 137	11/12/19 12:47	11/13/19 00:01	1
2-Fluorobiphenyl	56		29 - 107	11/12/19 12:47	11/13/19 00:01	1
2-Fluorophenol (Surr)	61		20 - 115	11/12/19 12:47	11/13/19 00:01	1
Nitrobenzene-d5 (Surr)	61		25 - 113	11/12/19 12:47	11/13/19 00:01	1
Phenol-d5 (Surr)	60		28 - 109	11/12/19 12:47	11/13/19 00:01	1
Terphenyl-d14 (Surr)	69		27 - 123	11/12/19 12:47	11/13/19 00:01	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	7.5	U	7.5	1.3	ug/Kg	☒	11/12/19 09:56	11/14/19 11:40	1
4,4'-DDE	7.5	U	7.5	0.88	ug/Kg	☒	11/12/19 09:56	11/14/19 11:40	1
4,4'-DDT	7.5	U	7.5	1.4	ug/Kg	☒	11/12/19 09:56	11/14/19 11:40	1
Aldrin	7.5	U	7.5	1.1	ug/Kg	☒	11/12/19 09:56	11/14/19 11:40	1
alpha-BHC	2.2	U	2.2	0.76	ug/Kg	☒	11/12/19 09:56	11/14/19 11:40	1
beta-BHC	2.2	U	2.2	0.84	ug/Kg	☒	11/12/19 09:56	11/14/19 11:40	1
Chlordane (technical)	75	U	75	18	ug/Kg	☒	11/12/19 09:56	11/14/19 11:40	1
delta-BHC	2.2	U	2.2	0.46	ug/Kg	☒	11/12/19 09:56	11/14/19 11:40	1
Dieldrin	2.2	U	2.2	0.97	ug/Kg	☒	11/12/19 09:56	11/14/19 11:40	1
Endosulfan I	7.5	U	7.5	1.1	ug/Kg	☒	11/12/19 09:56	11/14/19 11:40	1
Endosulfan II	7.5	U	7.5	1.9	ug/Kg	☒	11/12/19 09:56	11/14/19 11:40	1
Endosulfan sulfate	7.5	U	7.5	0.94	ug/Kg	☒	11/12/19 09:56	11/14/19 11:40	1
Endrin	7.5	U	7.5	1.1	ug/Kg	☒	11/12/19 09:56	11/14/19 11:40	1
Endrin aldehyde	7.5	U	7.5	1.8	ug/Kg	☒	11/12/19 09:56	11/14/19 11:40	1

Eurofins TestAmerica, Edison

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196258-1

Client Sample ID: WSG-S22-0.0-0.2-0

Lab Sample ID: 460-196258-25

Date Collected: 11/08/19 09:05

Matrix: Solid

Date Received: 11/08/19 20:00

Percent Solids: 89.3

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endrin ketone	7.5	U	7.5	1.5	ug/Kg	☼	11/12/19 09:56	11/14/19 11:40	1
gamma-BHC (Lindane)	2.2	U	2.2	0.69	ug/Kg	☼	11/12/19 09:56	11/14/19 11:40	1
Heptachlor	7.5	U	7.5	0.88	ug/Kg	☼	11/12/19 09:56	11/14/19 11:40	1
Heptachlor epoxide	7.5	U	7.5	1.1	ug/Kg	☼	11/12/19 09:56	11/14/19 11:40	1
Methoxychlor	7.5	U	7.5	1.7	ug/Kg	☼	11/12/19 09:56	11/14/19 11:40	1
Toxaphene	75	U	75	27	ug/Kg	☼	11/12/19 09:56	11/14/19 11:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	100		49 - 150	11/12/19 09:56	11/14/19 11:40	1
DCB Decachlorobiphenyl	104		49 - 150	11/12/19 09:56	11/14/19 11:40	1
Tetrachloro-m-xylene	76		47 - 150	11/12/19 09:56	11/14/19 11:40	1
Tetrachloro-m-xylene	79		47 - 150	11/12/19 09:56	11/14/19 11:40	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	75	U	75	10	ug/Kg	☼	11/12/19 09:48	11/13/19 15:48	1
Aroclor 1221	75	U	75	10	ug/Kg	☼	11/12/19 09:48	11/13/19 15:48	1
Aroclor 1232	75	U	75	10	ug/Kg	☼	11/12/19 09:48	11/13/19 15:48	1
Aroclor 1242	75	U	75	10	ug/Kg	☼	11/12/19 09:48	11/13/19 15:48	1
Aroclor 1248	75	U	75	10	ug/Kg	☼	11/12/19 09:48	11/13/19 15:48	1
Aroclor 1254	75	U	75	10	ug/Kg	☼	11/12/19 09:48	11/13/19 15:48	1
Aroclor 1260	75	U	75	10	ug/Kg	☼	11/12/19 09:48	11/13/19 15:48	1
Aroclor-1262	75	U	75	10	ug/Kg	☼	11/12/19 09:48	11/13/19 15:48	1
Aroclor 1268	75	U	75	10	ug/Kg	☼	11/12/19 09:48	11/13/19 15:48	1
Polychlorinated biphenyls, Total	75	U	75	10	ug/Kg	☼	11/12/19 09:48	11/13/19 15:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	117		53 - 150	11/12/19 09:48	11/13/19 15:48	1
DCB Decachlorobiphenyl	103		53 - 150	11/12/19 09:48	11/13/19 15:48	1

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	37	U	37	14	ug/Kg	☼	11/13/19 00:19	11/13/19 18:29	1
Silvex (2,4,5-TP)	37	U *	37	3.9	ug/Kg	☼	11/13/19 00:19	11/13/19 18:29	1
2,4,5-T	37	U *	37	7.9	ug/Kg	☼	11/13/19 00:19	11/13/19 18:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	153	*	30 - 150	11/13/19 00:19	11/13/19 18:29	1
2,4-Dichlorophenylacetic acid	132		30 - 150	11/13/19 00:19	11/13/19 18:29	1

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	0.21	U	0.21	0.045	ug/Kg	☼	11/20/19 06:46	12/14/19 18:56	1
Perfluoroheptanoic acid (PFHpA)	0.21	U	0.21	0.031	ug/Kg	☼	11/20/19 06:46	12/14/19 18:56	1
Perfluorooctanoic acid (PFOA)	0.21	U	0.21	0.091	ug/Kg	☼	11/20/19 06:46	12/14/19 18:56	1
Perfluorononanoic acid (PFNA)	0.21	U	0.21	0.038	ug/Kg	☼	11/20/19 06:46	12/14/19 18:56	1
Perfluorodecanoic acid (PFDA)	0.21	U	0.21	0.023	ug/Kg	☼	11/20/19 06:46	12/14/19 18:56	1
Perfluoroundecanoic acid (PFUnA)	0.21	U	0.21	0.038	ug/Kg	☼	11/20/19 06:46	12/14/19 18:56	1
Perfluorododecanoic acid (PFDoA)	0.21	U	0.21	0.071	ug/Kg	☼	11/20/19 06:46	12/14/19 18:56	1
Perfluorotridecanoic acid (PFTriA)	0.21	U	0.21	0.054	ug/Kg	☼	11/20/19 06:46	12/14/19 18:56	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196258-1

Client Sample ID: WSG-S22-0.0-0.2-0

Lab Sample ID: 460-196258-25

Date Collected: 11/08/19 09:05

Matrix: Solid

Date Received: 11/08/19 20:00

Percent Solids: 89.3

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorotetradecanoic acid (PFTeA)	0.21	U	0.21	0.057	ug/Kg	☼	11/20/19 06:46	12/14/19 18:56	1
Perfluorobutanesulfonic acid (PFBS)	0.065	J Z	0.21	0.027	ug/Kg	☼	11/20/19 06:46	12/14/19 18:56	1
Perfluorohexanesulfonic acid (PFHxS)	0.035	J	0.21	0.033	ug/Kg	☼	11/20/19 06:46	12/14/19 18:56	1
Perfluorooctanesulfonic acid (PFOS)	0.62	B	0.53	0.21	ug/Kg	☼	11/20/19 06:46	12/14/19 18:56	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.12	U	2.12	0.39	ug/Kg	☼	11/20/19 06:46	12/14/19 18:56	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.12	U	2.12	0.41	ug/Kg	☼	11/20/19 06:46	12/14/19 18:56	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C2 PFHxA	92		25 - 150				11/20/19 06:46	12/14/19 18:56	1
13C4 PFHpA	102		25 - 150				11/20/19 06:46	12/14/19 18:56	1
13C4 PFOA	96		25 - 150				11/20/19 06:46	12/14/19 18:56	1
13C5 PFNA	99		25 - 150				11/20/19 06:46	12/14/19 18:56	1
13C2 PFDA	102		25 - 150				11/20/19 06:46	12/14/19 18:56	1
13C2 PFUnA	108		25 - 150				11/20/19 06:46	12/14/19 18:56	1
13C2 PFDoA	106		25 - 150				11/20/19 06:46	12/14/19 18:56	1
13C2 PFTeDA	91		25 - 150				11/20/19 06:46	12/14/19 18:56	1
18O2 PFHxS	89		25 - 150				11/20/19 06:46	12/14/19 18:56	1
13C4 PFOS	95		25 - 150				11/20/19 06:46	12/14/19 18:56	1
d3-NMeFOSAA	66		25 - 150				11/20/19 06:46	12/14/19 18:56	1
d5-NEtFOSAA	74		25 - 150				11/20/19 06:46	12/14/19 18:56	1

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	4310		31.7	15.5	mg/Kg	☼	11/19/19 07:02	11/19/19 23:43	4
Silver	2.1	U	2.1	0.20	mg/Kg	☼	11/19/19 07:02	11/19/19 23:43	4
Aluminum	3070		42.2	11.9	mg/Kg	☼	11/19/19 07:02	11/19/19 23:43	4
Arsenic	1.4	J	3.2	1.2	mg/Kg	☼	11/19/19 07:02	11/19/19 23:43	4
Boron	5.7	J	10.6	2.9	mg/Kg	☼	11/19/19 07:02	11/19/19 23:43	4
Barium	22.9	J	42.2	2.3	mg/Kg	☼	11/19/19 07:02	11/19/19 23:43	4
Beryllium	0.21	J	0.42	0.094	mg/Kg	☼	11/19/19 07:02	11/19/19 23:43	4
Calcium	21000		1060	62.2	mg/Kg	☼	11/19/19 07:02	11/19/19 23:43	4
Cadmium	0.84	U	0.84	0.14	mg/Kg	☼	11/19/19 07:02	11/19/19 23:43	4
Cobalt	1.4	J	10.6	1.3	mg/Kg	☼	11/19/19 07:02	11/19/19 23:43	4
Chromium	7.4		2.1	0.38	mg/Kg	☼	11/19/19 07:02	11/19/19 23:43	4
Copper	7.3		5.3	2.8	mg/Kg	☼	11/19/19 07:02	11/19/19 23:43	4
Potassium	441	J	1060	65.7	mg/Kg	☼	11/19/19 07:02	11/19/19 23:43	4
Magnesium	1740		1060	61.6	mg/Kg	☼	11/19/19 07:02	11/19/19 23:43	4
Manganese	149		3.2	0.37	mg/Kg	☼	11/19/19 07:02	11/19/19 23:43	4
Molybdenum	4.2	U	4.2	1.0	mg/Kg	☼	11/19/19 07:02	11/19/19 23:43	4
Sodium	1060	U	1060	84.9	mg/Kg	☼	11/19/19 07:02	11/19/19 23:43	4
Nickel	5.0	J	8.4	0.78	mg/Kg	☼	11/19/19 07:02	11/19/19 23:43	4
Lead	4.7		2.1	0.55	mg/Kg	☼	11/19/19 07:02	11/19/19 23:43	4
Antimony	4.2	U	4.2	1.1	mg/Kg	☼	11/19/19 07:02	11/19/19 23:43	4
Selenium	4.2	U	4.2	2.5	mg/Kg	☼	11/19/19 07:02	11/19/19 23:43	4
Tin	10.6	U	10.6	6.8	mg/Kg	☼	11/19/19 07:02	11/19/19 23:43	4
Strontium	89.4		4.2	0.42	mg/Kg	☼	11/19/19 07:02	11/19/19 23:43	4

Eurofins TestAmerica, Edison

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196258-1

Client Sample ID: WSG-S22-0.0-0.2-0

Lab Sample ID: 460-196258-25

Date Collected: 11/08/19 09:05

Matrix: Solid

Date Received: 11/08/19 20:00

Percent Solids: 89.3

Method: 6010D - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Titanium	169		4.2	0.64	mg/Kg	☼	11/19/19 07:02	11/19/19 23:43	4
Thallium	4.2	U	4.2	0.67	mg/Kg	☼	11/19/19 07:02	11/19/19 23:43	4
Vanadium	9.3	J	10.6	0.70	mg/Kg	☼	11/19/19 07:02	11/19/19 23:43	4
Zinc	31.3		6.3	4.9	mg/Kg	☼	11/19/19 07:02	11/19/19 23:43	4

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.024		0.018	0.011	mg/Kg	☼	11/15/19 04:40	11/15/19 09:41	1

Client Sample ID: WSG-S22-0.5-2.0-0

Lab Sample ID: 460-196258-26

Date Collected: 11/08/19 09:15

Matrix: Solid

Date Received: 11/08/19 20:00

Percent Solids: 90.2

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/Kg	☼	11/15/19 10:48	11/16/19 03:21	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22	ug/Kg	☼	11/15/19 10:48	11/16/19 03:21	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/Kg	☼	11/15/19 10:48	11/16/19 03:21	1
1,1,2-Trichloroethane	1.0	U	1.0	0.18	ug/Kg	☼	11/15/19 10:48	11/16/19 03:21	1
1,1-Dichloroethane	1.0	U	1.0	0.21	ug/Kg	☼	11/15/19 10:48	11/16/19 03:21	1
1,1-Dichloroethene	1.0	U	1.0	0.23	ug/Kg	☼	11/15/19 10:48	11/16/19 03:21	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.37	ug/Kg	☼	11/15/19 10:48	11/16/19 03:21	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.47	ug/Kg	☼	11/15/19 10:48	11/16/19 03:21	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/Kg	☼	11/15/19 10:48	11/16/19 03:21	1
1,2-Dichloroethane	1.0	U	1.0	0.31	ug/Kg	☼	11/15/19 10:48	11/16/19 03:21	1
1,2-Dichloropropane	1.0	U	1.0	0.44	ug/Kg	☼	11/15/19 10:48	11/16/19 03:21	1
1,3-Dichlorobenzene	1.0	U	1.0	0.16	ug/Kg	☼	11/15/19 10:48	11/16/19 03:21	1
1,4-Dichlorobenzene	1.0	U	1.0	0.23	ug/Kg	☼	11/15/19 10:48	11/16/19 03:21	1
2-Butanone (MEK)	5.2	U	5.2	2.8	ug/Kg	☼	11/15/19 10:48	11/16/19 03:21	1
2-Hexanone	5.2	U	5.2	1.8	ug/Kg	☼	11/15/19 10:48	11/16/19 03:21	1
4-Methyl-2-pentanone (MIBK)	5.2	U	5.2	1.6	ug/Kg	☼	11/15/19 10:48	11/16/19 03:21	1
Acetone	6.2	U	6.2	5.9	ug/Kg	☼	11/15/19 10:48	11/16/19 03:21	1
Benzene	1.0	U	1.0	0.27	ug/Kg	☼	11/15/19 10:48	11/16/19 03:21	1
Bromoform	1.0	U	1.0	0.44	ug/Kg	☼	11/15/19 10:48	11/16/19 03:21	1
Bromomethane	1.0	U	1.0	0.49	ug/Kg	☼	11/15/19 10:48	11/16/19 03:21	1
Carbon disulfide	1.0	U	1.0	0.27	ug/Kg	☼	11/15/19 10:48	11/16/19 03:21	1
Carbon tetrachloride	1.0	U	1.0	0.40	ug/Kg	☼	11/15/19 10:48	11/16/19 03:21	1
Chlorobenzene	1.0	U	1.0	0.18	ug/Kg	☼	11/15/19 10:48	11/16/19 03:21	1
Chlorodibromomethane	1.0	U	1.0	0.20	ug/Kg	☼	11/15/19 10:48	11/16/19 03:21	1
Chloroethane	1.0	U	1.0	0.54	ug/Kg	☼	11/15/19 10:48	11/16/19 03:21	1
Chloroform	1.0	U	1.0	0.33	ug/Kg	☼	11/15/19 10:48	11/16/19 03:21	1
Chloromethane	1.0	U	1.0	0.45	ug/Kg	☼	11/15/19 10:48	11/16/19 03:21	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/Kg	☼	11/15/19 10:48	11/16/19 03:21	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.28	ug/Kg	☼	11/15/19 10:48	11/16/19 03:21	1
Cyclohexane	1.0	U	1.0	0.23	ug/Kg	☼	11/15/19 10:48	11/16/19 03:21	1
Dichlorobromomethane	1.0	U	1.0	0.27	ug/Kg	☼	11/15/19 10:48	11/16/19 03:21	1
Dichlorodifluoromethane	1.0	U	1.0	0.35	ug/Kg	☼	11/15/19 10:48	11/16/19 03:21	1
Ethylbenzene	1.0	U	1.0	0.21	ug/Kg	☼	11/15/19 10:48	11/16/19 03:21	1
Ethylene Dibromide	1.0	U	1.0	0.19	ug/Kg	☼	11/15/19 10:48	11/16/19 03:21	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196258-1

Client Sample ID: WSG-S22-0.5-2.0-0

Lab Sample ID: 460-196258-26

Date Collected: 11/08/19 09:15

Matrix: Solid

Date Received: 11/08/19 20:00

Percent Solids: 90.2

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	1.0	U	1.0	0.13	ug/Kg	☒	11/15/19 10:48	11/16/19 03:21	1
Methyl acetate	5.2	U	5.2	4.4	ug/Kg	☒	11/15/19 10:48	11/16/19 03:21	1
Methyl tert-butyl ether	1.0	U	1.0	0.13	ug/Kg	☒	11/15/19 10:48	11/16/19 03:21	1
Methylcyclohexane	1.0	U	1.0	0.52	ug/Kg	☒	11/15/19 10:48	11/16/19 03:21	1
Methylene Chloride	2.4		1.0	0.48	ug/Kg	☒	11/15/19 10:48	11/16/19 03:21	1
Styrene	1.0	U	1.0	0.29	ug/Kg	☒	11/15/19 10:48	11/16/19 03:21	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/Kg	☒	11/15/19 10:48	11/16/19 03:21	1
Toluene	1.0	U	1.0	0.24	ug/Kg	☒	11/15/19 10:48	11/16/19 03:21	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.25	ug/Kg	☒	11/15/19 10:48	11/16/19 03:21	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.27	ug/Kg	☒	11/15/19 10:48	11/16/19 03:21	1
Trichloroethene	1.0	U	1.0	0.15	ug/Kg	☒	11/15/19 10:48	11/16/19 03:21	1
Trichlorofluoromethane	1.0	U	1.0	0.42	ug/Kg	☒	11/15/19 10:48	11/16/19 03:21	1
Vinyl chloride	1.0	U	1.0	0.56	ug/Kg	☒	11/15/19 10:48	11/16/19 03:21	1
Xylenes, Total	2.1	U	2.1	0.18	ug/Kg	☒	11/15/19 10:48	11/16/19 03:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		78 - 135	11/15/19 10:48	11/16/19 03:21	1
4-Bromofluorobenzene	106		67 - 126	11/15/19 10:48	11/16/19 03:21	1
Dibromofluoromethane (Surr)	110		61 - 149	11/15/19 10:48	11/16/19 03:21	1
Toluene-d8 (Surr)	106		73 - 121	11/15/19 10:48	11/16/19 03:21	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	370	U	370	4.9	ug/Kg	☒	11/12/19 12:47	11/13/19 01:08	1
2,2'-oxybis[1-chloropropane]	370	U	370	6.6	ug/Kg	☒	11/12/19 12:47	11/13/19 01:08	1
2,4,5-Trichlorophenol	370	U	370	37	ug/Kg	☒	11/12/19 12:47	11/13/19 01:08	1
2,4,6-Trichlorophenol	150	U	150	47	ug/Kg	☒	11/12/19 12:47	11/13/19 01:08	1
2,4-Dichlorophenol	150	U	150	24	ug/Kg	☒	11/12/19 12:47	11/13/19 01:08	1
2,4-Dimethylphenol	370	U	370	16	ug/Kg	☒	11/12/19 12:47	11/13/19 01:08	1
2,4-Dinitrophenol	290	U	290	180	ug/Kg	☒	11/12/19 12:47	11/13/19 01:08	1
2,4-Dinitrotoluene	74	U	74	39	ug/Kg	☒	11/12/19 12:47	11/13/19 01:08	1
2,6-Dinitrotoluene	74	U	74	27	ug/Kg	☒	11/12/19 12:47	11/13/19 01:08	1
2-Chloronaphthalene	370	U	370	17	ug/Kg	☒	11/12/19 12:47	11/13/19 01:08	1
2-Chlorophenol	370	U	370	13	ug/Kg	☒	11/12/19 12:47	11/13/19 01:08	1
2-Methylnaphthalene	370	U	370	10	ug/Kg	☒	11/12/19 12:47	11/13/19 01:08	1
2-Methylphenol	370	U	370	14	ug/Kg	☒	11/12/19 12:47	11/13/19 01:08	1
2-Nitroaniline	370	U	370	14	ug/Kg	☒	11/12/19 12:47	11/13/19 01:08	1
2-Nitrophenol	370	U	370	37	ug/Kg	☒	11/12/19 12:47	11/13/19 01:08	1
3,3'-Dichlorobenzidine	150	U	150	55	ug/Kg	☒	11/12/19 12:47	11/13/19 01:08	1
3-Nitroaniline	370	U	370	41	ug/Kg	☒	11/12/19 12:47	11/13/19 01:08	1
4,6-Dinitro-2-methylphenol	290	U	290	60	ug/Kg	☒	11/12/19 12:47	11/13/19 01:08	1
4-Bromophenyl phenyl ether	370	U	370	15	ug/Kg	☒	11/12/19 12:47	11/13/19 01:08	1
4-Chloro-3-methylphenol	370	U	370	21	ug/Kg	☒	11/12/19 12:47	11/13/19 01:08	1
4-Chloroaniline	370	U	370	26	ug/Kg	☒	11/12/19 12:47	11/13/19 01:08	1
4-Chlorophenyl phenyl ether	370	U	370	13	ug/Kg	☒	11/12/19 12:47	11/13/19 01:08	1
4-Methylphenol	370	U	370	23	ug/Kg	☒	11/12/19 12:47	11/13/19 01:08	1
4-Nitroaniline	370	U	370	42	ug/Kg	☒	11/12/19 12:47	11/13/19 01:08	1
4-Nitrophenol	740	U	740	60	ug/Kg	☒	11/12/19 12:47	11/13/19 01:08	1
Acenaphthene	370	U	370	27	ug/Kg	☒	11/12/19 12:47	11/13/19 01:08	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196258-1

Client Sample ID: WSG-S22-0.5-2.0-0

Lab Sample ID: 460-196258-26

Date Collected: 11/08/19 09:15

Matrix: Solid

Date Received: 11/08/19 20:00

Percent Solids: 90.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthylene	370	U	370	3.8	ug/Kg	☼	11/12/19 12:47	11/13/19 01:08	1
Acetophenone	370	U	370	18	ug/Kg	☼	11/12/19 12:47	11/13/19 01:08	1
Anthracene	21	J	370	11	ug/Kg	☼	11/12/19 12:47	11/13/19 01:08	1
Atrazine	150	U	150	9.3	ug/Kg	☼	11/12/19 12:47	11/13/19 01:08	1
Benzaldehyde	370	U	370	16	ug/Kg	☼	11/12/19 12:47	11/13/19 01:08	1
Benzo[a]anthracene	78		37	13	ug/Kg	☼	11/12/19 12:47	11/13/19 01:08	1
Benzo[a]pyrene	67		37	9.8	ug/Kg	☼	11/12/19 12:47	11/13/19 01:08	1
Benzo[b]fluoranthene	96		37	9.5	ug/Kg	☼	11/12/19 12:47	11/13/19 01:08	1
Benzo[g,h,i]perylene	59	J	370	11	ug/Kg	☼	11/12/19 12:47	11/13/19 01:08	1
Benzo[k]fluoranthene	35	J	37	7.2	ug/Kg	☼	11/12/19 12:47	11/13/19 01:08	1
Bis(2-chloroethoxy)methane	370	U	370	29	ug/Kg	☼	11/12/19 12:47	11/13/19 01:08	1
Bis(2-chloroethyl)ether	37	U	37	13	ug/Kg	☼	11/12/19 12:47	11/13/19 01:08	1
Bis(2-ethylhexyl) phthalate	370	U	370	19	ug/Kg	☼	11/12/19 12:47	11/13/19 01:08	1
Butyl benzyl phthalate	370	U	370	17	ug/Kg	☼	11/12/19 12:47	11/13/19 01:08	1
Caprolactam	370	U	370	57	ug/Kg	☼	11/12/19 12:47	11/13/19 01:08	1
Carbazole	14	J	370	14	ug/Kg	☼	11/12/19 12:47	11/13/19 01:08	1
Chrysene	76	J	370	6.2	ug/Kg	☼	11/12/19 12:47	11/13/19 01:08	1
Dibenz(a,h)anthracene	37	U	37	16	ug/Kg	☼	11/12/19 12:47	11/13/19 01:08	1
Dibenzofuran	370	U	370	5.2	ug/Kg	☼	11/12/19 12:47	11/13/19 01:08	1
Diethyl phthalate	370	U	370	5.3	ug/Kg	☼	11/12/19 12:47	11/13/19 01:08	1
Dimethyl phthalate	370	U	370	83	ug/Kg	☼	11/12/19 12:47	11/13/19 01:08	1
Di-n-butyl phthalate	370	U	370	65	ug/Kg	☼	11/12/19 12:47	11/13/19 01:08	1
Di-n-octyl phthalate	370	U	370	19	ug/Kg	☼	11/12/19 12:47	11/13/19 01:08	1
Fluoranthene	140	J	370	13	ug/Kg	☼	11/12/19 12:47	11/13/19 01:08	1
Fluorene	370	U	370	5.0	ug/Kg	☼	11/12/19 12:47	11/13/19 01:08	1
Hexachlorobenzene	37	U	37	17	ug/Kg	☼	11/12/19 12:47	11/13/19 01:08	1
Hexachlorobutadiene	74	U	74	7.8	ug/Kg	☼	11/12/19 12:47	11/13/19 01:08	1
Hexachlorocyclopentadiene	370	U	370	32	ug/Kg	☼	11/12/19 12:47	11/13/19 01:08	1
Hexachloroethane	37	U	37	13	ug/Kg	☼	11/12/19 12:47	11/13/19 01:08	1
Indeno[1,2,3-cd]pyrene	59		37	14	ug/Kg	☼	11/12/19 12:47	11/13/19 01:08	1
Isophorone	150	U	150	110	ug/Kg	☼	11/12/19 12:47	11/13/19 01:08	1
Naphthalene	370	U	370	6.3	ug/Kg	☼	11/12/19 12:47	11/13/19 01:08	1
Nitrobenzene	37	U	37	8.8	ug/Kg	☼	11/12/19 12:47	11/13/19 01:08	1
N-Nitrosodi-n-propylamine	37	U	37	27	ug/Kg	☼	11/12/19 12:47	11/13/19 01:08	1
N-Nitrosodiphenylamine	370	U	370	7.0	ug/Kg	☼	11/12/19 12:47	11/13/19 01:08	1
Pentachlorophenol	290	U	290	75	ug/Kg	☼	11/12/19 12:47	11/13/19 01:08	1
Phenanthrene	92	J	370	6.4	ug/Kg	☼	11/12/19 12:47	11/13/19 01:08	1
Phenol	370	U	370	13	ug/Kg	☼	11/12/19 12:47	11/13/19 01:08	1
Pyrene	160	J	370	9.1	ug/Kg	☼	11/12/19 12:47	11/13/19 01:08	1
1,4-Dioxane	110	U	110	10	ug/Kg	☼	11/12/19 12:47	11/13/19 01:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	51		10 - 137	11/12/19 12:47	11/13/19 01:08	1
2-Fluorobiphenyl	54		29 - 107	11/12/19 12:47	11/13/19 01:08	1
2-Fluorophenol (Surr)	55		20 - 115	11/12/19 12:47	11/13/19 01:08	1
Nitrobenzene-d5 (Surr)	52		25 - 113	11/12/19 12:47	11/13/19 01:08	1
Phenol-d5 (Surr)	56		28 - 109	11/12/19 12:47	11/13/19 01:08	1
Terphenyl-d14 (Surr)	66		27 - 123	11/12/19 12:47	11/13/19 01:08	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196258-1

Client Sample ID: WSG-S22-0.5-2.0-0

Lab Sample ID: 460-196258-26

Date Collected: 11/08/19 09:15

Matrix: Solid

Date Received: 11/08/19 20:00

Percent Solids: 90.2

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	7.4	U	7.4	1.3	ug/Kg	☒	11/12/19 09:56	11/14/19 11:52	1
4,4'-DDE	7.4	U	7.4	0.88	ug/Kg	☒	11/12/19 09:56	11/14/19 11:52	1
4,4'-DDT	7.4	U	7.4	1.4	ug/Kg	☒	11/12/19 09:56	11/14/19 11:52	1
Aldrin	7.4	U	7.4	1.1	ug/Kg	☒	11/12/19 09:56	11/14/19 11:52	1
alpha-BHC	2.2	U	2.2	0.75	ug/Kg	☒	11/12/19 09:56	11/14/19 11:52	1
beta-BHC	2.2	U	2.2	0.83	ug/Kg	☒	11/12/19 09:56	11/14/19 11:52	1
Chlordane (technical)	74	U	74	18	ug/Kg	☒	11/12/19 09:56	11/14/19 11:52	1
delta-BHC	2.2	U	2.2	0.45	ug/Kg	☒	11/12/19 09:56	11/14/19 11:52	1
Dieldrin	2.2	U	2.2	0.96	ug/Kg	☒	11/12/19 09:56	11/14/19 11:52	1
Endosulfan I	7.4	U	7.4	1.1	ug/Kg	☒	11/12/19 09:56	11/14/19 11:52	1
Endosulfan II	7.4	U	7.4	1.9	ug/Kg	☒	11/12/19 09:56	11/14/19 11:52	1
Endosulfan sulfate	7.4	U	7.4	0.93	ug/Kg	☒	11/12/19 09:56	11/14/19 11:52	1
Endrin	7.4	U	7.4	1.1	ug/Kg	☒	11/12/19 09:56	11/14/19 11:52	1
Endrin aldehyde	7.4	U	7.4	1.8	ug/Kg	☒	11/12/19 09:56	11/14/19 11:52	1
Endrin ketone	7.4	U	7.4	1.4	ug/Kg	☒	11/12/19 09:56	11/14/19 11:52	1
gamma-BHC (Lindane)	2.2	U	2.2	0.69	ug/Kg	☒	11/12/19 09:56	11/14/19 11:52	1
Heptachlor	7.4	U	7.4	0.88	ug/Kg	☒	11/12/19 09:56	11/14/19 11:52	1
Heptachlor epoxide	7.4	U	7.4	1.1	ug/Kg	☒	11/12/19 09:56	11/14/19 11:52	1
Methoxychlor	7.4	U	7.4	1.7	ug/Kg	☒	11/12/19 09:56	11/14/19 11:52	1
Toxaphene	74	U	74	27	ug/Kg	☒	11/12/19 09:56	11/14/19 11:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	120		49 - 150	11/12/19 09:56	11/14/19 11:52	1
DCB Decachlorobiphenyl	105		49 - 150	11/12/19 09:56	11/14/19 11:52	1
Tetrachloro-m-xylene	84		47 - 150	11/12/19 09:56	11/14/19 11:52	1
Tetrachloro-m-xylene	87		47 - 150	11/12/19 09:56	11/14/19 11:52	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	74	U	74	9.9	ug/Kg	☒	11/12/19 09:48	11/13/19 16:09	1
Aroclor 1221	74	U	74	9.9	ug/Kg	☒	11/12/19 09:48	11/13/19 16:09	1
Aroclor 1232	74	U	74	9.9	ug/Kg	☒	11/12/19 09:48	11/13/19 16:09	1
Aroclor 1242	74	U	74	9.9	ug/Kg	☒	11/12/19 09:48	11/13/19 16:09	1
Aroclor 1248	74	U	74	9.9	ug/Kg	☒	11/12/19 09:48	11/13/19 16:09	1
Aroclor 1254	74	U	74	10	ug/Kg	☒	11/12/19 09:48	11/13/19 16:09	1
Aroclor 1260	74	U	74	10	ug/Kg	☒	11/12/19 09:48	11/13/19 16:09	1
Aroclor-1262	74	U	74	10	ug/Kg	☒	11/12/19 09:48	11/13/19 16:09	1
Aroclor 1268	74	U	74	10	ug/Kg	☒	11/12/19 09:48	11/13/19 16:09	1
Polychlorinated biphenyls, Total	74	U	74	10	ug/Kg	☒	11/12/19 09:48	11/13/19 16:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	112		53 - 150	11/12/19 09:48	11/13/19 16:09	1
DCB Decachlorobiphenyl	106		53 - 150	11/12/19 09:48	11/13/19 16:09	1

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	37	U	37	13	ug/Kg	☒	11/13/19 00:19	11/13/19 18:42	1
Silvex (2,4,5-TP)	37	U*	37	3.8	ug/Kg	☒	11/13/19 00:19	11/13/19 18:42	1
2,4,5-T	37	U*	37	7.9	ug/Kg	☒	11/13/19 00:19	11/13/19 18:42	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196258-1

Client Sample ID: WSG-S22-0.5-2.0-0

Lab Sample ID: 460-196258-26

Date Collected: 11/08/19 09:15

Matrix: Solid

Date Received: 11/08/19 20:00

Percent Solids: 90.2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	151	*	30 - 150	11/13/19 00:19	11/13/19 18:42	1
2,4-Dichlorophenylacetic acid	138		30 - 150	11/13/19 00:19	11/13/19 18:42	1

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	0.21	U	0.21	0.043	ug/Kg	☼	11/20/19 06:46	12/14/19 19:12	1
Perfluoroheptanoic acid (PFHpA)	0.21	U	0.21	0.030	ug/Kg	☼	11/20/19 06:46	12/14/19 19:12	1
Perfluorooctanoic acid (PFOA)	0.21	U	0.21	0.089	ug/Kg	☼	11/20/19 06:46	12/14/19 19:12	1
Perfluorononanoic acid (PFNA)	0.21	U	0.21	0.037	ug/Kg	☼	11/20/19 06:46	12/14/19 19:12	1
Perfluorodecanoic acid (PFDA)	0.026	J Z	0.21	0.023	ug/Kg	☼	11/20/19 06:46	12/14/19 19:12	1
Perfluoroundecanoic acid (PFUnA)	0.21	U	0.21	0.037	ug/Kg	☼	11/20/19 06:46	12/14/19 19:12	1
Perfluorododecanoic acid (PFDoA)	0.21	U	0.21	0.069	ug/Kg	☼	11/20/19 06:46	12/14/19 19:12	1
Perfluorotridecanoic acid (PFTriA)	0.21	U	0.21	0.053	ug/Kg	☼	11/20/19 06:46	12/14/19 19:12	1
Perfluorotetradecanoic acid (PFTeA)	0.21	U	0.21	0.056	ug/Kg	☼	11/20/19 06:46	12/14/19 19:12	1
Perfluorobutanesulfonic acid (PFBS)	0.21	U	0.21	0.026	ug/Kg	☼	11/20/19 06:46	12/14/19 19:12	1
Perfluorohexanesulfonic acid (PFHxS)	0.21	U	0.21	0.032	ug/Kg	☼	11/20/19 06:46	12/14/19 19:12	1
Perfluorooctanesulfonic acid (PFOS)	0.56	B	0.52	0.21	ug/Kg	☼	11/20/19 06:46	12/14/19 19:12	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.06	U	2.06	0.38	ug/Kg	☼	11/20/19 06:46	12/14/19 19:12	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.06	U	2.06	0.40	ug/Kg	☼	11/20/19 06:46	12/14/19 19:12	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFHxA	99		25 - 150	11/20/19 06:46	12/14/19 19:12	1
13C4 PFHpA	105		25 - 150	11/20/19 06:46	12/14/19 19:12	1
13C4 PFOA	101		25 - 150	11/20/19 06:46	12/14/19 19:12	1
13C5 PFNA	100		25 - 150	11/20/19 06:46	12/14/19 19:12	1
13C2 PFDA	104		25 - 150	11/20/19 06:46	12/14/19 19:12	1
13C2 PFUnA	109		25 - 150	11/20/19 06:46	12/14/19 19:12	1
13C2 PFDoA	107		25 - 150	11/20/19 06:46	12/14/19 19:12	1
13C2 PFTeDA	96		25 - 150	11/20/19 06:46	12/14/19 19:12	1
18O2 PFHxS	94		25 - 150	11/20/19 06:46	12/14/19 19:12	1
13C4 PFOS	91		25 - 150	11/20/19 06:46	12/14/19 19:12	1
d3-NMeFOSAA	73		25 - 150	11/20/19 06:46	12/14/19 19:12	1
d5-NEtFOSAA	74		25 - 150	11/20/19 06:46	12/14/19 19:12	1

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	4620		31.1	15.2	mg/Kg	☼	11/19/19 07:02	11/19/19 23:47	4
Silver	2.1	U	2.1	0.20	mg/Kg	☼	11/19/19 07:02	11/19/19 23:47	4
Aluminum	3010		41.4	11.7	mg/Kg	☼	11/19/19 07:02	11/19/19 23:47	4
Arsenic	1.6	J	3.1	1.2	mg/Kg	☼	11/19/19 07:02	11/19/19 23:47	4
Boron	5.0	J	10.4	2.9	mg/Kg	☼	11/19/19 07:02	11/19/19 23:47	4
Barium	26.3	J	41.4	2.3	mg/Kg	☼	11/19/19 07:02	11/19/19 23:47	4
Beryllium	0.20	J	0.41	0.092	mg/Kg	☼	11/19/19 07:02	11/19/19 23:47	4
Calcium	21100		1040	61.0	mg/Kg	☼	11/19/19 07:02	11/19/19 23:47	4
Cadmium	0.83	U	0.83	0.14	mg/Kg	☼	11/19/19 07:02	11/19/19 23:47	4
Cobalt	1.7	J	10.4	1.3	mg/Kg	☼	11/19/19 07:02	11/19/19 23:47	4
Chromium	8.7		2.1	0.37	mg/Kg	☼	11/19/19 07:02	11/19/19 23:47	4
Copper	7.2		5.2	2.8	mg/Kg	☼	11/19/19 07:02	11/19/19 23:47	4

Eurofins TestAmerica, Edison

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196258-1

Client Sample ID: WSG-S22-0.5-2.0-0

Lab Sample ID: 460-196258-26

Date Collected: 11/08/19 09:15

Matrix: Solid

Date Received: 11/08/19 20:00

Percent Solids: 90.2

Method: 6010D - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	641	J	1040	64.5	mg/Kg	☼	11/19/19 07:02	11/19/19 23:47	4
Magnesium	1860		1040	60.4	mg/Kg	☼	11/19/19 07:02	11/19/19 23:47	4
Manganese	122		3.1	0.36	mg/Kg	☼	11/19/19 07:02	11/19/19 23:47	4
Molybdenum	4.1	U	4.1	0.98	mg/Kg	☼	11/19/19 07:02	11/19/19 23:47	4
Sodium	1040	U	1040	83.3	mg/Kg	☼	11/19/19 07:02	11/19/19 23:47	4
Nickel	5.1	J	8.3	0.76	mg/Kg	☼	11/19/19 07:02	11/19/19 23:47	4
Lead	5.9		2.1	0.54	mg/Kg	☼	11/19/19 07:02	11/19/19 23:47	4
Antimony	4.1	U	4.1	1.1	mg/Kg	☼	11/19/19 07:02	11/19/19 23:47	4
Selenium	4.1	U	4.1	2.5	mg/Kg	☼	11/19/19 07:02	11/19/19 23:47	4
Tin	10.4	U	10.4	6.7	mg/Kg	☼	11/19/19 07:02	11/19/19 23:47	4
Strontium	85.1		4.1	0.41	mg/Kg	☼	11/19/19 07:02	11/19/19 23:47	4
Titanium	174		4.1	0.62	mg/Kg	☼	11/19/19 07:02	11/19/19 23:47	4
Thallium	4.1	U	4.1	0.66	mg/Kg	☼	11/19/19 07:02	11/19/19 23:47	4
Vanadium	9.4	J	10.4	0.69	mg/Kg	☼	11/19/19 07:02	11/19/19 23:47	4
Zinc	25.3		6.2	4.8	mg/Kg	☼	11/19/19 07:02	11/19/19 23:47	4

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.023		0.018	0.011	mg/Kg	☼	11/15/19 04:40	11/15/19 09:42	1

Client Sample ID: WSG-S19-0.0-0.2-0

Lab Sample ID: 460-196258-27

Date Collected: 11/08/19 11:05

Matrix: Solid

Date Received: 11/08/19 20:00

Percent Solids: 89.8

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/Kg	☼	11/15/19 10:50	11/16/19 03:46	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22	ug/Kg	☼	11/15/19 10:50	11/16/19 03:46	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/Kg	☼	11/15/19 10:50	11/16/19 03:46	1
1,1,2-Trichloroethane	1.0	U	1.0	0.19	ug/Kg	☼	11/15/19 10:50	11/16/19 03:46	1
1,1-Dichloroethane	1.0	U	1.0	0.21	ug/Kg	☼	11/15/19 10:50	11/16/19 03:46	1
1,1-Dichloroethene	1.0	U	1.0	0.23	ug/Kg	☼	11/15/19 10:50	11/16/19 03:46	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.37	ug/Kg	☼	11/15/19 10:50	11/16/19 03:46	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.48	ug/Kg	☼	11/15/19 10:50	11/16/19 03:46	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/Kg	☼	11/15/19 10:50	11/16/19 03:46	1
1,2-Dichloroethane	1.0	U	1.0	0.31	ug/Kg	☼	11/15/19 10:50	11/16/19 03:46	1
1,2-Dichloropropane	1.0	U	1.0	0.44	ug/Kg	☼	11/15/19 10:50	11/16/19 03:46	1
1,3-Dichlorobenzene	1.0	U	1.0	0.17	ug/Kg	☼	11/15/19 10:50	11/16/19 03:46	1
1,4-Dichlorobenzene	1.0	U	1.0	0.23	ug/Kg	☼	11/15/19 10:50	11/16/19 03:46	1
2-Butanone (MEK)	5.2	U	5.2	2.8	ug/Kg	☼	11/15/19 10:50	11/16/19 03:46	1
2-Hexanone	5.2	U	5.2	1.8	ug/Kg	☼	11/15/19 10:50	11/16/19 03:46	1
4-Methyl-2-pentanone (MIBK)	5.2	U	5.2	1.6	ug/Kg	☼	11/15/19 10:50	11/16/19 03:46	1
Acetone	6.2	U	6.2	6.0	ug/Kg	☼	11/15/19 10:50	11/16/19 03:46	1
Benzene	1.0	U	1.0	0.27	ug/Kg	☼	11/15/19 10:50	11/16/19 03:46	1
Bromoform	1.0	U	1.0	0.44	ug/Kg	☼	11/15/19 10:50	11/16/19 03:46	1
Bromomethane	1.0	U	1.0	0.49	ug/Kg	☼	11/15/19 10:50	11/16/19 03:46	1
Carbon disulfide	1.0	U	1.0	0.28	ug/Kg	☼	11/15/19 10:50	11/16/19 03:46	1
Carbon tetrachloride	1.0	U	1.0	0.40	ug/Kg	☼	11/15/19 10:50	11/16/19 03:46	1
Chlorobenzene	1.0	U	1.0	0.18	ug/Kg	☼	11/15/19 10:50	11/16/19 03:46	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196258-1

Client Sample ID: WSG-S19-0.0-0.2-0

Lab Sample ID: 460-196258-27

Date Collected: 11/08/19 11:05

Matrix: Solid

Date Received: 11/08/19 20:00

Percent Solids: 89.8

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorodibromomethane	1.0	U	1.0	0.20	ug/Kg	☒	11/15/19 10:50	11/16/19 03:46	1
Chloroethane	1.0	U	1.0	0.54	ug/Kg	☒	11/15/19 10:50	11/16/19 03:46	1
Chloroform	1.0	U	1.0	0.33	ug/Kg	☒	11/15/19 10:50	11/16/19 03:46	1
Chloromethane	1.0	U	1.0	0.45	ug/Kg	☒	11/15/19 10:50	11/16/19 03:46	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/Kg	☒	11/15/19 10:50	11/16/19 03:46	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.28	ug/Kg	☒	11/15/19 10:50	11/16/19 03:46	1
Cyclohexane	1.0	U	1.0	0.23	ug/Kg	☒	11/15/19 10:50	11/16/19 03:46	1
Dichlorobromomethane	1.0	U	1.0	0.27	ug/Kg	☒	11/15/19 10:50	11/16/19 03:46	1
Dichlorodifluoromethane	1.0	U	1.0	0.35	ug/Kg	☒	11/15/19 10:50	11/16/19 03:46	1
Ethylbenzene	1.0	U	1.0	0.21	ug/Kg	☒	11/15/19 10:50	11/16/19 03:46	1
Ethylene Dibromide	1.0	U	1.0	0.19	ug/Kg	☒	11/15/19 10:50	11/16/19 03:46	1
Isopropylbenzene	1.0	U	1.0	0.13	ug/Kg	☒	11/15/19 10:50	11/16/19 03:46	1
Methyl acetate	5.2	U	5.2	4.5	ug/Kg	☒	11/15/19 10:50	11/16/19 03:46	1
Methyl tert-butyl ether	1.0	U	1.0	0.13	ug/Kg	☒	11/15/19 10:50	11/16/19 03:46	1
Methylcyclohexane	1.0	U	1.0	0.52	ug/Kg	☒	11/15/19 10:50	11/16/19 03:46	1
Methylene Chloride	3.1		1.0	0.48	ug/Kg	☒	11/15/19 10:50	11/16/19 03:46	1
Styrene	1.0	U	1.0	0.29	ug/Kg	☒	11/15/19 10:50	11/16/19 03:46	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/Kg	☒	11/15/19 10:50	11/16/19 03:46	1
Toluene	1.0	U	1.0	0.24	ug/Kg	☒	11/15/19 10:50	11/16/19 03:46	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.26	ug/Kg	☒	11/15/19 10:50	11/16/19 03:46	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.28	ug/Kg	☒	11/15/19 10:50	11/16/19 03:46	1
Trichloroethene	1.0	U	1.0	0.15	ug/Kg	☒	11/15/19 10:50	11/16/19 03:46	1
Trichlorofluoromethane	1.0	U	1.0	0.42	ug/Kg	☒	11/15/19 10:50	11/16/19 03:46	1
Vinyl chloride	1.0	U	1.0	0.57	ug/Kg	☒	11/15/19 10:50	11/16/19 03:46	1
Xylenes, Total	2.1	U	2.1	0.18	ug/Kg	☒	11/15/19 10:50	11/16/19 03:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		78 - 135	11/15/19 10:50	11/16/19 03:46	1
4-Bromofluorobenzene	105		67 - 126	11/15/19 10:50	11/16/19 03:46	1
Dibromofluoromethane (Surr)	110		61 - 149	11/15/19 10:50	11/16/19 03:46	1
Toluene-d8 (Surr)	105		73 - 121	11/15/19 10:50	11/16/19 03:46	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	370	U	370	4.9	ug/Kg	☒	11/12/19 12:47	11/13/19 00:23	1
2,2'-oxybis[1-chloropropane]	370	U	370	6.7	ug/Kg	☒	11/12/19 12:47	11/13/19 00:23	1
2,4,5-Trichlorophenol	370	U	370	38	ug/Kg	☒	11/12/19 12:47	11/13/19 00:23	1
2,4,6-Trichlorophenol	150	U	150	47	ug/Kg	☒	11/12/19 12:47	11/13/19 00:23	1
2,4-Dichlorophenol	150	U	150	24	ug/Kg	☒	11/12/19 12:47	11/13/19 00:23	1
2,4-Dimethylphenol	370	U	370	16	ug/Kg	☒	11/12/19 12:47	11/13/19 00:23	1
2,4-Dinitrophenol	300	U	300	180	ug/Kg	☒	11/12/19 12:47	11/13/19 00:23	1
2,4-Dinitrotoluene	75	U	75	40	ug/Kg	☒	11/12/19 12:47	11/13/19 00:23	1
2,6-Dinitrotoluene	75	U	75	27	ug/Kg	☒	11/12/19 12:47	11/13/19 00:23	1
2-Chloronaphthalene	370	U	370	17	ug/Kg	☒	11/12/19 12:47	11/13/19 00:23	1
2-Chlorophenol	370	U	370	13	ug/Kg	☒	11/12/19 12:47	11/13/19 00:23	1
2-Methylnaphthalene	370	U	370	10	ug/Kg	☒	11/12/19 12:47	11/13/19 00:23	1
2-Methylphenol	370	U	370	14	ug/Kg	☒	11/12/19 12:47	11/13/19 00:23	1
2-Nitroaniline	370	U	370	14	ug/Kg	☒	11/12/19 12:47	11/13/19 00:23	1
2-Nitrophenol	370	U	370	37	ug/Kg	☒	11/12/19 12:47	11/13/19 00:23	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196258-1

Client Sample ID: WSG-S19-0.0-0.2-0

Lab Sample ID: 460-196258-27

Date Collected: 11/08/19 11:05

Matrix: Solid

Date Received: 11/08/19 20:00

Percent Solids: 89.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	150	U	150	56	ug/Kg	☒	11/12/19 12:47	11/13/19 00:23	1
3-Nitroaniline	370	U	370	41	ug/Kg	☒	11/12/19 12:47	11/13/19 00:23	1
4,6-Dinitro-2-methylphenol	300	U	300	60	ug/Kg	☒	11/12/19 12:47	11/13/19 00:23	1
4-Bromophenyl phenyl ether	370	U	370	15	ug/Kg	☒	11/12/19 12:47	11/13/19 00:23	1
4-Chloro-3-methylphenol	370	U	370	21	ug/Kg	☒	11/12/19 12:47	11/13/19 00:23	1
4-Chloroaniline	370	U	370	26	ug/Kg	☒	11/12/19 12:47	11/13/19 00:23	1
4-Chlorophenyl phenyl ether	370	U	370	13	ug/Kg	☒	11/12/19 12:47	11/13/19 00:23	1
4-Methylphenol	370	U	370	23	ug/Kg	☒	11/12/19 12:47	11/13/19 00:23	1
4-Nitroaniline	370	U	370	42	ug/Kg	☒	11/12/19 12:47	11/13/19 00:23	1
4-Nitrophenol	750	U	750	60	ug/Kg	☒	11/12/19 12:47	11/13/19 00:23	1
Acenaphthene	370	U	370	27	ug/Kg	☒	11/12/19 12:47	11/13/19 00:23	1
Acenaphthylene	370	U	370	3.8	ug/Kg	☒	11/12/19 12:47	11/13/19 00:23	1
Acetophenone	370	U	370	18	ug/Kg	☒	11/12/19 12:47	11/13/19 00:23	1
Anthracene	370	U	370	11	ug/Kg	☒	11/12/19 12:47	11/13/19 00:23	1
Atrazine	150	U	150	9.3	ug/Kg	☒	11/12/19 12:47	11/13/19 00:23	1
Benzaldehyde	370	U	370	16	ug/Kg	☒	11/12/19 12:47	11/13/19 00:23	1
Benzo[a]anthracene	38		37	13	ug/Kg	☒	11/12/19 12:47	11/13/19 00:23	1
Benzo[a]pyrene	34 J		37	9.8	ug/Kg	☒	11/12/19 12:47	11/13/19 00:23	1
Benzo[b]fluoranthene	74		37	9.5	ug/Kg	☒	11/12/19 12:47	11/13/19 00:23	1
Benzo[g,h,i]perylene	55 J		370	11	ug/Kg	☒	11/12/19 12:47	11/13/19 00:23	1
Benzo[k]fluoranthene	29 J		37	7.2	ug/Kg	☒	11/12/19 12:47	11/13/19 00:23	1
Bis(2-chloroethoxy)methane	370	U	370	29	ug/Kg	☒	11/12/19 12:47	11/13/19 00:23	1
Bis(2-chloroethyl)ether	37	U	37	13	ug/Kg	☒	11/12/19 12:47	11/13/19 00:23	1
Bis(2-ethylhexyl) phthalate	1700		370	19	ug/Kg	☒	11/12/19 12:47	11/13/19 00:23	1
Butyl benzyl phthalate	370	U	370	17	ug/Kg	☒	11/12/19 12:47	11/13/19 00:23	1
Caprolactam	370	U	370	57	ug/Kg	☒	11/12/19 12:47	11/13/19 00:23	1
Carbazole	370	U	370	14	ug/Kg	☒	11/12/19 12:47	11/13/19 00:23	1
Chrysene	55 J		370	6.2	ug/Kg	☒	11/12/19 12:47	11/13/19 00:23	1
Dibenz(a,h)anthracene	37	U	37	16	ug/Kg	☒	11/12/19 12:47	11/13/19 00:23	1
Dibenzofuran	370	U	370	5.2	ug/Kg	☒	11/12/19 12:47	11/13/19 00:23	1
Diethyl phthalate	370	U	370	5.3	ug/Kg	☒	11/12/19 12:47	11/13/19 00:23	1
Dimethyl phthalate	370	U	370	84	ug/Kg	☒	11/12/19 12:47	11/13/19 00:23	1
Di-n-butyl phthalate	370	U	370	65	ug/Kg	☒	11/12/19 12:47	11/13/19 00:23	1
Di-n-octyl phthalate	370	U	370	20	ug/Kg	☒	11/12/19 12:47	11/13/19 00:23	1
Fluoranthene	38 J		370	13	ug/Kg	☒	11/12/19 12:47	11/13/19 00:23	1
Fluorene	370	U	370	5.0	ug/Kg	☒	11/12/19 12:47	11/13/19 00:23	1
Hexachlorobenzene	37	U	37	17	ug/Kg	☒	11/12/19 12:47	11/13/19 00:23	1
Hexachlorobutadiene	75	U	75	7.8	ug/Kg	☒	11/12/19 12:47	11/13/19 00:23	1
Hexachlorocyclopentadiene	370	U	370	32	ug/Kg	☒	11/12/19 12:47	11/13/19 00:23	1
Hexachloroethane	37	U	37	13	ug/Kg	☒	11/12/19 12:47	11/13/19 00:23	1
Indeno[1,2,3-cd]pyrene	58		37	14	ug/Kg	☒	11/12/19 12:47	11/13/19 00:23	1
Isophorone	150	U	150	110	ug/Kg	☒	11/12/19 12:47	11/13/19 00:23	1
Naphthalene	370	U	370	6.4	ug/Kg	☒	11/12/19 12:47	11/13/19 00:23	1
Nitrobenzene	37	U	37	8.8	ug/Kg	☒	11/12/19 12:47	11/13/19 00:23	1
N-Nitrosodi-n-propylamine	37	U	37	27	ug/Kg	☒	11/12/19 12:47	11/13/19 00:23	1
N-Nitrosodiphenylamine	370	U	370	7.0	ug/Kg	☒	11/12/19 12:47	11/13/19 00:23	1
Pentachlorophenol	300	U	300	75	ug/Kg	☒	11/12/19 12:47	11/13/19 00:23	1
Phenanthrene	20 J		370	6.5	ug/Kg	☒	11/12/19 12:47	11/13/19 00:23	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196258-1

Client Sample ID: WSG-S19-0.0-0.2-0

Lab Sample ID: 460-196258-27

Date Collected: 11/08/19 11:05

Matrix: Solid

Date Received: 11/08/19 20:00

Percent Solids: 89.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	370	U	370	14	ug/Kg	☼	11/12/19 12:47	11/13/19 00:23	1
Pyrene	78	J	370	9.2	ug/Kg	☼	11/12/19 12:47	11/13/19 00:23	1
1,4-Dioxane	110	U	110	10	ug/Kg	☼	11/12/19 12:47	11/13/19 00:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	56		10 - 137	11/12/19 12:47	11/13/19 00:23	1
2-Fluorobiphenyl	57		29 - 107	11/12/19 12:47	11/13/19 00:23	1
2-Fluorophenol (Surr)	64		20 - 115	11/12/19 12:47	11/13/19 00:23	1
Nitrobenzene-d5 (Surr)	60		25 - 113	11/12/19 12:47	11/13/19 00:23	1
Phenol-d5 (Surr)	60		28 - 109	11/12/19 12:47	11/13/19 00:23	1
Terphenyl-d14 (Surr)	67		27 - 123	11/12/19 12:47	11/13/19 00:23	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	7.5	U	7.5	1.3	ug/Kg	☼	11/12/19 09:56	11/14/19 12:04	1
4,4'-DDE	7.5	U	7.5	0.88	ug/Kg	☼	11/12/19 09:56	11/14/19 12:04	1
4,4'-DDT	7.5	U	7.5	1.4	ug/Kg	☼	11/12/19 09:56	11/14/19 12:04	1
Aldrin	7.5	U	7.5	1.1	ug/Kg	☼	11/12/19 09:56	11/14/19 12:04	1
alpha-BHC	2.2	U	2.2	0.76	ug/Kg	☼	11/12/19 09:56	11/14/19 12:04	1
beta-BHC	2.2	U	2.2	0.84	ug/Kg	☼	11/12/19 09:56	11/14/19 12:04	1
Chlordane (technical)	75	U	75	18	ug/Kg	☼	11/12/19 09:56	11/14/19 12:04	1
delta-BHC	2.2	U	2.2	0.46	ug/Kg	☼	11/12/19 09:56	11/14/19 12:04	1
Dieldrin	2.2	U	2.2	0.97	ug/Kg	☼	11/12/19 09:56	11/14/19 12:04	1
Endosulfan I	7.5	U	7.5	1.1	ug/Kg	☼	11/12/19 09:56	11/14/19 12:04	1
Endosulfan II	7.5	U	7.5	1.9	ug/Kg	☼	11/12/19 09:56	11/14/19 12:04	1
Endosulfan sulfate	7.5	U	7.5	0.94	ug/Kg	☼	11/12/19 09:56	11/14/19 12:04	1
Endrin	7.5	U	7.5	1.1	ug/Kg	☼	11/12/19 09:56	11/14/19 12:04	1
Endrin aldehyde	7.5	U	7.5	1.8	ug/Kg	☼	11/12/19 09:56	11/14/19 12:04	1
Endrin ketone	7.5	U	7.5	1.4	ug/Kg	☼	11/12/19 09:56	11/14/19 12:04	1
gamma-BHC (Lindane)	2.2	U	2.2	0.69	ug/Kg	☼	11/12/19 09:56	11/14/19 12:04	1
Heptachlor	7.5	U	7.5	0.88	ug/Kg	☼	11/12/19 09:56	11/14/19 12:04	1
Heptachlor epoxide	7.5	U	7.5	1.1	ug/Kg	☼	11/12/19 09:56	11/14/19 12:04	1
Methoxychlor	7.5	U	7.5	1.7	ug/Kg	☼	11/12/19 09:56	11/14/19 12:04	1
Toxaphene	75	U	75	27	ug/Kg	☼	11/12/19 09:56	11/14/19 12:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	73		49 - 150	11/12/19 09:56	11/14/19 12:04	1
DCB Decachlorobiphenyl	98		49 - 150	11/12/19 09:56	11/14/19 12:04	1
Tetrachloro-m-xylene	82		47 - 150	11/12/19 09:56	11/14/19 12:04	1
Tetrachloro-m-xylene	82		47 - 150	11/12/19 09:56	11/14/19 12:04	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	75	U	75	9.9	ug/Kg	☼	11/12/19 09:48	11/13/19 16:30	1
Aroclor 1221	75	U	75	9.9	ug/Kg	☼	11/12/19 09:48	11/13/19 16:30	1
Aroclor 1232	75	U	75	9.9	ug/Kg	☼	11/12/19 09:48	11/13/19 16:30	1
Aroclor 1242	75	U	75	9.9	ug/Kg	☼	11/12/19 09:48	11/13/19 16:30	1
Aroclor 1248	75	U	75	9.9	ug/Kg	☼	11/12/19 09:48	11/13/19 16:30	1
Aroclor 1254	75	U	75	10	ug/Kg	☼	11/12/19 09:48	11/13/19 16:30	1

Eurofins TestAmerica, Edison

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196258-1

Client Sample ID: WSG-S19-0.0-0.2-0

Lab Sample ID: 460-196258-27

Date Collected: 11/08/19 11:05

Matrix: Solid

Date Received: 11/08/19 20:00

Percent Solids: 89.8

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1260	75	U	75	10	ug/Kg	☼	11/12/19 09:48	11/13/19 16:30	1
Aroclor-1262	75	U	75	10	ug/Kg	☼	11/12/19 09:48	11/13/19 16:30	1
Aroclor 1268	75	U	75	10	ug/Kg	☼	11/12/19 09:48	11/13/19 16:30	1
Polychlorinated biphenyls, Total	75	U	75	10	ug/Kg	☼	11/12/19 09:48	11/13/19 16:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	112		53 - 150	11/12/19 09:48	11/13/19 16:30	1
DCB Decachlorobiphenyl	95		53 - 150	11/12/19 09:48	11/13/19 16:30	1

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	37	U	37	13	ug/Kg	☼	11/13/19 00:19	11/13/19 18:56	1
Silvex (2,4,5-TP)	37	U *	37	3.9	ug/Kg	☼	11/13/19 00:19	11/13/19 18:56	1
2,4,5-T	37	U *	37	7.9	ug/Kg	☼	11/13/19 00:19	11/13/19 18:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	149		30 - 150	11/13/19 00:19	11/13/19 18:56	1
2,4-Dichlorophenylacetic acid	142		30 - 150	11/13/19 00:19	11/13/19 18:56	1

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	0.22	U	0.22	0.045	ug/Kg	☼	11/20/19 06:46	12/14/19 19:20	1
Perfluoroheptanoic acid (PFHpA)	0.22	U	0.22	0.031	ug/Kg	☼	11/20/19 06:46	12/14/19 19:20	1
Perfluorooctanoic acid (PFOA)	0.22	U	0.22	0.093	ug/Kg	☼	11/20/19 06:46	12/14/19 19:20	1
Perfluorononanoic acid (PFNA)	0.22	U	0.22	0.039	ug/Kg	☼	11/20/19 06:46	12/14/19 19:20	1
Perfluorodecanoic acid (PFDA)	0.024	J	0.22	0.024	ug/Kg	☼	11/20/19 06:46	12/14/19 19:20	1
Perfluoroundecanoic acid (PFUnA)	0.042	J Z	0.22	0.039	ug/Kg	☼	11/20/19 06:46	12/14/19 19:20	1
Perfluorododecanoic acid (PFDoA)	0.22	U	0.22	0.072	ug/Kg	☼	11/20/19 06:46	12/14/19 19:20	1
Perfluorotridecanoic acid (PFTriA)	0.22	U	0.22	0.055	ug/Kg	☼	11/20/19 06:46	12/14/19 19:20	1
Perfluorotetradecanoic acid (PFTeA)	0.22	U	0.22	0.058	ug/Kg	☼	11/20/19 06:46	12/14/19 19:20	1
Perfluorobutanesulfonic acid (PFBS)	0.22	U	0.22	0.027	ug/Kg	☼	11/20/19 06:46	12/14/19 19:20	1
Perfluorohexanesulfonic acid (PFHxS)	0.22	U	0.22	0.033	ug/Kg	☼	11/20/19 06:46	12/14/19 19:20	1
Perfluorooctanesulfonic acid (PFOS)	1.07	B	0.54	0.22	ug/Kg	☼	11/20/19 06:46	12/14/19 19:20	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.15	U	2.15	0.40	ug/Kg	☼	11/20/19 06:46	12/14/19 19:20	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.15	U	2.15	0.42	ug/Kg	☼	11/20/19 06:46	12/14/19 19:20	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFHxA	99		25 - 150	11/20/19 06:46	12/14/19 19:20	1
13C4 PFHpA	100		25 - 150	11/20/19 06:46	12/14/19 19:20	1
13C4 PFOA	101		25 - 150	11/20/19 06:46	12/14/19 19:20	1
13C5 PFNA	104		25 - 150	11/20/19 06:46	12/14/19 19:20	1
13C2 PFDA	106		25 - 150	11/20/19 06:46	12/14/19 19:20	1
13C2 PFUnA	107		25 - 150	11/20/19 06:46	12/14/19 19:20	1
13C2 PFDoA	102		25 - 150	11/20/19 06:46	12/14/19 19:20	1
13C2 PFTeA	85		25 - 150	11/20/19 06:46	12/14/19 19:20	1
18O2 PFHxS	95		25 - 150	11/20/19 06:46	12/14/19 19:20	1
13C4 PFOS	105		25 - 150	11/20/19 06:46	12/14/19 19:20	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196258-1

Client Sample ID: WSG-S19-0.0-0.2-0

Lab Sample ID: 460-196258-27

Date Collected: 11/08/19 11:05

Matrix: Solid

Date Received: 11/08/19 20:00

Percent Solids: 89.8

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d3-NMeFOSAA	40		25 - 150	11/20/19 06:46	12/14/19 19:20	1
d5-NEtFOSAA	42		25 - 150	11/20/19 06:46	12/14/19 19:20	1

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	14800		30.6	15.0	mg/Kg	☼	11/19/19 07:02	11/19/19 23:59	4
Silver	2.0	U	2.0	0.19	mg/Kg	☼	11/19/19 07:02	11/19/19 23:59	4
Aluminum	3290		40.9	11.5	mg/Kg	☼	11/19/19 07:02	11/19/19 23:59	4
Arsenic	2.8	J	3.1	1.2	mg/Kg	☼	11/19/19 07:02	11/19/19 23:59	4
Boron	6.8	J	10.2	2.8	mg/Kg	☼	11/19/19 07:02	11/19/19 23:59	4
Barium	31.6	J	40.9	2.3	mg/Kg	☼	11/19/19 07:02	11/19/19 23:59	4
Beryllium	0.22	J	0.41	0.091	mg/Kg	☼	11/19/19 07:02	11/19/19 23:59	4
Calcium	25100		1020	60.2	mg/Kg	☼	11/19/19 07:02	11/19/19 23:59	4
Cadmium	0.82	U	0.82	0.14	mg/Kg	☼	11/19/19 07:02	11/19/19 23:59	4
Cobalt	2.0	J	10.2	1.3	mg/Kg	☼	11/19/19 07:02	11/19/19 23:59	4
Chromium	16.9		2.0	0.36	mg/Kg	☼	11/19/19 07:02	11/19/19 23:59	4
Copper	19.6		5.1	2.7	mg/Kg	☼	11/19/19 07:02	11/19/19 23:59	4
Potassium	455	J	1020	63.5	mg/Kg	☼	11/19/19 07:02	11/19/19 23:59	4
Magnesium	2470		1020	59.6	mg/Kg	☼	11/19/19 07:02	11/19/19 23:59	4
Manganese	176		3.1	0.36	mg/Kg	☼	11/19/19 07:02	11/19/19 23:59	4
Molybdenum	1.1	J	4.1	0.97	mg/Kg	☼	11/19/19 07:02	11/19/19 23:59	4
Sodium	116	J	1020	82.1	mg/Kg	☼	11/19/19 07:02	11/19/19 23:59	4
Nickel	8.2		8.2	0.75	mg/Kg	☼	11/19/19 07:02	11/19/19 23:59	4
Lead	14.9		2.0	0.53	mg/Kg	☼	11/19/19 07:02	11/19/19 23:59	4
Antimony	4.1	U	4.1	1.1	mg/Kg	☼	11/19/19 07:02	11/19/19 23:59	4
Selenium	4.1	U	4.1	2.4	mg/Kg	☼	11/19/19 07:02	11/19/19 23:59	4
Tin	10.2	U	10.2	6.6	mg/Kg	☼	11/19/19 07:02	11/19/19 23:59	4
Strontium	91.7		4.1	0.41	mg/Kg	☼	11/19/19 07:02	11/19/19 23:59	4
Titanium	192		4.1	0.61	mg/Kg	☼	11/19/19 07:02	11/19/19 23:59	4
Thallium	4.1	U	4.1	0.65	mg/Kg	☼	11/19/19 07:02	11/19/19 23:59	4
Vanadium	12.3		10.2	0.68	mg/Kg	☼	11/19/19 07:02	11/19/19 23:59	4
Zinc	73.1		6.1	4.8	mg/Kg	☼	11/19/19 07:02	11/19/19 23:59	4

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.039		0.019	0.011	mg/Kg	☼	11/15/19 04:40	11/15/19 09:44	1

Client Sample ID: WSG-S19-0.5-2.0-0

Lab Sample ID: 460-196258-28

Date Collected: 11/08/19 11:15

Matrix: Solid

Date Received: 11/08/19 20:00

Percent Solids: 97.1

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.96	U	0.96	0.22	ug/Kg	☼	11/15/19 10:51	11/16/19 04:11	1
1,1,2,2-Tetrachloroethane	0.96	U	0.96	0.20	ug/Kg	☼	11/15/19 10:51	11/16/19 04:11	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.96	U	0.96	0.29	ug/Kg	☼	11/15/19 10:51	11/16/19 04:11	1
1,1,2-Trichloroethane	0.96	U	0.96	0.17	ug/Kg	☼	11/15/19 10:51	11/16/19 04:11	1
1,1-Dichloroethane	0.96	U	0.96	0.20	ug/Kg	☼	11/15/19 10:51	11/16/19 04:11	1
1,1-Dichloroethene	0.96	U	0.96	0.22	ug/Kg	☼	11/15/19 10:51	11/16/19 04:11	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196258-1

Client Sample ID: WSG-S19-0.5-2.0-0

Lab Sample ID: 460-196258-28

Date Collected: 11/08/19 11:15

Matrix: Solid

Date Received: 11/08/19 20:00

Percent Solids: 97.1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	0.96	U	0.96	0.34	ug/Kg	☼	11/15/19 10:51	11/16/19 04:11	1
1,2-Dibromo-3-Chloropropane	0.96	U	0.96	0.44	ug/Kg	☼	11/15/19 10:51	11/16/19 04:11	1
1,2-Dichlorobenzene	0.96	U	0.96	0.14	ug/Kg	☼	11/15/19 10:51	11/16/19 04:11	1
1,2-Dichloroethane	0.96	U	0.96	0.28	ug/Kg	☼	11/15/19 10:51	11/16/19 04:11	1
1,2-Dichloropropane	0.96	U	0.96	0.40	ug/Kg	☼	11/15/19 10:51	11/16/19 04:11	1
1,3-Dichlorobenzene	0.96	U	0.96	0.15	ug/Kg	☼	11/15/19 10:51	11/16/19 04:11	1
1,4-Dichlorobenzene	0.96	U	0.96	0.22	ug/Kg	☼	11/15/19 10:51	11/16/19 04:11	1
2-Butanone (MEK)	4.8	U	4.8	2.6	ug/Kg	☼	11/15/19 10:51	11/16/19 04:11	1
2-Hexanone	4.8	U	4.8	1.6	ug/Kg	☼	11/15/19 10:51	11/16/19 04:11	1
4-Methyl-2-pentanone (MIBK)	4.8	U	4.8	1.5	ug/Kg	☼	11/15/19 10:51	11/16/19 04:11	1
Acetone	5.7	U	5.7	5.5	ug/Kg	☼	11/15/19 10:51	11/16/19 04:11	1
Benzene	0.96	U	0.96	0.25	ug/Kg	☼	11/15/19 10:51	11/16/19 04:11	1
Bromoform	0.96	U	0.96	0.41	ug/Kg	☼	11/15/19 10:51	11/16/19 04:11	1
Bromomethane	0.96	U	0.96	0.45	ug/Kg	☼	11/15/19 10:51	11/16/19 04:11	1
Carbon disulfide	0.96	U	0.96	0.25	ug/Kg	☼	11/15/19 10:51	11/16/19 04:11	1
Carbon tetrachloride	0.96	U	0.96	0.37	ug/Kg	☼	11/15/19 10:51	11/16/19 04:11	1
Chlorobenzene	0.96	U	0.96	0.17	ug/Kg	☼	11/15/19 10:51	11/16/19 04:11	1
Chlorodibromomethane	0.96	U	0.96	0.19	ug/Kg	☼	11/15/19 10:51	11/16/19 04:11	1
Chloroethane	0.96	U	0.96	0.50	ug/Kg	☼	11/15/19 10:51	11/16/19 04:11	1
Chloroform	0.96	U	0.96	0.31	ug/Kg	☼	11/15/19 10:51	11/16/19 04:11	1
Chloromethane	0.96	U	0.96	0.42	ug/Kg	☼	11/15/19 10:51	11/16/19 04:11	1
cis-1,2-Dichloroethene	0.96	U	0.96	0.15	ug/Kg	☼	11/15/19 10:51	11/16/19 04:11	1
cis-1,3-Dichloropropene	0.96	U	0.96	0.26	ug/Kg	☼	11/15/19 10:51	11/16/19 04:11	1
Cyclohexane	0.96	U	0.96	0.21	ug/Kg	☼	11/15/19 10:51	11/16/19 04:11	1
Dichlorobromomethane	0.96	U	0.96	0.25	ug/Kg	☼	11/15/19 10:51	11/16/19 04:11	1
Dichlorodifluoromethane	0.96	U	0.96	0.32	ug/Kg	☼	11/15/19 10:51	11/16/19 04:11	1
Ethylbenzene	0.96	U	0.96	0.19	ug/Kg	☼	11/15/19 10:51	11/16/19 04:11	1
Ethylene Dibromide	0.96	U	0.96	0.17	ug/Kg	☼	11/15/19 10:51	11/16/19 04:11	1
Isopropylbenzene	0.96	U	0.96	0.12	ug/Kg	☼	11/15/19 10:51	11/16/19 04:11	1
Methyl acetate	4.8	U	4.8	4.1	ug/Kg	☼	11/15/19 10:51	11/16/19 04:11	1
Methyl tert-butyl ether	0.96	U	0.96	0.12	ug/Kg	☼	11/15/19 10:51	11/16/19 04:11	1
Methylcyclohexane	0.96	U	0.96	0.48	ug/Kg	☼	11/15/19 10:51	11/16/19 04:11	1
Methylene Chloride	0.96	U	0.96	0.44	ug/Kg	☼	11/15/19 10:51	11/16/19 04:11	1
Styrene	0.96	U	0.96	0.27	ug/Kg	☼	11/15/19 10:51	11/16/19 04:11	1
Tetrachloroethene	0.96	U	0.96	0.14	ug/Kg	☼	11/15/19 10:51	11/16/19 04:11	1
Toluene	0.96	U	0.96	0.22	ug/Kg	☼	11/15/19 10:51	11/16/19 04:11	1
trans-1,2-Dichloroethene	0.96	U	0.96	0.24	ug/Kg	☼	11/15/19 10:51	11/16/19 04:11	1
trans-1,3-Dichloropropene	0.96	U	0.96	0.25	ug/Kg	☼	11/15/19 10:51	11/16/19 04:11	1
Trichloroethene	0.96	U	0.96	0.14	ug/Kg	☼	11/15/19 10:51	11/16/19 04:11	1
Trichlorofluoromethane	0.96	U	0.96	0.39	ug/Kg	☼	11/15/19 10:51	11/16/19 04:11	1
Vinyl chloride	0.96	U	0.96	0.52	ug/Kg	☼	11/15/19 10:51	11/16/19 04:11	1
Xylenes, Total	1.9	U	1.9	0.17	ug/Kg	☼	11/15/19 10:51	11/16/19 04:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		78 - 135	11/15/19 10:51	11/16/19 04:11	1
4-Bromofluorobenzene	102		67 - 126	11/15/19 10:51	11/16/19 04:11	1
Dibromofluoromethane (Surr)	108		61 - 149	11/15/19 10:51	11/16/19 04:11	1
Toluene-d8 (Surr)	101		73 - 121	11/15/19 10:51	11/16/19 04:11	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196258-1

Client Sample ID: WSG-S19-0.5-2.0-0

Lab Sample ID: 460-196258-28

Date Collected: 11/08/19 11:15

Matrix: Solid

Date Received: 11/08/19 20:00

Percent Solids: 97.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	340	U	340	4.5	ug/Kg	☼	11/12/19 12:47	11/12/19 22:09	1
2,2'-oxybis[1-chloropropane]	340	U	340	6.2	ug/Kg	☼	11/12/19 12:47	11/12/19 22:09	1
2,4,5-Trichlorophenol	340	U	340	35	ug/Kg	☼	11/12/19 12:47	11/12/19 22:09	1
2,4,6-Trichlorophenol	140	U	140	44	ug/Kg	☼	11/12/19 12:47	11/12/19 22:09	1
2,4-Dichlorophenol	140	U	140	22	ug/Kg	☼	11/12/19 12:47	11/12/19 22:09	1
2,4-Dimethylphenol	340	U	340	15	ug/Kg	☼	11/12/19 12:47	11/12/19 22:09	1
2,4-Dinitrophenol	270	U	270	170	ug/Kg	☼	11/12/19 12:47	11/12/19 22:09	1
2,4-Dinitrotoluene	69	U	69	37	ug/Kg	☼	11/12/19 12:47	11/12/19 22:09	1
2,6-Dinitrotoluene	69	U	69	25	ug/Kg	☼	11/12/19 12:47	11/12/19 22:09	1
2-Chloronaphthalene	340	U	340	16	ug/Kg	☼	11/12/19 12:47	11/12/19 22:09	1
2-Chlorophenol	340	U	340	12	ug/Kg	☼	11/12/19 12:47	11/12/19 22:09	1
2-Methylnaphthalene	340	U	340	9.5	ug/Kg	☼	11/12/19 12:47	11/12/19 22:09	1
2-Methylphenol	340	U	340	13	ug/Kg	☼	11/12/19 12:47	11/12/19 22:09	1
2-Nitroaniline	340	U	340	13	ug/Kg	☼	11/12/19 12:47	11/12/19 22:09	1
2-Nitrophenol	340	U	340	34	ug/Kg	☼	11/12/19 12:47	11/12/19 22:09	1
3,3'-Dichlorobenzidine	140	U	140	51	ug/Kg	☼	11/12/19 12:47	11/12/19 22:09	1
3-Nitroaniline	340	U	340	38	ug/Kg	☼	11/12/19 12:47	11/12/19 22:09	1
4,6-Dinitro-2-methylphenol	270	U	270	55	ug/Kg	☼	11/12/19 12:47	11/12/19 22:09	1
4-Bromophenyl phenyl ether	340	U	340	14	ug/Kg	☼	11/12/19 12:47	11/12/19 22:09	1
4-Chloro-3-methylphenol	340	U	340	19	ug/Kg	☼	11/12/19 12:47	11/12/19 22:09	1
4-Chloroaniline	340	U	340	24	ug/Kg	☼	11/12/19 12:47	11/12/19 22:09	1
4-Chlorophenyl phenyl ether	340	U	340	12	ug/Kg	☼	11/12/19 12:47	11/12/19 22:09	1
4-Methylphenol	340	U	340	21	ug/Kg	☼	11/12/19 12:47	11/12/19 22:09	1
4-Nitroaniline	340	U	340	39	ug/Kg	☼	11/12/19 12:47	11/12/19 22:09	1
4-Nitrophenol	690	U	690	56	ug/Kg	☼	11/12/19 12:47	11/12/19 22:09	1
Acenaphthene	340	U	340	25	ug/Kg	☼	11/12/19 12:47	11/12/19 22:09	1
Acenaphthylene	340	U	340	3.5	ug/Kg	☼	11/12/19 12:47	11/12/19 22:09	1
Acetophenone	340	U	340	17	ug/Kg	☼	11/12/19 12:47	11/12/19 22:09	1
Anthracene	340	U	340	10	ug/Kg	☼	11/12/19 12:47	11/12/19 22:09	1
Atrazine	140	U	140	8.6	ug/Kg	☼	11/12/19 12:47	11/12/19 22:09	1
Benzaldehyde	340	U	340	15	ug/Kg	☼	11/12/19 12:47	11/12/19 22:09	1
Benzo[a]anthracene	34	U	34	12	ug/Kg	☼	11/12/19 12:47	11/12/19 22:09	1
Benzo[a]pyrene	34	U	34	9.1	ug/Kg	☼	11/12/19 12:47	11/12/19 22:09	1
Benzo[b]fluoranthene	12	J	34	8.8	ug/Kg	☼	11/12/19 12:47	11/12/19 22:09	1
Benzo[g,h,i]perylene	340	U	340	10	ug/Kg	☼	11/12/19 12:47	11/12/19 22:09	1
Benzo[k]fluoranthene	34	U	34	6.7	ug/Kg	☼	11/12/19 12:47	11/12/19 22:09	1
Bis(2-chloroethoxy)methane	340	U	340	27	ug/Kg	☼	11/12/19 12:47	11/12/19 22:09	1
Bis(2-chloroethyl)ether	34	U	34	12	ug/Kg	☼	11/12/19 12:47	11/12/19 22:09	1
Bis(2-ethylhexyl) phthalate	340	U	340	18	ug/Kg	☼	11/12/19 12:47	11/12/19 22:09	1
Butyl benzyl phthalate	340	U	340	16	ug/Kg	☼	11/12/19 12:47	11/12/19 22:09	1
Caprolactam	340	U	340	53	ug/Kg	☼	11/12/19 12:47	11/12/19 22:09	1
Carbazole	340	U	340	13	ug/Kg	☼	11/12/19 12:47	11/12/19 22:09	1
Chrysene	340	U	340	5.8	ug/Kg	☼	11/12/19 12:47	11/12/19 22:09	1
Dibenz(a,h)anthracene	34	U	34	15	ug/Kg	☼	11/12/19 12:47	11/12/19 22:09	1
Dibenzofuran	340	U	340	4.8	ug/Kg	☼	11/12/19 12:47	11/12/19 22:09	1
Diethyl phthalate	340	U	340	4.9	ug/Kg	☼	11/12/19 12:47	11/12/19 22:09	1
Dimethyl phthalate	340	U	340	77	ug/Kg	☼	11/12/19 12:47	11/12/19 22:09	1
Di-n-butyl phthalate	340	U	340	60	ug/Kg	☼	11/12/19 12:47	11/12/19 22:09	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196258-1

Client Sample ID: WSG-S19-0.5-2.0-0

Lab Sample ID: 460-196258-28

Date Collected: 11/08/19 11:15

Matrix: Solid

Date Received: 11/08/19 20:00

Percent Solids: 97.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate	340	U	340	18	ug/Kg	☒	11/12/19 12:47	11/12/19 22:09	1
Fluoranthene	20	J	340	12	ug/Kg	☒	11/12/19 12:47	11/12/19 22:09	1
Fluorene	340	U	340	4.6	ug/Kg	☒	11/12/19 12:47	11/12/19 22:09	1
Hexachlorobenzene	34	U	34	16	ug/Kg	☒	11/12/19 12:47	11/12/19 22:09	1
Hexachlorobutadiene	69	U	69	7.3	ug/Kg	☒	11/12/19 12:47	11/12/19 22:09	1
Hexachlorocyclopentadiene	340	U	340	30	ug/Kg	☒	11/12/19 12:47	11/12/19 22:09	1
Hexachloroethane	34	U	34	12	ug/Kg	☒	11/12/19 12:47	11/12/19 22:09	1
Indeno[1,2,3-cd]pyrene	34	U	34	13	ug/Kg	☒	11/12/19 12:47	11/12/19 22:09	1
Isophorone	140	U	140	98	ug/Kg	☒	11/12/19 12:47	11/12/19 22:09	1
Naphthalene	340	U	340	5.9	ug/Kg	☒	11/12/19 12:47	11/12/19 22:09	1
Nitrobenzene	34	U	34	8.2	ug/Kg	☒	11/12/19 12:47	11/12/19 22:09	1
N-Nitrosodi-n-propylamine	34	U	34	25	ug/Kg	☒	11/12/19 12:47	11/12/19 22:09	1
N-Nitrosodiphenylamine	340	U	340	6.5	ug/Kg	☒	11/12/19 12:47	11/12/19 22:09	1
Pentachlorophenol	270	U	270	70	ug/Kg	☒	11/12/19 12:47	11/12/19 22:09	1
Phenanthrene	340	U	340	6.0	ug/Kg	☒	11/12/19 12:47	11/12/19 22:09	1
Phenol	340	U	340	13	ug/Kg	☒	11/12/19 12:47	11/12/19 22:09	1
Pyrene	18	J	340	8.5	ug/Kg	☒	11/12/19 12:47	11/12/19 22:09	1
1,4-Dioxane	100	U	100	9.4	ug/Kg	☒	11/12/19 12:47	11/12/19 22:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	74		10 - 137	11/12/19 12:47	11/12/19 22:09	1
2-Fluorobiphenyl	71		29 - 107	11/12/19 12:47	11/12/19 22:09	1
2-Fluorophenol (Surr)	71		20 - 115	11/12/19 12:47	11/12/19 22:09	1
Nitrobenzene-d5 (Surr)	72		25 - 113	11/12/19 12:47	11/12/19 22:09	1
Phenol-d5 (Surr)	71		28 - 109	11/12/19 12:47	11/12/19 22:09	1
Terphenyl-d14 (Surr)	97		27 - 123	11/12/19 12:47	11/12/19 22:09	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	6.9	U	6.9	1.2	ug/Kg	☒	11/12/19 09:56	11/14/19 12:16	1
4,4'-DDE	6.9	U	6.9	0.81	ug/Kg	☒	11/12/19 09:56	11/14/19 12:16	1
4,4'-DDT	6.9	U	6.9	1.3	ug/Kg	☒	11/12/19 09:56	11/14/19 12:16	1
Aldrin	6.9	U	6.9	1.0	ug/Kg	☒	11/12/19 09:56	11/14/19 12:16	1
alpha-BHC	2.1	U	2.1	0.70	ug/Kg	☒	11/12/19 09:56	11/14/19 12:16	1
beta-BHC	2.1	U	2.1	0.77	ug/Kg	☒	11/12/19 09:56	11/14/19 12:16	1
Chlordane (technical)	69	U	69	17	ug/Kg	☒	11/12/19 09:56	11/14/19 12:16	1
delta-BHC	2.1	U	2.1	0.42	ug/Kg	☒	11/12/19 09:56	11/14/19 12:16	1
Dieldrin	2.1	U	2.1	0.90	ug/Kg	☒	11/12/19 09:56	11/14/19 12:16	1
Endosulfan I	6.9	U	6.9	1.1	ug/Kg	☒	11/12/19 09:56	11/14/19 12:16	1
Endosulfan II	6.9	U	6.9	1.8	ug/Kg	☒	11/12/19 09:56	11/14/19 12:16	1
Endosulfan sulfate	6.9	U	6.9	0.87	ug/Kg	☒	11/12/19 09:56	11/14/19 12:16	1
Endrin	6.9	U	6.9	0.99	ug/Kg	☒	11/12/19 09:56	11/14/19 12:16	1
Endrin aldehyde	6.9	U	6.9	1.6	ug/Kg	☒	11/12/19 09:56	11/14/19 12:16	1
Endrin ketone	6.9	U	6.9	1.3	ug/Kg	☒	11/12/19 09:56	11/14/19 12:16	1
gamma-BHC (Lindane)	2.1	U	2.1	0.64	ug/Kg	☒	11/12/19 09:56	11/14/19 12:16	1
Heptachlor	6.9	U	6.9	0.81	ug/Kg	☒	11/12/19 09:56	11/14/19 12:16	1
Heptachlor epoxide	6.9	U	6.9	1.0	ug/Kg	☒	11/12/19 09:56	11/14/19 12:16	1
Methoxychlor	6.9	U	6.9	1.6	ug/Kg	☒	11/12/19 09:56	11/14/19 12:16	1
Toxaphene	69	U	69	25	ug/Kg	☒	11/12/19 09:56	11/14/19 12:16	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196258-1

Client Sample ID: WSG-S19-0.5-2.0-0

Lab Sample ID: 460-196258-28

Date Collected: 11/08/19 11:15

Matrix: Solid

Date Received: 11/08/19 20:00

Percent Solids: 97.1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	99		49 - 150	11/12/19 09:56	11/14/19 12:16	1
DCB Decachlorobiphenyl	95		49 - 150	11/12/19 09:56	11/14/19 12:16	1
Tetrachloro-m-xylene	86		47 - 150	11/12/19 09:56	11/14/19 12:16	1
Tetrachloro-m-xylene	77		47 - 150	11/12/19 09:56	11/14/19 12:16	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	69	U	69	9.2	ug/Kg	☼	11/12/19 09:48	11/13/19 16:50	1
Aroclor 1221	69	U	69	9.2	ug/Kg	☼	11/12/19 09:48	11/13/19 16:50	1
Aroclor 1232	69	U	69	9.2	ug/Kg	☼	11/12/19 09:48	11/13/19 16:50	1
Aroclor 1242	69	U	69	9.2	ug/Kg	☼	11/12/19 09:48	11/13/19 16:50	1
Aroclor 1248	69	U	69	9.2	ug/Kg	☼	11/12/19 09:48	11/13/19 16:50	1
Aroclor 1254	69	U	69	9.5	ug/Kg	☼	11/12/19 09:48	11/13/19 16:50	1
Aroclor 1260	69	U	69	9.5	ug/Kg	☼	11/12/19 09:48	11/13/19 16:50	1
Aroclor-1262	69	U	69	9.5	ug/Kg	☼	11/12/19 09:48	11/13/19 16:50	1
Aroclor 1268	69	U	69	9.5	ug/Kg	☼	11/12/19 09:48	11/13/19 16:50	1
Polychlorinated biphenyls, Total	69	U	69	9.5	ug/Kg	☼	11/12/19 09:48	11/13/19 16:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	103		53 - 150	11/12/19 09:48	11/13/19 16:50	1
DCB Decachlorobiphenyl	99		53 - 150	11/12/19 09:48	11/13/19 16:50	1

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	34	U	34	12	ug/Kg	☼	11/13/19 00:19	11/13/19 19:10	1
Silvex (2,4,5-TP)	34	U *	34	3.6	ug/Kg	☼	11/13/19 00:19	11/13/19 19:10	1
2,4,5-T	34	U *	34	7.3	ug/Kg	☼	11/13/19 00:19	11/13/19 19:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	139		30 - 150	11/13/19 00:19	11/13/19 19:10	1
2,4-Dichlorophenylacetic acid	123		30 - 150	11/13/19 00:19	11/13/19 19:10	1

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	0.19	U	0.19	0.040	ug/Kg	☼	11/20/19 06:46	12/14/19 19:28	1
Perfluoroheptanoic acid (PFHpA)	0.19	U	0.19	0.027	ug/Kg	☼	11/20/19 06:46	12/14/19 19:28	1
Perfluorooctanoic acid (PFOA)	0.19	U	0.19	0.081	ug/Kg	☼	11/20/19 06:46	12/14/19 19:28	1
Perfluorononanoic acid (PFNA)	0.19	U	0.19	0.034	ug/Kg	☼	11/20/19 06:46	12/14/19 19:28	1
Perfluorodecanoic acid (PFDA)	0.19	U	0.19	0.021	ug/Kg	☼	11/20/19 06:46	12/14/19 19:28	1
Perfluoroundecanoic acid (PFUnA)	0.19	U	0.19	0.034	ug/Kg	☼	11/20/19 06:46	12/14/19 19:28	1
Perfluorododecanoic acid (PFDoA)	0.19	U	0.19	0.063	ug/Kg	☼	11/20/19 06:46	12/14/19 19:28	1
Perfluorotridecanoic acid (PFTriA)	0.19	U	0.19	0.048	ug/Kg	☼	11/20/19 06:46	12/14/19 19:28	1
Perfluorotetradecanoic acid (PFTeA)	0.19	U	0.19	0.051	ug/Kg	☼	11/20/19 06:46	12/14/19 19:28	1
Perfluorobutanesulfonic acid (PFBS)	0.19	U	0.19	0.024	ug/Kg	☼	11/20/19 06:46	12/14/19 19:28	1
Perfluorohexanesulfonic acid (PFHxS)	0.19	U	0.19	0.029	ug/Kg	☼	11/20/19 06:46	12/14/19 19:28	1
Perfluorooctanesulfonic acid (PFOS)	0.84	B	0.47	0.19	ug/Kg	☼	11/20/19 06:46	12/14/19 19:28	1
N-ethylperfluorooctanesulfonamidoacetic acid (NETFOSAA)	1.89	U	1.89	0.35	ug/Kg	☼	11/20/19 06:46	12/14/19 19:28	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	1.89	U	1.89	0.37	ug/Kg	☼	11/20/19 06:46	12/14/19 19:28	1

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Matrix: Solid

Date Received: 11/08/19 20:00

Percent Solids: 97.1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFHxA	93		25 - 150	11/20/19 06:46	12/14/19 19:28	1
13C4 PFHpA	98		25 - 150	11/20/19 06:46	12/14/19 19:28	1
13C4 PFOA	95		25 - 150	11/20/19 06:46	12/14/19 19:28	1
13C5 PFNA	96		25 - 150	11/20/19 06:46	12/14/19 19:28	1
13C2 PFDA	101		25 - 150	11/20/19 06:46	12/14/19 19:28	1
13C2 PFUnA	106		25 - 150	11/20/19 06:46	12/14/19 19:28	1
13C2 PFDoA	100		25 - 150	11/20/19 06:46	12/14/19 19:28	1
13C2 PFTeDA	89		25 - 150	11/20/19 06:46	12/14/19 19:28	1
18O2 PFHxS	89		25 - 150	11/20/19 06:46	12/14/19 19:28	1
13C4 PFOS	90		25 - 150	11/20/19 06:46	12/14/19 19:28	1
d3-NMeFOSAA	48		25 - 150	11/20/19 06:46	12/14/19 19:28	1
d5-NEtFOSAA	52		25 - 150	11/20/19 06:46	12/14/19 19:28	1

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	2190		28.6	14.0	mg/Kg	☼	11/19/19 07:02	11/20/19 00:03	4
Silver	1.9	U	1.9	0.18	mg/Kg	☼	11/19/19 07:02	11/20/19 00:03	4
Aluminum	1250		38.2	10.8	mg/Kg	☼	11/19/19 07:02	11/20/19 00:03	4
Arsenic	2.9	U	2.9	1.1	mg/Kg	☼	11/19/19 07:02	11/20/19 00:03	4
Boron	3.9	J	9.5	2.6	mg/Kg	☼	11/19/19 07:02	11/20/19 00:03	4
Barium	5.4	J	38.2	2.1	mg/Kg	☼	11/19/19 07:02	11/20/19 00:03	4
Beryllium	0.097	J	0.38	0.085	mg/Kg	☼	11/19/19 07:02	11/20/19 00:03	4
Calcium	2690		954	56.2	mg/Kg	☼	11/19/19 07:02	11/20/19 00:03	4
Cadmium	0.76	U	0.76	0.13	mg/Kg	☼	11/19/19 07:02	11/20/19 00:03	4
Cobalt	9.5	U	9.5	1.2	mg/Kg	☼	11/19/19 07:02	11/20/19 00:03	4
Chromium	2.1		1.9	0.34	mg/Kg	☼	11/19/19 07:02	11/20/19 00:03	4
Copper	4.8	U	4.8	2.5	mg/Kg	☼	11/19/19 07:02	11/20/19 00:03	4
Potassium	94.2	J	954	59.3	mg/Kg	☼	11/19/19 07:02	11/20/19 00:03	4
Magnesium	233	J	954	55.6	mg/Kg	☼	11/19/19 07:02	11/20/19 00:03	4
Manganese	76.7		2.9	0.33	mg/Kg	☼	11/19/19 07:02	11/20/19 00:03	4
Molybdenum	3.8	U	3.8	0.91	mg/Kg	☼	11/19/19 07:02	11/20/19 00:03	4
Sodium	954	U	954	76.7	mg/Kg	☼	11/19/19 07:02	11/20/19 00:03	4
Nickel	1.4	J	7.6	0.70	mg/Kg	☼	11/19/19 07:02	11/20/19 00:03	4
Lead	1.7	J	1.9	0.50	mg/Kg	☼	11/19/19 07:02	11/20/19 00:03	4
Antimony	3.8	U	3.8	1.0	mg/Kg	☼	11/19/19 07:02	11/20/19 00:03	4
Selenium	3.8	U	3.8	2.3	mg/Kg	☼	11/19/19 07:02	11/20/19 00:03	4
Tin	9.5	U	9.5	6.1	mg/Kg	☼	11/19/19 07:02	11/20/19 00:03	4
Strontium	7.1		3.8	0.38	mg/Kg	☼	11/19/19 07:02	11/20/19 00:03	4
Titanium	61.7		3.8	0.57	mg/Kg	☼	11/19/19 07:02	11/20/19 00:03	4
Thallium	3.8	U	3.8	0.61	mg/Kg	☼	11/19/19 07:02	11/20/19 00:03	4
Vanadium	3.4	J	9.5	0.63	mg/Kg	☼	11/19/19 07:02	11/20/19 00:03	4
Zinc	5.7	U	5.7	4.4	mg/Kg	☼	11/19/19 07:02	11/20/19 00:03	4

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.016	U	0.016	0.0095	mg/Kg	☼	11/15/19 04:40	11/15/19 09:46	1

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Client Sample ID: WSG-S20-0.0-0.2-0

Lab Sample ID: 460-196258-29

Date Collected: 11/08/19 10:25

Matrix: Solid

Date Received: 11/08/19 20:00

Percent Solids: 91.3

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/Kg	☒	11/15/19 10:53	11/16/19 11:58	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22	ug/Kg	☒	11/15/19 10:53	11/16/19 11:58	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/Kg	☒	11/15/19 10:53	11/16/19 11:58	1
1,1,2-Trichloroethane	1.0	U	1.0	0.18	ug/Kg	☒	11/15/19 10:53	11/16/19 11:58	1
1,1-Dichloroethane	1.0	U	1.0	0.21	ug/Kg	☒	11/15/19 10:53	11/16/19 11:58	1
1,1-Dichloroethene	1.0	U	1.0	0.23	ug/Kg	☒	11/15/19 10:53	11/16/19 11:58	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.37	ug/Kg	☒	11/15/19 10:53	11/16/19 11:58	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.47	ug/Kg	☒	11/15/19 10:53	11/16/19 11:58	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/Kg	☒	11/15/19 10:53	11/16/19 11:58	1
1,2-Dichloroethane	1.0	U	1.0	0.30	ug/Kg	☒	11/15/19 10:53	11/16/19 11:58	1
1,2-Dichloropropane	1.0	U	1.0	0.43	ug/Kg	☒	11/15/19 10:53	11/16/19 11:58	1
1,3-Dichlorobenzene	1.0	U	1.0	0.16	ug/Kg	☒	11/15/19 10:53	11/16/19 11:58	1
1,4-Dichlorobenzene	1.0	U	1.0	0.23	ug/Kg	☒	11/15/19 10:53	11/16/19 11:58	1
2-Butanone (MEK)	5.1	U	5.1	2.8	ug/Kg	☒	11/15/19 10:53	11/16/19 11:58	1
2-Hexanone	5.1	U	5.1	1.8	ug/Kg	☒	11/15/19 10:53	11/16/19 11:58	1
4-Methyl-2-pentanone (MIBK)	5.1	U	5.1	1.6	ug/Kg	☒	11/15/19 10:53	11/16/19 11:58	1
Acetone	6.2	U	6.2	5.9	ug/Kg	☒	11/15/19 10:53	11/16/19 11:58	1
Benzene	1.0	U	1.0	0.26	ug/Kg	☒	11/15/19 10:53	11/16/19 11:58	1
Bromoform	1.0	U	1.0	0.44	ug/Kg	☒	11/15/19 10:53	11/16/19 11:58	1
Bromomethane	1.0	U	1.0	0.49	ug/Kg	☒	11/15/19 10:53	11/16/19 11:58	1
Carbon disulfide	1.0	U	1.0	0.27	ug/Kg	☒	11/15/19 10:53	11/16/19 11:58	1
Carbon tetrachloride	1.0	U	1.0	0.40	ug/Kg	☒	11/15/19 10:53	11/16/19 11:58	1
Chlorobenzene	1.0	U	1.0	0.18	ug/Kg	☒	11/15/19 10:53	11/16/19 11:58	1
Chlorodibromomethane	1.0	U	1.0	0.20	ug/Kg	☒	11/15/19 10:53	11/16/19 11:58	1
Chloroethane	1.0	U	1.0	0.54	ug/Kg	☒	11/15/19 10:53	11/16/19 11:58	1
Chloroform	1.0	U	1.0	0.33	ug/Kg	☒	11/15/19 10:53	11/16/19 11:58	1
Chloromethane	1.0	U	1.0	0.45	ug/Kg	☒	11/15/19 10:53	11/16/19 11:58	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/Kg	☒	11/15/19 10:53	11/16/19 11:58	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.28	ug/Kg	☒	11/15/19 10:53	11/16/19 11:58	1
Cyclohexane	1.0	U	1.0	0.23	ug/Kg	☒	11/15/19 10:53	11/16/19 11:58	1
Dichlorobromomethane	1.0	U	1.0	0.26	ug/Kg	☒	11/15/19 10:53	11/16/19 11:58	1
Dichlorodifluoromethane	1.0	U	1.0	0.35	ug/Kg	☒	11/15/19 10:53	11/16/19 11:58	1
Ethylbenzene	1.0	U	1.0	0.20	ug/Kg	☒	11/15/19 10:53	11/16/19 11:58	1
Ethylene Dibromide	1.0	U	1.0	0.18	ug/Kg	☒	11/15/19 10:53	11/16/19 11:58	1
Isopropylbenzene	1.0	U	1.0	0.13	ug/Kg	☒	11/15/19 10:53	11/16/19 11:58	1
Methyl acetate	5.1	U	5.1	4.4	ug/Kg	☒	11/15/19 10:53	11/16/19 11:58	1
Methyl tert-butyl ether	1.0	U	1.0	0.13	ug/Kg	☒	11/15/19 10:53	11/16/19 11:58	1
Methylcyclohexane	1.0	U	1.0	0.51	ug/Kg	☒	11/15/19 10:53	11/16/19 11:58	1
Methylene Chloride	2.7		1.0	0.48	ug/Kg	☒	11/15/19 10:53	11/16/19 11:58	1
Styrene	1.0	U	1.0	0.29	ug/Kg	☒	11/15/19 10:53	11/16/19 11:58	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/Kg	☒	11/15/19 10:53	11/16/19 11:58	1
Toluene	1.0	U	1.0	0.24	ug/Kg	☒	11/15/19 10:53	11/16/19 11:58	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.25	ug/Kg	☒	11/15/19 10:53	11/16/19 11:58	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.27	ug/Kg	☒	11/15/19 10:53	11/16/19 11:58	1
Trichloroethene	1.0	U	1.0	0.15	ug/Kg	☒	11/15/19 10:53	11/16/19 11:58	1
Trichlorofluoromethane	1.0	U	1.0	0.42	ug/Kg	☒	11/15/19 10:53	11/16/19 11:58	1
Vinyl chloride	1.0	U	1.0	0.56	ug/Kg	☒	11/15/19 10:53	11/16/19 11:58	1
Xylenes, Total	2.1	U	2.1	0.18	ug/Kg	☒	11/15/19 10:53	11/16/19 11:58	1

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Percent Solids: 91.3

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		78 - 135	11/15/19 10:53	11/16/19 11:58	1
4-Bromofluorobenzene	101		67 - 126	11/15/19 10:53	11/16/19 11:58	1
Dibromofluoromethane (Surr)	109		61 - 149	11/15/19 10:53	11/16/19 11:58	1
Toluene-d8 (Surr)	104		73 - 121	11/15/19 10:53	11/16/19 11:58	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	360	U	360	4.8	ug/Kg	☼	11/12/19 12:47	11/13/19 00:46	1
2,2'-oxybis[1-chloropropane]	360	U	360	6.6	ug/Kg	☼	11/12/19 12:47	11/13/19 00:46	1
2,4,5-Trichlorophenol	360	U	360	37	ug/Kg	☼	11/12/19 12:47	11/13/19 00:46	1
2,4,6-Trichlorophenol	150	U	150	47	ug/Kg	☼	11/12/19 12:47	11/13/19 00:46	1
2,4-Dichlorophenol	150	U	150	23	ug/Kg	☼	11/12/19 12:47	11/13/19 00:46	1
2,4-Dimethylphenol	360	U	360	16	ug/Kg	☼	11/12/19 12:47	11/13/19 00:46	1
2,4-Dinitrophenol	290	U	290	180	ug/Kg	☼	11/12/19 12:47	11/13/19 00:46	1
2,4-Dinitrotoluene	73	U	73	39	ug/Kg	☼	11/12/19 12:47	11/13/19 00:46	1
2,6-Dinitrotoluene	73	U	73	26	ug/Kg	☼	11/12/19 12:47	11/13/19 00:46	1
2-Chloronaphthalene	360	U	360	17	ug/Kg	☼	11/12/19 12:47	11/13/19 00:46	1
2-Chlorophenol	360	U	360	13	ug/Kg	☼	11/12/19 12:47	11/13/19 00:46	1
2-Methylnaphthalene	13	J	360	10	ug/Kg	☼	11/12/19 12:47	11/13/19 00:46	1
2-Methylphenol	360	U	360	14	ug/Kg	☼	11/12/19 12:47	11/13/19 00:46	1
2-Nitroaniline	360	U	360	14	ug/Kg	☼	11/12/19 12:47	11/13/19 00:46	1
2-Nitrophenol	360	U	360	36	ug/Kg	☼	11/12/19 12:47	11/13/19 00:46	1
3,3'-Dichlorobenzidine	150	U	150	55	ug/Kg	☼	11/12/19 12:47	11/13/19 00:46	1
3-Nitroaniline	360	U	360	41	ug/Kg	☼	11/12/19 12:47	11/13/19 00:46	1
4,6-Dinitro-2-methylphenol	290	U	290	59	ug/Kg	☼	11/12/19 12:47	11/13/19 00:46	1
4-Bromophenyl phenyl ether	360	U	360	14	ug/Kg	☼	11/12/19 12:47	11/13/19 00:46	1
4-Chloro-3-methylphenol	360	U	360	20	ug/Kg	☼	11/12/19 12:47	11/13/19 00:46	1
4-Chloroaniline	360	U	360	25	ug/Kg	☼	11/12/19 12:47	11/13/19 00:46	1
4-Chlorophenyl phenyl ether	360	U	360	13	ug/Kg	☼	11/12/19 12:47	11/13/19 00:46	1
4-Methylphenol	360	U	360	23	ug/Kg	☼	11/12/19 12:47	11/13/19 00:46	1
4-Nitroaniline	360	U	360	42	ug/Kg	☼	11/12/19 12:47	11/13/19 00:46	1
4-Nitrophenol	730	U	730	59	ug/Kg	☼	11/12/19 12:47	11/13/19 00:46	1
Acenaphthene	60	J	360	26	ug/Kg	☼	11/12/19 12:47	11/13/19 00:46	1
Acenaphthylene	360	U	360	3.7	ug/Kg	☼	11/12/19 12:47	11/13/19 00:46	1
Acetophenone	360	U	360	18	ug/Kg	☼	11/12/19 12:47	11/13/19 00:46	1
Anthracene	180	J	360	11	ug/Kg	☼	11/12/19 12:47	11/13/19 00:46	1
Atrazine	150	U	150	9.1	ug/Kg	☼	11/12/19 12:47	11/13/19 00:46	1
Benzaldehyde	360	U	360	16	ug/Kg	☼	11/12/19 12:47	11/13/19 00:46	1
Benzo[a]anthracene	320		36	13	ug/Kg	☼	11/12/19 12:47	11/13/19 00:46	1
Benzo[a]pyrene	220		36	9.7	ug/Kg	☼	11/12/19 12:47	11/13/19 00:46	1
Benzo[b]fluoranthene	300		36	9.4	ug/Kg	☼	11/12/19 12:47	11/13/19 00:46	1
Benzo[g,h,i]perylene	130	J	360	11	ug/Kg	☼	11/12/19 12:47	11/13/19 00:46	1
Benzo[k]fluoranthene	110		36	7.1	ug/Kg	☼	11/12/19 12:47	11/13/19 00:46	1
Bis(2-chloroethoxy)methane	360	U	360	28	ug/Kg	☼	11/12/19 12:47	11/13/19 00:46	1
Bis(2-chloroethyl)ether	36	U	36	13	ug/Kg	☼	11/12/19 12:47	11/13/19 00:46	1
Bis(2-ethylhexyl) phthalate	360	U	360	19	ug/Kg	☼	11/12/19 12:47	11/13/19 00:46	1
Butyl benzyl phthalate	360	U	360	17	ug/Kg	☼	11/12/19 12:47	11/13/19 00:46	1
Caprolactam	360	U	360	56	ug/Kg	☼	11/12/19 12:47	11/13/19 00:46	1
Carbazole	88	J	360	14	ug/Kg	☼	11/12/19 12:47	11/13/19 00:46	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196258-1

Client Sample ID: WSG-S20-0.0-0.2-0

Lab Sample ID: 460-196258-29

Date Collected: 11/08/19 10:25

Matrix: Solid

Date Received: 11/08/19 20:00

Percent Solids: 91.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	280	J	360	6.1	ug/Kg	☒	11/12/19 12:47	11/13/19 00:46	1
Dibenz(a,h)anthracene	43		36	16	ug/Kg	☒	11/12/19 12:47	11/13/19 00:46	1
Dibenzofuran	36	J	360	5.1	ug/Kg	☒	11/12/19 12:47	11/13/19 00:46	1
Diethyl phthalate	360	U	360	5.3	ug/Kg	☒	11/12/19 12:47	11/13/19 00:46	1
Dimethyl phthalate	360	U	360	82	ug/Kg	☒	11/12/19 12:47	11/13/19 00:46	1
Di-n-butyl phthalate	360	U	360	64	ug/Kg	☒	11/12/19 12:47	11/13/19 00:46	1
Di-n-octyl phthalate	360	U	360	19	ug/Kg	☒	11/12/19 12:47	11/13/19 00:46	1
Fluoranthene	670		360	13	ug/Kg	☒	11/12/19 12:47	11/13/19 00:46	1
Fluorene	77	J	360	4.9	ug/Kg	☒	11/12/19 12:47	11/13/19 00:46	1
Hexachlorobenzene	36	U	36	17	ug/Kg	☒	11/12/19 12:47	11/13/19 00:46	1
Hexachlorobutadiene	73	U	73	7.7	ug/Kg	☒	11/12/19 12:47	11/13/19 00:46	1
Hexachlorocyclopentadiene	360	U	360	32	ug/Kg	☒	11/12/19 12:47	11/13/19 00:46	1
Hexachloroethane	36	U	36	12	ug/Kg	☒	11/12/19 12:47	11/13/19 00:46	1
Indeno[1,2,3-cd]pyrene	160		36	14	ug/Kg	☒	11/12/19 12:47	11/13/19 00:46	1
Isophorone	150	U	150	100	ug/Kg	☒	11/12/19 12:47	11/13/19 00:46	1
Naphthalene	19	J	360	6.3	ug/Kg	☒	11/12/19 12:47	11/13/19 00:46	1
Nitrobenzene	36	U	36	8.7	ug/Kg	☒	11/12/19 12:47	11/13/19 00:46	1
N-Nitrosodi-n-propylamine	36	U	36	26	ug/Kg	☒	11/12/19 12:47	11/13/19 00:46	1
N-Nitrosodiphenylamine	360	U	360	6.9	ug/Kg	☒	11/12/19 12:47	11/13/19 00:46	1
Pentachlorophenol	290	U	290	74	ug/Kg	☒	11/12/19 12:47	11/13/19 00:46	1
Phenanthrene	650		360	6.4	ug/Kg	☒	11/12/19 12:47	11/13/19 00:46	1
Phenol	360	U	360	13	ug/Kg	☒	11/12/19 12:47	11/13/19 00:46	1
Pyrene	670		360	9.0	ug/Kg	☒	11/12/19 12:47	11/13/19 00:46	1
1,4-Dioxane	110	U	110	10	ug/Kg	☒	11/12/19 12:47	11/13/19 00:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	49		10 - 137	11/12/19 12:47	11/13/19 00:46	1
2-Fluorobiphenyl	57		29 - 107	11/12/19 12:47	11/13/19 00:46	1
2-Fluorophenol (Surr)	67		20 - 115	11/12/19 12:47	11/13/19 00:46	1
Nitrobenzene-d5 (Surr)	64		25 - 113	11/12/19 12:47	11/13/19 00:46	1
Phenol-d5 (Surr)	65		28 - 109	11/12/19 12:47	11/13/19 00:46	1
Terphenyl-d14 (Surr)	68		27 - 123	11/12/19 12:47	11/13/19 00:46	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	7.3	U	7.3	1.2	ug/Kg	☒	11/12/19 09:56	11/14/19 12:29	1
4,4'-DDE	7.3	U	7.3	0.87	ug/Kg	☒	11/12/19 09:56	11/14/19 12:29	1
4,4'-DDT	7.3	U	7.3	1.3	ug/Kg	☒	11/12/19 09:56	11/14/19 12:29	1
Aldrin	7.3	U	7.3	1.1	ug/Kg	☒	11/12/19 09:56	11/14/19 12:29	1
alpha-BHC	2.2	U	2.2	0.74	ug/Kg	☒	11/12/19 09:56	11/14/19 12:29	1
beta-BHC	2.2	U	2.2	0.82	ug/Kg	☒	11/12/19 09:56	11/14/19 12:29	1
Chlordane (technical)	73	U	73	18	ug/Kg	☒	11/12/19 09:56	11/14/19 12:29	1
delta-BHC	2.2	U	2.2	0.45	ug/Kg	☒	11/12/19 09:56	11/14/19 12:29	1
Dieldrin	3.8		2.2	0.95	ug/Kg	☒	11/12/19 09:56	11/14/19 12:29	1
Endosulfan I	7.3	U	7.3	1.1	ug/Kg	☒	11/12/19 09:56	11/14/19 12:29	1
Endosulfan II	7.3	U	7.3	1.9	ug/Kg	☒	11/12/19 09:56	11/14/19 12:29	1
Endosulfan sulfate	7.3	U	7.3	0.92	ug/Kg	☒	11/12/19 09:56	11/14/19 12:29	1
Endrin	7.3	U	7.3	1.1	ug/Kg	☒	11/12/19 09:56	11/14/19 12:29	1
Endrin aldehyde	7.3	U	7.3	1.7	ug/Kg	☒	11/12/19 09:56	11/14/19 12:29	1

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Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196258-1

Client Sample ID: WSG-S20-0.0-0.2-0

Lab Sample ID: 460-196258-29

Date Collected: 11/08/19 10:25

Matrix: Solid

Date Received: 11/08/19 20:00

Percent Solids: 91.3

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endrin ketone	7.3	U	7.3	1.4	ug/Kg	☼	11/12/19 09:56	11/14/19 12:29	1
gamma-BHC (Lindane)	2.2	U	2.2	0.68	ug/Kg	☼	11/12/19 09:56	11/14/19 12:29	1
Heptachlor	7.3	U	7.3	0.87	ug/Kg	☼	11/12/19 09:56	11/14/19 12:29	1
Heptachlor epoxide	7.3	U	7.3	1.1	ug/Kg	☼	11/12/19 09:56	11/14/19 12:29	1
Methoxychlor	7.3	U	7.3	1.7	ug/Kg	☼	11/12/19 09:56	11/14/19 12:29	1
Toxaphene	73	U	73	27	ug/Kg	☼	11/12/19 09:56	11/14/19 12:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	159	*	49 - 150	11/12/19 09:56	11/14/19 12:29	1
DCB Decachlorobiphenyl	128		49 - 150	11/12/19 09:56	11/14/19 12:29	1
Tetrachloro-m-xylene	85		47 - 150	11/12/19 09:56	11/14/19 12:29	1
Tetrachloro-m-xylene	96		47 - 150	11/12/19 09:56	11/14/19 12:29	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	73	U	73	9.7	ug/Kg	☼	11/12/19 09:48	11/13/19 17:11	1
Aroclor 1221	73	U	73	9.7	ug/Kg	☼	11/12/19 09:48	11/13/19 17:11	1
Aroclor 1232	73	U	73	9.7	ug/Kg	☼	11/12/19 09:48	11/13/19 17:11	1
Aroclor 1242	73	U	73	9.7	ug/Kg	☼	11/12/19 09:48	11/13/19 17:11	1
Aroclor 1248	73	U	73	9.7	ug/Kg	☼	11/12/19 09:48	11/13/19 17:11	1
Aroclor 1254	73	U	73	10	ug/Kg	☼	11/12/19 09:48	11/13/19 17:11	1
Aroclor 1260	73	U	73	10	ug/Kg	☼	11/12/19 09:48	11/13/19 17:11	1
Aroclor-1262	73	U	73	10	ug/Kg	☼	11/12/19 09:48	11/13/19 17:11	1
Aroclor 1268	73	U	73	10	ug/Kg	☼	11/12/19 09:48	11/13/19 17:11	1
Polychlorinated biphenyls, Total	73	U	73	10	ug/Kg	☼	11/12/19 09:48	11/13/19 17:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	123		53 - 150	11/12/19 09:48	11/13/19 17:11	1
DCB Decachlorobiphenyl	108		53 - 150	11/12/19 09:48	11/13/19 17:11	1

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	36	U	36	13	ug/Kg	☼	11/13/19 00:19	11/13/19 19:23	1
Silvex (2,4,5-TP)	36	U *	36	3.8	ug/Kg	☼	11/13/19 00:19	11/13/19 19:23	1
2,4,5-T	36	U *	36	7.8	ug/Kg	☼	11/13/19 00:19	11/13/19 19:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	149		30 - 150	11/13/19 00:19	11/13/19 19:23	1
2,4-Dichlorophenylacetic acid	132		30 - 150	11/13/19 00:19	11/13/19 19:23	1

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	0.20	U	0.20	0.042	ug/Kg	☼	11/20/19 06:46	12/14/19 19:36	1
Perfluoroheptanoic acid (PFHpA)	0.20	U	0.20	0.029	ug/Kg	☼	11/20/19 06:46	12/14/19 19:36	1
Perfluorooctanoic acid (PFOA)	0.20	U	0.20	0.086	ug/Kg	☼	11/20/19 06:46	12/14/19 19:36	1
Perfluorononanoic acid (PFNA)	0.20	U	0.20	0.036	ug/Kg	☼	11/20/19 06:46	12/14/19 19:36	1
Perfluorodecanoic acid (PFDA)	0.20	U	0.20	0.022	ug/Kg	☼	11/20/19 06:46	12/14/19 19:36	1
Perfluoroundecanoic acid (PFUnA)	0.20	U	0.20	0.036	ug/Kg	☼	11/20/19 06:46	12/14/19 19:36	1
Perfluorododecanoic acid (PFDoA)	0.20	U	0.20	0.067	ug/Kg	☼	11/20/19 06:46	12/14/19 19:36	1
Perfluorotridecanoic acid (PFTriA)	0.20	U	0.20	0.051	ug/Kg	☼	11/20/19 06:46	12/14/19 19:36	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196258-1

Client Sample ID: WSG-S20-0.0-0.2-0

Lab Sample ID: 460-196258-29

Date Collected: 11/08/19 10:25

Matrix: Solid

Date Received: 11/08/19 20:00

Percent Solids: 91.3

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorotetradecanoic acid (PFTeA)	0.20	U	0.20	0.054	ug/Kg	☼	11/20/19 06:46	12/14/19 19:36	1
Perfluorobutanesulfonic acid (PFBS)	0.20	U	0.20	0.025	ug/Kg	☼	11/20/19 06:46	12/14/19 19:36	1
Perfluorohexanesulfonic acid (PFHxS)	0.20	U	0.20	0.031	ug/Kg	☼	11/20/19 06:46	12/14/19 19:36	1
Perfluorooctanesulfonic acid (PFOS)	0.54	B	0.50	0.20	ug/Kg	☼	11/20/19 06:46	12/14/19 19:36	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.01	U	2.01	0.37	ug/Kg	☼	11/20/19 06:46	12/14/19 19:36	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.01	U	2.01	0.39	ug/Kg	☼	11/20/19 06:46	12/14/19 19:36	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C2 PFHxA	87		25 - 150				11/20/19 06:46	12/14/19 19:36	1
13C4 PFHpA	95		25 - 150				11/20/19 06:46	12/14/19 19:36	1
13C4 PFOA	88		25 - 150				11/20/19 06:46	12/14/19 19:36	1
13C5 PFNA	90		25 - 150				11/20/19 06:46	12/14/19 19:36	1
13C2 PFDA	91		25 - 150				11/20/19 06:46	12/14/19 19:36	1
13C2 PFUnA	98		25 - 150				11/20/19 06:46	12/14/19 19:36	1
13C2 PFDoA	97		25 - 150				11/20/19 06:46	12/14/19 19:36	1
13C2 PFTeDA	88		25 - 150				11/20/19 06:46	12/14/19 19:36	1
18O2 PFHxS	84		25 - 150				11/20/19 06:46	12/14/19 19:36	1
13C4 PFOS	84		25 - 150				11/20/19 06:46	12/14/19 19:36	1
d3-NMeFOSAA	46		25 - 150				11/20/19 06:46	12/14/19 19:36	1
d5-NEtFOSAA	46		25 - 150				11/20/19 06:46	12/14/19 19:36	1

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	3870		31.9	15.6	mg/Kg	☼	11/19/19 07:02	11/20/19 00:07	4
Silver	2.1	U	2.1	0.20	mg/Kg	☼	11/19/19 07:02	11/20/19 00:07	4
Aluminum	2150		42.5	12.0	mg/Kg	☼	11/19/19 07:02	11/20/19 00:07	4
Arsenic	1.6	J	3.2	1.2	mg/Kg	☼	11/19/19 07:02	11/20/19 00:07	4
Boron	6.7	J	10.6	2.9	mg/Kg	☼	11/19/19 07:02	11/20/19 00:07	4
Barium	16.3	J	42.5	2.4	mg/Kg	☼	11/19/19 07:02	11/20/19 00:07	4
Beryllium	0.16	J	0.43	0.095	mg/Kg	☼	11/19/19 07:02	11/20/19 00:07	4
Calcium	17400		1060	62.6	mg/Kg	☼	11/19/19 07:02	11/20/19 00:07	4
Cadmium	0.85	U	0.85	0.14	mg/Kg	☼	11/19/19 07:02	11/20/19 00:07	4
Cobalt	10.6	U	10.6	1.3	mg/Kg	☼	11/19/19 07:02	11/20/19 00:07	4
Chromium	6.9		2.1	0.38	mg/Kg	☼	11/19/19 07:02	11/20/19 00:07	4
Copper	6.8		5.3	2.8	mg/Kg	☼	11/19/19 07:02	11/20/19 00:07	4
Potassium	289	J	1060	66.1	mg/Kg	☼	11/19/19 07:02	11/20/19 00:07	4
Magnesium	2450		1060	62.0	mg/Kg	☼	11/19/19 07:02	11/20/19 00:07	4
Manganese	74.6		3.2	0.37	mg/Kg	☼	11/19/19 07:02	11/20/19 00:07	4
Molybdenum	4.3	U	4.3	1.0	mg/Kg	☼	11/19/19 07:02	11/20/19 00:07	4
Sodium	1060	U	1060	85.5	mg/Kg	☼	11/19/19 07:02	11/20/19 00:07	4
Nickel	3.7	J	8.5	0.78	mg/Kg	☼	11/19/19 07:02	11/20/19 00:07	4
Lead	8.5		2.1	0.56	mg/Kg	☼	11/19/19 07:02	11/20/19 00:07	4
Antimony	4.3	U	4.3	1.1	mg/Kg	☼	11/19/19 07:02	11/20/19 00:07	4
Selenium	4.3	U	4.3	2.5	mg/Kg	☼	11/19/19 07:02	11/20/19 00:07	4
Tin	10.6	U	10.6	6.8	mg/Kg	☼	11/19/19 07:02	11/20/19 00:07	4
Strontium	57.2		4.3	0.42	mg/Kg	☼	11/19/19 07:02	11/20/19 00:07	4
Titanium	129		4.3	0.64	mg/Kg	☼	11/19/19 07:02	11/20/19 00:07	4

Eurofins TestAmerica, Edison

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196258-1

Client Sample ID: WSG-S20-0.0-0.2-0

Lab Sample ID: 460-196258-29

Date Collected: 11/08/19 10:25

Matrix: Solid

Date Received: 11/08/19 20:00

Percent Solids: 91.3

Method: 6010D - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	0.83	J	4.3	0.68	mg/Kg	☼	11/19/19 07:02	11/20/19 00:07	4
Vanadium	7.9	J	10.6	0.71	mg/Kg	☼	11/19/19 07:02	11/20/19 00:07	4
Zinc	21.4		6.4	5.0	mg/Kg	☼	11/19/19 07:02	11/20/19 00:07	4

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.026		0.019	0.011	mg/Kg	☼	11/15/19 04:40	11/15/19 09:47	1

Client Sample ID: WSG-S20-0.5-2.0-0

Lab Sample ID: 460-196258-30

Date Collected: 11/08/19 10:35

Matrix: Solid

Date Received: 11/08/19 20:00

Percent Solids: 97.0

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.96	U	0.96	0.22	ug/Kg	☼	11/15/19 10:54	11/16/19 12:23	1
1,1,2,2-Tetrachloroethane	0.96	U	0.96	0.21	ug/Kg	☼	11/15/19 10:54	11/16/19 12:23	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.96	U	0.96	0.29	ug/Kg	☼	11/15/19 10:54	11/16/19 12:23	1
1,1,2-Trichloroethane	0.96	U	0.96	0.17	ug/Kg	☼	11/15/19 10:54	11/16/19 12:23	1
1,1-Dichloroethane	0.96	U	0.96	0.20	ug/Kg	☼	11/15/19 10:54	11/16/19 12:23	1
1,1-Dichloroethene	0.96	U	0.96	0.22	ug/Kg	☼	11/15/19 10:54	11/16/19 12:23	1
1,2,4-Trichlorobenzene	0.96	U	0.96	0.34	ug/Kg	☼	11/15/19 10:54	11/16/19 12:23	1
1,2-Dibromo-3-Chloropropane	0.96	U	0.96	0.44	ug/Kg	☼	11/15/19 10:54	11/16/19 12:23	1
1,2-Dichlorobenzene	0.96	U	0.96	0.14	ug/Kg	☼	11/15/19 10:54	11/16/19 12:23	1
1,2-Dichloroethane	0.96	U	0.96	0.29	ug/Kg	☼	11/15/19 10:54	11/16/19 12:23	1
1,2-Dichloropropane	0.96	U	0.96	0.41	ug/Kg	☼	11/15/19 10:54	11/16/19 12:23	1
1,3-Dichlorobenzene	0.96	U	0.96	0.15	ug/Kg	☼	11/15/19 10:54	11/16/19 12:23	1
1,4-Dichlorobenzene	0.96	U	0.96	0.22	ug/Kg	☼	11/15/19 10:54	11/16/19 12:23	1
2-Butanone (MEK)	4.8	U	4.8	2.6	ug/Kg	☼	11/15/19 10:54	11/16/19 12:23	1
2-Hexanone	4.8	U	4.8	1.6	ug/Kg	☼	11/15/19 10:54	11/16/19 12:23	1
4-Methyl-2-pentanone (MIBK)	4.8	U	4.8	1.5	ug/Kg	☼	11/15/19 10:54	11/16/19 12:23	1
Acetone	5.8	U	5.8	5.5	ug/Kg	☼	11/15/19 10:54	11/16/19 12:23	1
Benzene	0.96	U	0.96	0.25	ug/Kg	☼	11/15/19 10:54	11/16/19 12:23	1
Bromoform	0.96	U	0.96	0.41	ug/Kg	☼	11/15/19 10:54	11/16/19 12:23	1
Bromomethane	0.96	U	0.96	0.46	ug/Kg	☼	11/15/19 10:54	11/16/19 12:23	1
Carbon disulfide	0.96	U	0.96	0.26	ug/Kg	☼	11/15/19 10:54	11/16/19 12:23	1
Carbon tetrachloride	0.96	U	0.96	0.37	ug/Kg	☼	11/15/19 10:54	11/16/19 12:23	1
Chlorobenzene	0.96	U	0.96	0.17	ug/Kg	☼	11/15/19 10:54	11/16/19 12:23	1
Chlorodibromomethane	0.96	U	0.96	0.19	ug/Kg	☼	11/15/19 10:54	11/16/19 12:23	1
Chloroethane	0.96	U	0.96	0.50	ug/Kg	☼	11/15/19 10:54	11/16/19 12:23	1
Chloroform	0.96	U	0.96	0.31	ug/Kg	☼	11/15/19 10:54	11/16/19 12:23	1
Chloromethane	0.96	U	0.96	0.42	ug/Kg	☼	11/15/19 10:54	11/16/19 12:23	1
cis-1,2-Dichloroethene	0.96	U	0.96	0.15	ug/Kg	☼	11/15/19 10:54	11/16/19 12:23	1
cis-1,3-Dichloropropene	0.96	U	0.96	0.26	ug/Kg	☼	11/15/19 10:54	11/16/19 12:23	1
Cyclohexane	0.96	U	0.96	0.21	ug/Kg	☼	11/15/19 10:54	11/16/19 12:23	1
Dichlorobromomethane	0.96	U	0.96	0.25	ug/Kg	☼	11/15/19 10:54	11/16/19 12:23	1
Dichlorodifluoromethane	0.96	U	0.96	0.33	ug/Kg	☼	11/15/19 10:54	11/16/19 12:23	1
Ethylbenzene	0.96	U	0.96	0.19	ug/Kg	☼	11/15/19 10:54	11/16/19 12:23	1
Ethylene Dibromide	0.96	U	0.96	0.17	ug/Kg	☼	11/15/19 10:54	11/16/19 12:23	1
Isopropylbenzene	0.96	U	0.96	0.12	ug/Kg	☼	11/15/19 10:54	11/16/19 12:23	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196258-1

Client Sample ID: WSG-S20-0.5-2.0-0

Lab Sample ID: 460-196258-30

Date Collected: 11/08/19 10:35

Matrix: Solid

Date Received: 11/08/19 20:00

Percent Solids: 97.0

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl acetate	4.8	U	4.8	4.1	ug/Kg	☼	11/15/19 10:54	11/16/19 12:23	1
Methyl tert-butyl ether	0.96	U	0.96	0.12	ug/Kg	☼	11/15/19 10:54	11/16/19 12:23	1
Methylcyclohexane	0.96	U	0.96	0.48	ug/Kg	☼	11/15/19 10:54	11/16/19 12:23	1
Methylene Chloride	0.96	U	0.96	0.45	ug/Kg	☼	11/15/19 10:54	11/16/19 12:23	1
Styrene	0.96	U	0.96	0.27	ug/Kg	☼	11/15/19 10:54	11/16/19 12:23	1
Tetrachloroethene	0.96	U	0.96	0.14	ug/Kg	☼	11/15/19 10:54	11/16/19 12:23	1
Toluene	0.96	U	0.96	0.23	ug/Kg	☼	11/15/19 10:54	11/16/19 12:23	1
trans-1,2-Dichloroethene	0.96	U	0.96	0.24	ug/Kg	☼	11/15/19 10:54	11/16/19 12:23	1
trans-1,3-Dichloropropene	0.96	U	0.96	0.26	ug/Kg	☼	11/15/19 10:54	11/16/19 12:23	1
Trichloroethene	0.96	U	0.96	0.14	ug/Kg	☼	11/15/19 10:54	11/16/19 12:23	1
Trichlorofluoromethane	0.96	U	0.96	0.39	ug/Kg	☼	11/15/19 10:54	11/16/19 12:23	1
Vinyl chloride	0.96	U	0.96	0.53	ug/Kg	☼	11/15/19 10:54	11/16/19 12:23	1
Xylenes, Total	1.9	U	1.9	0.17	ug/Kg	☼	11/15/19 10:54	11/16/19 12:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		78 - 135	11/15/19 10:54	11/16/19 12:23	1
4-Bromofluorobenzene	105		67 - 126	11/15/19 10:54	11/16/19 12:23	1
Dibromofluoromethane (Surr)	109		61 - 149	11/15/19 10:54	11/16/19 12:23	1
Toluene-d8 (Surr)	104		73 - 121	11/15/19 10:54	11/16/19 12:23	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	340	U	340	4.5	ug/Kg	☼	11/12/19 12:47	11/13/19 01:31	1
2,2'-oxybis[1-chloropropane]	340	U	340	6.2	ug/Kg	☼	11/12/19 12:47	11/13/19 01:31	1
2,4,5-Trichlorophenol	340	U	340	35	ug/Kg	☼	11/12/19 12:47	11/13/19 01:31	1
2,4,6-Trichlorophenol	140	U	140	44	ug/Kg	☼	11/12/19 12:47	11/13/19 01:31	1
2,4-Dichlorophenol	140	U	140	22	ug/Kg	☼	11/12/19 12:47	11/13/19 01:31	1
2,4-Dimethylphenol	340	U	340	15	ug/Kg	☼	11/12/19 12:47	11/13/19 01:31	1
2,4-Dinitrophenol	270	U	270	170	ug/Kg	☼	11/12/19 12:47	11/13/19 01:31	1
2,4-Dinitrotoluene	69	U	69	37	ug/Kg	☼	11/12/19 12:47	11/13/19 01:31	1
2,6-Dinitrotoluene	69	U	69	25	ug/Kg	☼	11/12/19 12:47	11/13/19 01:31	1
2-Chloronaphthalene	340	U	340	16	ug/Kg	☼	11/12/19 12:47	11/13/19 01:31	1
2-Chlorophenol	340	U	340	12	ug/Kg	☼	11/12/19 12:47	11/13/19 01:31	1
2-Methylnaphthalene	340	U	340	9.5	ug/Kg	☼	11/12/19 12:47	11/13/19 01:31	1
2-Methylphenol	340	U	340	13	ug/Kg	☼	11/12/19 12:47	11/13/19 01:31	1
2-Nitroaniline	340	U	340	13	ug/Kg	☼	11/12/19 12:47	11/13/19 01:31	1
2-Nitrophenol	340	U	340	34	ug/Kg	☼	11/12/19 12:47	11/13/19 01:31	1
3,3'-Dichlorobenzidine	140	U	140	52	ug/Kg	☼	11/12/19 12:47	11/13/19 01:31	1
3-Nitroaniline	340	U	340	38	ug/Kg	☼	11/12/19 12:47	11/13/19 01:31	1
4,6-Dinitro-2-methylphenol	270	U	270	55	ug/Kg	☼	11/12/19 12:47	11/13/19 01:31	1
4-Bromophenyl phenyl ether	340	U	340	14	ug/Kg	☼	11/12/19 12:47	11/13/19 01:31	1
4-Chloro-3-methylphenol	340	U	340	19	ug/Kg	☼	11/12/19 12:47	11/13/19 01:31	1
4-Chloroaniline	340	U	340	24	ug/Kg	☼	11/12/19 12:47	11/13/19 01:31	1
4-Chlorophenyl phenyl ether	340	U	340	12	ug/Kg	☼	11/12/19 12:47	11/13/19 01:31	1
4-Methylphenol	340	U	340	21	ug/Kg	☼	11/12/19 12:47	11/13/19 01:31	1
4-Nitroaniline	340	U	340	39	ug/Kg	☼	11/12/19 12:47	11/13/19 01:31	1
4-Nitrophenol	690	U	690	56	ug/Kg	☼	11/12/19 12:47	11/13/19 01:31	1
Acenaphthene	340	U	340	25	ug/Kg	☼	11/12/19 12:47	11/13/19 01:31	1
Acenaphthylene	340	U	340	3.5	ug/Kg	☼	11/12/19 12:47	11/13/19 01:31	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196258-1

Client Sample ID: WSG-S20-0.5-2.0-0

Lab Sample ID: 460-196258-30

Date Collected: 11/08/19 10:35

Matrix: Solid

Date Received: 11/08/19 20:00

Percent Solids: 97.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetophenone	340	U	340	17	ug/Kg	☼	11/12/19 12:47	11/13/19 01:31	1
Anthracene	340	U	340	10	ug/Kg	☼	11/12/19 12:47	11/13/19 01:31	1
Atrazine	140	U	140	8.6	ug/Kg	☼	11/12/19 12:47	11/13/19 01:31	1
Benzaldehyde	340	U	340	15	ug/Kg	☼	11/12/19 12:47	11/13/19 01:31	1
Benzo[a]anthracene	34	U	34	12	ug/Kg	☼	11/12/19 12:47	11/13/19 01:31	1
Benzo[a]pyrene	34	U	34	9.1	ug/Kg	☼	11/12/19 12:47	11/13/19 01:31	1
Benzo[b]fluoranthene	34	U	34	8.8	ug/Kg	☼	11/12/19 12:47	11/13/19 01:31	1
Benzo[g,h,i]perylene	340	U	340	10	ug/Kg	☼	11/12/19 12:47	11/13/19 01:31	1
Benzo[k]fluoranthene	34	U	34	6.7	ug/Kg	☼	11/12/19 12:47	11/13/19 01:31	1
Bis(2-chloroethoxy)methane	340	U	340	27	ug/Kg	☼	11/12/19 12:47	11/13/19 01:31	1
Bis(2-chloroethyl)ether	34	U	34	12	ug/Kg	☼	11/12/19 12:47	11/13/19 01:31	1
Bis(2-ethylhexyl) phthalate	340	U	340	18	ug/Kg	☼	11/12/19 12:47	11/13/19 01:31	1
Butyl benzyl phthalate	340	U	340	16	ug/Kg	☼	11/12/19 12:47	11/13/19 01:31	1
Caprolactam	340	U	340	53	ug/Kg	☼	11/12/19 12:47	11/13/19 01:31	1
Carbazole	340	U	340	13	ug/Kg	☼	11/12/19 12:47	11/13/19 01:31	1
Chrysene	340	U	340	5.8	ug/Kg	☼	11/12/19 12:47	11/13/19 01:31	1
Dibenz(a,h)anthracene	34	U	34	15	ug/Kg	☼	11/12/19 12:47	11/13/19 01:31	1
Dibenzofuran	340	U	340	4.8	ug/Kg	☼	11/12/19 12:47	11/13/19 01:31	1
Diethyl phthalate	340	U	340	4.9	ug/Kg	☼	11/12/19 12:47	11/13/19 01:31	1
Dimethyl phthalate	340	U	340	77	ug/Kg	☼	11/12/19 12:47	11/13/19 01:31	1
Di-n-butyl phthalate	340	U	340	60	ug/Kg	☼	11/12/19 12:47	11/13/19 01:31	1
Di-n-octyl phthalate	340	U	340	18	ug/Kg	☼	11/12/19 12:47	11/13/19 01:31	1
Fluoranthene	340	U	340	12	ug/Kg	☼	11/12/19 12:47	11/13/19 01:31	1
Fluorene	340	U	340	4.6	ug/Kg	☼	11/12/19 12:47	11/13/19 01:31	1
Hexachlorobenzene	34	U	34	16	ug/Kg	☼	11/12/19 12:47	11/13/19 01:31	1
Hexachlorobutadiene	69	U	69	7.3	ug/Kg	☼	11/12/19 12:47	11/13/19 01:31	1
Hexachlorocyclopentadiene	340	U	340	30	ug/Kg	☼	11/12/19 12:47	11/13/19 01:31	1
Hexachloroethane	34	U	34	12	ug/Kg	☼	11/12/19 12:47	11/13/19 01:31	1
Indeno[1,2,3-cd]pyrene	34	U	34	13	ug/Kg	☼	11/12/19 12:47	11/13/19 01:31	1
Isophorone	140	U	140	99	ug/Kg	☼	11/12/19 12:47	11/13/19 01:31	1
Naphthalene	340	U	340	5.9	ug/Kg	☼	11/12/19 12:47	11/13/19 01:31	1
Nitrobenzene	34	U	34	8.2	ug/Kg	☼	11/12/19 12:47	11/13/19 01:31	1
N-Nitrosodi-n-propylamine	34	U	34	25	ug/Kg	☼	11/12/19 12:47	11/13/19 01:31	1
N-Nitrosodiphenylamine	340	U	340	6.5	ug/Kg	☼	11/12/19 12:47	11/13/19 01:31	1
Pentachlorophenol	270	U	270	70	ug/Kg	☼	11/12/19 12:47	11/13/19 01:31	1
Phenanthrene	340	U	340	6.0	ug/Kg	☼	11/12/19 12:47	11/13/19 01:31	1
Phenol	340	U	340	13	ug/Kg	☼	11/12/19 12:47	11/13/19 01:31	1
Pyrene	340	U	340	8.5	ug/Kg	☼	11/12/19 12:47	11/13/19 01:31	1
1,4-Dioxane	100	U	100	9.4	ug/Kg	☼	11/12/19 12:47	11/13/19 01:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	70		10 - 137	11/12/19 12:47	11/13/19 01:31	1
2-Fluorobiphenyl	68		29 - 107	11/12/19 12:47	11/13/19 01:31	1
2-Fluorophenol (Surr)	65		20 - 115	11/12/19 12:47	11/13/19 01:31	1
Nitrobenzene-d5 (Surr)	66		25 - 113	11/12/19 12:47	11/13/19 01:31	1
Phenol-d5 (Surr)	63		28 - 109	11/12/19 12:47	11/13/19 01:31	1
Terphenyl-d14 (Surr)	84		27 - 123	11/12/19 12:47	11/13/19 01:31	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196258-1

Client Sample ID: WSG-S20-0.5-2.0-0

Lab Sample ID: 460-196258-30

Date Collected: 11/08/19 10:35

Matrix: Solid

Date Received: 11/08/19 20:00

Percent Solids: 97.0

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	6.9	U	6.9	1.2	ug/Kg	☒	11/12/19 09:56	11/14/19 12:41	1
4,4'-DDE	6.9	U	6.9	0.81	ug/Kg	☒	11/12/19 09:56	11/14/19 12:41	1
4,4'-DDT	6.9	U	6.9	1.3	ug/Kg	☒	11/12/19 09:56	11/14/19 12:41	1
Aldrin	6.9	U	6.9	1.0	ug/Kg	☒	11/12/19 09:56	11/14/19 12:41	1
alpha-BHC	2.1	U	2.1	0.70	ug/Kg	☒	11/12/19 09:56	11/14/19 12:41	1
beta-BHC	2.1	U	2.1	0.77	ug/Kg	☒	11/12/19 09:56	11/14/19 12:41	1
Chlordane (technical)	69	U	69	17	ug/Kg	☒	11/12/19 09:56	11/14/19 12:41	1
delta-BHC	2.1	U	2.1	0.42	ug/Kg	☒	11/12/19 09:56	11/14/19 12:41	1
Dieldrin	2.1	U	2.1	0.90	ug/Kg	☒	11/12/19 09:56	11/14/19 12:41	1
Endosulfan I	6.9	U	6.9	1.1	ug/Kg	☒	11/12/19 09:56	11/14/19 12:41	1
Endosulfan II	6.9	U	6.9	1.8	ug/Kg	☒	11/12/19 09:56	11/14/19 12:41	1
Endosulfan sulfate	6.9	U	6.9	0.87	ug/Kg	☒	11/12/19 09:56	11/14/19 12:41	1
Endrin	6.9	U	6.9	0.99	ug/Kg	☒	11/12/19 09:56	11/14/19 12:41	1
Endrin aldehyde	6.9	U	6.9	1.6	ug/Kg	☒	11/12/19 09:56	11/14/19 12:41	1
Endrin ketone	6.9	U	6.9	1.3	ug/Kg	☒	11/12/19 09:56	11/14/19 12:41	1
gamma-BHC (Lindane)	2.1	U	2.1	0.64	ug/Kg	☒	11/12/19 09:56	11/14/19 12:41	1
Heptachlor	6.9	U	6.9	0.81	ug/Kg	☒	11/12/19 09:56	11/14/19 12:41	1
Heptachlor epoxide	6.9	U	6.9	1.0	ug/Kg	☒	11/12/19 09:56	11/14/19 12:41	1
Methoxychlor	6.9	U	6.9	1.6	ug/Kg	☒	11/12/19 09:56	11/14/19 12:41	1
Toxaphene	69	U	69	25	ug/Kg	☒	11/12/19 09:56	11/14/19 12:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	95		49 - 150	11/12/19 09:56	11/14/19 12:41	1
DCB Decachlorobiphenyl	99		49 - 150	11/12/19 09:56	11/14/19 12:41	1
Tetrachloro-m-xylene	81		47 - 150	11/12/19 09:56	11/14/19 12:41	1
Tetrachloro-m-xylene	78		47 - 150	11/12/19 09:56	11/14/19 12:41	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	69	U	69	9.2	ug/Kg	☒	11/12/19 09:48	11/13/19 17:32	1
Aroclor 1221	69	U	69	9.2	ug/Kg	☒	11/12/19 09:48	11/13/19 17:32	1
Aroclor 1232	69	U	69	9.2	ug/Kg	☒	11/12/19 09:48	11/13/19 17:32	1
Aroclor 1242	69	U	69	9.2	ug/Kg	☒	11/12/19 09:48	11/13/19 17:32	1
Aroclor 1248	69	U	69	9.2	ug/Kg	☒	11/12/19 09:48	11/13/19 17:32	1
Aroclor 1254	69	U	69	9.5	ug/Kg	☒	11/12/19 09:48	11/13/19 17:32	1
Aroclor 1260	69	U	69	9.5	ug/Kg	☒	11/12/19 09:48	11/13/19 17:32	1
Aroclor-1262	69	U	69	9.5	ug/Kg	☒	11/12/19 09:48	11/13/19 17:32	1
Aroclor 1268	69	U	69	9.5	ug/Kg	☒	11/12/19 09:48	11/13/19 17:32	1
Polychlorinated biphenyls, Total	69	U	69	9.5	ug/Kg	☒	11/12/19 09:48	11/13/19 17:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	104		53 - 150	11/12/19 09:48	11/13/19 17:32	1
DCB Decachlorobiphenyl	98		53 - 150	11/12/19 09:48	11/13/19 17:32	1

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	34	U	34	12	ug/Kg	☒	11/13/19 00:19	11/13/19 19:37	1
Silvex (2,4,5-TP)	34	U *	34	3.6	ug/Kg	☒	11/13/19 00:19	11/13/19 19:37	1
2,4,5-T	34	U *	34	7.3	ug/Kg	☒	11/13/19 00:19	11/13/19 19:37	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196258-1

Client Sample ID: WSG-S20-0.5-2.0-0

Lab Sample ID: 460-196258-30

Date Collected: 11/08/19 10:35

Matrix: Solid

Date Received: 11/08/19 20:00

Percent Solids: 97.0

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	143		30 - 150	11/13/19 00:19	11/13/19 19:37	1
2,4-Dichlorophenylacetic acid	130		30 - 150	11/13/19 00:19	11/13/19 19:37	1

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	0.20	U	0.20	0.042	ug/Kg	☼	11/20/19 06:46	12/14/19 19:44	1
Perfluoroheptanoic acid (PFHpA)	0.20	U	0.20	0.029	ug/Kg	☼	11/20/19 06:46	12/14/19 19:44	1
Perfluorooctanoic acid (PFOA)	0.20	U	0.20	0.085	ug/Kg	☼	11/20/19 06:46	12/14/19 19:44	1
Perfluorononanoic acid (PFNA)	0.23		0.20	0.036	ug/Kg	☼	11/20/19 06:46	12/14/19 19:44	1
Perfluorodecanoic acid (PFDA)	0.029	J	0.20	0.022	ug/Kg	☼	11/20/19 06:46	12/14/19 19:44	1
Perfluoroundecanoic acid (PFUnA)	0.20	U	0.20	0.036	ug/Kg	☼	11/20/19 06:46	12/14/19 19:44	1
Perfluorododecanoic acid (PFDoA)	0.20	U	0.20	0.066	ug/Kg	☼	11/20/19 06:46	12/14/19 19:44	1
Perfluorotridecanoic acid (PFTriA)	0.20	U	0.20	0.051	ug/Kg	☼	11/20/19 06:46	12/14/19 19:44	1
Perfluorotetradecanoic acid (PFTeA)	0.20	U	0.20	0.054	ug/Kg	☼	11/20/19 06:46	12/14/19 19:44	1
Perfluorobutanesulfonic acid (PFBS)	0.20	U	0.20	0.025	ug/Kg	☼	11/20/19 06:46	12/14/19 19:44	1
Perfluorohexanesulfonic acid (PFHxS)	0.20	U	0.20	0.031	ug/Kg	☼	11/20/19 06:46	12/14/19 19:44	1
Perfluorooctanesulfonic acid (PFOS)	1.32	B	0.50	0.20	ug/Kg	☼	11/20/19 06:46	12/14/19 19:44	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	1.98	U	1.98	0.37	ug/Kg	☼	11/20/19 06:46	12/14/19 19:44	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	1.98	U	1.98	0.39	ug/Kg	☼	11/20/19 06:46	12/14/19 19:44	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFHxA	89		25 - 150	11/20/19 06:46	12/14/19 19:44	1
13C4 PFHpA	91		25 - 150	11/20/19 06:46	12/14/19 19:44	1
13C4 PFOA	87		25 - 150	11/20/19 06:46	12/14/19 19:44	1
13C5 PFNA	94		25 - 150	11/20/19 06:46	12/14/19 19:44	1
13C2 PFDA	95		25 - 150	11/20/19 06:46	12/14/19 19:44	1
13C2 PFUnA	95		25 - 150	11/20/19 06:46	12/14/19 19:44	1
13C2 PFDoA	101		25 - 150	11/20/19 06:46	12/14/19 19:44	1
13C2 PFTeDA	93		25 - 150	11/20/19 06:46	12/14/19 19:44	1
18O2 PFHxS	90		25 - 150	11/20/19 06:46	12/14/19 19:44	1
13C4 PFOS	90		25 - 150	11/20/19 06:46	12/14/19 19:44	1
d3-NMeFOSAA	43		25 - 150	11/20/19 06:46	12/14/19 19:44	1
d5-NEtFOSAA	45		25 - 150	11/20/19 06:46	12/14/19 19:44	1

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	2440		30.0	14.7	mg/Kg	☼	11/19/19 07:02	11/20/19 00:11	4
Silver	2.0	U	2.0	0.19	mg/Kg	☼	11/19/19 07:02	11/20/19 00:11	4
Aluminum	1340		40.0	11.3	mg/Kg	☼	11/19/19 07:02	11/20/19 00:11	4
Arsenic	3.0	U	3.0	1.2	mg/Kg	☼	11/19/19 07:02	11/20/19 00:11	4
Boron	3.3	J	10.0	2.8	mg/Kg	☼	11/19/19 07:02	11/20/19 00:11	4
Barium	4.2	J	40.0	2.2	mg/Kg	☼	11/19/19 07:02	11/20/19 00:11	4
Beryllium	0.40	U	0.40	0.089	mg/Kg	☼	11/19/19 07:02	11/20/19 00:11	4
Calcium	511	J	1000	59.0	mg/Kg	☼	11/19/19 07:02	11/20/19 00:11	4
Cadmium	0.80	U	0.80	0.14	mg/Kg	☼	11/19/19 07:02	11/20/19 00:11	4
Cobalt	10.0	U	10.0	1.2	mg/Kg	☼	11/19/19 07:02	11/20/19 00:11	4
Chromium	2.2		2.0	0.36	mg/Kg	☼	11/19/19 07:02	11/20/19 00:11	4
Copper	5.0	U	5.0	2.7	mg/Kg	☼	11/19/19 07:02	11/20/19 00:11	4

Eurofins TestAmerica, Edison

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196258-1

Client Sample ID: WSG-S20-0.5-2.0-0

Lab Sample ID: 460-196258-30

Date Collected: 11/08/19 10:35

Matrix: Solid

Date Received: 11/08/19 20:00

Percent Solids: 97.0

Method: 6010D - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	85.2	J	1000	62.3	mg/Kg	☼	11/19/19 07:02	11/20/19 00:11	4
Magnesium	289	J	1000	58.4	mg/Kg	☼	11/19/19 07:02	11/20/19 00:11	4
Manganese	51.3		3.0	0.35	mg/Kg	☼	11/19/19 07:02	11/20/19 00:11	4
Molybdenum	4.0	U	4.0	0.95	mg/Kg	☼	11/19/19 07:02	11/20/19 00:11	4
Sodium	1000	U	1000	80.5	mg/Kg	☼	11/19/19 07:02	11/20/19 00:11	4
Nickel	1.6	J	8.0	0.74	mg/Kg	☼	11/19/19 07:02	11/20/19 00:11	4
Lead	2.1		2.0	0.52	mg/Kg	☼	11/19/19 07:02	11/20/19 00:11	4
Antimony	4.0	U	4.0	1.1	mg/Kg	☼	11/19/19 07:02	11/20/19 00:11	4
Selenium	4.0	U	4.0	2.4	mg/Kg	☼	11/19/19 07:02	11/20/19 00:11	4
Tin	10.0	U	10.0	6.4	mg/Kg	☼	11/19/19 07:02	11/20/19 00:11	4
Strontium	2.8	J	4.0	0.40	mg/Kg	☼	11/19/19 07:02	11/20/19 00:11	4
Titanium	53.7		4.0	0.60	mg/Kg	☼	11/19/19 07:02	11/20/19 00:11	4
Thallium	4.0	U	4.0	0.64	mg/Kg	☼	11/19/19 07:02	11/20/19 00:11	4
Vanadium	3.4	J	10.0	0.66	mg/Kg	☼	11/19/19 07:02	11/20/19 00:11	4
Zinc	6.0	U	6.0	4.7	mg/Kg	☼	11/19/19 07:02	11/20/19 00:11	4

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.016	U	0.016	0.0092	mg/Kg	☼	11/15/19 04:40	11/15/19 09:49	1

ANALYTICAL REPORT

Job Number: 460-196259-1

Job Description: DEC - WAINSCOTT SAND & GRAVEL SITE:15225

For:
New York State D.E.C.
625 Broadway
Division of Environmental Remediation
Albany, NY 12233-7014
Attention: Mr. Jared Donaldson



Approved for release.
Julie L Gilmore
Project Manager I
12/16/2019 10:47 AM

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12/16/2019

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

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CASE NARRATIVE

Client: New York State D.E.C.

Project: DEC - WAINSCOTT SAND & GRAVEL SITE:15225

Report Number: 460-196259-1

This case narrative is in the form of an exception report, where only the anomalies related to this report, method specific performance and/or QA/QC issues are discussed. If there are no issues to report, this narrative will include a statement that documents that there are no relevant data issues.

It should be noted that samples with elevated Reporting Limits (RLs) as a result of a dilution may not be able to satisfy customer reporting limits in some cases. Such increases in the RLs are unavoidable but acceptable consequence of sample dilution that enables quantification of target analytes or interferences which exceed the calibration range of the instrument.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 11/06/2019; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was C.

Note: All samples which require thermal preservation are considered acceptable if the arrival temperature is within 2C of the required temperature or method specified range. For samples with a specified temperature of 4C, samples with a temperature ranging from just above freezing temperature of water to 6C shall be acceptable. Samples that are hand delivered immediately following collection may not meet these criteria, however they will be deemed acceptable according to NELAC standards, if there is evidence that the chilling process has begun, such as arrival on ice, etc.

1,1,1-Trichloroethane and 1,2-Dichloroethane failed the recovery criteria high for LCS 460-655201/3. 1,2-Dichloroethane failed the recovery criteria high for LCSD 460-655407/4. Refer to the QC report for details.

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples WSG-DEB-GR-0 (460-196259-18), WSG-GS3-0.0-0.2-0 (460-196259-20), WSG-GS3-0.5-2.0-0 (460-196259-21), WSG-GS4-0.0-0.2-0 (460-196259-23), WSG-GS4-0.5-2.0-0 (460-196259-24), WSG-GS7-0.0-0.2-0 (460-196259-25), WSG-GS7-0.5-2.0-0 (460-196259-26), WSG-GS8-0.0-0.2-0 (460-196259-29), WSG-GS8-0.5-2.0-0 (460-196259-30), WSG-GS5-0.0-0.2-0 (460-196259-31) and WSG-GS5-0.5-2.0-0 (460-196259-32) were analyzed for Volatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8260C. The samples were prepared on 11/13/2019 and analyzed on 11/14/2019 and 11/15/2019.

The laboratory control sample duplicate (LCSD) for analytical batch 460-655407 recovered outside control limits for the following analyte: 1,2-Dichloroethane. This analyte was biased high in the LCSD and was not detected in the associated samples; therefore, the data have been reported.

The continuing calibration verification (CCV) associated with batch 460-655201 recovered above the upper control limit for Trichlorofluoromethane, 1,2-Dichloroethane, 1,1,1-Trichloroethane and Carbon tetrachloride. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

The laboratory control sample (LCS) for analytical batch 460-655201 recovered outside control limits for the following analytes: 1,1,1-Trichloroethane and 1,2-Dichloroethane. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

No difficulties were encountered during the volatiles analysis.

All quality control parameters were within the acceptance limits.

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples WSG-GW7-6-0 (460-196259-39) and WSG-TB-20191106 (460-196259-42) were analyzed for Volatile organic compounds (GC-MS) in accordance with EPA SW-846 Methods 8260C. The samples were analyzed on 11/16/2019 and 11/17/2019.

Several analytes failed the recovery criteria high for the MSD of sample 460-196258-1 in batch 460-655793.

Refer to the QC report for details.

No other difficulties were encountered during the volatiles analysis.

All other quality control parameters were within the acceptance limits.

SEMIVOLATILE ORGANIC COMPOUNDS (GC/MS)

Sample WSG-GW7-6-0 (460-196259-39) was analyzed for semivolatile organic compounds (GC/MS) in accordance with EPA SW-846 Method 8270D. The samples were prepared on 11/12/2019 and analyzed on 11/13/2019.

The continuing calibration verification (CCV) analyzed in batch 460-654768 was outside the method criteria for the following analyte(s): Benzo[g,h,i]perylene and Di-n-octyl phthalate. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for batch preparation batch 460-654671 and analytical batch 460-654768 recovered outside control limits for the following analytes: Atrazine and Caprolactam.

The continuing calibration verification (CCV) associated with batch 460-654768 recovered above the upper control limit for Atrazine. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Surrogates recoveries for the following laboratory control sample duplicate (LCSD) associated with batch 460-654671 were outside limits. Sample has been reported.

2-Fluorophenol (Surr) and Phenol-d5 (Surr) failed the surrogate recovery criteria low for LCSD 460-654671/5-A. Refer to the QC report for details.

Atrazine and Caprolactam exceeded the RPD limit for LCSD 460-654671/5-A. Refer to the QC report for details.

No other difficulties were encountered during the semivolatiles analysis.

All other quality control parameters were within the acceptance limits.

SEMIVOLATILE ORGANIC COMPOUNDS - SELECTED ION MODE (SIM)

Sample WSG-GW7-6-0 (460-196259-39) was analyzed for semivolatile organic compounds - Selected Ion Mode (SIM) in accordance with EPA SW-846 Method 8270D SIM. The samples were prepared on 11/12/2019 and analyzed on 11/13/2019.

No difficulties were encountered during the SVOC SIM analysis.

All quality control parameters were within the acceptance limits.

ORGANOCHLORINE PESTICIDES AND POLYCHLORINATED BIPHENYLS BY GAS CHROMATOGRAPHY

Sample WSG-GW7-6-0 (460-196259-39) was analyzed for Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography in accordance with 608.3. The samples were prepared on 11/12/2019 and analyzed on 11/18/2019.

The laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 460-654775 and analytical batch 460-656200 recovered outside control limits for the following analytes Endrin ketone on the secondary column, Endosulfan sulfate and Endrin on the primary column. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

The continuing calibration verification (CCV) for Decachlorobiphenyl recovered outside the lower control limit on the secondary column but within control limits on the primary column. The samples associated with this CCV were non-detected, The data have been qualified and reported. (CCVIS 460-656200/3)

Endrin ketone failed the recovery criteria high for LCS 460-654775/2-A. Endrin ketone failed the recovery criteria high for LCSD 460-654775/3-A. Refer to the QC report for details.

Endrin ketone failed the recovery criteria high for the MS/MSD of sample 460-196258-1 in batch 460-656200.

Refer to the QC report for details.

No other difficulties were encountered during the Pesticides/PCBs analysis.

All other quality control parameters were within the acceptance limits.

PESTICIDES

Samples WSG-DEB-GR-0 (460-196259-18), WSG-GS3-0.0-0.2-0 (460-196259-20), WSG-GS3-0.5-2.0-0 (460-196259-21), WSG-GS4-0.0-0.2-0 (460-196259-23), WSG-GS4-0.5-2.0-0 (460-196259-24), WSG-GS7-0.0-0.2-0 (460-196259-25), WSG-GS7-0.5-2.0-0 (460-196259-26), WSG-GS8-0.0-0.2-0 (460-196259-29), WSG-GS8-0.5-2.0-0 (460-196259-30), WSG-GS5-0.0-0.2-0 (460-196259-31) and WSG-GS5-0.5-2.0-0 (460-196259-32) were analyzed for Pesticides in accordance with EPA SW-846 Methods 8081B. The samples were prepared on 11/12/2019 and analyzed on 11/14/2019.

The %RPD between the primary and confirmation column exceeded 40% for 4,4'-DDT for the following sample: WSG-GS3-0.0-0.2-0 (460-196259-20). The lower value(s) has been reported and qualified in accordance with the laboratory's SOP.

Beta-BHC failed the recovery criteria high for the MSD of sample 460-196231-3 in batch 460-655186.

Refer to the QC report for details.

No other difficulties were encountered during the Pesticides analysis.

All other quality control parameters were within the acceptance limits.

POLYCHLORINATED BIPHENYLS

Samples WSG-DEB-GR-0 (460-196259-18), WSG-GS3-0.0-0.2-0 (460-196259-20), WSG-GS3-0.5-2.0-0 (460-196259-21), WSG-GS4-0.0-0.2-0 (460-196259-23), WSG-GS4-0.5-2.0-0 (460-196259-24), WSG-GS7-0.0-0.2-0 (460-196259-25), WSG-GS7-0.5-2.0-0 (460-196259-26), WSG-GS8-0.0-0.2-0 (460-196259-29), WSG-GS8-0.5-2.0-0 (460-196259-30), WSG-GS5-0.0-0.2-0 (460-196259-31) and WSG-GS5-0.5-2.0-0 (460-196259-32) were analyzed for polychlorinated biphenyls in accordance with EPA SW-846 Method 8082A. The samples were prepared on 11/12/2019 and analyzed on 11/13/2019.

No difficulties were encountered during the PCBs analysis.

All quality control parameters were within the acceptance limits.

CHLORINATED HERBICIDES

Samples WSG-DEB-GR-0 (460-196259-18), WSG-GS3-0.0-0.2-0 (460-196259-20), WSG-GS3-0.5-2.0-0 (460-196259-21), WSG-GS4-0.0-0.2-0 (460-196259-23), WSG-GS4-0.5-2.0-0 (460-196259-24), WSG-GS7-0.0-0.2-0 (460-196259-25), WSG-GS7-0.5-2.0-0 (460-196259-26), WSG-GS8-0.0-0.2-0 (460-196259-29), WSG-GS8-0.5-2.0-0 (460-196259-30), WSG-GS5-0.0-0.2-0 (460-196259-31) and WSG-GS5-0.5-2.0-0 (460-196259-32) were analyzed for chlorinated herbicides in accordance with EPA SW-846 Method 8151A. The samples were prepared and analyzed on 11/13/2019.

The 2,4-Dichlorophenylacetic acid surrogate recovery for the following samples was outside acceptance limits (high biased) on the primary column due to matrix interference: WSG-GS4-0.5-2.0-0 (460-196259-24), WSG-GS7-0.0-0.2-0 (460-196259-25) and WSG-GS7-0.5-2.0-0 (460-196259-26). The recovery is within acceptance limits on the other column, indicating that the extraction process was in control.

The continuing calibration verification (CCV) associated with batch 460-654976 recovered above the upper control limit for Silvex (2,4,5-TP). The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

The continuing calibration verification (CCV) associated with batch 460-654976 recovered above the upper control limit for Silvex (2,4,5-TP). The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

The laboratory control sample duplicate (LCSD) for preparation batch 460-654862 and analytical batch 460-655037 recovered outside control limits for the following analytes: Silvex (2,4,5-TP) and 2,4,5-T. These analytes were biased low in the LCSD but within control limits for LCS and were not detected in the associated samples; therefore, the data have been reported.

2,4-Dichlorophenylacetic acid failed the surrogate recovery criteria high for WSG-GS4-0.5-2.0-0 (460-196259-24).

2,4-Dichlorophenylacetic acid failed the surrogate recovery criteria high for WSG-GS7-0.0-0.2-0 (460-196259-25).

2,4-Dichlorophenylacetic acid failed the surrogate recovery criteria high for WSG-GS7-0.5-2.0-0 (460-196259-26).

2,4-Dichlorophenylacetic acid failed the surrogate recovery criteria high for 460-196258-A-20-B MSD. Refer to the QC report for details.

2,4,5-T and Silvex (2,4,5-TP) failed the recovery criteria low for LCSD 460-654862/3-A. Refer to the QC report for details.

No other difficulties were encountered during the herbicides analysis.

All other quality control parameters were within the acceptance limits.

CHLORINATED HERBICIDES

Sample WSG-GW7-6-0 (460-196259-39) was analyzed for chlorinated herbicides in accordance with EPA SW-846 Method 8151A. The samples were prepared on 11/12/2019 and analyzed on 11/13/2019.

No difficulties were encountered during the herbicides analysis.

All quality control parameters were within the acceptance limits.

SEMIVOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples WSG-DEB-GR-0 (460-196259-18), WSG-GS3-0.0-0.2-0 (460-196259-20), WSG-GS3-0.5-2.0-0 (460-196259-21), WSG-GS4-0.0-0.2-0 (460-196259-23), WSG-GS4-0.5-2.0-0 (460-196259-24), WSG-GS7-0.0-0.2-0 (460-196259-25), WSG-GS7-0.5-2.0-0 (460-196259-26), WSG-GS8-0.0-0.2-0 (460-196259-29), WSG-GS8-0.5-2.0-0 (460-196259-30), WSG-GS5-0.0-0.2-0 (460-196259-31) and WSG-GS5-0.5-2.0-0 (460-196259-32) were analyzed for semivolatile organic compounds

(GC-MS) in accordance with EPA SW-846 Method 8270D. The samples were prepared on 11/13/2019 and analyzed on 11/14/2019.

Several analytes failed the recovery criteria low for the MS/MSD of sample WSG-DEB-GR-0MS/MSD (460-196259-18) in batch 460-655149.

Refer to the QC report for details.

No other difficulties were encountered during the semivolatiles analysis.

All other quality control parameters were within the acceptance limits.

PERFLUORINATED HYDROCARBONS (PFC)

Samples WSG-S14-0.0-0.2-0 (460-196259-1), WSG-S14-0.5-2.0-0 (460-196259-2), WSG-S10-0.0-0.2-0 (460-196259-3), WSG-S10-0.5-2.0-0 (460-196259-4), WSG-S1-0.0-0.2-0 (460-196259-5), WSG-S1-0.5-2.0-0 (460-196259-6), WSG-S11-0.0-0.2-0 (460-196259-7), WSG-S11-0.5-2.0-0 (460-196259-8), WSG-S16-0.0-0.2-0 (460-196259-9), WSG-S16-0.5-2.0-0 (460-196259-10), WSG-S16-0.0-0.2-1 (460-196259-11), WSG-S17-0.0-0.2-0 (460-196259-12), WSG-S17-0.5-2.0-0 (460-196259-13), WSG-S18-0.0-0.2-0 (460-196259-14), WSG-S18-0.5-2.0-0 (460-196259-15), WSG-S23-0.0-0.2-0 (460-196259-16), WSG-S23-0.5-2.0-0 (460-196259-17), WSG-DEB-GR-0 (460-196259-18), WSG-G55-7-8-0 (460-196259-19), WSG-GS3-0.0-0.2-0 (460-196259-20), WSG-GS3-0.5-2.0-0 (460-196259-21), WSG-GS3-4-6-0 (460-196259-22), WSG-GS4-0.0-0.2-0 (460-196259-23), WSG-GS4-0.5-2.0-0 (460-196259-24), WSG-GS7-0.0-0.2-0 (460-196259-25), WSG-GS7-0.5-2.0-0 (460-196259-26), WSG-GS7-2.0-3.5-0 (460-196259-27), WSG-GS4-2.5-3.5-0 (460-196259-28), WSG-GS8-0.0-0.2-0 (460-196259-29), WSG-GS8-0.5-2.0-0 (460-196259-30), WSG-GS5-0.0-0.2-0 (460-196259-31), WSG-GS5-0.5-2.0-0 (460-196259-32), WSG-S15-0.0-0.2-0 (460-196259-33), WSG-S15-0.5-2.0-0 (460-196259-34), WSG-S12-0.0-0.2-0 (460-196259-35), WSG-S12-0.5-2.0-0 (460-196259-36), WSG-S13-0.0-0.2-0 (460-196259-37) and WSG-S13-0.5-2.0-0 (460-196259-38) were analyzed for Perfluorinated Hydrocarbons (PFC) in accordance with PFC. The samples were prepared on 11/18/2019, 11/19/2019 and 12/04/2019 and analyzed on 11/30/2019, 12/02/2019, 12/06/2019 and 12/12/2019.

Perfluorooctanesulfonic acid (PFOS) was detected in method blank MB 320-339422/1-A at a level exceeding the reporting limit. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Perfluoroheptanoic acid (PFHpA) and Perfluorohexanoic acid (PFHxA) were detected in method blank MB 320-339422/1-A at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

Perfluorobutanesulfonic acid (PFBS) failed the recovery criteria high for LCS 320-339787/2-A. Refer to the QC report for details.

No other difficulties were encountered during the Perfluorinated Hydrocarbons (PFC) analysis.

All other quality control parameters were within the acceptance limits.

PERFLUORINATED HYDROCARBONS (PFC)

Samples WSG-GW7-6-0 (460-196259-39), WSG-GW7-15-0 (460-196259-40), WSG-MW8-25-0 (460-196259-43), WSG-MW8-25-1 (460-196259-44), WSG-GW5-28-0 (460-196259-45), WSG-MW2-10-0 (460-196259-46) and WSG-GW5-18-0 (460-196259-47) were analyzed for Perfluorinated Hydrocarbons (PFC) in accordance with PFC. The samples were prepared on 11/14/2019 and analyzed on 11/15/2019.

Perfluorohexanesulfonic acid (PFHxS) and Perfluorotetradecanoic acid (PFTeA) were detected in method blank MB 320-338444/1-A at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

Perfluorotridecanoic acid (PFTriA) exceeded the RPD limit for LCSD 320-338444/3-A. Refer to the QC report for details.

No other difficulties were encountered during the Perfluorinated Hydrocarbons (PFC) analysis.

All other quality control parameters were within the acceptance limits.

TOTAL METALS (ICP)

Samples WSG-DEB-GR-0 (460-196259-18), WSG-GS3-0.0-0.2-0 (460-196259-20), WSG-GS3-0.5-2.0-0 (460-196259-21), WSG-GS4-0.0-0.2-0 (460-196259-23), WSG-GS4-0.5-2.0-0 (460-196259-24), WSG-GS7-0.0-0.2-0 (460-196259-25), WSG-GS7-0.5-2.0-0 (460-196259-26), WSG-GS8-0.0-0.2-0 (460-196259-29), WSG-GS8-0.5-2.0-0 (460-196259-30), WSG-GS5-0.0-0.2-0 (460-196259-31) and WSG-GS5-0.5-2.0-0 (460-196259-32) were analyzed for Total Metals (ICP) in accordance with EPA SW-846 Methods 6010D. The samples were prepared on 11/15/2019 and analyzed on 11/16/2019.

Samples WSG-DEB-GR-0 (460-196259-18)[4X], WSG-GS3-0.0-0.2-0 (460-196259-20)[4X], WSG-GS3-0.5-2.0-0 (460-196259-21)[4X], WSG-GS4-0.0-0.2-0 (460-196259-23)[4X], WSG-GS4-0.5-2.0-0 (460-196259-24)[4X], WSG-GS7-0.0-0.2-0 (460-196259-25)[4X], WSG-GS7-0.5-2.0-0 (460-196259-26)[4X], WSG-GS8-0.0-0.2-0 (460-196259-29)[4X], WSG-GS8-0.5-2.0-0 (460-196259-30)[4X], WSG-GS5-0.0-0.2-0 (460-196259-31)[4X] and WSG-GS5-0.5-2.0-0 (460-196259-32)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No difficulties were encountered during the Total Metals (ICP) analysis.

All quality control parameters were within the acceptance limits.

METALS

Sample WSG-GW7-6-0 (460-196259-39) was analyzed for Metals in accordance with 6010D. The samples were prepared and analyzed on 11/18/2019.

For the duplicate of sample 460-196374-2. Refer to the QC report for details.

No other difficulties were encountered during the Metals analysis.

All other quality control parameters were within the acceptance limits.

TOTAL MERCURY

Sample WSG-GW7-6-0 (460-196259-39) was analyzed for total mercury in accordance with EPA SW-846 Methods 7470A. The samples were prepared and analyzed on 11/18/2019.

No difficulties were encountered during the Hg analysis.

All quality control parameters were within the acceptance limits.

TOTAL MERCURY

Samples WSG-DEB-GR-0 (460-196259-18), WSG-GS3-0.0-0.2-0 (460-196259-20), WSG-GS3-0.5-2.0-0 (460-196259-21), WSG-GS4-0.0-0.2-0 (460-196259-23), WSG-GS4-0.5-2.0-0 (460-196259-24), WSG-GS7-0.0-0.2-0 (460-196259-25), WSG-GS7-0.5-2.0-0 (460-196259-26), WSG-GS8-0.0-0.2-0 (460-196259-29), WSG-GS8-0.5-2.0-0 (460-196259-30), WSG-GS5-0.0-0.2-0 (460-196259-31) and WSG-GS5-0.5-2.0-0 (460-196259-32) were analyzed for total mercury in accordance with EPA SW-846 Method 7471B. The samples were prepared and analyzed on 11/15/2019.

Mercury failed the recovery criteria low for the MS of sample 460-195711-4 in batch 460-655633.

Refer to the QC report for details.

No other difficulties were encountered during the Hg analysis.

All other quality control parameters were within the acceptance limits.

PERCENT SOLIDS/PERCENT MOISTURE

Samples WSG-S14-0.0-0.2-0 (460-196259-1), WSG-S14-0.5-2.0-0 (460-196259-2), WSG-S10-0.0-0.2-0 (460-196259-3), WSG-S10-0.5-2.0-0 (460-196259-4), WSG-S1-0.0-0.2-0 (460-196259-5), WSG-S1-0.5-2.0-0 (460-196259-6), WSG-S11-0.0-0.2-0 (460-196259-7), WSG-S11-0.5-2.0-0 (460-196259-8), WSG-S16-0.0-0.2-0 (460-196259-9), WSG-S16-0.5-2.0-0 (460-196259-10), WSG-S16-0.0-0.2-1 (460-196259-11), WSG-S17-0.0-0.2-0 (460-196259-12), WSG-S17-0.5-2.0-0 (460-196259-13), WSG-S18-0.0-0.2-0 (460-196259-14), WSG-S18-0.5-2.0-0 (460-196259-15), WSG-S23-0.0-0.2-0 (460-196259-16), WSG-S23-0.5-2.0-0 (460-196259-17), WSG-DEB-GR-0 (460-196259-18), WSG-G55-7-8-0 (460-196259-19), WSG-GS3-0.0-0.2-0 (460-196259-20), WSG-GS3-0.5-2.0-0 (460-196259-21), WSG-GS3-4-6-0 (460-196259-22), WSG-GS4-0.0-0.2-0 (460-196259-23), WSG-GS4-0.5-2.0-0 (460-196259-24), WSG-GS7-0.0-0.2-0 (460-196259-25), WSG-GS7-0.5-2.0-0 (460-196259-26), WSG-GS7-2.0-3.5-0 (460-196259-27), WSG-GS4-2.5-3.5-0 (460-196259-28), WSG-GS8-0.0-0.2-0 (460-196259-29), WSG-GS8-0.5-2.0-0 (460-196259-30), WSG-GS5-0.0-0.2-0 (460-196259-31), WSG-GS5-0.5-2.0-0 (460-196259-32), WSG-S15-0.0-0.2-0 (460-196259-33), WSG-S15-0.5-2.0-0 (460-196259-34), WSG-S12-0.0-0.2-0 (460-196259-35), WSG-S12-0.5-2.0-0 (460-196259-36), WSG-S13-0.0-0.2-0 (460-196259-37) and WSG-S13-0.5-2.0-0 (460-196259-38) were analyzed for percent solids/percent moisture in accordance with EPA Method CLPISM01.2 (Exhibit D) Modified. The samples were analyzed on 11/13/2019 and 11/14/2019.

The sample duplicate (DUP) precision for analytical batch 320-338704 was outside control limits. Sample non-homogeneity is suspected. Sample matrix consisted of mud. Data is being reported with this narration.

WSG-S14-0.0-0.2-0 (460-196259-1) and (460-196259-A-1 DU)

Percent Moisture exceeded the RPD limit for the duplicate of sample WSG-S14-0.0-0.2-0DU (460-196259-1). Refer to the QC report for details.

No other difficulties were encountered during the %solids/moisture analysis.

All other quality control parameters were within the acceptance limits.

ORGANIC PREP

Method 3535: The following samples are light yellow and contain a thin layer of sediment at the bottom of the bottle prior to extraction: WSG-GW5-28-0 (460-196259-45) and WSG-GW5-18-0 (460-196259-47)

Method 3535: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 320-338444.

Method 3535: During the solid phase extraction process, the following samples contain non-settable particulates which clogged the extraction column: WSG-GW5-28-0 (460-196259-45) and WSG-GW5-18-0 (460-196259-47).

Method SHAKE: The following samples: WSG-S18-0.5-2.0-0 (460-196259-15), WSG-S23-0.0-0.2-0 (460-196259-16), WSG-GS7-0.0-0.2-0 (460-196259-25), WSG-GS5-0.0-0.2-0 (460-196259-31), (460-196259-A-15 MS) and (460-196259-A-15 MSD) were observed to be yellow after the final volume.

Method SHAKE: The following sample WSG-S15-0.0-0.2-0 (460-196259-33) was yellow after the final volume.

Method SHAKE: The following samples were re-prepared outside of preparation holding time due to RX for Method Blank hit for PFOS: WSG-S18-0.5-2.0-0 (460-196259-15), WSG-S23-0.0-0.2-0 (460-196259-16), WSG-GS4-2.5-3.5-0 (460-196259-28), WSG-GS8-0.5-2.0-0 (460-196259-30), WSG-GS5-0.0-0.2-0 (460-196259-31), WSG-S12-0.5-2.0-0 (460-196259-36) and WSG-S13-0.0-0.2-0 (460-196259-37).

Method SHAKE: The following samples: WSG-GS5-0.0-0.2-0 (460-196259-31) were yellow after the final volume.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Sample Summary

Client: New York State D.E.C.

Job ID: 460-196259-1

Project/Site: DEC - WAINSCOTT SAND & GRAVEL

SITE:15225

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
460-196259-1	WSG-S14-0.0-0.2-0	Solid	11/05/19 09:10	11/06/19 18:40	
460-196259-2	WSG-S14-0.5-2.0-0	Solid	11/05/19 09:20	11/06/19 18:40	
460-196259-3	WSG-S10-0.0-0.2-0	Solid	11/05/19 09:35	11/06/19 18:40	
460-196259-4	WSG-S10-0.5-2.0-0	Solid	11/05/19 09:45	11/06/19 18:40	
460-196259-5	WSG-S1-0.0-0.2-0	Solid	11/05/19 09:55	11/06/19 18:40	
460-196259-6	WSG-S1-0.5-2.0-0	Solid	11/05/19 10:05	11/06/19 18:40	
460-196259-7	WSG-S11-0.0-0.2-0	Solid	11/05/19 10:20	11/06/19 18:40	
460-196259-8	WSG-S11-0.5-2.0-0	Solid	11/05/19 10:30	11/06/19 18:40	
460-196259-9	WSG-S16-0.0-0.2-0	Solid	11/05/19 10:45	11/06/19 18:40	
460-196259-10	WSG-S16-0.5-2.0-0	Solid	11/05/19 10:55	11/06/19 18:40	
460-196259-11	WSG-S16-0.0-0.2-1	Solid	11/05/19 10:45	11/06/19 18:40	
460-196259-12	WSG-S17-0.0-0.2-0	Solid	11/05/19 13:35	11/06/19 18:40	
460-196259-13	WSG-S17-0.5-2.0-0	Solid	11/05/19 13:45	11/06/19 18:40	
460-196259-14	WSG-S18-0.0-0.2-0	Solid	11/05/19 14:00	11/06/19 18:40	
460-196259-15	WSG-S18-0.5-2.0-0	Solid	11/05/19 14:10	11/06/19 18:40	
460-196259-16	WSG-S23-0.0-0.2-0	Solid	11/05/19 14:20	11/06/19 18:40	
460-196259-17	WSG-S23-0.5-2.0-0	Solid	11/05/19 14:30	11/06/19 18:40	
460-196259-18	WSG-DEB-GR-0	Solid	11/05/19 12:10	11/06/19 18:40	
460-196259-19	WSG-G55-7-8-0	Solid	11/05/19 12:55	11/06/19 18:40	
460-196259-20	WSG-GS3-0.0-0.2-0	Solid	11/05/19 13:25	11/06/19 18:40	
460-196259-21	WSG-GS3-0.5-2.0-0	Solid	11/05/19 13:30	11/06/19 18:40	
460-196259-22	WSG-GS3-4-6-0	Solid	11/05/19 13:40	11/06/19 18:40	
460-196259-23	WSG-GS4-0.0-0.2-0	Solid	11/04/19 09:00	11/06/19 18:40	
460-196259-24	WSG-GS4-0.5-2.0-0	Solid	11/04/19 09:10	11/06/19 18:40	
460-196259-25	WSG-GS7-0.0-0.2-0	Solid	11/04/19 10:20	11/06/19 18:40	
460-196259-26	WSG-GS7-0.5-2.0-0	Solid	11/04/19 10:30	11/06/19 18:40	
460-196259-27	WSG-GS7-2.0-3.5-0	Solid	11/04/19 10:40	11/06/19 18:40	
460-196259-28	WSG-GS4-2.5-3.5-0	Solid	11/04/19 09:20	11/06/19 18:40	
460-196259-29	WSG-GS8-0.0-0.2-0	Solid	11/04/19 11:20	11/06/19 18:40	
460-196259-30	WSG-GS8-0.5-2.0-0	Solid	11/04/19 11:30	11/06/19 18:40	
460-196259-31	WSG-GS5-0.0-0.2-0	Solid	11/04/19 13:20	11/06/19 18:40	
460-196259-32	WSG-GS5-0.5-2.0-0	Solid	11/04/19 13:30	11/06/19 18:40	
460-196259-33	WSG-S15-0.0-0.2-0	Solid	11/05/19 11:50	11/06/19 18:40	
460-196259-34	WSG-S15-0.5-2.0-0	Solid	11/05/19 12:00	11/06/19 18:40	
460-196259-35	WSG-S12-0.0-0.2-0	Solid	11/04/19 16:05	11/06/19 18:40	
460-196259-36	WSG-S12-0.5-2.0-0	Solid	11/04/19 16:15	11/06/19 18:40	
460-196259-37	WSG-S13-0.0-0.2-0	Solid	11/04/19 15:45	11/06/19 18:40	
460-196259-38	WSG-S13-0.5-2.0-0	Solid	11/04/19 15:55	11/06/19 18:40	
460-196259-39	WSG-GW7-6-0	Water	11/05/19 11:45	11/06/19 18:40	
460-196259-40	WSG-GW7-15-0	Water	11/05/19 10:45	11/06/19 18:40	
460-196259-42	WSG-TB-20191106	Water	11/06/19 00:00	11/06/19 18:40	
460-196259-43	WSG-MW8-25-0	Water	11/06/19 10:00	11/06/19 18:40	
460-196259-44	WSG-MW8-25-1	Water	11/06/19 10:00	11/06/19 18:40	
460-196259-45	WSG-GW5-28-0	Water	11/06/19 10:20	11/06/19 18:40	
460-196259-46	WSG-MW2-10-0	Water	11/06/19 11:10	11/06/19 18:40	
460-196259-47	WSG-GW5-18-0	Water	11/06/19 11:25	11/06/19 18:40	

Detection Summary

Client: New York State D.E.C.
Project/Site: DEC - WAINSCOTT SAND & GRAVEL
SITE:15225

Job ID: 460-196259-1

Client Sample ID: WSG-S14-0.0-0.2-0

Lab Sample ID: 460-196259-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid (PFHxA)	0.070	J	0.21	0.044	ug/Kg	1	☒	537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	0.057	J	0.21	0.031	ug/Kg	1	☒	537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	0.20	J	0.21	0.091	ug/Kg	1	☒	537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	0.066	J	0.21	0.038	ug/Kg	1	☒	537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	0.046	J	0.21	0.023	ug/Kg	1	☒	537 (modified)	Total/NA
Perfluoroundecanoic acid (PFUnA)	0.070	J	0.21	0.038	ug/Kg	1	☒	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.52	J	0.53	0.21	ug/Kg	1	☒	537 (modified)	Total/NA

Client Sample ID: WSG-S14-0.5-2.0-0

Lab Sample ID: 460-196259-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorononanoic acid (PFNA)	0.053	J	0.24	0.043	ug/Kg	1	☒	537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	0.052	J	0.24	0.026	ug/Kg	1	☒	537 (modified)	Total/NA
Perfluoroundecanoic acid (PFUnA)	0.060	J	0.24	0.043	ug/Kg	1	☒	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.59		0.59	0.24	ug/Kg	1	☒	537 (modified)	Total/NA

Client Sample ID: WSG-S10-0.0-0.2-0

Lab Sample ID: 460-196259-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorononanoic acid (PFNA)	0.049	J	0.27	0.048	ug/Kg	1	☒	537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	0.047	J	0.27	0.029	ug/Kg	1	☒	537 (modified)	Total/NA
Perfluoroundecanoic acid (PFUnA)	0.13	J	0.27	0.048	ug/Kg	1	☒	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.51	J	0.67	0.27	ug/Kg	1	☒	537 (modified)	Total/NA

Client Sample ID: WSG-S10-0.5-2.0-0

Lab Sample ID: 460-196259-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorodecanoic acid (PFDA)	0.029	J	0.20	0.022	ug/Kg	1	☒	537 (modified)	Total/NA
Perfluoroundecanoic acid (PFUnA)	0.067	J	0.20	0.036	ug/Kg	1	☒	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.61		0.50	0.20	ug/Kg	1	☒	537 (modified)	Total/NA

Client Sample ID: WSG-S1-0.0-0.2-0

Lab Sample ID: 460-196259-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanesulfonic acid (PFOS)	0.60		0.53	0.21	ug/Kg	1	☒	537 (modified)	Total/NA

Client Sample ID: WSG-S1-0.5-2.0-0

Lab Sample ID: 460-196259-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanoic acid (PFOA)	0.090	J	0.21	0.089	ug/Kg	1	☒	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.48	J	0.52	0.21	ug/Kg	1	☒	537 (modified)	Total/NA

Client Sample ID: WSG-S11-0.0-0.2-0

Lab Sample ID: 460-196259-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluoroundecanoic acid (PFUnA)	0.17	J	0.22	0.040	ug/Kg	1	☒	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.79		0.55	0.22	ug/Kg	1	☒	537 (modified)	Total/NA

Client Sample ID: WSG-S11-0.5-2.0-0

Lab Sample ID: 460-196259-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluoroundecanoic acid (PFUnA)	0.038	J	0.21	0.037	ug/Kg	1	☒	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.50	J	0.52	0.21	ug/Kg	1	☒	537 (modified)	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Edison

Detection Summary

Client: New York State D.E.C.
Project/Site: DEC - WAINSCOTT SAND & GRAVEL
SITE:15225

Job ID: 460-196259-1

Client Sample ID: WSG-S16-0.0-0.2-0

Lab Sample ID: 460-196259-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorodecanoic acid (PFDA)	0.025	J	0.22	0.024	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluoroundecanoic acid (PFUnA)	0.078	J	0.22	0.039	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.86		0.54	0.22	ug/Kg	1	☼	537 (modified)	Total/NA

Client Sample ID: WSG-S16-0.5-2.0-0

Lab Sample ID: 460-196259-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorodecanoic acid (PFDA)	0.040	J	0.20	0.022	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.67		0.51	0.20	ug/Kg	1	☼	537 (modified)	Total/NA

Client Sample ID: WSG-S16-0.0-0.2-1

Lab Sample ID: 460-196259-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorodecanoic acid (PFDA)	0.043	J	0.23	0.025	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluoroundecanoic acid (PFUnA)	0.096	J	0.23	0.041	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.68		0.57	0.23	ug/Kg	1	☼	537 (modified)	Total/NA

Client Sample ID: WSG-S17-0.0-0.2-0

Lab Sample ID: 460-196259-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanesulfonic acid (PFOS)	0.36	J	0.78	0.31	ug/Kg	1	☼	537 (modified)	Total/NA

Client Sample ID: WSG-S17-0.5-2.0-0

Lab Sample ID: 460-196259-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanesulfonic acid (PFOS)	0.54	J	0.63	0.25	ug/Kg	1	☼	537 (modified)	Total/NA

Client Sample ID: WSG-S18-0.0-0.2-0

Lab Sample ID: 460-196259-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorodecanoic acid (PFDA)	0.052	J	0.27	0.030	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluoroundecanoic acid (PFUnA)	0.092	J	0.27	0.049	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.51	J	0.68	0.27	ug/Kg	1	☼	537 (modified)	Total/NA

Client Sample ID: WSG-S18-0.5-2.0-0

Lab Sample ID: 460-196259-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorodecanoic acid (PFDA)	0.29	J	0.30	0.033	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluoroundecanoic acid (PFUnA)	0.17	J	0.30	0.054	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorododecanoic acid (PFDoA)	0.11	J	0.30	0.10	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorotridecanoic acid (PFTriA)	0.086	J	0.30	0.077	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.92	B	0.75	0.30	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS) - RE	0.37	J H	0.75	0.30	ug/Kg	1	☼	537 (modified)	Total/NA

Client Sample ID: WSG-S23-0.0-0.2-0

Lab Sample ID: 460-196259-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorodecanoic acid (PFDA)	0.10	J	0.22	0.024	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluoroundecanoic acid (PFUnA)	0.083	J	0.22	0.039	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorododecanoic acid (PFDoA)	0.085	J	0.22	0.073	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	1.03	B	0.54	0.22	ug/Kg	1	☼	537 (modified)	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Edison

Detection Summary

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196259-1

Client Sample ID: WSG-S23-0.5-2.0-0

Lab Sample ID: 460-196259-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorodecanoic acid (PFDA)	0.062	J	0.21	0.023	ug/Kg	1	☒	537 (modified)	Total/NA
Perfluoroundecanoic acid (PFUnA)	0.090	J	0.21	0.038	ug/Kg	1	☒	537 (modified)	Total/NA
Perfluorododecanoic acid (PFDoA)	0.15	J	0.21	0.070	ug/Kg	1	☒	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.35	J	0.52	0.21	ug/Kg	1	☒	537 (modified)	Total/NA

Client Sample ID: WSG-DEB-GR-0

Lab Sample ID: 460-196259-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1'-Biphenyl	40	J	490	6.6	ug/Kg	1	☒	8270D	Total/NA
2-Methylnaphthalene	500		490	14	ug/Kg	1	☒	8270D	Total/NA
Acenaphthylene	31	J	490	5.1	ug/Kg	1	☒	8270D	Total/NA
Benzo[a]anthracene	34	J	49	17	ug/Kg	1	☒	8270D	Total/NA
Benzo[a]pyrene	24	J	49	13	ug/Kg	1	☒	8270D	Total/NA
Benzo[b]fluoranthene	29	J	49	13	ug/Kg	1	☒	8270D	Total/NA
Benzo[k]fluoranthene	13	J	49	9.7	ug/Kg	1	☒	8270D	Total/NA
Chrysene	29	J	490	8.4	ug/Kg	1	☒	8270D	Total/NA
Fluoranthene	53	J	490	17	ug/Kg	1	☒	8270D	Total/NA
Fluorene	46	J	490	6.7	ug/Kg	1	☒	8270D	Total/NA
Naphthalene	600		490	8.6	ug/Kg	1	☒	8270D	Total/NA
Phenanthrene	120	J	490	8.7	ug/Kg	1	☒	8270D	Total/NA
Pyrene	56	J	490	12	ug/Kg	1	☒	8270D	Total/NA
4,4'-DDE	12		10	1.2	ug/Kg	1	☒	8081B	Total/NA
Chlordane (technical)	470		100	24	ug/Kg	1	☒	8081B	Total/NA
Iron	8430		43.2	21.2	mg/Kg	4	☒	6010D	Total/NA
Aluminum	8430		57.6	16.3	mg/Kg	4	☒	6010D	Total/NA
Arsenic	2.6	J	4.3	1.7	mg/Kg	4	☒	6010D	Total/NA
Boron	16.8		14.4	4.0	mg/Kg	4	☒	6010D	Total/NA
Barium	47.5	J	57.6	3.2	mg/Kg	4	☒	6010D	Total/NA
Beryllium	0.40	J	0.58	0.13	mg/Kg	4	☒	6010D	Total/NA
Calcium	120000		1440	84.8	mg/Kg	4	☒	6010D	Total/NA
Cobalt	3.0	J	14.4	1.8	mg/Kg	4	☒	6010D	Total/NA
Chromium	35.9		2.9	0.51	mg/Kg	4	☒	6010D	Total/NA
Copper	23.5		7.2	3.8	mg/Kg	4	☒	6010D	Total/NA
Potassium	624	J	1440	89.6	mg/Kg	4	☒	6010D	Total/NA
Magnesium	6430		1440	83.9	mg/Kg	4	☒	6010D	Total/NA
Manganese	377		4.3	0.50	mg/Kg	4	☒	6010D	Total/NA
Sodium	1680		1440	116	mg/Kg	4	☒	6010D	Total/NA
Nickel	17.2		11.5	1.1	mg/Kg	4	☒	6010D	Total/NA
Lead	9.7		2.9	0.75	mg/Kg	4	☒	6010D	Total/NA
Strontium	491		5.8	0.57	mg/Kg	4	☒	6010D	Total/NA
Titanium	420		5.8	0.87	mg/Kg	4	☒	6010D	Total/NA
Vanadium	28.7		14.4	0.96	mg/Kg	4	☒	6010D	Total/NA
Zinc	209		8.6	6.7	mg/Kg	4	☒	6010D	Total/NA

Client Sample ID: WSG-G55-7-8-0

Lab Sample ID: 460-196259-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanesulfonic acid (PFHxS)	0.033	J	0.21	0.032	ug/Kg	1	☒	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	1.05		0.52	0.21	ug/Kg	1	☒	537 (modified)	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196259-1

Client Sample ID: WSG-GS3-0.0-0.2-0

Lab Sample ID: 460-196259-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	7.9		6.0	3.2	ug/Kg	1	☒	8260C	Total/NA
Acetone	26		7.2	6.8	ug/Kg	1	☒	8260C	Total/NA
Anthracene	26	J	450	14	ug/Kg	1	☒	8270D	Total/NA
Benzaldehyde	66	J	450	20	ug/Kg	1	☒	8270D	Total/NA
Benzo[a]anthracene	41	J	45	16	ug/Kg	1	☒	8270D	Total/NA
Benzo[a]pyrene	42	J	45	12	ug/Kg	1	☒	8270D	Total/NA
Benzo[b]fluoranthene	66		45	12	ug/Kg	1	☒	8270D	Total/NA
Benzo[g,h,i]perylene	110	J	450	13	ug/Kg	1	☒	8270D	Total/NA
Benzo[k]fluoranthene	21	J	45	8.9	ug/Kg	1	☒	8270D	Total/NA
Chrysene	45	J	450	7.7	ug/Kg	1	☒	8270D	Total/NA
Dibenz(a,h)anthracene	21	J	45	20	ug/Kg	1	☒	8270D	Total/NA
Fluoranthene	68	J	450	16	ug/Kg	1	☒	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	98		45	18	ug/Kg	1	☒	8270D	Total/NA
Phenanthrene	33	J	450	8.0	ug/Kg	1	☒	8270D	Total/NA
Pyrene	55	J	450	11	ug/Kg	1	☒	8270D	Total/NA
4,4'-DDD	8.9	J	9.2	1.6	ug/Kg	1	☒	8081B	Total/NA
4,4'-DDE	24		9.2	1.1	ug/Kg	1	☒	8081B	Total/NA
4,4'-DDT	2.5	J p	9.2	1.7	ug/Kg	1	☒	8081B	Total/NA
Perfluorononanoic acid (PFNA)	0.064	J	0.27	0.048	ug/Kg	1	☒	537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	0.057	J	0.27	0.029	ug/Kg	1	☒	537 (modified)	Total/NA
Perfluoroundecanoic acid (PFUnA)	0.057	J	0.27	0.048	ug/Kg	1	☒	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.81		0.67	0.27	ug/Kg	1	☒	537 (modified)	Total/NA
Iron	8020		39.1	19.2	mg/Kg	4	☒	6010D	Total/NA
Aluminum	6890		52.2	14.7	mg/Kg	4	☒	6010D	Total/NA
Arsenic	11.5		3.9	1.5	mg/Kg	4	☒	6010D	Total/NA
Boron	8.7	J	13.0	3.6	mg/Kg	4	☒	6010D	Total/NA
Barium	30.3	J	52.2	2.9	mg/Kg	4	☒	6010D	Total/NA
Beryllium	0.26	J	0.52	0.12	mg/Kg	4	☒	6010D	Total/NA
Calcium	6010		1300	76.8	mg/Kg	4	☒	6010D	Total/NA
Cobalt	2.3	J	13.0	1.6	mg/Kg	4	☒	6010D	Total/NA
Chromium	11.9		2.6	0.46	mg/Kg	4	☒	6010D	Total/NA
Copper	31.7		6.5	3.5	mg/Kg	4	☒	6010D	Total/NA
Potassium	1160	J	1300	81.1	mg/Kg	4	☒	6010D	Total/NA
Magnesium	1670		1300	76.1	mg/Kg	4	☒	6010D	Total/NA
Manganese	133		3.9	0.46	mg/Kg	4	☒	6010D	Total/NA
Sodium	139	J	1300	105	mg/Kg	4	☒	6010D	Total/NA
Nickel	5.4	J	10.4	0.96	mg/Kg	4	☒	6010D	Total/NA
Lead	19.7		2.6	0.68	mg/Kg	4	☒	6010D	Total/NA
Strontium	23.7		5.2	0.52	mg/Kg	4	☒	6010D	Total/NA
Titanium	322		5.2	0.79	mg/Kg	4	☒	6010D	Total/NA
Vanadium	13.9		13.0	0.87	mg/Kg	4	☒	6010D	Total/NA
Zinc	46.7		7.8	6.1	mg/Kg	4	☒	6010D	Total/NA
Mercury	0.052		0.022	0.013	mg/Kg	1	☒	7471B	Total/NA

Client Sample ID: WSG-GS3-0.5-2.0-0

Lab Sample ID: 460-196259-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
4,4'-DDT	9.4		7.7	1.4	ug/Kg	1	☒	8081B	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.33	J	0.56	0.22	ug/Kg	1	☒	537 (modified)	Total/NA
Iron	12000		33.0	16.2	mg/Kg	4	☒	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Edison

Detection Summary

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196259-1

Client Sample ID: WSG-GS3-0.5-2.0-0 (Continued)

Lab Sample ID: 460-196259-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	10700		44.0	12.4	mg/Kg	4	☼	6010D	Total/NA
Arsenic	5.6		3.3	1.3	mg/Kg	4	☼	6010D	Total/NA
Boron	4.2	J	11.0	3.0	mg/Kg	4	☼	6010D	Total/NA
Barium	24.2	J	44.0	2.4	mg/Kg	4	☼	6010D	Total/NA
Beryllium	0.46		0.44	0.098	mg/Kg	4	☼	6010D	Total/NA
Calcium	972	J	1100	64.8	mg/Kg	4	☼	6010D	Total/NA
Cobalt	3.7	J	11.0	1.4	mg/Kg	4	☼	6010D	Total/NA
Chromium	13.5		2.2	0.39	mg/Kg	4	☼	6010D	Total/NA
Copper	10.6		5.5	2.9	mg/Kg	4	☼	6010D	Total/NA
Potassium	862	J	1100	68.4	mg/Kg	4	☼	6010D	Total/NA
Magnesium	1810		1100	64.1	mg/Kg	4	☼	6010D	Total/NA
Manganese	97.7		3.3	0.38	mg/Kg	4	☼	6010D	Total/NA
Nickel	7.5	J	8.8	0.81	mg/Kg	4	☼	6010D	Total/NA
Lead	7.5		2.2	0.58	mg/Kg	4	☼	6010D	Total/NA
Strontium	6.0		4.4	0.44	mg/Kg	4	☼	6010D	Total/NA
Titanium	589		4.4	0.66	mg/Kg	4	☼	6010D	Total/NA
Vanadium	19.1		11.0	0.73	mg/Kg	4	☼	6010D	Total/NA
Zinc	27.8		6.6	5.1	mg/Kg	4	☼	6010D	Total/NA
Mercury	0.021		0.019	0.011	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: WSG-GS3-4-6-0

Lab Sample ID: 460-196259-22

No Detections.

Client Sample ID: WSG-GS4-0.0-0.2-0

Lab Sample ID: 460-196259-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	13	J	35	12	ug/Kg	1	☼	8270D	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.44	J B	0.48	0.19	ug/Kg	1	☼	537 (modified)	Total/NA
Iron	3190		30.7	15.0	mg/Kg	4	☼	6010D	Total/NA
Aluminum	2240		40.9	11.6	mg/Kg	4	☼	6010D	Total/NA
Arsenic	1.4	J	3.1	1.2	mg/Kg	4	☼	6010D	Total/NA
Boron	3.2	J	10.2	2.8	mg/Kg	4	☼	6010D	Total/NA
Barium	17.2	J	40.9	2.3	mg/Kg	4	☼	6010D	Total/NA
Beryllium	0.11	J	0.41	0.091	mg/Kg	4	☼	6010D	Total/NA
Calcium	18900		1020	60.2	mg/Kg	4	☼	6010D	Total/NA
Chromium	7.6		2.0	0.36	mg/Kg	4	☼	6010D	Total/NA
Copper	4.8	J	5.1	2.7	mg/Kg	4	☼	6010D	Total/NA
Potassium	757	J	1020	63.6	mg/Kg	4	☼	6010D	Total/NA
Magnesium	1020		1020	59.6	mg/Kg	4	☼	6010D	Total/NA
Manganese	66.6		3.1	0.36	mg/Kg	4	☼	6010D	Total/NA
Sodium	83.9	J	1020	82.2	mg/Kg	4	☼	6010D	Total/NA
Nickel	3.7	J	8.2	0.75	mg/Kg	4	☼	6010D	Total/NA
Lead	3.9		2.0	0.53	mg/Kg	4	☼	6010D	Total/NA
Strontium	77.5		4.1	0.41	mg/Kg	4	☼	6010D	Total/NA
Titanium	136		4.1	0.62	mg/Kg	4	☼	6010D	Total/NA
Vanadium	8.0	J	10.2	0.68	mg/Kg	4	☼	6010D	Total/NA
Zinc	23.8		6.1	4.8	mg/Kg	4	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Edison

Detection Summary

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196259-1

Client Sample ID: WSG-GS4-0.5-2.0-0

Lab Sample ID: 460-196259-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
4,4'-DDE	8.4		7.1	0.84	ug/Kg	1	☒	8081B	Total/NA
4,4'-DDT	2.9	J	7.1	1.3	ug/Kg	1	☒	8081B	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.37	J B	0.51	0.20	ug/Kg	1	☒	537 (modified)	Total/NA
Iron	3910		29.9	14.7	mg/Kg	4	☒	6010D	Total/NA
Aluminum	2830		39.9	11.3	mg/Kg	4	☒	6010D	Total/NA
Arsenic	1.4	J	3.0	1.2	mg/Kg	4	☒	6010D	Total/NA
Boron	3.1	J	10	2.8	mg/Kg	4	☒	6010D	Total/NA
Barium	22.5	J	39.9	2.2	mg/Kg	4	☒	6010D	Total/NA
Beryllium	0.15	J	0.40	0.089	mg/Kg	4	☒	6010D	Total/NA
Calcium	22900		997	58.7	mg/Kg	4	☒	6010D	Total/NA
Chromium	7.9		2.0	0.36	mg/Kg	4	☒	6010D	Total/NA
Copper	5.7		5.0	2.7	mg/Kg	4	☒	6010D	Total/NA
Potassium	1020		997	62.0	mg/Kg	4	☒	6010D	Total/NA
Magnesium	1350		997	58.1	mg/Kg	4	☒	6010D	Total/NA
Manganese	81.6		3.0	0.35	mg/Kg	4	☒	6010D	Total/NA
Sodium	137	J	997	80.2	mg/Kg	4	☒	6010D	Total/NA
Nickel	4.0	J	8.0	0.73	mg/Kg	4	☒	6010D	Total/NA
Lead	7.1		2.0	0.52	mg/Kg	4	☒	6010D	Total/NA
Strontium	99.2		4.0	0.40	mg/Kg	4	☒	6010D	Total/NA
Titanium	157		4.0	0.60	mg/Kg	4	☒	6010D	Total/NA
Vanadium	9.8	J	10	0.66	mg/Kg	4	☒	6010D	Total/NA
Zinc	19.4		6.0	4.6	mg/Kg	4	☒	6010D	Total/NA
Mercury	0.014	J	0.017	0.010	mg/Kg	1	☒	7471B	Total/NA

Client Sample ID: WSG-GS7-0.0-0.2-0

Lab Sample ID: 460-196259-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthylene	18	J	380	3.9	ug/Kg	1	☒	8270D	Total/NA
Anthracene	56	J	380	12	ug/Kg	1	☒	8270D	Total/NA
Benzo[a]anthracene	230		38	13	ug/Kg	1	☒	8270D	Total/NA
Benzo[a]pyrene	190		38	10	ug/Kg	1	☒	8270D	Total/NA
Benzo[b]fluoranthene	300		38	9.8	ug/Kg	1	☒	8270D	Total/NA
Benzo[g,h,i]perylene	73	J	380	11	ug/Kg	1	☒	8270D	Total/NA
Benzo[k]fluoranthene	120		38	7.4	ug/Kg	1	☒	8270D	Total/NA
Bis(2-ethylhexyl) phthalate	300	J	380	20	ug/Kg	1	☒	8270D	Total/NA
Carbazole	17	J	380	14	ug/Kg	1	☒	8270D	Total/NA
Chrysene	270	J	380	6.4	ug/Kg	1	☒	8270D	Total/NA
Dibenz(a,h)anthracene	17	J	38	16	ug/Kg	1	☒	8270D	Total/NA
Fluoranthene	500		380	13	ug/Kg	1	☒	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	78		38	15	ug/Kg	1	☒	8270D	Total/NA
Phenanthrene	130	J	380	6.7	ug/Kg	1	☒	8270D	Total/NA
Pyrene	420		380	9.4	ug/Kg	1	☒	8270D	Total/NA
4,4'-DDE	8.6		7.7	0.90	ug/Kg	1	☒	8081B	Total/NA
Chlordane (technical)	83		77	19	ug/Kg	1	☒	8081B	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.30	J B	0.52	0.21	ug/Kg	1	☒	537 (modified)	Total/NA
Iron	7120		33.0	16.2	mg/Kg	4	☒	6010D	Total/NA
Aluminum	4630		44.0	12.4	mg/Kg	4	☒	6010D	Total/NA
Arsenic	2.7	J	3.3	1.3	mg/Kg	4	☒	6010D	Total/NA
Boron	11.6		11.0	3.0	mg/Kg	4	☒	6010D	Total/NA
Barium	38.5	J	44.0	2.4	mg/Kg	4	☒	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Edison

Detection Summary

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196259-1

Client Sample ID: WSG-GS7-0.0-0.2-0 (Continued)

Lab Sample ID: 460-196259-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Beryllium	0.34	J	0.44	0.098	mg/Kg	4	☼	6010D	Total/NA
Calcium	33400		1100	64.8	mg/Kg	4	☼	6010D	Total/NA
Cobalt	2.6	J	11.0	1.4	mg/Kg	4	☼	6010D	Total/NA
Chromium	8.6		2.2	0.39	mg/Kg	4	☼	6010D	Total/NA
Copper	13.2		5.5	2.9	mg/Kg	4	☼	6010D	Total/NA
Potassium	973	J	1100	68.5	mg/Kg	4	☼	6010D	Total/NA
Magnesium	5030		1100	64.2	mg/Kg	4	☼	6010D	Total/NA
Manganese	128		3.3	0.38	mg/Kg	4	☼	6010D	Total/NA
Sodium	123	J	1100	88.5	mg/Kg	4	☼	6010D	Total/NA
Nickel	6.9	J	8.8	0.81	mg/Kg	4	☼	6010D	Total/NA
Lead	13.9		2.2	0.58	mg/Kg	4	☼	6010D	Total/NA
Strontium	79.0		4.4	0.44	mg/Kg	4	☼	6010D	Total/NA
Titanium	336		4.4	0.66	mg/Kg	4	☼	6010D	Total/NA
Vanadium	18.8		11.0	0.73	mg/Kg	4	☼	6010D	Total/NA
Zinc	42.0		6.6	5.1	mg/Kg	4	☼	6010D	Total/NA
Mercury	0.022		0.018	0.011	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: WSG-GS7-0.5-2.0-0

Lab Sample ID: 460-196259-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	26	J	36	13	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	16	J	36	9.6	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	26	J	36	9.3	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	22	J	360	11	ug/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	9.3	J	36	7.1	ug/Kg	1	☼	8270D	Total/NA
Chrysene	27	J	360	6.1	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	34	J	360	13	ug/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	16	J	36	14	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	11	J	360	6.4	ug/Kg	1	☼	8270D	Total/NA
Pyrene	41	J	360	9.0	ug/Kg	1	☼	8270D	Total/NA
4,4'-DDD	4.7	J	7.3	1.2	ug/Kg	1	☼	8081B	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.23	J B	0.52	0.21	ug/Kg	1	☼	537 (modified)	Total/NA
Iron	3860		31.2	15.3	mg/Kg	4	☼	6010D	Total/NA
Aluminum	2870		41.6	11.8	mg/Kg	4	☼	6010D	Total/NA
Arsenic	1.7	J	3.1	1.2	mg/Kg	4	☼	6010D	Total/NA
Boron	6.1	J	10.4	2.9	mg/Kg	4	☼	6010D	Total/NA
Barium	13.4	J	41.6	2.3	mg/Kg	4	☼	6010D	Total/NA
Beryllium	0.16	J	0.42	0.093	mg/Kg	4	☼	6010D	Total/NA
Calcium	11200		1040	61.3	mg/Kg	4	☼	6010D	Total/NA
Chromium	7.8		2.1	0.37	mg/Kg	4	☼	6010D	Total/NA
Copper	4.2	J	5.2	2.8	mg/Kg	4	☼	6010D	Total/NA
Potassium	213	J	1040	64.7	mg/Kg	4	☼	6010D	Total/NA
Magnesium	828	J	1040	60.7	mg/Kg	4	☼	6010D	Total/NA
Manganese	68.0		3.1	0.36	mg/Kg	4	☼	6010D	Total/NA
Nickel	3.4	J	8.3	0.76	mg/Kg	4	☼	6010D	Total/NA
Lead	5.1		2.1	0.54	mg/Kg	4	☼	6010D	Total/NA
Strontium	47.8		4.2	0.42	mg/Kg	4	☼	6010D	Total/NA
Titanium	133		4.2	0.63	mg/Kg	4	☼	6010D	Total/NA
Vanadium	8.2	J	10.4	0.69	mg/Kg	4	☼	6010D	Total/NA
Zinc	12.9		6.2	4.8	mg/Kg	4	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196259-1

Client Sample ID: WSG-GS7-2.0-3.5-0

Lab Sample ID: 460-196259-27

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanesulfonic acid (PFBS)	0.039	J	0.22	0.028	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.23	J B	0.55	0.22	ug/Kg	1	☼	537 (modified)	Total/NA

Client Sample ID: WSG-GS4-2.5-3.5-0

Lab Sample ID: 460-196259-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorodecanoic acid (PFDA)	0.039	J	0.20	0.022	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluoroundecanoic acid (PFUnA)	0.040	J	0.20	0.036	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.55	B	0.50	0.20	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS) - RE	0.32	J H	0.48	0.19	ug/Kg	1	☼	537 (modified)	Total/NA

Client Sample ID: WSG-GS8-0.0-0.2-0

Lab Sample ID: 460-196259-29

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorodecanoic acid (PFDA)	0.075	J	0.20	0.022	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluoroundecanoic acid (PFUnA)	0.059	J	0.20	0.036	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.31	J B	0.50	0.20	ug/Kg	1	☼	537 (modified)	Total/NA
Iron	6940		29.4	14.4	mg/Kg	4	☼	6010D	Total/NA
Aluminum	4870		39.2	11.1	mg/Kg	4	☼	6010D	Total/NA
Arsenic	1.7	J	2.9	1.1	mg/Kg	4	☼	6010D	Total/NA
Boron	4.4	J	9.8	2.7	mg/Kg	4	☼	6010D	Total/NA
Barium	20.7	J	39.2	2.2	mg/Kg	4	☼	6010D	Total/NA
Beryllium	0.25	J	0.39	0.087	mg/Kg	4	☼	6010D	Total/NA
Calcium	1880		979	57.7	mg/Kg	4	☼	6010D	Total/NA
Cobalt	2.1	J	9.8	1.2	mg/Kg	4	☼	6010D	Total/NA
Chromium	7.2		2.0	0.35	mg/Kg	4	☼	6010D	Total/NA
Copper	6.4		4.9	2.6	mg/Kg	4	☼	6010D	Total/NA
Potassium	632	J	979	60.9	mg/Kg	4	☼	6010D	Total/NA
Magnesium	1310		979	57.1	mg/Kg	4	☼	6010D	Total/NA
Manganese	86.3		2.9	0.34	mg/Kg	4	☼	6010D	Total/NA
Nickel	4.4	J	7.8	0.72	mg/Kg	4	☼	6010D	Total/NA
Lead	5.9		2.0	0.51	mg/Kg	4	☼	6010D	Total/NA
Strontium	8.7		3.9	0.39	mg/Kg	4	☼	6010D	Total/NA
Titanium	295		3.9	0.59	mg/Kg	4	☼	6010D	Total/NA
Vanadium	11.5		9.8	0.65	mg/Kg	4	☼	6010D	Total/NA
Zinc	16.0		5.9	4.6	mg/Kg	4	☼	6010D	Total/NA

Client Sample ID: WSG-GS8-0.5-2.0-0

Lab Sample ID: 460-196259-30

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluoroheptanoic acid (PFHpA)	0.031	J B	0.20	0.028	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	0.040	J	0.20	0.035	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	0.088	J	0.20	0.022	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.52	B	0.49	0.20	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS) - RE	0.45	J H	0.50	0.20	ug/Kg	1	☼	537 (modified)	Total/NA
Iron	2410		28.6	14.0	mg/Kg	4	☼	6010D	Total/NA
Aluminum	1760		38.2	10.8	mg/Kg	4	☼	6010D	Total/NA
Boron	3.3	J	9.5	2.6	mg/Kg	4	☼	6010D	Total/NA
Barium	5.2	J	38.2	2.1	mg/Kg	4	☼	6010D	Total/NA
Calcium	356	J	954	56.2	mg/Kg	4	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196259-1

Client Sample ID: WSG-GS8-0.5-2.0-0 (Continued)

Lab Sample ID: 460-196259-30

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	2.7		1.9	0.34	mg/Kg	4	☼	6010D	Total/NA
Potassium	91.5	J	954	59.4	mg/Kg	4	☼	6010D	Total/NA
Magnesium	233	J	954	55.6	mg/Kg	4	☼	6010D	Total/NA
Manganese	15.7		2.9	0.33	mg/Kg	4	☼	6010D	Total/NA
Nickel	1.4	J	7.6	0.70	mg/Kg	4	☼	6010D	Total/NA
Lead	5.0		1.9	0.50	mg/Kg	4	☼	6010D	Total/NA
Strontium	1.8	J	3.8	0.38	mg/Kg	4	☼	6010D	Total/NA
Titanium	68.7		3.8	0.57	mg/Kg	4	☼	6010D	Total/NA
Vanadium	3.9	J	9.5	0.63	mg/Kg	4	☼	6010D	Total/NA
Zinc	4.8	J	5.7	4.4	mg/Kg	4	☼	6010D	Total/NA

Client Sample ID: WSG-GS5-0.0-0.2-0

Lab Sample ID: 460-196259-31

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	0.56	J	1.1	0.51	ug/Kg	1	☼	8260C	Total/NA
Acenaphthylene	21	J	380	3.9	ug/Kg	1	☼	8270D	Total/NA
Anthracene	47	J	380	12	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	250		38	13	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	280		38	10	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	420		38	9.8	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	120	J	380	11	ug/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	160		38	7.5	ug/Kg	1	☼	8270D	Total/NA
Bis(2-ethylhexyl) phthalate	75	J	380	20	ug/Kg	1	☼	8270D	Total/NA
Carbazole	22	J	380	14	ug/Kg	1	☼	8270D	Total/NA
Chrysene	320	J	380	6.4	ug/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	31	J	38	16	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	500		380	13	ug/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	150		38	15	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	120	J	380	6.7	ug/Kg	1	☼	8270D	Total/NA
Pyrene	470		380	9.4	ug/Kg	1	☼	8270D	Total/NA
4,4'-DDE	8.7		7.7	0.91	ug/Kg	1	☼	8081B	Total/NA
Chlordane (technical)	130		77	19	ug/Kg	1	☼	8081B	Total/NA
Perfluorooctanoic acid (PFOA)	0.11	J	0.22	0.093	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	0.081	J	0.22	0.024	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluoroundecanoic acid (PFUnA)	0.043	J	0.22	0.039	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	0.037	J	0.22	0.034	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.65	B	0.54	0.22	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS) - RE	0.82	H	0.55	0.22	ug/Kg	1	☼	537 (modified)	Total/NA
Iron	6250		32.2	15.8	mg/Kg	4	☼	6010D	Total/NA
Aluminum	4290		42.9	12.1	mg/Kg	4	☼	6010D	Total/NA
Arsenic	4.0		3.2	1.3	mg/Kg	4	☼	6010D	Total/NA
Boron	7.1	J	10.7	3.0	mg/Kg	4	☼	6010D	Total/NA
Barium	31.3	J	42.9	2.4	mg/Kg	4	☼	6010D	Total/NA
Beryllium	0.24	J	0.43	0.096	mg/Kg	4	☼	6010D	Total/NA
Calcium	29500		1070	63.2	mg/Kg	4	☼	6010D	Total/NA
Cobalt	2.0	J	10.7	1.3	mg/Kg	4	☼	6010D	Total/NA
Chromium	13.5		2.1	0.38	mg/Kg	4	☼	6010D	Total/NA
Copper	13.6		5.4	2.9	mg/Kg	4	☼	6010D	Total/NA
Potassium	729	J	1070	66.8	mg/Kg	4	☼	6010D	Total/NA
Magnesium	3370		1070	62.6	mg/Kg	4	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196259-1

Client Sample ID: WSG-GS5-0.0-0.2-0 (Continued)

Lab Sample ID: 460-196259-31

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	118		3.2	0.37	mg/Kg	4	☼	6010D	Total/NA
Sodium	150	J	1070	86.3	mg/Kg	4	☼	6010D	Total/NA
Nickel	5.9	J	8.6	0.79	mg/Kg	4	☼	6010D	Total/NA
Lead	17.3		2.1	0.56	mg/Kg	4	☼	6010D	Total/NA
Strontium	93.4		4.3	0.43	mg/Kg	4	☼	6010D	Total/NA
Titanium	263		4.3	0.65	mg/Kg	4	☼	6010D	Total/NA
Vanadium	14.7		10.7	0.71	mg/Kg	4	☼	6010D	Total/NA
Zinc	37.1		6.4	5.0	mg/Kg	4	☼	6010D	Total/NA
Mercury	0.047		0.019	0.011	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: WSG-GS5-0.5-2.0-0

Lab Sample ID: 460-196259-32

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	68		37	13	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	52		37	9.8	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	75		37	9.5	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	40	J	370	11	ug/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	30	J	37	7.2	ug/Kg	1	☼	8270D	Total/NA
Chrysene	70	J	370	6.2	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	150	J	370	13	ug/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	41		37	14	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	61	J	370	6.5	ug/Kg	1	☼	8270D	Total/NA
Pyrene	120	J	370	9.1	ug/Kg	1	☼	8270D	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.34	J B	0.55	0.22	ug/Kg	1	☼	537 (modified)	Total/NA
Iron	3640		31.5	15.4	mg/Kg	4	☼	6010D	Total/NA
Aluminum	2700		42.0	11.9	mg/Kg	4	☼	6010D	Total/NA
Arsenic	1.8	J	3.1	1.2	mg/Kg	4	☼	6010D	Total/NA
Boron	4.8	J	10.5	2.9	mg/Kg	4	☼	6010D	Total/NA
Barium	10.4	J	42.0	2.3	mg/Kg	4	☼	6010D	Total/NA
Beryllium	0.11	J	0.42	0.093	mg/Kg	4	☼	6010D	Total/NA
Calcium	4950		1050	61.8	mg/Kg	4	☼	6010D	Total/NA
Chromium	4.1		2.1	0.37	mg/Kg	4	☼	6010D	Total/NA
Copper	3.7	J	5.2	2.8	mg/Kg	4	☼	6010D	Total/NA
Potassium	210	J	1050	65.2	mg/Kg	4	☼	6010D	Total/NA
Magnesium	740	J	1050	61.1	mg/Kg	4	☼	6010D	Total/NA
Manganese	44.8		3.1	0.37	mg/Kg	4	☼	6010D	Total/NA
Nickel	2.3	J	8.4	0.77	mg/Kg	4	☼	6010D	Total/NA
Lead	6.2		2.1	0.55	mg/Kg	4	☼	6010D	Total/NA
Strontium	17.3		4.2	0.42	mg/Kg	4	☼	6010D	Total/NA
Titanium	130		4.2	0.63	mg/Kg	4	☼	6010D	Total/NA
Vanadium	6.7	J	10.5	0.70	mg/Kg	4	☼	6010D	Total/NA
Zinc	10.5		6.3	4.9	mg/Kg	4	☼	6010D	Total/NA
Mercury	0.014	J	0.019	0.011	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: WSG-S15-0.0-0.2-0

Lab Sample ID: 460-196259-33

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorodecanoic acid (PFDA)	0.047	J	0.21	0.023	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.39	J	0.53	0.21	ug/Kg	1	☼	537 (modified)	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Edison

Detection Summary

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196259-1

Client Sample ID: WSG-S15-0.5-2.0-0

Lab Sample ID: 460-196259-34

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanesulfonic acid (PFOS)	0.28	J	0.61	0.24	ug/Kg	1	☼	537 (modified)	Total/NA

Client Sample ID: WSG-S12-0.0-0.2-0

Lab Sample ID: 460-196259-35

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorodecanoic acid (PFDA)	0.064	J	0.25	0.028	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluoroundecanoic acid (PFUnA)	0.065	J	0.25	0.046	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.30	J B	0.63	0.25	ug/Kg	1	☼	537 (modified)	Total/NA

Client Sample ID: WSG-S12-0.5-2.0-0

Lab Sample ID: 460-196259-36

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluoroheptanoic acid (PFHpA)	0.041	J B	0.28	0.040	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	0.13	J	0.28	0.12	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	0.068	J	0.28	0.050	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	0.067	J	0.28	0.030	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.77	B	0.69	0.28	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS) - RE	0.31	J H	0.65	0.26	ug/Kg	1	☼	537 (modified)	Total/NA

Client Sample ID: WSG-S13-0.0-0.2-0

Lab Sample ID: 460-196259-37

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorononanoic acid (PFNA)	0.072	J	0.23	0.042	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	0.098	J	0.23	0.026	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluoroundecanoic acid (PFUnA)	0.056	J	0.23	0.042	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.96	B	0.58	0.23	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS) - RE	0.63	H	0.59	0.24	ug/Kg	1	☼	537 (modified)	Total/NA

Client Sample ID: WSG-S13-0.5-2.0-0

Lab Sample ID: 460-196259-38

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluoroheptanoic acid (PFHpA)	0.045	J B	0.24	0.034	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	0.11	J	0.24	0.10	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	0.072	J	0.24	0.043	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluoroundecanoic acid (PFUnA)	0.060	J	0.24	0.043	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.58	J B	0.59	0.24	ug/Kg	1	☼	537 (modified)	Total/NA

Client Sample ID: WSG-GW7-6-0

Lab Sample ID: 460-196259-39

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid (PFHxA)	4.55		1.83	0.53	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	5.10		1.83	0.23	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	13.4		1.83	0.78	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	2.84		1.83	0.25	ng/L	1		537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	2.21		1.83	0.28	ng/L	1		537 (modified)	Total/NA
Perfluorotetradecanoic acid (PFTeA)	0.34	J B	1.83	0.26	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	0.69	J	1.83	0.18	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	7.84	B	1.83	0.16	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	22.5		1.83	0.49	ng/L	1		537 (modified)	Total/NA
Iron	654		150	34.2	ug/L	1		6010D	Total/NA
Aluminum	310		200	28.6	ug/L	1		6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: New York State D.E.C.
Project/Site: DEC - WAINSCOTT SAND & GRAVEL
SITE:15225

Job ID: 460-196259-1

Client Sample ID: WSG-GW7-6-0 (Continued)

Lab Sample ID: 460-196259-39

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	75.6		50.0	12.7	ug/L	1		6010D	Total/NA
Barium	10.2	J	200	7.7	ug/L	1		6010D	Total/NA
Calcium	27700		5000	222	ug/L	1		6010D	Total/NA
Chromium	10.5		10.0	1.3	ug/L	1		6010D	Total/NA
Potassium	38100		5000	323	ug/L	1		6010D	Total/NA
Magnesium	1370	J	5000	177	ug/L	1		6010D	Total/NA
Manganese	65.3		15.0	0.99	ug/L	1		6010D	Total/NA
Molybdenum	18.4	J	20.0	3.3	ug/L	1		6010D	Total/NA
Sodium	20400		5000	460	ug/L	1		6010D	Total/NA
Nickel	4.5	J	40.0	1.7	ug/L	1		6010D	Total/NA
Strontium	375		20.0	0.70	ug/L	1		6010D	Total/NA
Titanium	5.1	J	20.0	2.0	ug/L	1		6010D	Total/NA
Vanadium	3.8	J	50.0	2.5	ug/L	1		6010D	Total/NA
Zinc	15.7	J	30.0	3.6	ug/L	1		6010D	Total/NA

Client Sample ID: WSG-GW7-15-0

Lab Sample ID: 460-196259-40

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid (PFHxA)	1.29	J	1.83	0.53	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	0.54	J	1.83	0.23	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	2.41		1.83	0.78	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	0.25	J	1.83	0.25	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	2.00		1.83	0.18	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	29.9	B	1.83	0.16	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	24.0		1.83	0.49	ng/L	1		537 (modified)	Total/NA

Client Sample ID: WSG-TB-20191106

Lab Sample ID: 460-196259-42

No Detections.

Client Sample ID: WSG-MW8-25-0

Lab Sample ID: 460-196259-43

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid (PFHxA)	25.1		1.81	0.53	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	13.6		1.81	0.23	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	37.5		1.81	0.77	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	4.63		1.81	0.24	ng/L	1		537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	0.47	J	1.81	0.28	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	5.16		1.81	0.18	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	26.2	B	1.81	0.15	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	58.5		1.81	0.49	ng/L	1		537 (modified)	Total/NA

Client Sample ID: WSG-MW8-25-1

Lab Sample ID: 460-196259-44

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid (PFHxA)	25.7		1.82	0.53	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	12.2		1.82	0.23	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	34.1		1.82	0.78	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	3.81		1.82	0.25	ng/L	1		537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	0.77	J	1.82	0.28	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	5.58		1.82	0.18	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	27.4	B	1.82	0.16	ng/L	1		537 (modified)	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Edison

Detection Summary

Client: New York State D.E.C.
Project/Site: DEC - WAINSCOTT SAND & GRAVEL
SITE:15225

Job ID: 460-196259-1

Client Sample ID: WSG-MW8-25-1 (Continued)

Lab Sample ID: 460-196259-44

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanesulfonic acid (PFOS)	56.4		1.82	0.49	ng/L	1		537 (modified)	Total/NA

Client Sample ID: WSG-GW5-28-0

Lab Sample ID: 460-196259-45

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid (PFHxA)	15.9		1.90	0.55	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	9.45		1.90	0.24	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	11.2		1.90	0.81	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	1.72	J	1.90	0.26	ng/L	1		537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	0.35	J	1.90	0.30	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	2.69		1.90	0.19	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	10.9	B	1.90	0.16	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	37.8		1.90	0.51	ng/L	1		537 (modified)	Total/NA

Client Sample ID: WSG-MW2-10-0

Lab Sample ID: 460-196259-46

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid (PFHxA)	35.5		1.88	0.54	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	35.0		1.88	0.23	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	47.6		1.88	0.80	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	58.2		1.88	0.25	ng/L	1		537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	2.32		1.88	0.29	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	9.33		1.88	0.19	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	23.9	B	1.88	0.16	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	36.3		1.88	0.51	ng/L	1		537 (modified)	Total/NA

Client Sample ID: WSG-GW5-18-0

Lab Sample ID: 460-196259-47

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid (PFHxA)	12.6		1.90	0.55	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	7.76		1.90	0.24	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	12.7		1.90	0.81	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	1.85	J	1.90	0.26	ng/L	1		537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	0.33	J	1.90	0.29	ng/L	1		537 (modified)	Total/NA
Perfluorotetradecanoic acid (PFTeA)	0.31	J B	1.90	0.28	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	2.31		1.90	0.19	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	10.0	B	1.90	0.16	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	27.8		1.90	0.51	ng/L	1		537 (modified)	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Edison

Method Summary

Client: New York State D.E.C.

Job ID: 460-196259-1

Project/Site: DEC - WAINSCOTT SAND & GRAVEL

SITE:15225

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL EDI
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL EDI
8270D SIM	Semivolatile Organic Compounds (GC/MS SIM)	SW846	TAL EDI
608.3	Organochlorine Pesticides/PCBs in Water	40CFR136A	TAL EDI
8081B	Organochlorine Pesticides (GC)	SW846	TAL EDI
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL EDI
8151A	Herbicides (GC)	SW846	TAL EDI
537 (modified)	Fluorinated Alkyl Substances	EPA	TAL SAC
6010D	Metals (ICP)	SW846	TAL EDI
7470A	Mercury (CVAA)	SW846	TAL EDI
7471B	Mercury (CVAA)	SW846	TAL EDI
D 2216	Percent Moisture	ASTM	TAL SAC
Moisture	Percent Moisture	EPA	TAL EDI
3010A	Preparation, Total Metals	SW846	TAL EDI
3050B	Preparation, Metals	SW846	TAL EDI
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL EDI
3535	Solid-Phase Extraction (SPE)	SW846	TAL SAC
3546	Microwave Extraction	SW846	TAL EDI
5030C	Purge and Trap	SW846	TAL EDI
5035	Closed System Purge and Trap	SW846	TAL EDI
608	Liquid-Liquid Extraction (Separatory Funnel)	40CFR136A	TAL EDI
7470A	Preparation, Mercury	SW846	TAL EDI
7471B	Preparation, Mercury	SW846	TAL EDI
8151A	Extraction (Herbicides)	SW846	TAL EDI
SHAKE	Shake Extraction with Ultrasonic Bath Extraction	SW846	TAL SAC

Protocol References:

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL EDI = Eurofins TestAmerica, Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

TAL SAC = Eurofins TestAmerica, Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196259-1

Client Sample ID: WSG-S14-0.0-0.2-0

Lab Sample ID: 460-196259-1

Date Collected: 11/05/19 09:10

Matrix: Solid

Date Received: 11/06/19 18:40

Percent Solids: 87.0

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	0.070	J	0.21	0.044	ug/Kg	☼	11/19/19 07:46	12/12/19 00:11	1
Perfluoroheptanoic acid (PFHpA)	0.057	J	0.21	0.031	ug/Kg	☼	11/19/19 07:46	12/12/19 00:11	1
Perfluorooctanoic acid (PFOA)	0.20	J	0.21	0.091	ug/Kg	☼	11/19/19 07:46	12/12/19 00:11	1
Perfluorononanoic acid (PFNA)	0.066	J	0.21	0.038	ug/Kg	☼	11/19/19 07:46	12/12/19 00:11	1
Perfluorodecanoic acid (PFDA)	0.046	J	0.21	0.023	ug/Kg	☼	11/19/19 07:46	12/12/19 00:11	1
Perfluoroundecanoic acid (PFUnA)	0.070	J	0.21	0.038	ug/Kg	☼	11/19/19 07:46	12/12/19 00:11	1
Perfluorododecanoic acid (PFDoA)	0.21	U	0.21	0.071	ug/Kg	☼	11/19/19 07:46	12/12/19 00:11	1
Perfluorotridecanoic acid (PFTriA)	0.21	U	0.21	0.054	ug/Kg	☼	11/19/19 07:46	12/12/19 00:11	1
Perfluorotetradecanoic acid (PFTeA)	0.21	U	0.21	0.057	ug/Kg	☼	11/19/19 07:46	12/12/19 00:11	1
Perfluorobutanesulfonic acid (PFBS)	0.21	U *	0.21	0.026	ug/Kg	☼	11/19/19 07:46	12/12/19 00:11	1
Perfluorohexanesulfonic acid (PFHxS)	0.21	U	0.21	0.033	ug/Kg	☼	11/19/19 07:46	12/12/19 00:11	1
Perfluorooctanesulfonic acid (PFOS)	0.52	J	0.53	0.21	ug/Kg	☼	11/19/19 07:46	12/12/19 00:11	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.12	U	2.12	0.39	ug/Kg	☼	11/19/19 07:46	12/12/19 00:11	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.12	U	2.12	0.41	ug/Kg	☼	11/19/19 07:46	12/12/19 00:11	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C2 PFHxA	92		25 - 150				11/19/19 07:46	12/12/19 00:11	1
13C4 PFHpA	94		25 - 150				11/19/19 07:46	12/12/19 00:11	1
13C4 PFOA	96		25 - 150				11/19/19 07:46	12/12/19 00:11	1
13C5 PFNA	95		25 - 150				11/19/19 07:46	12/12/19 00:11	1
13C2 PFDA	102		25 - 150				11/19/19 07:46	12/12/19 00:11	1
13C2 PFUnA	104		25 - 150				11/19/19 07:46	12/12/19 00:11	1
13C2 PFDoA	97		25 - 150				11/19/19 07:46	12/12/19 00:11	1
13C2 PFTeDA	91		25 - 150				11/19/19 07:46	12/12/19 00:11	1
18O2 PFHxS	89		25 - 150				11/19/19 07:46	12/12/19 00:11	1
13C4 PFOS	92		25 - 150				11/19/19 07:46	12/12/19 00:11	1
d3-NMeFOSAA	90		25 - 150				11/19/19 07:46	12/12/19 00:11	1
d5-NEtFOSAA	97		25 - 150				11/19/19 07:46	12/12/19 00:11	1

Client Sample ID: WSG-S14-0.5-2.0-0

Lab Sample ID: 460-196259-2

Date Collected: 11/05/19 09:20

Matrix: Solid

Date Received: 11/06/19 18:40

Percent Solids: 83.9

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	0.24	U	0.24	0.050	ug/Kg	☼	11/19/19 07:46	12/12/19 00:35	1
Perfluoroheptanoic acid (PFHpA)	0.24	U	0.24	0.035	ug/Kg	☼	11/19/19 07:46	12/12/19 00:35	1
Perfluorooctanoic acid (PFOA)	0.24	U	0.24	0.10	ug/Kg	☼	11/19/19 07:46	12/12/19 00:35	1
Perfluorononanoic acid (PFNA)	0.053	J	0.24	0.043	ug/Kg	☼	11/19/19 07:46	12/12/19 00:35	1
Perfluorodecanoic acid (PFDA)	0.052	J	0.24	0.026	ug/Kg	☼	11/19/19 07:46	12/12/19 00:35	1
Perfluoroundecanoic acid (PFUnA)	0.060	J	0.24	0.043	ug/Kg	☼	11/19/19 07:46	12/12/19 00:35	1
Perfluorododecanoic acid (PFDoA)	0.24	U	0.24	0.080	ug/Kg	☼	11/19/19 07:46	12/12/19 00:35	1
Perfluorotridecanoic acid (PFTriA)	0.24	U	0.24	0.061	ug/Kg	☼	11/19/19 07:46	12/12/19 00:35	1
Perfluorotetradecanoic acid (PFTeA)	0.24	U	0.24	0.064	ug/Kg	☼	11/19/19 07:46	12/12/19 00:35	1
Perfluorobutanesulfonic acid (PFBS)	0.24	U *	0.24	0.030	ug/Kg	☼	11/19/19 07:46	12/12/19 00:35	1
Perfluorohexanesulfonic acid (PFHxS)	0.24	U	0.24	0.037	ug/Kg	☼	11/19/19 07:46	12/12/19 00:35	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196259-1

Client Sample ID: WSG-S14-0.5-2.0-0

Lab Sample ID: 460-196259-2

Date Collected: 11/05/19 09:20

Matrix: Solid

Date Received: 11/06/19 18:40

Percent Solids: 83.9

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	0.59		0.59	0.24	ug/Kg	☼	11/19/19 07:46	12/12/19 00:35	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.38	U	2.38	0.44	ug/Kg	☼	11/19/19 07:46	12/12/19 00:35	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.38	U	2.38	0.46	ug/Kg	☼	11/19/19 07:46	12/12/19 00:35	1
<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C2 PFHxA	93		25 - 150				11/19/19 07:46	12/12/19 00:35	1
13C4 PFHpA	92		25 - 150				11/19/19 07:46	12/12/19 00:35	1
13C4 PFOA	97		25 - 150				11/19/19 07:46	12/12/19 00:35	1
13C5 PFNA	93		25 - 150				11/19/19 07:46	12/12/19 00:35	1
13C2 PFDA	109		25 - 150				11/19/19 07:46	12/12/19 00:35	1
13C2 PFUnA	106		25 - 150				11/19/19 07:46	12/12/19 00:35	1
13C2 PFDaA	96		25 - 150				11/19/19 07:46	12/12/19 00:35	1
13C2 PFTeDA	87		25 - 150				11/19/19 07:46	12/12/19 00:35	1
18O2 PFHxS	88		25 - 150				11/19/19 07:46	12/12/19 00:35	1
13C4 PFOS	92		25 - 150				11/19/19 07:46	12/12/19 00:35	1
d3-NMeFOSAA	88		25 - 150				11/19/19 07:46	12/12/19 00:35	1
d5-NEtFOSAA	97		25 - 150				11/19/19 07:46	12/12/19 00:35	1

Client Sample ID: WSG-S10-0.0-0.2-0

Lab Sample ID: 460-196259-3

Date Collected: 11/05/19 09:35

Matrix: Solid

Date Received: 11/06/19 18:40

Percent Solids: 72.9

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	0.27	U	0.27	0.056	ug/Kg	☼	11/19/19 07:46	12/12/19 00:44	1
Perfluoroheptanoic acid (PFHpA)	0.27	U	0.27	0.039	ug/Kg	☼	11/19/19 07:46	12/12/19 00:44	1
Perfluorooctanoic acid (PFOA)	0.27	U	0.27	0.11	ug/Kg	☼	11/19/19 07:46	12/12/19 00:44	1
Perfluorononanoic acid (PFNA)	0.049	J	0.27	0.048	ug/Kg	☼	11/19/19 07:46	12/12/19 00:44	1
Perfluorodecanoic acid (PFDA)	0.047	J	0.27	0.029	ug/Kg	☼	11/19/19 07:46	12/12/19 00:44	1
Perfluoroundecanoic acid (PFUnA)	0.13	J	0.27	0.048	ug/Kg	☼	11/19/19 07:46	12/12/19 00:44	1
Perfluorododecanoic acid (PFDaA)	0.27	U	0.27	0.089	ug/Kg	☼	11/19/19 07:46	12/12/19 00:44	1
Perfluorotridecanoic acid (PFTriA)	0.27	U	0.27	0.068	ug/Kg	☼	11/19/19 07:46	12/12/19 00:44	1
Perfluorotetradecanoic acid (PFTeA)	0.27	U	0.27	0.072	ug/Kg	☼	11/19/19 07:46	12/12/19 00:44	1
Perfluorobutanesulfonic acid (PFBS)	0.27	U *	0.27	0.033	ug/Kg	☼	11/19/19 07:46	12/12/19 00:44	1
Perfluorohexanesulfonic acid (PFHxS)	0.27	U	0.27	0.041	ug/Kg	☼	11/19/19 07:46	12/12/19 00:44	1
Perfluorooctanesulfonic acid (PFOS)	0.51	J	0.67	0.27	ug/Kg	☼	11/19/19 07:46	12/12/19 00:44	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.67	U	2.67	0.49	ug/Kg	☼	11/19/19 07:46	12/12/19 00:44	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.67	U	2.67	0.52	ug/Kg	☼	11/19/19 07:46	12/12/19 00:44	1
<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C2 PFHxA	93		25 - 150				11/19/19 07:46	12/12/19 00:44	1
13C4 PFHpA	92		25 - 150				11/19/19 07:46	12/12/19 00:44	1
13C4 PFOA	93		25 - 150				11/19/19 07:46	12/12/19 00:44	1
13C5 PFNA	95		25 - 150				11/19/19 07:46	12/12/19 00:44	1
13C2 PFDA	107		25 - 150				11/19/19 07:46	12/12/19 00:44	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196259-1

Client Sample ID: WSG-S10-0.0-0.2-0

Lab Sample ID: 460-196259-3

Date Collected: 11/05/19 09:35

Matrix: Solid

Date Received: 11/06/19 18:40

Percent Solids: 72.9

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFUnA	109		25 - 150	11/19/19 07:46	12/12/19 00:44	1
13C2 PFDoA	105		25 - 150	11/19/19 07:46	12/12/19 00:44	1
13C2 PFTeDA	92		25 - 150	11/19/19 07:46	12/12/19 00:44	1
18O2 PFHxS	87		25 - 150	11/19/19 07:46	12/12/19 00:44	1
13C4 PFOS	96		25 - 150	11/19/19 07:46	12/12/19 00:44	1
d3-NMeFOSAA	85		25 - 150	11/19/19 07:46	12/12/19 00:44	1
d5-NEtFOSAA	94		25 - 150	11/19/19 07:46	12/12/19 00:44	1

Client Sample ID: WSG-S10-0.5-2.0-0

Lab Sample ID: 460-196259-4

Date Collected: 11/05/19 09:45

Matrix: Solid

Date Received: 11/06/19 18:40

Percent Solids: 94.8

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	0.20	U	0.20	0.042	ug/Kg	☼	11/19/19 07:46	12/12/19 00:52	1
Perfluoroheptanoic acid (PFHpA)	0.20	U	0.20	0.029	ug/Kg	☼	11/19/19 07:46	12/12/19 00:52	1
Perfluorooctanoic acid (PFOA)	0.20	U	0.20	0.086	ug/Kg	☼	11/19/19 07:46	12/12/19 00:52	1
Perfluorononanoic acid (PFNA)	0.20	U	0.20	0.036	ug/Kg	☼	11/19/19 07:46	12/12/19 00:52	1
Perfluorodecanoic acid (PFDA)	0.029	J	0.20	0.022	ug/Kg	☼	11/19/19 07:46	12/12/19 00:52	1
Perfluoroundecanoic acid (PFUnA)	0.067	J	0.20	0.036	ug/Kg	☼	11/19/19 07:46	12/12/19 00:52	1
Perfluorododecanoic acid (PFDoA)	0.20	U	0.20	0.067	ug/Kg	☼	11/19/19 07:46	12/12/19 00:52	1
Perfluorotridecanoic acid (PFTriA)	0.20	U	0.20	0.051	ug/Kg	☼	11/19/19 07:46	12/12/19 00:52	1
Perfluorotetradecanoic acid (PFTeA)	0.20	U	0.20	0.054	ug/Kg	☼	11/19/19 07:46	12/12/19 00:52	1
Perfluorobutanesulfonic acid (PFBS)	0.20	U *	0.20	0.025	ug/Kg	☼	11/19/19 07:46	12/12/19 00:52	1
Perfluorohexanesulfonic acid (PFHxS)	0.20	U	0.20	0.031	ug/Kg	☼	11/19/19 07:46	12/12/19 00:52	1
Perfluorooctanesulfonic acid (PFOS)	0.61		0.50	0.20	ug/Kg	☼	11/19/19 07:46	12/12/19 00:52	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.01	U	2.01	0.37	ug/Kg	☼	11/19/19 07:46	12/12/19 00:52	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.01	U	2.01	0.39	ug/Kg	☼	11/19/19 07:46	12/12/19 00:52	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFHxA	94		25 - 150	11/19/19 07:46	12/12/19 00:52	1
13C4 PFHpA	93		25 - 150	11/19/19 07:46	12/12/19 00:52	1
13C4 PFOA	90		25 - 150	11/19/19 07:46	12/12/19 00:52	1
13C5 PFNA	93		25 - 150	11/19/19 07:46	12/12/19 00:52	1
13C2 PFDA	92		25 - 150	11/19/19 07:46	12/12/19 00:52	1
13C2 PFUnA	97		25 - 150	11/19/19 07:46	12/12/19 00:52	1
13C2 PFDoA	97		25 - 150	11/19/19 07:46	12/12/19 00:52	1
13C2 PFTeDA	97		25 - 150	11/19/19 07:46	12/12/19 00:52	1
18O2 PFHxS	85		25 - 150	11/19/19 07:46	12/12/19 00:52	1
13C4 PFOS	88		25 - 150	11/19/19 07:46	12/12/19 00:52	1
d3-NMeFOSAA	67		25 - 150	11/19/19 07:46	12/12/19 00:52	1
d5-NEtFOSAA	77		25 - 150	11/19/19 07:46	12/12/19 00:52	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196259-1

Client Sample ID: WSG-S1-0.0-0.2-0

Lab Sample ID: 460-196259-5

Date Collected: 11/05/19 09:55

Matrix: Solid

Date Received: 11/06/19 18:40

Percent Solids: 92.1

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	0.21	U	0.21	0.045	ug/Kg	☼	11/19/19 07:46	12/12/19 01:00	1
Perfluoroheptanoic acid (PFHpA)	0.21	U	0.21	0.031	ug/Kg	☼	11/19/19 07:46	12/12/19 01:00	1
Perfluorooctanoic acid (PFOA)	0.21	U	0.21	0.091	ug/Kg	☼	11/19/19 07:46	12/12/19 01:00	1
Perfluorononanoic acid (PFNA)	0.21	U	0.21	0.038	ug/Kg	☼	11/19/19 07:46	12/12/19 01:00	1
Perfluorodecanoic acid (PFDA)	0.21	U	0.21	0.023	ug/Kg	☼	11/19/19 07:46	12/12/19 01:00	1
Perfluoroundecanoic acid (PFUnA)	0.21	U	0.21	0.038	ug/Kg	☼	11/19/19 07:46	12/12/19 01:00	1
Perfluorododecanoic acid (PFDoA)	0.21	U	0.21	0.071	ug/Kg	☼	11/19/19 07:46	12/12/19 01:00	1
Perfluorotridecanoic acid (PFTriA)	0.21	U	0.21	0.054	ug/Kg	☼	11/19/19 07:46	12/12/19 01:00	1
Perfluorotetradecanoic acid (PFTeA)	0.21	U	0.21	0.057	ug/Kg	☼	11/19/19 07:46	12/12/19 01:00	1
Perfluorobutanesulfonic acid (PFBS)	0.21	U *	0.21	0.027	ug/Kg	☼	11/19/19 07:46	12/12/19 01:00	1
Perfluorohexanesulfonic acid (PFHxS)	0.21	U	0.21	0.033	ug/Kg	☼	11/19/19 07:46	12/12/19 01:00	1
Perfluorooctanesulfonic acid (PFOS)	0.60		0.53	0.21	ug/Kg	☼	11/19/19 07:46	12/12/19 01:00	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.12	U	2.12	0.39	ug/Kg	☼	11/19/19 07:46	12/12/19 01:00	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.12	U	2.12	0.41	ug/Kg	☼	11/19/19 07:46	12/12/19 01:00	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFHxA	91		25 - 150	11/19/19 07:46	12/12/19 01:00	1
13C4 PFHpA	98		25 - 150	11/19/19 07:46	12/12/19 01:00	1
13C4 PFOA	96		25 - 150	11/19/19 07:46	12/12/19 01:00	1
13C5 PFNA	95		25 - 150	11/19/19 07:46	12/12/19 01:00	1
13C2 PFDA	98		25 - 150	11/19/19 07:46	12/12/19 01:00	1
13C2 PFUnA	103		25 - 150	11/19/19 07:46	12/12/19 01:00	1
13C2 PFDoA	94		25 - 150	11/19/19 07:46	12/12/19 01:00	1
13C2 PFTeA	81		25 - 150	11/19/19 07:46	12/12/19 01:00	1
18O2 PFHxS	85		25 - 150	11/19/19 07:46	12/12/19 01:00	1
13C4 PFOS	91		25 - 150	11/19/19 07:46	12/12/19 01:00	1
d3-NMeFOSAA	63		25 - 150	11/19/19 07:46	12/12/19 01:00	1
d5-NEtFOSAA	68		25 - 150	11/19/19 07:46	12/12/19 01:00	1

Client Sample ID: WSG-S1-0.5-2.0-0

Lab Sample ID: 460-196259-6

Date Collected: 11/05/19 10:05

Matrix: Solid

Date Received: 11/06/19 18:40

Percent Solids: 94.4

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	0.21	U	0.21	0.043	ug/Kg	☼	11/19/19 07:46	12/12/19 01:08	1
Perfluoroheptanoic acid (PFHpA)	0.21	U	0.21	0.030	ug/Kg	☼	11/19/19 07:46	12/12/19 01:08	1
Perfluorooctanoic acid (PFOA)	0.090	J	0.21	0.089	ug/Kg	☼	11/19/19 07:46	12/12/19 01:08	1
Perfluorononanoic acid (PFNA)	0.21	U	0.21	0.037	ug/Kg	☼	11/19/19 07:46	12/12/19 01:08	1
Perfluorodecanoic acid (PFDA)	0.21	U	0.21	0.023	ug/Kg	☼	11/19/19 07:46	12/12/19 01:08	1
Perfluoroundecanoic acid (PFUnA)	0.21	U	0.21	0.037	ug/Kg	☼	11/19/19 07:46	12/12/19 01:08	1
Perfluorododecanoic acid (PFDoA)	0.21	U	0.21	0.069	ug/Kg	☼	11/19/19 07:46	12/12/19 01:08	1
Perfluorotridecanoic acid (PFTriA)	0.21	U	0.21	0.053	ug/Kg	☼	11/19/19 07:46	12/12/19 01:08	1
Perfluorotetradecanoic acid (PFTeA)	0.21	U	0.21	0.056	ug/Kg	☼	11/19/19 07:46	12/12/19 01:08	1
Perfluorobutanesulfonic acid (PFBS)	0.21	U *	0.21	0.026	ug/Kg	☼	11/19/19 07:46	12/12/19 01:08	1
Perfluorohexanesulfonic acid (PFHxS)	0.21	U	0.21	0.032	ug/Kg	☼	11/19/19 07:46	12/12/19 01:08	1
Perfluorooctanesulfonic acid (PFOS)	0.48	J	0.52	0.21	ug/Kg	☼	11/19/19 07:46	12/12/19 01:08	1

Eurofins TestAmerica, Edison

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196259-1

Client Sample ID: WSG-S1-0.5-2.0-0

Lab Sample ID: 460-196259-6

Date Collected: 11/05/19 10:05

Matrix: Solid

Date Received: 11/06/19 18:40

Percent Solids: 94.4

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.07	U	2.07	0.38	ug/Kg	☼	11/19/19 07:46	12/12/19 01:08	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.07	U	2.07	0.40	ug/Kg	☼	11/19/19 07:46	12/12/19 01:08	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C2 PFHxA	91		25 - 150				11/19/19 07:46	12/12/19 01:08	1
13C4 PFHpA	98		25 - 150				11/19/19 07:46	12/12/19 01:08	1
13C4 PFOA	91		25 - 150				11/19/19 07:46	12/12/19 01:08	1
13C5 PFNA	92		25 - 150				11/19/19 07:46	12/12/19 01:08	1
13C2 PFDA	99		25 - 150				11/19/19 07:46	12/12/19 01:08	1
13C2 PFUnA	94		25 - 150				11/19/19 07:46	12/12/19 01:08	1
13C2 PFDoA	99		25 - 150				11/19/19 07:46	12/12/19 01:08	1
13C2 PFTeDA	95		25 - 150				11/19/19 07:46	12/12/19 01:08	1
18O2 PFHxS	86		25 - 150				11/19/19 07:46	12/12/19 01:08	1
13C4 PFOS	86		25 - 150				11/19/19 07:46	12/12/19 01:08	1
d3-NMeFOSAA	84		25 - 150				11/19/19 07:46	12/12/19 01:08	1
d5-NEtFOSAA	92		25 - 150				11/19/19 07:46	12/12/19 01:08	1

Client Sample ID: WSG-S11-0.0-0.2-0

Lab Sample ID: 460-196259-7

Date Collected: 11/05/19 10:20

Matrix: Solid

Date Received: 11/06/19 18:40

Percent Solids: 87.5

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	0.22	U	0.22	0.046	ug/Kg	☼	11/19/19 07:46	12/12/19 01:32	1
Perfluoroheptanoic acid (PFHpA)	0.22	U	0.22	0.032	ug/Kg	☼	11/19/19 07:46	12/12/19 01:32	1
Perfluorooctanoic acid (PFOA)	0.22	U	0.22	0.095	ug/Kg	☼	11/19/19 07:46	12/12/19 01:32	1
Perfluorononanoic acid (PFNA)	0.22	U	0.22	0.040	ug/Kg	☼	11/19/19 07:46	12/12/19 01:32	1
Perfluorodecanoic acid (PFDA)	0.22	U	0.22	0.024	ug/Kg	☼	11/19/19 07:46	12/12/19 01:32	1
Perfluoroundecanoic acid (PFUnA)	0.17	J	0.22	0.040	ug/Kg	☼	11/19/19 07:46	12/12/19 01:32	1
Perfluorododecanoic acid (PFDoA)	0.22	U	0.22	0.074	ug/Kg	☼	11/19/19 07:46	12/12/19 01:32	1
Perfluorotridecanoic acid (PFTriA)	0.22	U	0.22	0.056	ug/Kg	☼	11/19/19 07:46	12/12/19 01:32	1
Perfluorotetradecanoic acid (PFTeA)	0.22	U	0.22	0.059	ug/Kg	☼	11/19/19 07:46	12/12/19 01:32	1
Perfluorobutanesulfonic acid (PFBS)	0.22	U*	0.22	0.028	ug/Kg	☼	11/19/19 07:46	12/12/19 01:32	1
Perfluorohexanesulfonic acid (PFHxS)	0.22	U	0.22	0.034	ug/Kg	☼	11/19/19 07:46	12/12/19 01:32	1
Perfluorooctanesulfonic acid (PFOS)	0.79		0.55	0.22	ug/Kg	☼	11/19/19 07:46	12/12/19 01:32	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.20	U	2.20	0.41	ug/Kg	☼	11/19/19 07:46	12/12/19 01:32	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.20	U	2.20	0.43	ug/Kg	☼	11/19/19 07:46	12/12/19 01:32	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C2 PFHxA	95		25 - 150				11/19/19 07:46	12/12/19 01:32	1
13C4 PFHpA	93		25 - 150				11/19/19 07:46	12/12/19 01:32	1
13C4 PFOA	95		25 - 150				11/19/19 07:46	12/12/19 01:32	1
13C5 PFNA	97		25 - 150				11/19/19 07:46	12/12/19 01:32	1
13C2 PFDA	111		25 - 150				11/19/19 07:46	12/12/19 01:32	1
13C2 PFUnA	106		25 - 150				11/19/19 07:46	12/12/19 01:32	1
13C2 PFDoA	96		25 - 150				11/19/19 07:46	12/12/19 01:32	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196259-1

Client Sample ID: WSG-S11-0.0-0.2-0

Lab Sample ID: 460-196259-7

Date Collected: 11/05/19 10:20

Matrix: Solid

Date Received: 11/06/19 18:40

Percent Solids: 87.5

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFTeDA	82		25 - 150	11/19/19 07:46	12/12/19 01:32	1
18O2 PFHxS	92		25 - 150	11/19/19 07:46	12/12/19 01:32	1
13C4 PFOS	102		25 - 150	11/19/19 07:46	12/12/19 01:32	1
d3-NMeFOSAA	69		25 - 150	11/19/19 07:46	12/12/19 01:32	1
d5-NEtFOSAA	70		25 - 150	11/19/19 07:46	12/12/19 01:32	1

Client Sample ID: WSG-S11-0.5-2.0-0

Lab Sample ID: 460-196259-8

Date Collected: 11/05/19 10:30

Matrix: Solid

Date Received: 11/06/19 18:40

Percent Solids: 92.6

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	0.21	U	0.21	0.043	ug/Kg	☼	11/19/19 07:46	12/12/19 01:40	1
Perfluoroheptanoic acid (PFHpA)	0.21	U	0.21	0.030	ug/Kg	☼	11/19/19 07:46	12/12/19 01:40	1
Perfluorooctanoic acid (PFOA)	0.21	U	0.21	0.089	ug/Kg	☼	11/19/19 07:46	12/12/19 01:40	1
Perfluorononanoic acid (PFNA)	0.21	U	0.21	0.037	ug/Kg	☼	11/19/19 07:46	12/12/19 01:40	1
Perfluorodecanoic acid (PFDA)	0.21	U	0.21	0.023	ug/Kg	☼	11/19/19 07:46	12/12/19 01:40	1
Perfluoroundecanoic acid (PFUnA)	0.038	J	0.21	0.037	ug/Kg	☼	11/19/19 07:46	12/12/19 01:40	1
Perfluorododecanoic acid (PFDoA)	0.21	U	0.21	0.069	ug/Kg	☼	11/19/19 07:46	12/12/19 01:40	1
Perfluorotridecanoic acid (PFTriA)	0.21	U	0.21	0.053	ug/Kg	☼	11/19/19 07:46	12/12/19 01:40	1
Perfluorotetradecanoic acid (PFTeA)	0.21	U	0.21	0.056	ug/Kg	☼	11/19/19 07:46	12/12/19 01:40	1
Perfluorobutanesulfonic acid (PFBS)	0.21	U *	0.21	0.026	ug/Kg	☼	11/19/19 07:46	12/12/19 01:40	1
Perfluorohexanesulfonic acid (PFHxS)	0.21	U	0.21	0.032	ug/Kg	☼	11/19/19 07:46	12/12/19 01:40	1
Perfluorooctanesulfonic acid (PFOS)	0.50	J	0.52	0.21	ug/Kg	☼	11/19/19 07:46	12/12/19 01:40	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.07	U	2.07	0.38	ug/Kg	☼	11/19/19 07:46	12/12/19 01:40	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.07	U	2.07	0.40	ug/Kg	☼	11/19/19 07:46	12/12/19 01:40	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFHxA	93		25 - 150	11/19/19 07:46	12/12/19 01:40	1
13C4 PFHpA	97		25 - 150	11/19/19 07:46	12/12/19 01:40	1
13C4 PFOA	94		25 - 150	11/19/19 07:46	12/12/19 01:40	1
13C5 PFNA	98		25 - 150	11/19/19 07:46	12/12/19 01:40	1
13C2 PFDA	102		25 - 150	11/19/19 07:46	12/12/19 01:40	1
13C2 PFUnA	105		25 - 150	11/19/19 07:46	12/12/19 01:40	1
13C2 PFDoA	106		25 - 150	11/19/19 07:46	12/12/19 01:40	1
13C2 PFTeA	96		25 - 150	11/19/19 07:46	12/12/19 01:40	1
18O2 PFHxS	89		25 - 150	11/19/19 07:46	12/12/19 01:40	1
13C4 PFOS	93		25 - 150	11/19/19 07:46	12/12/19 01:40	1
d3-NMeFOSAA	91		25 - 150	11/19/19 07:46	12/12/19 01:40	1
d5-NEtFOSAA	96		25 - 150	11/19/19 07:46	12/12/19 01:40	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196259-1

Client Sample ID: WSG-S16-0.0-0.2-0

Lab Sample ID: 460-196259-9

Date Collected: 11/05/19 10:45

Matrix: Solid

Date Received: 11/06/19 18:40

Percent Solids: 89.4

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	0.22	U	0.22	0.046	ug/Kg	☼	11/19/19 07:46	12/12/19 01:48	1
Perfluoroheptanoic acid (PFHpA)	0.22	U	0.22	0.031	ug/Kg	☼	11/19/19 07:46	12/12/19 01:48	1
Perfluorooctanoic acid (PFOA)	0.22	U	0.22	0.093	ug/Kg	☼	11/19/19 07:46	12/12/19 01:48	1
Perfluorononanoic acid (PFNA)	0.22	U	0.22	0.039	ug/Kg	☼	11/19/19 07:46	12/12/19 01:48	1
Perfluorodecanoic acid (PFDA)	0.025	J	0.22	0.024	ug/Kg	☼	11/19/19 07:46	12/12/19 01:48	1
Perfluoroundecanoic acid (PFUnA)	0.078	J	0.22	0.039	ug/Kg	☼	11/19/19 07:46	12/12/19 01:48	1
Perfluorododecanoic acid (PFDoA)	0.22	U	0.22	0.073	ug/Kg	☼	11/19/19 07:46	12/12/19 01:48	1
Perfluorotridecanoic acid (PFTriA)	0.22	U	0.22	0.055	ug/Kg	☼	11/19/19 07:46	12/12/19 01:48	1
Perfluorotetradecanoic acid (PFTeA)	0.22	U	0.22	0.059	ug/Kg	☼	11/19/19 07:46	12/12/19 01:48	1
Perfluorobutanesulfonic acid (PFBS)	0.22	U *	0.22	0.027	ug/Kg	☼	11/19/19 07:46	12/12/19 01:48	1
Perfluorohexanesulfonic acid (PFHxS)	0.22	U	0.22	0.034	ug/Kg	☼	11/19/19 07:46	12/12/19 01:48	1
Perfluorooctanesulfonic acid (PFOS)	0.86		0.54	0.22	ug/Kg	☼	11/19/19 07:46	12/12/19 01:48	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.17	U	2.17	0.40	ug/Kg	☼	11/19/19 07:46	12/12/19 01:48	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.17	U	2.17	0.42	ug/Kg	☼	11/19/19 07:46	12/12/19 01:48	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C2 PFHxA	99		25 - 150				11/19/19 07:46	12/12/19 01:48	1
13C4 PFHpA	97		25 - 150				11/19/19 07:46	12/12/19 01:48	1
13C4 PFOA	97		25 - 150				11/19/19 07:46	12/12/19 01:48	1
13C5 PFNA	97		25 - 150				11/19/19 07:46	12/12/19 01:48	1
13C2 PFDA	113		25 - 150				11/19/19 07:46	12/12/19 01:48	1
13C2 PFUnA	116		25 - 150				11/19/19 07:46	12/12/19 01:48	1
13C2 PFDoA	105		25 - 150				11/19/19 07:46	12/12/19 01:48	1
13C2 PFTeDA	93		25 - 150				11/19/19 07:46	12/12/19 01:48	1
18O2 PFHxS	93		25 - 150				11/19/19 07:46	12/12/19 01:48	1
13C4 PFOS	100		25 - 150				11/19/19 07:46	12/12/19 01:48	1
d3-NMeFOSAA	75		25 - 150				11/19/19 07:46	12/12/19 01:48	1
d5-NEtFOSAA	84		25 - 150				11/19/19 07:46	12/12/19 01:48	1

Client Sample ID: WSG-S16-0.5-2.0-0

Lab Sample ID: 460-196259-10

Date Collected: 11/05/19 10:55

Matrix: Solid

Date Received: 11/06/19 18:40

Percent Solids: 94.1

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	0.20	U	0.20	0.043	ug/Kg	☼	11/19/19 07:46	12/12/19 01:56	1
Perfluoroheptanoic acid (PFHpA)	0.20	U	0.20	0.030	ug/Kg	☼	11/19/19 07:46	12/12/19 01:56	1
Perfluorooctanoic acid (PFOA)	0.20	U	0.20	0.088	ug/Kg	☼	11/19/19 07:46	12/12/19 01:56	1
Perfluorononanoic acid (PFNA)	0.20	U	0.20	0.037	ug/Kg	☼	11/19/19 07:46	12/12/19 01:56	1
Perfluorodecanoic acid (PFDA)	0.040	J	0.20	0.022	ug/Kg	☼	11/19/19 07:46	12/12/19 01:56	1
Perfluoroundecanoic acid (PFUnA)	0.20	U	0.20	0.037	ug/Kg	☼	11/19/19 07:46	12/12/19 01:56	1
Perfluorododecanoic acid (PFDoA)	0.20	U	0.20	0.068	ug/Kg	☼	11/19/19 07:46	12/12/19 01:56	1
Perfluorotridecanoic acid (PFTriA)	0.20	U	0.20	0.052	ug/Kg	☼	11/19/19 07:46	12/12/19 01:56	1
Perfluorotetradecanoic acid (PFTeA)	0.20	U	0.20	0.055	ug/Kg	☼	11/19/19 07:46	12/12/19 01:56	1
Perfluorobutanesulfonic acid (PFBS)	0.20	U *	0.20	0.025	ug/Kg	☼	11/19/19 07:46	12/12/19 01:56	1
Perfluorohexanesulfonic acid (PFHxS)	0.20	U	0.20	0.032	ug/Kg	☼	11/19/19 07:46	12/12/19 01:56	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196259-1

Client Sample ID: WSG-S16-0.5-2.0-0

Lab Sample ID: 460-196259-10

Date Collected: 11/05/19 10:55

Matrix: Solid

Date Received: 11/06/19 18:40

Percent Solids: 94.1

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	0.67		0.51	0.20	ug/Kg	☼	11/19/19 07:46	12/12/19 01:56	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.04	U	2.04	0.38	ug/Kg	☼	11/19/19 07:46	12/12/19 01:56	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.04	U	2.04	0.40	ug/Kg	☼	11/19/19 07:46	12/12/19 01:56	1
<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C2 PFHxA	96		25 - 150				11/19/19 07:46	12/12/19 01:56	1
13C4 PFHpA	95		25 - 150				11/19/19 07:46	12/12/19 01:56	1
13C4 PFOA	97		25 - 150				11/19/19 07:46	12/12/19 01:56	1
13C5 PFNA	97		25 - 150				11/19/19 07:46	12/12/19 01:56	1
13C2 PFDA	105		25 - 150				11/19/19 07:46	12/12/19 01:56	1
13C2 PFUnA	104		25 - 150				11/19/19 07:46	12/12/19 01:56	1
13C2 PFDoA	93		25 - 150				11/19/19 07:46	12/12/19 01:56	1
13C2 PFTeDA	88		25 - 150				11/19/19 07:46	12/12/19 01:56	1
18O2 PFHxS	91		25 - 150				11/19/19 07:46	12/12/19 01:56	1
13C4 PFOS	93		25 - 150				11/19/19 07:46	12/12/19 01:56	1
d3-NMeFOSAA	73		25 - 150				11/19/19 07:46	12/12/19 01:56	1
d5-NEtFOSAA	74		25 - 150				11/19/19 07:46	12/12/19 01:56	1

Client Sample ID: WSG-S16-0.0-0.2-1

Lab Sample ID: 460-196259-11

Date Collected: 11/05/19 10:45

Matrix: Solid

Date Received: 11/06/19 18:40

Percent Solids: 86.0

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	0.23	U	0.23	0.048	ug/Kg	☼	11/19/19 07:46	12/12/19 02:04	1
Perfluoroheptanoic acid (PFHpA)	0.23	U	0.23	0.033	ug/Kg	☼	11/19/19 07:46	12/12/19 02:04	1
Perfluorooctanoic acid (PFOA)	0.23	U	0.23	0.098	ug/Kg	☼	11/19/19 07:46	12/12/19 02:04	1
Perfluorononanoic acid (PFNA)	0.23	U	0.23	0.041	ug/Kg	☼	11/19/19 07:46	12/12/19 02:04	1
Perfluorodecanoic acid (PFDA)	0.043	J	0.23	0.025	ug/Kg	☼	11/19/19 07:46	12/12/19 02:04	1
Perfluoroundecanoic acid (PFUnA)	0.096	J	0.23	0.041	ug/Kg	☼	11/19/19 07:46	12/12/19 02:04	1
Perfluorododecanoic acid (PFDoA)	0.23	U	0.23	0.076	ug/Kg	☼	11/19/19 07:46	12/12/19 02:04	1
Perfluorotridecanoic acid (PFTriA)	0.23	U	0.23	0.058	ug/Kg	☼	11/19/19 07:46	12/12/19 02:04	1
Perfluorotetradecanoic acid (PFTeA)	0.23	U	0.23	0.061	ug/Kg	☼	11/19/19 07:46	12/12/19 02:04	1
Perfluorobutanesulfonic acid (PFBS)	0.23	U *	0.23	0.028	ug/Kg	☼	11/19/19 07:46	12/12/19 02:04	1
Perfluorohexanesulfonic acid (PFHxS)	0.23	U	0.23	0.035	ug/Kg	☼	11/19/19 07:46	12/12/19 02:04	1
Perfluorooctanesulfonic acid (PFOS)	0.68		0.57	0.23	ug/Kg	☼	11/19/19 07:46	12/12/19 02:04	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.27	U	2.27	0.42	ug/Kg	☼	11/19/19 07:46	12/12/19 02:04	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.27	U	2.27	0.44	ug/Kg	☼	11/19/19 07:46	12/12/19 02:04	1
<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C2 PFHxA	97		25 - 150				11/19/19 07:46	12/12/19 02:04	1
13C4 PFHpA	95		25 - 150				11/19/19 07:46	12/12/19 02:04	1
13C4 PFOA	97		25 - 150				11/19/19 07:46	12/12/19 02:04	1
13C5 PFNA	101		25 - 150				11/19/19 07:46	12/12/19 02:04	1
13C2 PFDA	111		25 - 150				11/19/19 07:46	12/12/19 02:04	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196259-1

Client Sample ID: WSG-S16-0.0-0.2-1

Lab Sample ID: 460-196259-11

Date Collected: 11/05/19 10:45

Matrix: Solid

Date Received: 11/06/19 18:40

Percent Solids: 86.0

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFUnA	115		25 - 150	11/19/19 07:46	12/12/19 02:04	1
13C2 PFDoA	100		25 - 150	11/19/19 07:46	12/12/19 02:04	1
13C2 PFTeDA	94		25 - 150	11/19/19 07:46	12/12/19 02:04	1
18O2 PFHxS	94		25 - 150	11/19/19 07:46	12/12/19 02:04	1
13C4 PFOS	98		25 - 150	11/19/19 07:46	12/12/19 02:04	1
d3-NMeFOSAA	91		25 - 150	11/19/19 07:46	12/12/19 02:04	1
d5-NEtFOSAA	98		25 - 150	11/19/19 07:46	12/12/19 02:04	1

Client Sample ID: WSG-S17-0.0-0.2-0

Lab Sample ID: 460-196259-12

Date Collected: 11/05/19 13:35

Matrix: Solid

Date Received: 11/06/19 18:40

Percent Solids: 63.3

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	0.31	U	0.31	0.065	ug/Kg	☼	11/19/19 07:46	12/12/19 02:12	1
Perfluoroheptanoic acid (PFHpA)	0.31	U	0.31	0.045	ug/Kg	☼	11/19/19 07:46	12/12/19 02:12	1
Perfluorooctanoic acid (PFOA)	0.31	U	0.31	0.13	ug/Kg	☼	11/19/19 07:46	12/12/19 02:12	1
Perfluorononanoic acid (PFNA)	0.31	U	0.31	0.056	ug/Kg	☼	11/19/19 07:46	12/12/19 02:12	1
Perfluorodecanoic acid (PFDA)	0.31	U	0.31	0.034	ug/Kg	☼	11/19/19 07:46	12/12/19 02:12	1
Perfluoroundecanoic acid (PFUnA)	0.31	U	0.31	0.056	ug/Kg	☼	11/19/19 07:46	12/12/19 02:12	1
Perfluorododecanoic acid (PFDoA)	0.31	U	0.31	0.10	ug/Kg	☼	11/19/19 07:46	12/12/19 02:12	1
Perfluorotridecanoic acid (PFTriA)	0.31	U	0.31	0.079	ug/Kg	☼	11/19/19 07:46	12/12/19 02:12	1
Perfluorotetradecanoic acid (PFTeA)	0.31	U	0.31	0.084	ug/Kg	☼	11/19/19 07:46	12/12/19 02:12	1
Perfluorobutanesulfonic acid (PFBS)	0.31	U*	0.31	0.039	ug/Kg	☼	11/19/19 07:46	12/12/19 02:12	1
Perfluorohexanesulfonic acid (PFHxS)	0.31	U	0.31	0.048	ug/Kg	☼	11/19/19 07:46	12/12/19 02:12	1
Perfluorooctanesulfonic acid (PFOS)	0.36	J	0.78	0.31	ug/Kg	☼	11/19/19 07:46	12/12/19 02:12	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	3.11	U	3.11	0.57	ug/Kg	☼	11/19/19 07:46	12/12/19 02:12	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	3.11	U	3.11	0.61	ug/Kg	☼	11/19/19 07:46	12/12/19 02:12	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFHxA	81		25 - 150	11/19/19 07:46	12/12/19 02:12	1
13C4 PFHpA	85		25 - 150	11/19/19 07:46	12/12/19 02:12	1
13C4 PFOA	81		25 - 150	11/19/19 07:46	12/12/19 02:12	1
13C5 PFNA	84		25 - 150	11/19/19 07:46	12/12/19 02:12	1
13C2 PFDA	91		25 - 150	11/19/19 07:46	12/12/19 02:12	1
13C2 PFUnA	97		25 - 150	11/19/19 07:46	12/12/19 02:12	1
13C2 PFDoA	97		25 - 150	11/19/19 07:46	12/12/19 02:12	1
13C2 PFTeDA	85		25 - 150	11/19/19 07:46	12/12/19 02:12	1
18O2 PFHxS	77		25 - 150	11/19/19 07:46	12/12/19 02:12	1
13C4 PFOS	84		25 - 150	11/19/19 07:46	12/12/19 02:12	1
d3-NMeFOSAA	65		25 - 150	11/19/19 07:46	12/12/19 02:12	1
d5-NEtFOSAA	72		25 - 150	11/19/19 07:46	12/12/19 02:12	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196259-1

Client Sample ID: WSG-S17-0.5-2.0-0

Lab Sample ID: 460-196259-13

Date Collected: 11/05/19 13:45

Matrix: Solid

Date Received: 11/06/19 18:40

Percent Solids: 75.4

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	0.25	U	0.25	0.053	ug/Kg	☼	11/19/19 07:46	12/12/19 02:20	1
Perfluoroheptanoic acid (PFHpA)	0.25	U	0.25	0.036	ug/Kg	☼	11/19/19 07:46	12/12/19 02:20	1
Perfluorooctanoic acid (PFOA)	0.25	U	0.25	0.11	ug/Kg	☼	11/19/19 07:46	12/12/19 02:20	1
Perfluorononanoic acid (PFNA)	0.25	U	0.25	0.045	ug/Kg	☼	11/19/19 07:46	12/12/19 02:20	1
Perfluorodecanoic acid (PFDA)	0.25	U	0.25	0.028	ug/Kg	☼	11/19/19 07:46	12/12/19 02:20	1
Perfluoroundecanoic acid (PFUnA)	0.25	U	0.25	0.045	ug/Kg	☼	11/19/19 07:46	12/12/19 02:20	1
Perfluorododecanoic acid (PFDoA)	0.25	U	0.25	0.084	ug/Kg	☼	11/19/19 07:46	12/12/19 02:20	1
Perfluorotridecanoic acid (PFTriA)	0.25	U	0.25	0.064	ug/Kg	☼	11/19/19 07:46	12/12/19 02:20	1
Perfluorotetradecanoic acid (PFTeA)	0.25	U	0.25	0.068	ug/Kg	☼	11/19/19 07:46	12/12/19 02:20	1
Perfluorobutanesulfonic acid (PFBS)	0.25	U *	0.25	0.031	ug/Kg	☼	11/19/19 07:46	12/12/19 02:20	1
Perfluorohexanesulfonic acid (PFHxS)	0.25	U	0.25	0.039	ug/Kg	☼	11/19/19 07:46	12/12/19 02:20	1
Perfluorooctanesulfonic acid (PFOS)	0.54	J	0.63	0.25	ug/Kg	☼	11/19/19 07:46	12/12/19 02:20	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.50	U	2.50	0.46	ug/Kg	☼	11/19/19 07:46	12/12/19 02:20	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.50	U	2.50	0.49	ug/Kg	☼	11/19/19 07:46	12/12/19 02:20	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFHxA	93		25 - 150	11/19/19 07:46	12/12/19 02:20	1
13C4 PFHpA	98		25 - 150	11/19/19 07:46	12/12/19 02:20	1
13C4 PFOA	93		25 - 150	11/19/19 07:46	12/12/19 02:20	1
13C5 PFNA	97		25 - 150	11/19/19 07:46	12/12/19 02:20	1
13C2 PFDA	97		25 - 150	11/19/19 07:46	12/12/19 02:20	1
13C2 PFUnA	109		25 - 150	11/19/19 07:46	12/12/19 02:20	1
13C2 PFDoA	107		25 - 150	11/19/19 07:46	12/12/19 02:20	1
13C2 PFTeA	104		25 - 150	11/19/19 07:46	12/12/19 02:20	1
18O2 PFHxS	86		25 - 150	11/19/19 07:46	12/12/19 02:20	1
13C4 PFOS	92		25 - 150	11/19/19 07:46	12/12/19 02:20	1
d3-NMeFOSAA	59		25 - 150	11/19/19 07:46	12/12/19 02:20	1
d5-NEtFOSAA	66		25 - 150	11/19/19 07:46	12/12/19 02:20	1

Client Sample ID: WSG-S18-0.0-0.2-0

Lab Sample ID: 460-196259-14

Date Collected: 11/05/19 14:00

Matrix: Solid

Date Received: 11/06/19 18:40

Percent Solids: 72.6

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	0.27	U	0.27	0.057	ug/Kg	☼	11/19/19 07:46	12/12/19 02:28	1
Perfluoroheptanoic acid (PFHpA)	0.27	U	0.27	0.039	ug/Kg	☼	11/19/19 07:46	12/12/19 02:28	1
Perfluorooctanoic acid (PFOA)	0.27	U	0.27	0.12	ug/Kg	☼	11/19/19 07:46	12/12/19 02:28	1
Perfluorononanoic acid (PFNA)	0.27	U	0.27	0.049	ug/Kg	☼	11/19/19 07:46	12/12/19 02:28	1
Perfluorodecanoic acid (PFDA)	0.052	J	0.27	0.030	ug/Kg	☼	11/19/19 07:46	12/12/19 02:28	1
Perfluoroundecanoic acid (PFUnA)	0.092	J	0.27	0.049	ug/Kg	☼	11/19/19 07:46	12/12/19 02:28	1
Perfluorododecanoic acid (PFDoA)	0.27	U	0.27	0.091	ug/Kg	☼	11/19/19 07:46	12/12/19 02:28	1
Perfluorotridecanoic acid (PFTriA)	0.27	U	0.27	0.069	ug/Kg	☼	11/19/19 07:46	12/12/19 02:28	1
Perfluorotetradecanoic acid (PFTeA)	0.27	U	0.27	0.073	ug/Kg	☼	11/19/19 07:46	12/12/19 02:28	1
Perfluorobutanesulfonic acid (PFBS)	0.27	U *	0.27	0.034	ug/Kg	☼	11/19/19 07:46	12/12/19 02:28	1
Perfluorohexanesulfonic acid (PFHxS)	0.27	U	0.27	0.042	ug/Kg	☼	11/19/19 07:46	12/12/19 02:28	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196259-1

Client Sample ID: WSG-S18-0.0-0.2-0

Lab Sample ID: 460-196259-14

Date Collected: 11/05/19 14:00

Matrix: Solid

Date Received: 11/06/19 18:40

Percent Solids: 72.6

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	0.51	J	0.68	0.27	ug/Kg	☼	11/19/19 07:46	12/12/19 02:28	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.71	U	2.71	0.50	ug/Kg	☼	11/19/19 07:46	12/12/19 02:28	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.71	U	2.71	0.53	ug/Kg	☼	11/19/19 07:46	12/12/19 02:28	1
<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C2 PFHxA	92		25 - 150				11/19/19 07:46	12/12/19 02:28	1
13C4 PFHpA	90		25 - 150				11/19/19 07:46	12/12/19 02:28	1
13C4 PFOA	91		25 - 150				11/19/19 07:46	12/12/19 02:28	1
13C5 PFNA	91		25 - 150				11/19/19 07:46	12/12/19 02:28	1
13C2 PFDA	100		25 - 150				11/19/19 07:46	12/12/19 02:28	1
13C2 PFUnA	102		25 - 150				11/19/19 07:46	12/12/19 02:28	1
13C2 PFDoA	97		25 - 150				11/19/19 07:46	12/12/19 02:28	1
13C2 PFTeDA	87		25 - 150				11/19/19 07:46	12/12/19 02:28	1
18O2 PFHxS	86		25 - 150				11/19/19 07:46	12/12/19 02:28	1
13C4 PFOS	96		25 - 150				11/19/19 07:46	12/12/19 02:28	1
d3-NMeFOSAA	79		25 - 150				11/19/19 07:46	12/12/19 02:28	1
d5-NEtFOSAA	87		25 - 150				11/19/19 07:46	12/12/19 02:28	1

Client Sample ID: WSG-S18-0.5-2.0-0

Lab Sample ID: 460-196259-15

Date Collected: 11/05/19 14:10

Matrix: Solid

Date Received: 11/06/19 18:40

Percent Solids: 64.9

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	0.30	U	0.30	0.063	ug/Kg	☼	11/18/19 06:37	11/30/19 07:16	1
Perfluoroheptanoic acid (PFHpA)	0.30	U	0.30	0.044	ug/Kg	☼	11/18/19 06:37	11/30/19 07:16	1
Perfluorooctanoic acid (PFOA)	0.30	U	0.30	0.13	ug/Kg	☼	11/18/19 06:37	11/30/19 07:16	1
Perfluorononanoic acid (PFNA)	0.30	U	0.30	0.054	ug/Kg	☼	11/18/19 06:37	11/30/19 07:16	1
Perfluorodecanoic acid (PFDA)	0.29	J	0.30	0.033	ug/Kg	☼	11/18/19 06:37	11/30/19 07:16	1
Perfluoroundecanoic acid (PFUnA)	0.17	J	0.30	0.054	ug/Kg	☼	11/18/19 06:37	11/30/19 07:16	1
Perfluorododecanoic acid (PFDoA)	0.11	J	0.30	0.10	ug/Kg	☼	11/18/19 06:37	11/30/19 07:16	1
Perfluorotridecanoic acid (PFTriA)	0.086	J	0.30	0.077	ug/Kg	☼	11/18/19 06:37	11/30/19 07:16	1
Perfluorotetradecanoic acid (PFTeA)	0.30	U	0.30	0.081	ug/Kg	☼	11/18/19 06:37	11/30/19 07:16	1
Perfluorobutanesulfonic acid (PFBS)	0.30	U	0.30	0.038	ug/Kg	☼	11/18/19 06:37	11/30/19 07:16	1
Perfluorohexanesulfonic acid (PFHxS)	0.30	U	0.30	0.047	ug/Kg	☼	11/18/19 06:37	11/30/19 07:16	1
Perfluorooctanesulfonic acid (PFOS)	0.92	B	0.75	0.30	ug/Kg	☼	11/18/19 06:37	11/30/19 07:16	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	3.01	U	3.01	0.56	ug/Kg	☼	11/18/19 06:37	11/30/19 07:16	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	3.01	U	3.01	0.59	ug/Kg	☼	11/18/19 06:37	11/30/19 07:16	1
<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C2 PFHxA	103		25 - 150				11/18/19 06:37	11/30/19 07:16	1
13C4 PFHpA	106		25 - 150				11/18/19 06:37	11/30/19 07:16	1
13C4 PFOA	102		25 - 150				11/18/19 06:37	11/30/19 07:16	1
13C5 PFNA	104		25 - 150				11/18/19 06:37	11/30/19 07:16	1

Eurofins TestAmerica, Edison

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196259-1

Client Sample ID: WSG-S18-0.5-2.0-0

Lab Sample ID: 460-196259-15

Date Collected: 11/05/19 14:10

Matrix: Solid

Date Received: 11/06/19 18:40

Percent Solids: 64.9

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFDA	105		25 - 150	11/18/19 06:37	11/30/19 07:16	1
13C2 PFUnA	111		25 - 150	11/18/19 06:37	11/30/19 07:16	1
13C2 PFDoA	106		25 - 150	11/18/19 06:37	11/30/19 07:16	1
13C2 PFTeDA	105		25 - 150	11/18/19 06:37	11/30/19 07:16	1
18O2 PFHxS	113		25 - 150	11/18/19 06:37	11/30/19 07:16	1
13C4 PFOS	101		25 - 150	11/18/19 06:37	11/30/19 07:16	1
d3-NMeFOSAA	62		25 - 150	11/18/19 06:37	11/30/19 07:16	1
d5-NEtFOSAA	64		25 - 150	11/18/19 06:37	11/30/19 07:16	1

Method: 537 (modified) - Fluorinated Alkyl Substances - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	0.37	J H	0.75	0.30	ug/Kg	☼	12/04/19 07:00	12/06/19 18:41	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFOS	82		25 - 150	12/04/19 07:00	12/06/19 18:41	1

Client Sample ID: WSG-S23-0.0-0.2-0

Lab Sample ID: 460-196259-16

Date Collected: 11/05/19 14:20

Matrix: Solid

Date Received: 11/06/19 18:40

Percent Solids: 86.5

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	0.22	U	0.22	0.045	ug/Kg	☼	11/18/19 06:37	11/30/19 07:46	1
Perfluoroheptanoic acid (PFHpA)	0.22	U	0.22	0.031	ug/Kg	☼	11/18/19 06:37	11/30/19 07:46	1
Perfluorooctanoic acid (PFOA)	0.22	U	0.22	0.093	ug/Kg	☼	11/18/19 06:37	11/30/19 07:46	1
Perfluorononanoic acid (PFNA)	0.22	U	0.22	0.039	ug/Kg	☼	11/18/19 06:37	11/30/19 07:46	1
Perfluorodecanoic acid (PFDA)	0.10	J	0.22	0.024	ug/Kg	☼	11/18/19 06:37	11/30/19 07:46	1
Perfluoroundecanoic acid (PFUnA)	0.083	J	0.22	0.039	ug/Kg	☼	11/18/19 06:37	11/30/19 07:46	1
Perfluorododecanoic acid (PFDoA)	0.085	J	0.22	0.073	ug/Kg	☼	11/18/19 06:37	11/30/19 07:46	1
Perfluorotridecanoic acid (PFTriA)	0.22	U	0.22	0.055	ug/Kg	☼	11/18/19 06:37	11/30/19 07:46	1
Perfluorotetradecanoic acid (PFTeA)	0.22	U	0.22	0.058	ug/Kg	☼	11/18/19 06:37	11/30/19 07:46	1
Perfluorobutanesulfonic acid (PFBS)	0.22	U	0.22	0.027	ug/Kg	☼	11/18/19 06:37	11/30/19 07:46	1
Perfluorohexanesulfonic acid (PFHxS)	0.22	U	0.22	0.034	ug/Kg	☼	11/18/19 06:37	11/30/19 07:46	1
Perfluorooctanesulfonic acid (PFOS)	1.03	B	0.54	0.22	ug/Kg	☼	11/18/19 06:37	11/30/19 07:46	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.17	U	2.17	0.40	ug/Kg	☼	11/18/19 06:37	11/30/19 07:46	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.17	U	2.17	0.42	ug/Kg	☼	11/18/19 06:37	11/30/19 07:46	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFHxA	100		25 - 150	11/18/19 06:37	11/30/19 07:46	1
13C4 PFHpA	104		25 - 150	11/18/19 06:37	11/30/19 07:46	1
13C4 PFOA	104		25 - 150	11/18/19 06:37	11/30/19 07:46	1
13C5 PFNA	87		25 - 150	11/18/19 06:37	11/30/19 07:46	1
13C2 PFDA	105		25 - 150	11/18/19 06:37	11/30/19 07:46	1
13C2 PFUnA	107		25 - 150	11/18/19 06:37	11/30/19 07:46	1
13C2 PFDoA	108		25 - 150	11/18/19 06:37	11/30/19 07:46	1
13C2 PFTeDA	110		25 - 150	11/18/19 06:37	11/30/19 07:46	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196259-1

Client Sample ID: WSG-S23-0.0-0.2-0

Lab Sample ID: 460-196259-16

Date Collected: 11/05/19 14:20

Matrix: Solid

Date Received: 11/06/19 18:40

Percent Solids: 86.5

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
18O2 PFHxS	110		25 - 150	11/18/19 06:37	11/30/19 07:46	1
13C4 PFOS	94		25 - 150	11/18/19 06:37	11/30/19 07:46	1
d3-NMeFOSAA	30		25 - 150	11/18/19 06:37	11/30/19 07:46	1
d5-NEtFOSAA	32		25 - 150	11/18/19 06:37	11/30/19 07:46	1

Method: 537 (modified) - Fluorinated Alkyl Substances - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	0.56	U H	0.56	0.22	ug/Kg	☼	12/04/19 07:00	12/06/19 18:49	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFOS	86		25 - 150	12/04/19 07:00	12/06/19 18:49	1

Client Sample ID: WSG-S23-0.5-2.0-0

Lab Sample ID: 460-196259-17

Date Collected: 11/05/19 14:30

Matrix: Solid

Date Received: 11/06/19 18:40

Percent Solids: 90.2

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	0.21	U	0.21	0.044	ug/Kg	☼	11/19/19 07:46	12/12/19 02:37	1
Perfluoroheptanoic acid (PFHpA)	0.21	U	0.21	0.030	ug/Kg	☼	11/19/19 07:46	12/12/19 02:37	1
Perfluorooctanoic acid (PFOA)	0.21	U	0.21	0.090	ug/Kg	☼	11/19/19 07:46	12/12/19 02:37	1
Perfluorononanoic acid (PFNA)	0.21	U	0.21	0.038	ug/Kg	☼	11/19/19 07:46	12/12/19 02:37	1
Perfluorodecanoic acid (PFDA)	0.062	J	0.21	0.023	ug/Kg	☼	11/19/19 07:46	12/12/19 02:37	1
Perfluoroundecanoic acid (PFUnA)	0.090	J	0.21	0.038	ug/Kg	☼	11/19/19 07:46	12/12/19 02:37	1
Perfluorododecanoic acid (PFDoA)	0.15	J	0.21	0.070	ug/Kg	☼	11/19/19 07:46	12/12/19 02:37	1
Perfluorotridecanoic acid (PFTriA)	0.21	U	0.21	0.053	ug/Kg	☼	11/19/19 07:46	12/12/19 02:37	1
Perfluorotetradecanoic acid (PFTeA)	0.21	U	0.21	0.056	ug/Kg	☼	11/19/19 07:46	12/12/19 02:37	1
Perfluorobutanesulfonic acid (PFBS)	0.21	U *	0.21	0.026	ug/Kg	☼	11/19/19 07:46	12/12/19 02:37	1
Perfluorohexanesulfonic acid (PFHxS)	0.21	U	0.21	0.032	ug/Kg	☼	11/19/19 07:46	12/12/19 02:37	1
Perfluorooctanesulfonic acid (PFOS)	0.35	J	0.52	0.21	ug/Kg	☼	11/19/19 07:46	12/12/19 02:37	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.09	U	2.09	0.39	ug/Kg	☼	11/19/19 07:46	12/12/19 02:37	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.09	U	2.09	0.41	ug/Kg	☼	11/19/19 07:46	12/12/19 02:37	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFHxA	91		25 - 150	11/19/19 07:46	12/12/19 02:37	1
13C4 PFHpA	96		25 - 150	11/19/19 07:46	12/12/19 02:37	1
13C4 PFOA	93		25 - 150	11/19/19 07:46	12/12/19 02:37	1
13C5 PFNA	96		25 - 150	11/19/19 07:46	12/12/19 02:37	1
13C2 PFDA	104		25 - 150	11/19/19 07:46	12/12/19 02:37	1
13C2 PFUnA	101		25 - 150	11/19/19 07:46	12/12/19 02:37	1
13C2 PFDoA	98		25 - 150	11/19/19 07:46	12/12/19 02:37	1
13C2 PFTeA	91		25 - 150	11/19/19 07:46	12/12/19 02:37	1
18O2 PFHxS	87		25 - 150	11/19/19 07:46	12/12/19 02:37	1
13C4 PFOS	94		25 - 150	11/19/19 07:46	12/12/19 02:37	1
d3-NMeFOSAA	81		25 - 150	11/19/19 07:46	12/12/19 02:37	1
d5-NEtFOSAA	85		25 - 150	11/19/19 07:46	12/12/19 02:37	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196259-1

Client Sample ID: WSG-DEB-GR-0

Lab Sample ID: 460-196259-18

Date Collected: 11/05/19 12:10

Matrix: Solid

Date Received: 11/06/19 18:40

Percent Solids: 66.8

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.6	U	1.6	0.38	ug/Kg	☼	11/13/19 06:21	11/14/19 21:10	1
1,1,2,2-Tetrachloroethane	1.6	U	1.6	0.35	ug/Kg	☼	11/13/19 06:21	11/14/19 21:10	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.6	U	1.6	0.49	ug/Kg	☼	11/13/19 06:21	11/14/19 21:10	1
1,1,2-Trichloroethane	1.6	U	1.6	0.29	ug/Kg	☼	11/13/19 06:21	11/14/19 21:10	1
1,1-Dichloroethane	1.6	U	1.6	0.34	ug/Kg	☼	11/13/19 06:21	11/14/19 21:10	1
1,1-Dichloroethene	1.6	U	1.6	0.37	ug/Kg	☼	11/13/19 06:21	11/14/19 21:10	1
1,2,4-Trichlorobenzene	1.6	U	1.6	0.59	ug/Kg	☼	11/13/19 06:21	11/14/19 21:10	1
1,2-Dibromo-3-Chloropropane	1.6	U	1.6	0.75	ug/Kg	☼	11/13/19 06:21	11/14/19 21:10	1
1,2-Dichlorobenzene	1.6	U	1.6	0.24	ug/Kg	☼	11/13/19 06:21	11/14/19 21:10	1
1,2-Dichloroethane	1.6	U *	1.6	0.48	ug/Kg	☼	11/13/19 06:21	11/14/19 21:10	1
1,2-Dichloropropane	1.6	U	1.6	0.69	ug/Kg	☼	11/13/19 06:21	11/14/19 21:10	1
1,3-Dichlorobenzene	1.6	U	1.6	0.26	ug/Kg	☼	11/13/19 06:21	11/14/19 21:10	1
1,4-Dichlorobenzene	1.6	U	1.6	0.37	ug/Kg	☼	11/13/19 06:21	11/14/19 21:10	1
2-Butanone (MEK)	8.2	U	8.2	4.4	ug/Kg	☼	11/13/19 06:21	11/14/19 21:10	1
2-Hexanone	8.2	U	8.2	2.8	ug/Kg	☼	11/13/19 06:21	11/14/19 21:10	1
4-Methyl-2-pentanone (MIBK)	8.2	U	8.2	2.5	ug/Kg	☼	11/13/19 06:21	11/14/19 21:10	1
Acetone	9.8	U	9.8	9.4	ug/Kg	☼	11/13/19 06:21	11/14/19 21:10	1
Benzene	1.6	U	1.6	0.42	ug/Kg	☼	11/13/19 06:21	11/14/19 21:10	1
Bromoform	1.6	U	1.6	0.70	ug/Kg	☼	11/13/19 06:21	11/14/19 21:10	1
Bromomethane	1.6	U	1.6	0.78	ug/Kg	☼	11/13/19 06:21	11/14/19 21:10	1
Carbon disulfide	1.6	U	1.6	0.44	ug/Kg	☼	11/13/19 06:21	11/14/19 21:10	1
Carbon tetrachloride	1.6	U	1.6	0.63	ug/Kg	☼	11/13/19 06:21	11/14/19 21:10	1
Chlorobenzene	1.6	U	1.6	0.29	ug/Kg	☼	11/13/19 06:21	11/14/19 21:10	1
Chlorodibromomethane	1.6	U	1.6	0.32	ug/Kg	☼	11/13/19 06:21	11/14/19 21:10	1
Chloroethane	1.6	U	1.6	0.86	ug/Kg	☼	11/13/19 06:21	11/14/19 21:10	1
Chloroform	1.6	U	1.6	0.52	ug/Kg	☼	11/13/19 06:21	11/14/19 21:10	1
Chloromethane	1.6	U	1.6	0.71	ug/Kg	☼	11/13/19 06:21	11/14/19 21:10	1
cis-1,2-Dichloroethene	1.6	U	1.6	0.25	ug/Kg	☼	11/13/19 06:21	11/14/19 21:10	1
cis-1,3-Dichloropropene	1.6	U	1.6	0.45	ug/Kg	☼	11/13/19 06:21	11/14/19 21:10	1
Cyclohexane	1.6	U	1.6	0.36	ug/Kg	☼	11/13/19 06:21	11/14/19 21:10	1
Dichlorobromomethane	1.6	U	1.6	0.42	ug/Kg	☼	11/13/19 06:21	11/14/19 21:10	1
Dichlorodifluoromethane	1.6	U	1.6	0.55	ug/Kg	☼	11/13/19 06:21	11/14/19 21:10	1
Ethylbenzene	1.6	U	1.6	0.33	ug/Kg	☼	11/13/19 06:21	11/14/19 21:10	1
Ethylene Dibromide	1.6	U	1.6	0.29	ug/Kg	☼	11/13/19 06:21	11/14/19 21:10	1
Isopropylbenzene	1.6	U	1.6	0.21	ug/Kg	☼	11/13/19 06:21	11/14/19 21:10	1
Methyl acetate	8.2	U	8.2	7.0	ug/Kg	☼	11/13/19 06:21	11/14/19 21:10	1
Methyl tert-butyl ether	1.6	U	1.6	0.20	ug/Kg	☼	11/13/19 06:21	11/14/19 21:10	1
Methylcyclohexane	1.6	U	1.6	0.82	ug/Kg	☼	11/13/19 06:21	11/14/19 21:10	1
Methylene Chloride	1.6	U	1.6	0.76	ug/Kg	☼	11/13/19 06:21	11/14/19 21:10	1
Styrene	1.6	U	1.6	0.46	ug/Kg	☼	11/13/19 06:21	11/14/19 21:10	1
Tetrachloroethene	1.6	U	1.6	0.23	ug/Kg	☼	11/13/19 06:21	11/14/19 21:10	1
Toluene	1.6	U	1.6	0.38	ug/Kg	☼	11/13/19 06:21	11/14/19 21:10	1
trans-1,2-Dichloroethene	1.6	U	1.6	0.40	ug/Kg	☼	11/13/19 06:21	11/14/19 21:10	1
trans-1,3-Dichloropropene	1.6	U	1.6	0.44	ug/Kg	☼	11/13/19 06:21	11/14/19 21:10	1
Trichloroethene	1.6	U	1.6	0.24	ug/Kg	☼	11/13/19 06:21	11/14/19 21:10	1
Trichlorofluoromethane	1.6	U	1.6	0.67	ug/Kg	☼	11/13/19 06:21	11/14/19 21:10	1
Vinyl chloride	1.6	U	1.6	0.89	ug/Kg	☼	11/13/19 06:21	11/14/19 21:10	1
Xylenes, Total	3.3	U	3.3	0.29	ug/Kg	☼	11/13/19 06:21	11/14/19 21:10	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196259-1

Client Sample ID: WSG-DEB-GR-0

Lab Sample ID: 460-196259-18

Date Collected: 11/05/19 12:10

Matrix: Solid

Date Received: 11/06/19 18:40

Percent Solids: 66.8

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		78 - 135	11/13/19 06:21	11/14/19 21:10	1
4-Bromofluorobenzene	87		67 - 126	11/13/19 06:21	11/14/19 21:10	1
Dibromofluoromethane (Surr)	93		61 - 149	11/13/19 06:21	11/14/19 21:10	1
Toluene-d8 (Surr)	87		73 - 121	11/13/19 06:21	11/14/19 21:10	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	40	J	490	6.6	ug/Kg	☼	11/13/19 12:37	11/14/19 00:03	1
2,2'-oxybis[1-chloropropane]	490	U	490	9.0	ug/Kg	☼	11/13/19 12:37	11/14/19 00:03	1
2,4,5-Trichlorophenol	490	U	490	50	ug/Kg	☼	11/13/19 12:37	11/14/19 00:03	1
2,4,6-Trichlorophenol	200	U	200	64	ug/Kg	☼	11/13/19 12:37	11/14/19 00:03	1
2,4-Dichlorophenol	200	U	200	32	ug/Kg	☼	11/13/19 12:37	11/14/19 00:03	1
2,4-Dimethylphenol	490	U	490	22	ug/Kg	☼	11/13/19 12:37	11/14/19 00:03	1
2,4-Dinitrophenol	400	U	400	240	ug/Kg	☼	11/13/19 12:37	11/14/19 00:03	1
2,4-Dinitrotoluene	100	U	100	53	ug/Kg	☼	11/13/19 12:37	11/14/19 00:03	1
2,6-Dinitrotoluene	100	U	100	36	ug/Kg	☼	11/13/19 12:37	11/14/19 00:03	1
2-Chloronaphthalene	490	U	490	23	ug/Kg	☼	11/13/19 12:37	11/14/19 00:03	1
2-Chlorophenol	490	U	490	18	ug/Kg	☼	11/13/19 12:37	11/14/19 00:03	1
2-Methylnaphthalene	500		490	14	ug/Kg	☼	11/13/19 12:37	11/14/19 00:03	1
2-Methylphenol	490	U	490	18	ug/Kg	☼	11/13/19 12:37	11/14/19 00:03	1
2-Nitroaniline	490	U	490	19	ug/Kg	☼	11/13/19 12:37	11/14/19 00:03	1
2-Nitrophenol	490	U	490	50	ug/Kg	☼	11/13/19 12:37	11/14/19 00:03	1
3,3'-Dichlorobenzidine	200	U	200	75	ug/Kg	☼	11/13/19 12:37	11/14/19 00:03	1
3-Nitroaniline	490	U	490	56	ug/Kg	☼	11/13/19 12:37	11/14/19 00:03	1
4,6-Dinitro-2-methylphenol	400	U	400	80	ug/Kg	☼	11/13/19 12:37	11/14/19 00:03	1
4-Bromophenyl phenyl ether	490	U	490	20	ug/Kg	☼	11/13/19 12:37	11/14/19 00:03	1
4-Chloro-3-methylphenol	490	U	490	28	ug/Kg	☼	11/13/19 12:37	11/14/19 00:03	1
4-Chloroaniline	490	U	490	35	ug/Kg	☼	11/13/19 12:37	11/14/19 00:03	1
4-Chlorophenyl phenyl ether	490	U	490	17	ug/Kg	☼	11/13/19 12:37	11/14/19 00:03	1
4-Methylphenol	490	U	490	31	ug/Kg	☼	11/13/19 12:37	11/14/19 00:03	1
4-Nitroaniline	490	U	490	57	ug/Kg	☼	11/13/19 12:37	11/14/19 00:03	1
4-Nitrophenol	1000	U	1000	81	ug/Kg	☼	11/13/19 12:37	11/14/19 00:03	1
Acenaphthene	490	U	490	36	ug/Kg	☼	11/13/19 12:37	11/14/19 00:03	1
Acenaphthylene	31	J	490	5.1	ug/Kg	☼	11/13/19 12:37	11/14/19 00:03	1
Acetophenone	490	U	490	24	ug/Kg	☼	11/13/19 12:37	11/14/19 00:03	1
Anthracene	490	U	490	15	ug/Kg	☼	11/13/19 12:37	11/14/19 00:03	1
Atrazine	200	U	200	12	ug/Kg	☼	11/13/19 12:37	11/14/19 00:03	1
Benzaldehyde	490	U	490	22	ug/Kg	☼	11/13/19 12:37	11/14/19 00:03	1
Benzo[a]anthracene	34	J	49	17	ug/Kg	☼	11/13/19 12:37	11/14/19 00:03	1
Benzo[a]pyrene	24	J	49	13	ug/Kg	☼	11/13/19 12:37	11/14/19 00:03	1
Benzo[b]fluoranthene	29	J	49	13	ug/Kg	☼	11/13/19 12:37	11/14/19 00:03	1
Benzo[g,h,i]perylene	490	U	490	15	ug/Kg	☼	11/13/19 12:37	11/14/19 00:03	1
Benzo[k]fluoranthene	13	J	49	9.7	ug/Kg	☼	11/13/19 12:37	11/14/19 00:03	1
Bis(2-chloroethoxy)methane	490	U	490	39	ug/Kg	☼	11/13/19 12:37	11/14/19 00:03	1
Bis(2-chloroethyl)ether	49	U	49	17	ug/Kg	☼	11/13/19 12:37	11/14/19 00:03	1
Bis(2-ethylhexyl) phthalate	490	U	490	26	ug/Kg	☼	11/13/19 12:37	11/14/19 00:03	1
Butyl benzyl phthalate	490	U	490	23	ug/Kg	☼	11/13/19 12:37	11/14/19 00:03	1
Caprolactam	490	U	490	77	ug/Kg	☼	11/13/19 12:37	11/14/19 00:03	1
Carbazole	490	U	490	19	ug/Kg	☼	11/13/19 12:37	11/14/19 00:03	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196259-1

Client Sample ID: WSG-DEB-GR-0

Lab Sample ID: 460-196259-18

Date Collected: 11/05/19 12:10

Matrix: Solid

Date Received: 11/06/19 18:40

Percent Solids: 66.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	29	J	490	8.4	ug/Kg	☼	11/13/19 12:37	11/14/19 00:03	1
Dibenz(a,h)anthracene	49	U	49	21	ug/Kg	☼	11/13/19 12:37	11/14/19 00:03	1
Dibenzofuran	490	U	490	7.0	ug/Kg	☼	11/13/19 12:37	11/14/19 00:03	1
Diethyl phthalate	490	U	490	7.2	ug/Kg	☼	11/13/19 12:37	11/14/19 00:03	1
Dimethyl phthalate	490	U	490	110	ug/Kg	☼	11/13/19 12:37	11/14/19 00:03	1
Di-n-butyl phthalate	490	U	490	87	ug/Kg	☼	11/13/19 12:37	11/14/19 00:03	1
Di-n-octyl phthalate	490	U	490	26	ug/Kg	☼	11/13/19 12:37	11/14/19 00:03	1
Fluoranthene	53	J	490	17	ug/Kg	☼	11/13/19 12:37	11/14/19 00:03	1
Fluorene	46	J	490	6.7	ug/Kg	☼	11/13/19 12:37	11/14/19 00:03	1
Hexachlorobenzene	49	U	49	24	ug/Kg	☼	11/13/19 12:37	11/14/19 00:03	1
Hexachlorobutadiene	100	U	100	11	ug/Kg	☼	11/13/19 12:37	11/14/19 00:03	1
Hexachlorocyclopentadiene	490	U	490	43	ug/Kg	☼	11/13/19 12:37	11/14/19 00:03	1
Hexachloroethane	49	U	49	17	ug/Kg	☼	11/13/19 12:37	11/14/19 00:03	1
Indeno[1,2,3-cd]pyrene	49	U	49	19	ug/Kg	☼	11/13/19 12:37	11/14/19 00:03	1
Isophorone	200	U	200	140	ug/Kg	☼	11/13/19 12:37	11/14/19 00:03	1
Naphthalene	600		490	8.6	ug/Kg	☼	11/13/19 12:37	11/14/19 00:03	1
Nitrobenzene	49	U	49	12	ug/Kg	☼	11/13/19 12:37	11/14/19 00:03	1
N-Nitrosodi-n-propylamine	49	U	49	36	ug/Kg	☼	11/13/19 12:37	11/14/19 00:03	1
N-Nitrosodiphenylamine	490	U	490	9.5	ug/Kg	☼	11/13/19 12:37	11/14/19 00:03	1
Pentachlorophenol	400	U	400	100	ug/Kg	☼	11/13/19 12:37	11/14/19 00:03	1
Phenanthrene	120	J	490	8.7	ug/Kg	☼	11/13/19 12:37	11/14/19 00:03	1
Phenol	490	U	490	18	ug/Kg	☼	11/13/19 12:37	11/14/19 00:03	1
Pyrene	56	J	490	12	ug/Kg	☼	11/13/19 12:37	11/14/19 00:03	1
1,4-Dioxane	150	U	150	14	ug/Kg	☼	11/13/19 12:37	11/14/19 00:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	38		10 - 137	11/13/19 12:37	11/14/19 00:03	1
2-Fluorobiphenyl	74		29 - 107	11/13/19 12:37	11/14/19 00:03	1
2-Fluorophenol (Surr)	69		20 - 115	11/13/19 12:37	11/14/19 00:03	1
Nitrobenzene-d5 (Surr)	74		25 - 113	11/13/19 12:37	11/14/19 00:03	1
Phenol-d5 (Surr)	73		28 - 109	11/13/19 12:37	11/14/19 00:03	1
Terphenyl-d14 (Surr)	79		27 - 123	11/13/19 12:37	11/14/19 00:03	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	10	U	10	1.7	ug/Kg	☼	11/12/19 08:55	11/14/19 08:47	1
4,4'-DDE	12		10	1.2	ug/Kg	☼	11/12/19 08:55	11/14/19 08:47	1
4,4'-DDT	10	U	10	1.8	ug/Kg	☼	11/12/19 08:55	11/14/19 08:47	1
Aldrin	10	U	10	1.5	ug/Kg	☼	11/12/19 08:55	11/14/19 08:47	1
alpha-BHC	3.0	U	3.0	1.0	ug/Kg	☼	11/12/19 08:55	11/14/19 08:47	1
beta-BHC	3.0	U	3.0	1.1	ug/Kg	☼	11/12/19 08:55	11/14/19 08:47	1
Chlordane (technical)	470		100	24	ug/Kg	☼	11/12/19 08:55	11/14/19 08:47	1
delta-BHC	3.0	U	3.0	0.61	ug/Kg	☼	11/12/19 08:55	11/14/19 08:47	1
Dieldrin	3.0	U	3.0	1.3	ug/Kg	☼	11/12/19 08:55	11/14/19 08:47	1
Endosulfan I	10	U	10	1.5	ug/Kg	☼	11/12/19 08:55	11/14/19 08:47	1
Endosulfan II	10	U	10	2.6	ug/Kg	☼	11/12/19 08:55	11/14/19 08:47	1
Endosulfan sulfate	10	U	10	1.3	ug/Kg	☼	11/12/19 08:55	11/14/19 08:47	1
Endrin	10	U	10	1.4	ug/Kg	☼	11/12/19 08:55	11/14/19 08:47	1
Endrin aldehyde	10	U	10	2.4	ug/Kg	☼	11/12/19 08:55	11/14/19 08:47	1

Eurofins TestAmerica, Edison

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196259-1

Client Sample ID: WSG-DEB-GR-0

Lab Sample ID: 460-196259-18

Date Collected: 11/05/19 12:10

Matrix: Solid

Date Received: 11/06/19 18:40

Percent Solids: 66.8

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endrin ketone	10	U	10	1.9	ug/Kg	☼	11/12/19 08:55	11/14/19 08:47	1
gamma-BHC (Lindane)	3.0	U	3.0	0.93	ug/Kg	☼	11/12/19 08:55	11/14/19 08:47	1
Heptachlor	10	U	10	1.2	ug/Kg	☼	11/12/19 08:55	11/14/19 08:47	1
Heptachlor epoxide	10	U	10	1.5	ug/Kg	☼	11/12/19 08:55	11/14/19 08:47	1
Methoxychlor	10	U	10	2.3	ug/Kg	☼	11/12/19 08:55	11/14/19 08:47	1
Toxaphene	100	U	100	36	ug/Kg	☼	11/12/19 08:55	11/14/19 08:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	92		49 - 150	11/12/19 08:55	11/14/19 08:47	1
DCB Decachlorobiphenyl	94		49 - 150	11/12/19 08:55	11/14/19 08:47	1
Tetrachloro-m-xylene	92		47 - 150	11/12/19 08:55	11/14/19 08:47	1
Tetrachloro-m-xylene	89		47 - 150	11/12/19 08:55	11/14/19 08:47	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	100	U	100	13	ug/Kg	☼	11/12/19 08:47	11/13/19 17:28	1
Aroclor 1221	100	U	100	13	ug/Kg	☼	11/12/19 08:47	11/13/19 17:28	1
Aroclor 1232	100	U	100	13	ug/Kg	☼	11/12/19 08:47	11/13/19 17:28	1
Aroclor 1242	100	U	100	13	ug/Kg	☼	11/12/19 08:47	11/13/19 17:28	1
Aroclor 1248	100	U	100	13	ug/Kg	☼	11/12/19 08:47	11/13/19 17:28	1
Aroclor 1254	100	U	100	14	ug/Kg	☼	11/12/19 08:47	11/13/19 17:28	1
Aroclor 1260	100	U	100	14	ug/Kg	☼	11/12/19 08:47	11/13/19 17:28	1
Aroclor-1262	100	U	100	14	ug/Kg	☼	11/12/19 08:47	11/13/19 17:28	1
Aroclor 1268	100	U	100	14	ug/Kg	☼	11/12/19 08:47	11/13/19 17:28	1
Polychlorinated biphenyls, Total	100	U	100	14	ug/Kg	☼	11/12/19 08:47	11/13/19 17:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	110		53 - 150	11/12/19 08:47	11/13/19 17:28	1
DCB Decachlorobiphenyl	101		53 - 150	11/12/19 08:47	11/13/19 17:28	1

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	50	U	50	18	ug/Kg	☼	11/13/19 00:19	11/13/19 19:51	1
Silvex (2,4,5-TP)	50	U *	50	5.2	ug/Kg	☼	11/13/19 00:19	11/13/19 19:51	1
2,4,5-T	50	U *	50	11	ug/Kg	☼	11/13/19 00:19	11/13/19 19:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	141		30 - 150	11/13/19 00:19	11/13/19 19:51	1
2,4-Dichlorophenylacetic acid	123		30 - 150	11/13/19 00:19	11/13/19 19:51	1

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	0.28	U	0.28	0.058	ug/Kg	☼	11/19/19 07:46	12/12/19 02:45	1
Perfluoroheptanoic acid (PFHpA)	0.28	U	0.28	0.040	ug/Kg	☼	11/19/19 07:46	12/12/19 02:45	1
Perfluorooctanoic acid (PFOA)	0.28	U	0.28	0.12	ug/Kg	☼	11/19/19 07:46	12/12/19 02:45	1
Perfluorononanoic acid (PFNA)	0.28	U	0.28	0.050	ug/Kg	☼	11/19/19 07:46	12/12/19 02:45	1
Perfluorodecanoic acid (PFDA)	0.28	U	0.28	0.030	ug/Kg	☼	11/19/19 07:46	12/12/19 02:45	1
Perfluoroundecanoic acid (PFUnA)	0.28	U	0.28	0.050	ug/Kg	☼	11/19/19 07:46	12/12/19 02:45	1
Perfluorododecanoic acid (PFDoA)	0.28	U	0.28	0.093	ug/Kg	☼	11/19/19 07:46	12/12/19 02:45	1
Perfluorotridecanoic acid (PFTriA)	0.28	U	0.28	0.070	ug/Kg	☼	11/19/19 07:46	12/12/19 02:45	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196259-1

Client Sample ID: WSG-DEB-GR-0

Lab Sample ID: 460-196259-18

Date Collected: 11/05/19 12:10

Matrix: Solid

Date Received: 11/06/19 18:40

Percent Solids: 66.8

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorotetradecanoic acid (PFTeA)	0.28	U	0.28	0.075	ug/Kg	☒	11/19/19 07:46	12/12/19 02:45	1
Perfluorobutanesulfonic acid (PFBS)	0.28	U *	0.28	0.035	ug/Kg	☒	11/19/19 07:46	12/12/19 02:45	1
Perfluorohexanesulfonic acid (PFHxS)	0.28	U	0.28	0.043	ug/Kg	☒	11/19/19 07:46	12/12/19 02:45	1
Perfluorooctanesulfonic acid (PFOS)	0.69	U	0.69	0.28	ug/Kg	☒	11/19/19 07:46	12/12/19 02:45	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.76	U	2.76	0.51	ug/Kg	☒	11/19/19 07:46	12/12/19 02:45	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.76	U	2.76	0.54	ug/Kg	☒	11/19/19 07:46	12/12/19 02:45	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFHxA	89		25 - 150	11/19/19 07:46	12/12/19 02:45	1
13C4 PFHpA	92		25 - 150	11/19/19 07:46	12/12/19 02:45	1
13C4 PFOA	87		25 - 150	11/19/19 07:46	12/12/19 02:45	1
13C5 PFNA	89		25 - 150	11/19/19 07:46	12/12/19 02:45	1
13C2 PFDA	90		25 - 150	11/19/19 07:46	12/12/19 02:45	1
13C2 PFUnA	95		25 - 150	11/19/19 07:46	12/12/19 02:45	1
13C2 PFDoA	98		25 - 150	11/19/19 07:46	12/12/19 02:45	1
13C2 PFTeDA	96		25 - 150	11/19/19 07:46	12/12/19 02:45	1
18O2 PFHxS	82		25 - 150	11/19/19 07:46	12/12/19 02:45	1
13C4 PFOS	88		25 - 150	11/19/19 07:46	12/12/19 02:45	1
d3-NMeFOSAA	78		25 - 150	11/19/19 07:46	12/12/19 02:45	1
d5-NEtFOSAA	85		25 - 150	11/19/19 07:46	12/12/19 02:45	1

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	8430		43.2	21.2	mg/Kg	☒	11/15/19 05:56	11/16/19 12:57	4
Silver	2.9	U	2.9	0.27	mg/Kg	☒	11/15/19 05:56	11/16/19 12:57	4
Aluminum	8430		57.6	16.3	mg/Kg	☒	11/15/19 05:56	11/16/19 12:57	4
Arsenic	2.6	J	4.3	1.7	mg/Kg	☒	11/15/19 05:56	11/16/19 12:57	4
Boron	16.8		14.4	4.0	mg/Kg	☒	11/15/19 05:56	11/16/19 12:57	4
Barium	47.5	J	57.6	3.2	mg/Kg	☒	11/15/19 05:56	11/16/19 12:57	4
Beryllium	0.40	J	0.58	0.13	mg/Kg	☒	11/15/19 05:56	11/16/19 12:57	4
Calcium	120000		1440	84.8	mg/Kg	☒	11/15/19 05:56	11/16/19 12:57	4
Cadmium	1.2	U	1.2	0.20	mg/Kg	☒	11/15/19 05:56	11/16/19 12:57	4
Cobalt	3.0	J	14.4	1.8	mg/Kg	☒	11/15/19 05:56	11/16/19 12:57	4
Chromium	35.9		2.9	0.51	mg/Kg	☒	11/15/19 05:56	11/16/19 12:57	4
Copper	23.5		7.2	3.8	mg/Kg	☒	11/15/19 05:56	11/16/19 12:57	4
Potassium	624	J	1440	89.6	mg/Kg	☒	11/15/19 05:56	11/16/19 12:57	4
Magnesium	6430		1440	83.9	mg/Kg	☒	11/15/19 05:56	11/16/19 12:57	4
Manganese	377		4.3	0.50	mg/Kg	☒	11/15/19 05:56	11/16/19 12:57	4
Molybdenum	5.8	U	5.8	1.4	mg/Kg	☒	11/15/19 05:56	11/16/19 12:57	4
Sodium	1680		1440	116	mg/Kg	☒	11/15/19 05:56	11/16/19 12:57	4
Nickel	17.2		11.5	1.1	mg/Kg	☒	11/15/19 05:56	11/16/19 12:57	4
Lead	9.7		2.9	0.75	mg/Kg	☒	11/15/19 05:56	11/16/19 12:57	4
Antimony	5.8	U	5.8	1.5	mg/Kg	☒	11/15/19 05:56	11/16/19 12:57	4
Selenium	5.8	U	5.8	3.4	mg/Kg	☒	11/15/19 05:56	11/16/19 12:57	4
Tin	14.4	U	14.4	9.3	mg/Kg	☒	11/15/19 05:56	11/16/19 12:57	4
Strontium	491		5.8	0.57	mg/Kg	☒	11/15/19 05:56	11/16/19 12:57	4
Titanium	420		5.8	0.87	mg/Kg	☒	11/15/19 05:56	11/16/19 12:57	4
Thallium	5.8	U	5.8	0.92	mg/Kg	☒	11/15/19 05:56	11/16/19 12:57	4

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196259-1

Client Sample ID: WSG-DEB-GR-0

Lab Sample ID: 460-196259-18

Date Collected: 11/05/19 12:10

Matrix: Solid

Date Received: 11/06/19 18:40

Percent Solids: 66.8

Method: 6010D - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vanadium	28.7		14.4	0.96	mg/Kg	☼	11/15/19 05:56	11/16/19 12:57	4
Zinc	209		8.6	6.7	mg/Kg	☼	11/15/19 05:56	11/16/19 12:57	4

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.022	U	0.022	0.013	mg/Kg	☼	11/15/19 02:43	11/15/19 07:24	1

Client Sample ID: WSG-G55-7-8-0

Lab Sample ID: 460-196259-19

Date Collected: 11/05/19 12:55

Matrix: Solid

Date Received: 11/06/19 18:40

Percent Solids: 91.1

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	0.21	U	0.21	0.044	ug/Kg	☼	11/19/19 07:46	12/12/19 03:09	1
Perfluoroheptanoic acid (PFHpA)	0.21	U	0.21	0.030	ug/Kg	☼	11/19/19 07:46	12/12/19 03:09	1
Perfluorooctanoic acid (PFOA)	0.21	U	0.21	0.089	ug/Kg	☼	11/19/19 07:46	12/12/19 03:09	1
Perfluorononanoic acid (PFNA)	0.21	U	0.21	0.037	ug/Kg	☼	11/19/19 07:46	12/12/19 03:09	1
Perfluorodecanoic acid (PFDA)	0.21	U	0.21	0.023	ug/Kg	☼	11/19/19 07:46	12/12/19 03:09	1
Perfluoroundecanoic acid (PFUnA)	0.21	U	0.21	0.037	ug/Kg	☼	11/19/19 07:46	12/12/19 03:09	1
Perfluorododecanoic acid (PFDoA)	0.21	U	0.21	0.070	ug/Kg	☼	11/19/19 07:46	12/12/19 03:09	1
Perfluorotridecanoic acid (PFTriA)	0.21	U	0.21	0.053	ug/Kg	☼	11/19/19 07:46	12/12/19 03:09	1
Perfluorotetradecanoic acid (PFTeA)	0.21	U	0.21	0.056	ug/Kg	☼	11/19/19 07:46	12/12/19 03:09	1
Perfluorobutanesulfonic acid (PFBS)	0.21	U *	0.21	0.026	ug/Kg	☼	11/19/19 07:46	12/12/19 03:09	1
Perfluorohexanesulfonic acid (PFHxS)	0.033	J	0.21	0.032	ug/Kg	☼	11/19/19 07:46	12/12/19 03:09	1
Perfluorooctanesulfonic acid (PFOS)	1.05		0.52	0.21	ug/Kg	☼	11/19/19 07:46	12/12/19 03:09	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.08	U	2.08	0.38	ug/Kg	☼	11/19/19 07:46	12/12/19 03:09	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.08	U	2.08	0.40	ug/Kg	☼	11/19/19 07:46	12/12/19 03:09	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFHxA	90		25 - 150	11/19/19 07:46	12/12/19 03:09	1
13C4 PFHpA	95		25 - 150	11/19/19 07:46	12/12/19 03:09	1
13C4 PFOA	96		25 - 150	11/19/19 07:46	12/12/19 03:09	1
13C5 PFNA	94		25 - 150	11/19/19 07:46	12/12/19 03:09	1
13C2 PFDA	103		25 - 150	11/19/19 07:46	12/12/19 03:09	1
13C2 PFUnA	108		25 - 150	11/19/19 07:46	12/12/19 03:09	1
13C2 PFDoA	104		25 - 150	11/19/19 07:46	12/12/19 03:09	1
13C2 PFTeA	97		25 - 150	11/19/19 07:46	12/12/19 03:09	1
18O2 PFHxS	80		25 - 150	11/19/19 07:46	12/12/19 03:09	1
13C4 PFOS	87		25 - 150	11/19/19 07:46	12/12/19 03:09	1
d3-NMeFOSAA	26		25 - 150	11/19/19 07:46	12/12/19 03:09	1
d5-NEtFOSAA	29		25 - 150	11/19/19 07:46	12/12/19 03:09	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196259-1

Client Sample ID: WSG-GS3-0.0-0.2-0

Lab Sample ID: 460-196259-20

Date Collected: 11/05/19 13:25

Matrix: Solid

Date Received: 11/06/19 18:40

Percent Solids: 73.0

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.2	U	1.2	0.28	ug/Kg	☒	11/13/19 06:22	11/14/19 21:35	1
1,1,2,2-Tetrachloroethane	1.2	U	1.2	0.26	ug/Kg	☒	11/13/19 06:22	11/14/19 21:35	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.2	U	1.2	0.36	ug/Kg	☒	11/13/19 06:22	11/14/19 21:35	1
1,1,2-Trichloroethane	1.2	U	1.2	0.21	ug/Kg	☒	11/13/19 06:22	11/14/19 21:35	1
1,1-Dichloroethane	1.2	U	1.2	0.25	ug/Kg	☒	11/13/19 06:22	11/14/19 21:35	1
1,1-Dichloroethene	1.2	U	1.2	0.27	ug/Kg	☒	11/13/19 06:22	11/14/19 21:35	1
1,2,4-Trichlorobenzene	1.2	U	1.2	0.43	ug/Kg	☒	11/13/19 06:22	11/14/19 21:35	1
1,2-Dibromo-3-Chloropropane	1.2	U	1.2	0.55	ug/Kg	☒	11/13/19 06:22	11/14/19 21:35	1
1,2-Dichlorobenzene	1.2	U	1.2	0.17	ug/Kg	☒	11/13/19 06:22	11/14/19 21:35	1
1,2-Dichloroethane	1.2	U*	1.2	0.35	ug/Kg	☒	11/13/19 06:22	11/14/19 21:35	1
1,2-Dichloropropane	1.2	U	1.2	0.51	ug/Kg	☒	11/13/19 06:22	11/14/19 21:35	1
1,3-Dichlorobenzene	1.2	U	1.2	0.19	ug/Kg	☒	11/13/19 06:22	11/14/19 21:35	1
1,4-Dichlorobenzene	1.2	U	1.2	0.27	ug/Kg	☒	11/13/19 06:22	11/14/19 21:35	1
2-Butanone (MEK)	7.9		6.0	3.2	ug/Kg	☒	11/13/19 06:22	11/14/19 21:35	1
2-Hexanone	6.0	U	6.0	2.0	ug/Kg	☒	11/13/19 06:22	11/14/19 21:35	1
4-Methyl-2-pentanone (MIBK)	6.0	U	6.0	1.9	ug/Kg	☒	11/13/19 06:22	11/14/19 21:35	1
Acetone	26		7.2	6.8	ug/Kg	☒	11/13/19 06:22	11/14/19 21:35	1
Benzene	1.2	U	1.2	0.31	ug/Kg	☒	11/13/19 06:22	11/14/19 21:35	1
Bromoform	1.2	U	1.2	0.51	ug/Kg	☒	11/13/19 06:22	11/14/19 21:35	1
Bromomethane	1.2	U	1.2	0.57	ug/Kg	☒	11/13/19 06:22	11/14/19 21:35	1
Carbon disulfide	1.2	U	1.2	0.32	ug/Kg	☒	11/13/19 06:22	11/14/19 21:35	1
Carbon tetrachloride	1.2	U	1.2	0.46	ug/Kg	☒	11/13/19 06:22	11/14/19 21:35	1
Chlorobenzene	1.2	U	1.2	0.21	ug/Kg	☒	11/13/19 06:22	11/14/19 21:35	1
Chlorodibromomethane	1.2	U	1.2	0.23	ug/Kg	☒	11/13/19 06:22	11/14/19 21:35	1
Chloroethane	1.2	U	1.2	0.63	ug/Kg	☒	11/13/19 06:22	11/14/19 21:35	1
Chloroform	1.2	U	1.2	0.38	ug/Kg	☒	11/13/19 06:22	11/14/19 21:35	1
Chloromethane	1.2	U	1.2	0.52	ug/Kg	☒	11/13/19 06:22	11/14/19 21:35	1
cis-1,2-Dichloroethene	1.2	U	1.2	0.18	ug/Kg	☒	11/13/19 06:22	11/14/19 21:35	1
cis-1,3-Dichloropropene	1.2	U	1.2	0.33	ug/Kg	☒	11/13/19 06:22	11/14/19 21:35	1
Cyclohexane	1.2	U	1.2	0.26	ug/Kg	☒	11/13/19 06:22	11/14/19 21:35	1
Dichlorobromomethane	1.2	U	1.2	0.31	ug/Kg	☒	11/13/19 06:22	11/14/19 21:35	1
Dichlorodifluoromethane	1.2	U	1.2	0.40	ug/Kg	☒	11/13/19 06:22	11/14/19 21:35	1
Ethylbenzene	1.2	U	1.2	0.24	ug/Kg	☒	11/13/19 06:22	11/14/19 21:35	1
Ethylene Dibromide	1.2	U	1.2	0.22	ug/Kg	☒	11/13/19 06:22	11/14/19 21:35	1
Isopropylbenzene	1.2	U	1.2	0.15	ug/Kg	☒	11/13/19 06:22	11/14/19 21:35	1
Methyl acetate	6.0	U	6.0	5.1	ug/Kg	☒	11/13/19 06:22	11/14/19 21:35	1
Methyl tert-butyl ether	1.2	U	1.2	0.15	ug/Kg	☒	11/13/19 06:22	11/14/19 21:35	1
Methylcyclohexane	1.2	U	1.2	0.60	ug/Kg	☒	11/13/19 06:22	11/14/19 21:35	1
Methylene Chloride	1.2	U	1.2	0.56	ug/Kg	☒	11/13/19 06:22	11/14/19 21:35	1
Styrene	1.2	U	1.2	0.33	ug/Kg	☒	11/13/19 06:22	11/14/19 21:35	1
Tetrachloroethene	1.2	U	1.2	0.17	ug/Kg	☒	11/13/19 06:22	11/14/19 21:35	1
Toluene	1.2	U	1.2	0.28	ug/Kg	☒	11/13/19 06:22	11/14/19 21:35	1
trans-1,2-Dichloroethene	1.2	U	1.2	0.29	ug/Kg	☒	11/13/19 06:22	11/14/19 21:35	1
trans-1,3-Dichloropropene	1.2	U	1.2	0.32	ug/Kg	☒	11/13/19 06:22	11/14/19 21:35	1
Trichloroethene	1.2	U	1.2	0.17	ug/Kg	☒	11/13/19 06:22	11/14/19 21:35	1
Trichlorofluoromethane	1.2	U	1.2	0.49	ug/Kg	☒	11/13/19 06:22	11/14/19 21:35	1
Vinyl chloride	1.2	U	1.2	0.65	ug/Kg	☒	11/13/19 06:22	11/14/19 21:35	1
Xylenes, Total	2.4	U	2.4	0.21	ug/Kg	☒	11/13/19 06:22	11/14/19 21:35	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196259-1

Client Sample ID: WSG-GS3-0.0-0.2-0

Lab Sample ID: 460-196259-20

Date Collected: 11/05/19 13:25

Matrix: Solid

Date Received: 11/06/19 18:40

Percent Solids: 73.0

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110		78 - 135	11/13/19 06:22	11/14/19 21:35	1
4-Bromofluorobenzene	92		67 - 126	11/13/19 06:22	11/14/19 21:35	1
Dibromofluoromethane (Surr)	96		61 - 149	11/13/19 06:22	11/14/19 21:35	1
Toluene-d8 (Surr)	89		73 - 121	11/13/19 06:22	11/14/19 21:35	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	450	U	450	6.0	ug/Kg	☼	11/13/19 12:37	11/14/19 07:20	1
2,2'-oxybis[1-chloropropane]	450	U	450	8.2	ug/Kg	☼	11/13/19 12:37	11/14/19 07:20	1
2,4,5-Trichlorophenol	450	U	450	46	ug/Kg	☼	11/13/19 12:37	11/14/19 07:20	1
2,4,6-Trichlorophenol	180	U	180	58	ug/Kg	☼	11/13/19 12:37	11/14/19 07:20	1
2,4-Dichlorophenol	180	U	180	29	ug/Kg	☼	11/13/19 12:37	11/14/19 07:20	1
2,4-Dimethylphenol	450	U	450	20	ug/Kg	☼	11/13/19 12:37	11/14/19 07:20	1
2,4-Dinitrophenol	360	U	360	220	ug/Kg	☼	11/13/19 12:37	11/14/19 07:20	1
2,4-Dinitrotoluene	92	U	92	49	ug/Kg	☼	11/13/19 12:37	11/14/19 07:20	1
2,6-Dinitrotoluene	92	U	92	33	ug/Kg	☼	11/13/19 12:37	11/14/19 07:20	1
2-Chloronaphthalene	450	U	450	21	ug/Kg	☼	11/13/19 12:37	11/14/19 07:20	1
2-Chlorophenol	450	U	450	16	ug/Kg	☼	11/13/19 12:37	11/14/19 07:20	1
2-Methylnaphthalene	450	U	450	13	ug/Kg	☼	11/13/19 12:37	11/14/19 07:20	1
2-Methylphenol	450	U	450	17	ug/Kg	☼	11/13/19 12:37	11/14/19 07:20	1
2-Nitroaniline	450	U	450	17	ug/Kg	☼	11/13/19 12:37	11/14/19 07:20	1
2-Nitrophenol	450	U	450	45	ug/Kg	☼	11/13/19 12:37	11/14/19 07:20	1
3,3'-Dichlorobenzidine	180	U	180	68	ug/Kg	☼	11/13/19 12:37	11/14/19 07:20	1
3-Nitroaniline	450	U	450	51	ug/Kg	☼	11/13/19 12:37	11/14/19 07:20	1
4,6-Dinitro-2-methylphenol	360	U	360	74	ug/Kg	☼	11/13/19 12:37	11/14/19 07:20	1
4-Bromophenyl phenyl ether	450	U	450	18	ug/Kg	☼	11/13/19 12:37	11/14/19 07:20	1
4-Chloro-3-methylphenol	450	U	450	25	ug/Kg	☼	11/13/19 12:37	11/14/19 07:20	1
4-Chloroaniline	450	U	450	32	ug/Kg	☼	11/13/19 12:37	11/14/19 07:20	1
4-Chlorophenyl phenyl ether	450	U	450	16	ug/Kg	☼	11/13/19 12:37	11/14/19 07:20	1
4-Methylphenol	450	U	450	28	ug/Kg	☼	11/13/19 12:37	11/14/19 07:20	1
4-Nitroaniline	450	U	450	52	ug/Kg	☼	11/13/19 12:37	11/14/19 07:20	1
4-Nitrophenol	920	U	920	74	ug/Kg	☼	11/13/19 12:37	11/14/19 07:20	1
Acenaphthene	450	U	450	33	ug/Kg	☼	11/13/19 12:37	11/14/19 07:20	1
Acenaphthylene	450	U	450	4.7	ug/Kg	☼	11/13/19 12:37	11/14/19 07:20	1
Acetophenone	450	U	450	22	ug/Kg	☼	11/13/19 12:37	11/14/19 07:20	1
Anthracene	26	J	450	14	ug/Kg	☼	11/13/19 12:37	11/14/19 07:20	1
Atrazine	180	U	180	11	ug/Kg	☼	11/13/19 12:37	11/14/19 07:20	1
Benzaldehyde	66	J	450	20	ug/Kg	☼	11/13/19 12:37	11/14/19 07:20	1
Benzo[a]anthracene	41	J	45	16	ug/Kg	☼	11/13/19 12:37	11/14/19 07:20	1
Benzo[a]pyrene	42	J	45	12	ug/Kg	☼	11/13/19 12:37	11/14/19 07:20	1
Benzo[b]fluoranthene	66		45	12	ug/Kg	☼	11/13/19 12:37	11/14/19 07:20	1
Benzo[g,h,i]perylene	110	J	450	13	ug/Kg	☼	11/13/19 12:37	11/14/19 07:20	1
Benzo[k]fluoranthene	21	J	45	8.9	ug/Kg	☼	11/13/19 12:37	11/14/19 07:20	1
Bis(2-chloroethoxy)methane	450	U	450	35	ug/Kg	☼	11/13/19 12:37	11/14/19 07:20	1
Bis(2-chloroethyl)ether	45	U	45	16	ug/Kg	☼	11/13/19 12:37	11/14/19 07:20	1
Bis(2-ethylhexyl) phthalate	450	U	450	24	ug/Kg	☼	11/13/19 12:37	11/14/19 07:20	1
Butyl benzyl phthalate	450	U	450	21	ug/Kg	☼	11/13/19 12:37	11/14/19 07:20	1
Caprolactam	450	U	450	71	ug/Kg	☼	11/13/19 12:37	11/14/19 07:20	1
Carbazole	450	U	450	17	ug/Kg	☼	11/13/19 12:37	11/14/19 07:20	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196259-1

Client Sample ID: WSG-GS3-0.0-0.2-0

Lab Sample ID: 460-196259-20

Date Collected: 11/05/19 13:25

Matrix: Solid

Date Received: 11/06/19 18:40

Percent Solids: 73.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	45	J	450	7.7	ug/Kg	☼	11/13/19 12:37	11/14/19 07:20	1
Dibenz(a,h)anthracene	21	J	45	20	ug/Kg	☼	11/13/19 12:37	11/14/19 07:20	1
Dibenzofuran	450	U	450	6.4	ug/Kg	☼	11/13/19 12:37	11/14/19 07:20	1
Diethyl phthalate	450	U	450	6.6	ug/Kg	☼	11/13/19 12:37	11/14/19 07:20	1
Dimethyl phthalate	450	U	450	100	ug/Kg	☼	11/13/19 12:37	11/14/19 07:20	1
Di-n-butyl phthalate	450	U	450	80	ug/Kg	☼	11/13/19 12:37	11/14/19 07:20	1
Di-n-octyl phthalate	450	U	450	24	ug/Kg	☼	11/13/19 12:37	11/14/19 07:20	1
Fluoranthene	68	J	450	16	ug/Kg	☼	11/13/19 12:37	11/14/19 07:20	1
Fluorene	450	U	450	6.1	ug/Kg	☼	11/13/19 12:37	11/14/19 07:20	1
Hexachlorobenzene	45	U	45	22	ug/Kg	☼	11/13/19 12:37	11/14/19 07:20	1
Hexachlorobutadiene	92	U	92	9.6	ug/Kg	☼	11/13/19 12:37	11/14/19 07:20	1
Hexachlorocyclopentadiene	450	U	450	40	ug/Kg	☼	11/13/19 12:37	11/14/19 07:20	1
Hexachloroethane	45	U	45	16	ug/Kg	☼	11/13/19 12:37	11/14/19 07:20	1
Indeno[1,2,3-cd]pyrene	98		45	18	ug/Kg	☼	11/13/19 12:37	11/14/19 07:20	1
Isophorone	180	U	180	130	ug/Kg	☼	11/13/19 12:37	11/14/19 07:20	1
Naphthalene	450	U	450	7.8	ug/Kg	☼	11/13/19 12:37	11/14/19 07:20	1
Nitrobenzene	45	U	45	11	ug/Kg	☼	11/13/19 12:37	11/14/19 07:20	1
N-Nitrosodi-n-propylamine	45	U	45	33	ug/Kg	☼	11/13/19 12:37	11/14/19 07:20	1
N-Nitrosodiphenylamine	450	U	450	8.7	ug/Kg	☼	11/13/19 12:37	11/14/19 07:20	1
Pentachlorophenol	360	U	360	93	ug/Kg	☼	11/13/19 12:37	11/14/19 07:20	1
Phenanthrene	33	J	450	8.0	ug/Kg	☼	11/13/19 12:37	11/14/19 07:20	1
Phenol	450	U	450	17	ug/Kg	☼	11/13/19 12:37	11/14/19 07:20	1
Pyrene	55	J	450	11	ug/Kg	☼	11/13/19 12:37	11/14/19 07:20	1
1,4-Dioxane	140	U	140	12	ug/Kg	☼	11/13/19 12:37	11/14/19 07:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	72		10 - 137	11/13/19 12:37	11/14/19 07:20	1
2-Fluorobiphenyl	67		29 - 107	11/13/19 12:37	11/14/19 07:20	1
2-Fluorophenol (Surr)	63		20 - 115	11/13/19 12:37	11/14/19 07:20	1
Nitrobenzene-d5 (Surr)	66		25 - 113	11/13/19 12:37	11/14/19 07:20	1
Phenol-d5 (Surr)	65		28 - 109	11/13/19 12:37	11/14/19 07:20	1
Terphenyl-d14 (Surr)	68		27 - 123	11/13/19 12:37	11/14/19 07:20	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	8.9	J	9.2	1.6	ug/Kg	☼	11/12/19 08:55	11/14/19 09:03	1
4,4'-DDE	24		9.2	1.1	ug/Kg	☼	11/12/19 08:55	11/14/19 09:03	1
4,4'-DDT	2.5	J p	9.2	1.7	ug/Kg	☼	11/12/19 08:55	11/14/19 09:03	1
Aldrin	9.2	U	9.2	1.4	ug/Kg	☼	11/12/19 08:55	11/14/19 09:03	1
alpha-BHC	2.7	U	2.7	0.93	ug/Kg	☼	11/12/19 08:55	11/14/19 09:03	1
beta-BHC	2.7	U	2.7	1.0	ug/Kg	☼	11/12/19 08:55	11/14/19 09:03	1
Chlordane (technical)	92	U	92	22	ug/Kg	☼	11/12/19 08:55	11/14/19 09:03	1
delta-BHC	2.7	U	2.7	0.56	ug/Kg	☼	11/12/19 08:55	11/14/19 09:03	1
Dieldrin	2.7	U	2.7	1.2	ug/Kg	☼	11/12/19 08:55	11/14/19 09:03	1
Endosulfan I	9.2	U	9.2	1.4	ug/Kg	☼	11/12/19 08:55	11/14/19 09:03	1
Endosulfan II	9.2	U	9.2	2.4	ug/Kg	☼	11/12/19 08:55	11/14/19 09:03	1
Endosulfan sulfate	9.2	U	9.2	1.2	ug/Kg	☼	11/12/19 08:55	11/14/19 09:03	1
Endrin	9.2	U	9.2	1.3	ug/Kg	☼	11/12/19 08:55	11/14/19 09:03	1
Endrin aldehyde	9.2	U	9.2	2.2	ug/Kg	☼	11/12/19 08:55	11/14/19 09:03	1

Eurofins TestAmerica, Edison

Client Sample Results

Client: New York State D.E.C.
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Lab Sample ID: 460-196259-20

Date Collected: 11/05/19 13:25

Matrix: Solid

Date Received: 11/06/19 18:40

Percent Solids: 73.0

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endrin ketone	9.2	U	9.2	1.8	ug/Kg	☼	11/12/19 08:55	11/14/19 09:03	1
gamma-BHC (Lindane)	2.7	U	2.7	0.85	ug/Kg	☼	11/12/19 08:55	11/14/19 09:03	1
Heptachlor	9.2	U	9.2	1.1	ug/Kg	☼	11/12/19 08:55	11/14/19 09:03	1
Heptachlor epoxide	9.2	U	9.2	1.4	ug/Kg	☼	11/12/19 08:55	11/14/19 09:03	1
Methoxychlor	9.2	U	9.2	2.1	ug/Kg	☼	11/12/19 08:55	11/14/19 09:03	1
Toxaphene	92	U	92	33	ug/Kg	☼	11/12/19 08:55	11/14/19 09:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	64		49 - 150	11/12/19 08:55	11/14/19 09:03	1
DCB Decachlorobiphenyl	65		49 - 150	11/12/19 08:55	11/14/19 09:03	1
Tetrachloro-m-xylene	72		47 - 150	11/12/19 08:55	11/14/19 09:03	1
Tetrachloro-m-xylene	70		47 - 150	11/12/19 08:55	11/14/19 09:03	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	92	U	92	12	ug/Kg	☼	11/12/19 08:47	11/13/19 17:44	1
Aroclor 1221	92	U	92	12	ug/Kg	☼	11/12/19 08:47	11/13/19 17:44	1
Aroclor 1232	92	U	92	12	ug/Kg	☼	11/12/19 08:47	11/13/19 17:44	1
Aroclor 1242	92	U	92	12	ug/Kg	☼	11/12/19 08:47	11/13/19 17:44	1
Aroclor 1248	92	U	92	12	ug/Kg	☼	11/12/19 08:47	11/13/19 17:44	1
Aroclor 1254	92	U	92	13	ug/Kg	☼	11/12/19 08:47	11/13/19 17:44	1
Aroclor 1260	92	U	92	13	ug/Kg	☼	11/12/19 08:47	11/13/19 17:44	1
Aroclor-1262	92	U	92	13	ug/Kg	☼	11/12/19 08:47	11/13/19 17:44	1
Aroclor 1268	92	U	92	13	ug/Kg	☼	11/12/19 08:47	11/13/19 17:44	1
Polychlorinated biphenyls, Total	92	U	92	13	ug/Kg	☼	11/12/19 08:47	11/13/19 17:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	95		53 - 150	11/12/19 08:47	11/13/19 17:44	1
DCB Decachlorobiphenyl	89		53 - 150	11/12/19 08:47	11/13/19 17:44	1

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	46	U	46	17	ug/Kg	☼	11/13/19 00:19	11/13/19 20:32	1
Silvex (2,4,5-TP)	46	U *	46	4.8	ug/Kg	☼	11/13/19 00:19	11/13/19 20:32	1
2,4,5-T	46	U *	46	9.7	ug/Kg	☼	11/13/19 00:19	11/13/19 20:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	136		30 - 150	11/13/19 00:19	11/13/19 20:32	1
2,4-Dichlorophenylacetic acid	118		30 - 150	11/13/19 00:19	11/13/19 20:32	1

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	0.27	U	0.27	0.056	ug/Kg	☼	11/19/19 07:46	12/12/19 03:17	1
Perfluoroheptanoic acid (PFHpA)	0.27	U	0.27	0.039	ug/Kg	☼	11/19/19 07:46	12/12/19 03:17	1
Perfluorooctanoic acid (PFOA)	0.27	U	0.27	0.11	ug/Kg	☼	11/19/19 07:46	12/12/19 03:17	1
Perfluorononanoic acid (PFNA)	0.064	J	0.27	0.048	ug/Kg	☼	11/19/19 07:46	12/12/19 03:17	1
Perfluorodecanoic acid (PFDA)	0.057	J	0.27	0.029	ug/Kg	☼	11/19/19 07:46	12/12/19 03:17	1
Perfluoroundecanoic acid (PFUnA)	0.057	J	0.27	0.048	ug/Kg	☼	11/19/19 07:46	12/12/19 03:17	1
Perfluorododecanoic acid (PFDoA)	0.27	U	0.27	0.089	ug/Kg	☼	11/19/19 07:46	12/12/19 03:17	1

Client Sample Results

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Lab Sample ID: 460-196259-20

Date Collected: 11/05/19 13:25

Matrix: Solid

Date Received: 11/06/19 18:40

Percent Solids: 73.0

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorotridecanoic acid (PFTriA)	0.27	U	0.27	0.068	ug/Kg	☼	11/19/19 07:46	12/12/19 03:17	1
Perfluorotetradecanoic acid (PFTeA)	0.27	U	0.27	0.072	ug/Kg	☼	11/19/19 07:46	12/12/19 03:17	1
Perfluorobutanesulfonic acid (PFBS)	0.27	U*	0.27	0.033	ug/Kg	☼	11/19/19 07:46	12/12/19 03:17	1
Perfluorohexanesulfonic acid (PFHxS)	0.27	U	0.27	0.041	ug/Kg	☼	11/19/19 07:46	12/12/19 03:17	1
Perfluorooctanesulfonic acid (PFOS)	0.81		0.67	0.27	ug/Kg	☼	11/19/19 07:46	12/12/19 03:17	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.67	U	2.67	0.49	ug/Kg	☼	11/19/19 07:46	12/12/19 03:17	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.67	U	2.67	0.52	ug/Kg	☼	11/19/19 07:46	12/12/19 03:17	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C2 PFHxA	91		25 - 150				11/19/19 07:46	12/12/19 03:17	1
13C4 PFHpA	96		25 - 150				11/19/19 07:46	12/12/19 03:17	1
13C4 PFOA	95		25 - 150				11/19/19 07:46	12/12/19 03:17	1
13C5 PFNA	95		25 - 150				11/19/19 07:46	12/12/19 03:17	1
13C2 PFDA	102		25 - 150				11/19/19 07:46	12/12/19 03:17	1
13C2 PFUnA	113		25 - 150				11/19/19 07:46	12/12/19 03:17	1
13C2 PFDoA	101		25 - 150				11/19/19 07:46	12/12/19 03:17	1
13C2 PFTeDA	89		25 - 150				11/19/19 07:46	12/12/19 03:17	1
18O2 PFHxS	90		25 - 150				11/19/19 07:46	12/12/19 03:17	1
13C4 PFOS	98		25 - 150				11/19/19 07:46	12/12/19 03:17	1
d3-NMeFOSAA	77		25 - 150				11/19/19 07:46	12/12/19 03:17	1
d5-NEtFOSAA	84		25 - 150				11/19/19 07:46	12/12/19 03:17	1

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	8020		39.1	19.2	mg/Kg	☼	11/15/19 05:56	11/16/19 13:01	4
Silver	2.6	U	2.6	0.25	mg/Kg	☼	11/15/19 05:56	11/16/19 13:01	4
Aluminum	6890		52.2	14.7	mg/Kg	☼	11/15/19 05:56	11/16/19 13:01	4
Arsenic	11.5		3.9	1.5	mg/Kg	☼	11/15/19 05:56	11/16/19 13:01	4
Boron	8.7	J	13.0	3.6	mg/Kg	☼	11/15/19 05:56	11/16/19 13:01	4
Barium	30.3	J	52.2	2.9	mg/Kg	☼	11/15/19 05:56	11/16/19 13:01	4
Beryllium	0.26	J	0.52	0.12	mg/Kg	☼	11/15/19 05:56	11/16/19 13:01	4
Calcium	6010		1300	76.8	mg/Kg	☼	11/15/19 05:56	11/16/19 13:01	4
Cadmium	1.0	U	1.0	0.18	mg/Kg	☼	11/15/19 05:56	11/16/19 13:01	4
Cobalt	2.3	J	13.0	1.6	mg/Kg	☼	11/15/19 05:56	11/16/19 13:01	4
Chromium	11.9		2.6	0.46	mg/Kg	☼	11/15/19 05:56	11/16/19 13:01	4
Copper	31.7		6.5	3.5	mg/Kg	☼	11/15/19 05:56	11/16/19 13:01	4
Potassium	1160	J	1300	81.1	mg/Kg	☼	11/15/19 05:56	11/16/19 13:01	4
Magnesium	1670		1300	76.1	mg/Kg	☼	11/15/19 05:56	11/16/19 13:01	4
Manganese	133		3.9	0.46	mg/Kg	☼	11/15/19 05:56	11/16/19 13:01	4
Molybdenum	5.2	U	5.2	1.2	mg/Kg	☼	11/15/19 05:56	11/16/19 13:01	4
Sodium	139	J	1300	105	mg/Kg	☼	11/15/19 05:56	11/16/19 13:01	4
Nickel	5.4	J	10.4	0.96	mg/Kg	☼	11/15/19 05:56	11/16/19 13:01	4
Lead	19.7		2.6	0.68	mg/Kg	☼	11/15/19 05:56	11/16/19 13:01	4
Antimony	5.2	U	5.2	1.4	mg/Kg	☼	11/15/19 05:56	11/16/19 13:01	4
Selenium	5.2	U	5.2	3.1	mg/Kg	☼	11/15/19 05:56	11/16/19 13:01	4
Tin	13.0	U	13.0	8.4	mg/Kg	☼	11/15/19 05:56	11/16/19 13:01	4
Strontium	23.7		5.2	0.52	mg/Kg	☼	11/15/19 05:56	11/16/19 13:01	4

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196259-1

Client Sample ID: WSG-GS3-0.0-0.2-0

Lab Sample ID: 460-196259-20

Date Collected: 11/05/19 13:25

Matrix: Solid

Date Received: 11/06/19 18:40

Percent Solids: 73.0

Method: 6010D - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Titanium	322		5.2	0.79	mg/Kg	☼	11/15/19 05:56	11/16/19 13:01	4
Thallium	5.2	U	5.2	0.83	mg/Kg	☼	11/15/19 05:56	11/16/19 13:01	4
Vanadium	13.9		13.0	0.87	mg/Kg	☼	11/15/19 05:56	11/16/19 13:01	4
Zinc	46.7		7.8	6.1	mg/Kg	☼	11/15/19 05:56	11/16/19 13:01	4

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.052		0.022	0.013	mg/Kg	☼	11/15/19 02:43	11/15/19 07:29	1

Client Sample ID: WSG-GS3-0.5-2.0-0

Lab Sample ID: 460-196259-21

Date Collected: 11/05/19 13:30

Matrix: Solid

Date Received: 11/06/19 18:40

Percent Solids: 87.4

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.2	U	1.2	0.28	ug/Kg	☼	11/13/19 06:22	11/14/19 21:59	1
1,1,2,2-Tetrachloroethane	1.2	U	1.2	0.25	ug/Kg	☼	11/13/19 06:22	11/14/19 21:59	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.2	U	1.2	0.36	ug/Kg	☼	11/13/19 06:22	11/14/19 21:59	1
1,1,2-Trichloroethane	1.2	U	1.2	0.21	ug/Kg	☼	11/13/19 06:22	11/14/19 21:59	1
1,1-Dichloroethane	1.2	U	1.2	0.24	ug/Kg	☼	11/13/19 06:22	11/14/19 21:59	1
1,1-Dichloroethene	1.2	U	1.2	0.27	ug/Kg	☼	11/13/19 06:22	11/14/19 21:59	1
1,2,4-Trichlorobenzene	1.2	U	1.2	0.42	ug/Kg	☼	11/13/19 06:22	11/14/19 21:59	1
1,2-Dibromo-3-Chloropropane	1.2	U	1.2	0.54	ug/Kg	☼	11/13/19 06:22	11/14/19 21:59	1
1,2-Dichlorobenzene	1.2	U	1.2	0.17	ug/Kg	☼	11/13/19 06:22	11/14/19 21:59	1
1,2-Dichloroethane	1.2	U *	1.2	0.35	ug/Kg	☼	11/13/19 06:22	11/14/19 21:59	1
1,2-Dichloropropane	1.2	U	1.2	0.50	ug/Kg	☼	11/13/19 06:22	11/14/19 21:59	1
1,3-Dichlorobenzene	1.2	U	1.2	0.19	ug/Kg	☼	11/13/19 06:22	11/14/19 21:59	1
1,4-Dichlorobenzene	1.2	U	1.2	0.27	ug/Kg	☼	11/13/19 06:22	11/14/19 21:59	1
2-Butanone (MEK)	5.9	U	5.9	3.2	ug/Kg	☼	11/13/19 06:22	11/14/19 21:59	1
2-Hexanone	5.9	U	5.9	2.0	ug/Kg	☼	11/13/19 06:22	11/14/19 21:59	1
4-Methyl-2-pentanone (MIBK)	5.9	U	5.9	1.8	ug/Kg	☼	11/13/19 06:22	11/14/19 21:59	1
Acetone	7.1	U	7.1	6.8	ug/Kg	☼	11/13/19 06:22	11/14/19 21:59	1
Benzene	1.2	U	1.2	0.31	ug/Kg	☼	11/13/19 06:22	11/14/19 21:59	1
Bromoform	1.2	U	1.2	0.50	ug/Kg	☼	11/13/19 06:22	11/14/19 21:59	1
Bromomethane	1.2	U	1.2	0.56	ug/Kg	☼	11/13/19 06:22	11/14/19 21:59	1
Carbon disulfide	1.2	U	1.2	0.32	ug/Kg	☼	11/13/19 06:22	11/14/19 21:59	1
Carbon tetrachloride	1.2	U	1.2	0.46	ug/Kg	☼	11/13/19 06:22	11/14/19 21:59	1
Chlorobenzene	1.2	U	1.2	0.21	ug/Kg	☼	11/13/19 06:22	11/14/19 21:59	1
Chlorodibromomethane	1.2	U	1.2	0.23	ug/Kg	☼	11/13/19 06:22	11/14/19 21:59	1
Chloroethane	1.2	U	1.2	0.62	ug/Kg	☼	11/13/19 06:22	11/14/19 21:59	1
Chloroform	1.2	U	1.2	0.38	ug/Kg	☼	11/13/19 06:22	11/14/19 21:59	1
Chloromethane	1.2	U	1.2	0.52	ug/Kg	☼	11/13/19 06:22	11/14/19 21:59	1
cis-1,2-Dichloroethene	1.2	U	1.2	0.18	ug/Kg	☼	11/13/19 06:22	11/14/19 21:59	1
cis-1,3-Dichloropropene	1.2	U	1.2	0.32	ug/Kg	☼	11/13/19 06:22	11/14/19 21:59	1
Cyclohexane	1.2	U	1.2	0.26	ug/Kg	☼	11/13/19 06:22	11/14/19 21:59	1
Dichlorobromomethane	1.2	U	1.2	0.30	ug/Kg	☼	11/13/19 06:22	11/14/19 21:59	1
Dichlorodifluoromethane	1.2	U	1.2	0.40	ug/Kg	☼	11/13/19 06:22	11/14/19 21:59	1
Ethylbenzene	1.2	U	1.2	0.24	ug/Kg	☼	11/13/19 06:22	11/14/19 21:59	1
Ethylene Dibromide	1.2	U	1.2	0.21	ug/Kg	☼	11/13/19 06:22	11/14/19 21:59	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196259-1

Client Sample ID: WSG-GS3-0.5-2.0-0

Lab Sample ID: 460-196259-21

Date Collected: 11/05/19 13:30

Matrix: Solid

Date Received: 11/06/19 18:40

Percent Solids: 87.4

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	1.2	U	1.2	0.15	ug/Kg	☒	11/13/19 06:22	11/14/19 21:59	1
Methyl acetate	5.9	U	5.9	5.1	ug/Kg	☒	11/13/19 06:22	11/14/19 21:59	1
Methyl tert-butyl ether	1.2	U	1.2	0.15	ug/Kg	☒	11/13/19 06:22	11/14/19 21:59	1
Methylcyclohexane	1.2	U	1.2	0.59	ug/Kg	☒	11/13/19 06:22	11/14/19 21:59	1
Methylene Chloride	1.2	U	1.2	0.55	ug/Kg	☒	11/13/19 06:22	11/14/19 21:59	1
Styrene	1.2	U	1.2	0.33	ug/Kg	☒	11/13/19 06:22	11/14/19 21:59	1
Tetrachloroethene	1.2	U	1.2	0.17	ug/Kg	☒	11/13/19 06:22	11/14/19 21:59	1
Toluene	1.2	U	1.2	0.28	ug/Kg	☒	11/13/19 06:22	11/14/19 21:59	1
trans-1,2-Dichloroethene	1.2	U	1.2	0.29	ug/Kg	☒	11/13/19 06:22	11/14/19 21:59	1
trans-1,3-Dichloropropene	1.2	U	1.2	0.32	ug/Kg	☒	11/13/19 06:22	11/14/19 21:59	1
Trichloroethene	1.2	U	1.2	0.17	ug/Kg	☒	11/13/19 06:22	11/14/19 21:59	1
Trichlorofluoromethane	1.2	U	1.2	0.48	ug/Kg	☒	11/13/19 06:22	11/14/19 21:59	1
Vinyl chloride	1.2	U	1.2	0.65	ug/Kg	☒	11/13/19 06:22	11/14/19 21:59	1
Xylenes, Total	2.4	U	2.4	0.21	ug/Kg	☒	11/13/19 06:22	11/14/19 21:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110		78 - 135	11/13/19 06:22	11/14/19 21:59	1
4-Bromofluorobenzene	88		67 - 126	11/13/19 06:22	11/14/19 21:59	1
Dibromofluoromethane (Surr)	94		61 - 149	11/13/19 06:22	11/14/19 21:59	1
Toluene-d8 (Surr)	88		73 - 121	11/13/19 06:22	11/14/19 21:59	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	380	U	380	5.0	ug/Kg	☒	11/13/19 12:37	11/14/19 00:54	1
2,2'-oxybis[1-chloropropane]	380	U	380	6.9	ug/Kg	☒	11/13/19 12:37	11/14/19 00:54	1
2,4,5-Trichlorophenol	380	U	380	39	ug/Kg	☒	11/13/19 12:37	11/14/19 00:54	1
2,4,6-Trichlorophenol	150	U	150	49	ug/Kg	☒	11/13/19 12:37	11/14/19 00:54	1
2,4-Dichlorophenol	150	U	150	24	ug/Kg	☒	11/13/19 12:37	11/14/19 00:54	1
2,4-Dimethylphenol	380	U	380	17	ug/Kg	☒	11/13/19 12:37	11/14/19 00:54	1
2,4-Dinitrophenol	300	U	300	190	ug/Kg	☒	11/13/19 12:37	11/14/19 00:54	1
2,4-Dinitrotoluene	77	U	77	41	ug/Kg	☒	11/13/19 12:37	11/14/19 00:54	1
2,6-Dinitrotoluene	77	U	77	27	ug/Kg	☒	11/13/19 12:37	11/14/19 00:54	1
2-Chloronaphthalene	380	U	380	18	ug/Kg	☒	11/13/19 12:37	11/14/19 00:54	1
2-Chlorophenol	380	U	380	13	ug/Kg	☒	11/13/19 12:37	11/14/19 00:54	1
2-Methylnaphthalene	380	U	380	11	ug/Kg	☒	11/13/19 12:37	11/14/19 00:54	1
2-Methylphenol	380	U	380	14	ug/Kg	☒	11/13/19 12:37	11/14/19 00:54	1
2-Nitroaniline	380	U	380	14	ug/Kg	☒	11/13/19 12:37	11/14/19 00:54	1
2-Nitrophenol	380	U	380	38	ug/Kg	☒	11/13/19 12:37	11/14/19 00:54	1
3,3'-Dichlorobenzidine	150	U	150	57	ug/Kg	☒	11/13/19 12:37	11/14/19 00:54	1
3-Nitroaniline	380	U	380	43	ug/Kg	☒	11/13/19 12:37	11/14/19 00:54	1
4,6-Dinitro-2-methylphenol	300	U	300	61	ug/Kg	☒	11/13/19 12:37	11/14/19 00:54	1
4-Bromophenyl phenyl ether	380	U	380	15	ug/Kg	☒	11/13/19 12:37	11/14/19 00:54	1
4-Chloro-3-methylphenol	380	U	380	21	ug/Kg	☒	11/13/19 12:37	11/14/19 00:54	1
4-Chloroaniline	380	U	380	26	ug/Kg	☒	11/13/19 12:37	11/14/19 00:54	1
4-Chlorophenyl phenyl ether	380	U	380	13	ug/Kg	☒	11/13/19 12:37	11/14/19 00:54	1
4-Methylphenol	380	U	380	24	ug/Kg	☒	11/13/19 12:37	11/14/19 00:54	1
4-Nitroaniline	380	U	380	43	ug/Kg	☒	11/13/19 12:37	11/14/19 00:54	1
4-Nitrophenol	770	U	770	62	ug/Kg	☒	11/13/19 12:37	11/14/19 00:54	1
Acenaphthene	380	U	380	28	ug/Kg	☒	11/13/19 12:37	11/14/19 00:54	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196259-1

Client Sample ID: WSG-GS3-0.5-2.0-0

Lab Sample ID: 460-196259-21

Date Collected: 11/05/19 13:30

Matrix: Solid

Date Received: 11/06/19 18:40

Percent Solids: 87.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthylene	380	U	380	3.9	ug/Kg	☒	11/13/19 12:37	11/14/19 00:54	1
Acetophenone	380	U	380	19	ug/Kg	☒	11/13/19 12:37	11/14/19 00:54	1
Anthracene	380	U	380	12	ug/Kg	☒	11/13/19 12:37	11/14/19 00:54	1
Atrazine	150	U	150	9.6	ug/Kg	☒	11/13/19 12:37	11/14/19 00:54	1
Benzaldehyde	380	U	380	17	ug/Kg	☒	11/13/19 12:37	11/14/19 00:54	1
Benzo[a]anthracene	38	U	38	13	ug/Kg	☒	11/13/19 12:37	11/14/19 00:54	1
Benzo[a]pyrene	38	U	38	10	ug/Kg	☒	11/13/19 12:37	11/14/19 00:54	1
Benzo[b]fluoranthene	38	U	38	9.8	ug/Kg	☒	11/13/19 12:37	11/14/19 00:54	1
Benzo[g,h,i]perylene	380	U	380	11	ug/Kg	☒	11/13/19 12:37	11/14/19 00:54	1
Benzo[k]fluoranthene	38	U	38	7.4	ug/Kg	☒	11/13/19 12:37	11/14/19 00:54	1
Bis(2-chloroethoxy)methane	380	U	380	29	ug/Kg	☒	11/13/19 12:37	11/14/19 00:54	1
Bis(2-chloroethyl)ether	38	U	38	13	ug/Kg	☒	11/13/19 12:37	11/14/19 00:54	1
Bis(2-ethylhexyl) phthalate	380	U	380	20	ug/Kg	☒	11/13/19 12:37	11/14/19 00:54	1
Butyl benzyl phthalate	380	U	380	18	ug/Kg	☒	11/13/19 12:37	11/14/19 00:54	1
Caprolactam	380	U	380	59	ug/Kg	☒	11/13/19 12:37	11/14/19 00:54	1
Carbazole	380	U	380	14	ug/Kg	☒	11/13/19 12:37	11/14/19 00:54	1
Chrysene	380	U	380	6.4	ug/Kg	☒	11/13/19 12:37	11/14/19 00:54	1
Dibenz(a,h)anthracene	38	U	38	16	ug/Kg	☒	11/13/19 12:37	11/14/19 00:54	1
Dibenzofuran	380	U	380	5.3	ug/Kg	☒	11/13/19 12:37	11/14/19 00:54	1
Diethyl phthalate	380	U	380	5.5	ug/Kg	☒	11/13/19 12:37	11/14/19 00:54	1
Dimethyl phthalate	380	U	380	86	ug/Kg	☒	11/13/19 12:37	11/14/19 00:54	1
Di-n-butyl phthalate	380	U	380	67	ug/Kg	☒	11/13/19 12:37	11/14/19 00:54	1
Di-n-octyl phthalate	380	U	380	20	ug/Kg	☒	11/13/19 12:37	11/14/19 00:54	1
Fluoranthene	380	U	380	13	ug/Kg	☒	11/13/19 12:37	11/14/19 00:54	1
Fluorene	380	U	380	5.1	ug/Kg	☒	11/13/19 12:37	11/14/19 00:54	1
Hexachlorobenzene	38	U	38	18	ug/Kg	☒	11/13/19 12:37	11/14/19 00:54	1
Hexachlorobutadiene	77	U	77	8.1	ug/Kg	☒	11/13/19 12:37	11/14/19 00:54	1
Hexachlorocyclopentadiene	380	U	380	33	ug/Kg	☒	11/13/19 12:37	11/14/19 00:54	1
Hexachloroethane	38	U	38	13	ug/Kg	☒	11/13/19 12:37	11/14/19 00:54	1
Indeno[1,2,3-cd]pyrene	38	U	38	15	ug/Kg	☒	11/13/19 12:37	11/14/19 00:54	1
Isophorone	150	U	150	110	ug/Kg	☒	11/13/19 12:37	11/14/19 00:54	1
Naphthalene	380	U	380	6.5	ug/Kg	☒	11/13/19 12:37	11/14/19 00:54	1
Nitrobenzene	38	U	38	9.1	ug/Kg	☒	11/13/19 12:37	11/14/19 00:54	1
N-Nitrosodi-n-propylamine	38	U	38	27	ug/Kg	☒	11/13/19 12:37	11/14/19 00:54	1
N-Nitrosodiphenylamine	380	U	380	7.2	ug/Kg	☒	11/13/19 12:37	11/14/19 00:54	1
Pentachlorophenol	300	U	300	78	ug/Kg	☒	11/13/19 12:37	11/14/19 00:54	1
Phenanthrene	380	U	380	6.7	ug/Kg	☒	11/13/19 12:37	11/14/19 00:54	1
Phenol	380	U	380	14	ug/Kg	☒	11/13/19 12:37	11/14/19 00:54	1
Pyrene	380	U	380	9.4	ug/Kg	☒	11/13/19 12:37	11/14/19 00:54	1
1,4-Dioxane	110	U	110	10	ug/Kg	☒	11/13/19 12:37	11/14/19 00:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	60		10 - 137	11/13/19 12:37	11/14/19 00:54	1
2-Fluorobiphenyl	42		29 - 107	11/13/19 12:37	11/14/19 00:54	1
2-Fluorophenol (Surr)	34		20 - 115	11/13/19 12:37	11/14/19 00:54	1
Nitrobenzene-d5 (Surr)	31		25 - 113	11/13/19 12:37	11/14/19 00:54	1
Phenol-d5 (Surr)	39		28 - 109	11/13/19 12:37	11/14/19 00:54	1
Terphenyl-d14 (Surr)	55		27 - 123	11/13/19 12:37	11/14/19 00:54	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196259-1

Client Sample ID: WSG-GS3-0.5-2.0-0

Lab Sample ID: 460-196259-21

Date Collected: 11/05/19 13:30

Matrix: Solid

Date Received: 11/06/19 18:40

Percent Solids: 87.4

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	7.7	U	7.7	1.3	ug/Kg	☒	11/12/19 08:55	11/14/19 10:48	1
4,4'-DDE	7.7	U	7.7	0.90	ug/Kg	☒	11/12/19 08:55	11/14/19 10:48	1
4,4'-DDT	9.4		7.7	1.4	ug/Kg	☒	11/12/19 08:55	11/14/19 10:48	1
Aldrin	7.7	U	7.7	1.2	ug/Kg	☒	11/12/19 08:55	11/14/19 10:48	1
alpha-BHC	2.3	U	2.3	0.78	ug/Kg	☒	11/12/19 08:55	11/14/19 10:48	1
beta-BHC	2.3	U	2.3	0.86	ug/Kg	☒	11/12/19 08:55	11/14/19 10:48	1
Chlordane (technical)	7.7	U	7.7	19	ug/Kg	☒	11/12/19 08:55	11/14/19 10:48	1
delta-BHC	2.3	U	2.3	0.47	ug/Kg	☒	11/12/19 08:55	11/14/19 10:48	1
Dieldrin	2.3	U	2.3	1.0	ug/Kg	☒	11/12/19 08:55	11/14/19 10:48	1
Endosulfan I	7.7	U	7.7	1.2	ug/Kg	☒	11/12/19 08:55	11/14/19 10:48	1
Endosulfan II	7.7	U	7.7	2.0	ug/Kg	☒	11/12/19 08:55	11/14/19 10:48	1
Endosulfan sulfate	7.7	U	7.7	0.96	ug/Kg	☒	11/12/19 08:55	11/14/19 10:48	1
Endrin	7.7	U	7.7	1.1	ug/Kg	☒	11/12/19 08:55	11/14/19 10:48	1
Endrin aldehyde	7.7	U	7.7	1.8	ug/Kg	☒	11/12/19 08:55	11/14/19 10:48	1
Endrin ketone	7.7	U	7.7	1.5	ug/Kg	☒	11/12/19 08:55	11/14/19 10:48	1
gamma-BHC (Lindane)	2.3	U	2.3	0.71	ug/Kg	☒	11/12/19 08:55	11/14/19 10:48	1
Heptachlor	7.7	U	7.7	0.90	ug/Kg	☒	11/12/19 08:55	11/14/19 10:48	1
Heptachlor epoxide	7.7	U	7.7	1.1	ug/Kg	☒	11/12/19 08:55	11/14/19 10:48	1
Methoxychlor	7.7	U	7.7	1.8	ug/Kg	☒	11/12/19 08:55	11/14/19 10:48	1
Toxaphene	7.7	U	7.7	28	ug/Kg	☒	11/12/19 08:55	11/14/19 10:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	65		49 - 150	11/12/19 08:55	11/14/19 10:48	1
DCB Decachlorobiphenyl	89		49 - 150	11/12/19 08:55	11/14/19 10:48	1
Tetrachloro-m-xylene	72		47 - 150	11/12/19 08:55	11/14/19 10:48	1
Tetrachloro-m-xylene	72		47 - 150	11/12/19 08:55	11/14/19 10:48	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	77	U	77	10	ug/Kg	☒	11/12/19 08:47	11/13/19 18:01	1
Aroclor 1221	77	U	77	10	ug/Kg	☒	11/12/19 08:47	11/13/19 18:01	1
Aroclor 1232	77	U	77	10	ug/Kg	☒	11/12/19 08:47	11/13/19 18:01	1
Aroclor 1242	77	U	77	10	ug/Kg	☒	11/12/19 08:47	11/13/19 18:01	1
Aroclor 1248	77	U	77	10	ug/Kg	☒	11/12/19 08:47	11/13/19 18:01	1
Aroclor 1254	77	U	77	11	ug/Kg	☒	11/12/19 08:47	11/13/19 18:01	1
Aroclor 1260	77	U	77	11	ug/Kg	☒	11/12/19 08:47	11/13/19 18:01	1
Aroclor-1262	77	U	77	11	ug/Kg	☒	11/12/19 08:47	11/13/19 18:01	1
Aroclor 1268	77	U	77	11	ug/Kg	☒	11/12/19 08:47	11/13/19 18:01	1
Polychlorinated biphenyls, Total	77	U	77	11	ug/Kg	☒	11/12/19 08:47	11/13/19 18:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	102		53 - 150	11/12/19 08:47	11/13/19 18:01	1
DCB Decachlorobiphenyl	95		53 - 150	11/12/19 08:47	11/13/19 18:01	1

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	38	U	38	14	ug/Kg	☒	11/13/19 00:19	11/13/19 20:46	1
Silvex (2,4,5-TP)	38	U*	38	4.0	ug/Kg	☒	11/13/19 00:19	11/13/19 20:46	1
2,4,5-T	38	U*	38	8.1	ug/Kg	☒	11/13/19 00:19	11/13/19 20:46	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196259-1

Client Sample ID: WSG-GS3-0.5-2.0-0

Lab Sample ID: 460-196259-21

Date Collected: 11/05/19 13:30

Matrix: Solid

Date Received: 11/06/19 18:40

Percent Solids: 87.4

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	127		30 - 150	11/13/19 00:19	11/13/19 20:46	1
2,4-Dichlorophenylacetic acid	144		30 - 150	11/13/19 00:19	11/13/19 20:46	1

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	0.22	U	0.22	0.047	ug/Kg	☼	11/19/19 07:46	12/12/19 03:25	1
Perfluoroheptanoic acid (PFHpA)	0.22	U	0.22	0.032	ug/Kg	☼	11/19/19 07:46	12/12/19 03:25	1
Perfluorooctanoic acid (PFOA)	0.22	U	0.22	0.096	ug/Kg	☼	11/19/19 07:46	12/12/19 03:25	1
Perfluorononanoic acid (PFNA)	0.22	U	0.22	0.040	ug/Kg	☼	11/19/19 07:46	12/12/19 03:25	1
Perfluorodecanoic acid (PFDA)	0.22	U	0.22	0.025	ug/Kg	☼	11/19/19 07:46	12/12/19 03:25	1
Perfluoroundecanoic acid (PFUnA)	0.22	U	0.22	0.040	ug/Kg	☼	11/19/19 07:46	12/12/19 03:25	1
Perfluorododecanoic acid (PFDoA)	0.22	U	0.22	0.075	ug/Kg	☼	11/19/19 07:46	12/12/19 03:25	1
Perfluorotridecanoic acid (PFTriA)	0.22	U	0.22	0.057	ug/Kg	☼	11/19/19 07:46	12/12/19 03:25	1
Perfluorotetradecanoic acid (PFTeA)	0.22	U	0.22	0.060	ug/Kg	☼	11/19/19 07:46	12/12/19 03:25	1
Perfluorobutanesulfonic acid (PFBS)	0.22	U *	0.22	0.028	ug/Kg	☼	11/19/19 07:46	12/12/19 03:25	1
Perfluorohexanesulfonic acid (PFHxS)	0.22	U	0.22	0.035	ug/Kg	☼	11/19/19 07:46	12/12/19 03:25	1
Perfluorooctanesulfonic acid (PFOS)	0.33	J	0.56	0.22	ug/Kg	☼	11/19/19 07:46	12/12/19 03:25	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.23	U	2.23	0.41	ug/Kg	☼	11/19/19 07:46	12/12/19 03:25	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.23	U	2.23	0.43	ug/Kg	☼	11/19/19 07:46	12/12/19 03:25	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFHxA	93		25 - 150	11/19/19 07:46	12/12/19 03:25	1
13C4 PFHpA	94		25 - 150	11/19/19 07:46	12/12/19 03:25	1
13C4 PFOA	94		25 - 150	11/19/19 07:46	12/12/19 03:25	1
13C5 PFNA	94		25 - 150	11/19/19 07:46	12/12/19 03:25	1
13C2 PFDA	103		25 - 150	11/19/19 07:46	12/12/19 03:25	1
13C2 PFUnA	104		25 - 150	11/19/19 07:46	12/12/19 03:25	1
13C2 PFDoA	102		25 - 150	11/19/19 07:46	12/12/19 03:25	1
13C2 PFTeDA	91		25 - 150	11/19/19 07:46	12/12/19 03:25	1
18O2 PFHxS	83		25 - 150	11/19/19 07:46	12/12/19 03:25	1
13C4 PFOS	88		25 - 150	11/19/19 07:46	12/12/19 03:25	1
d3-NMeFOSAA	88		25 - 150	11/19/19 07:46	12/12/19 03:25	1
d5-NEtFOSAA	96		25 - 150	11/19/19 07:46	12/12/19 03:25	1

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	12000		33.0	16.2	mg/Kg	☼	11/15/19 05:56	11/16/19 13:05	4
Silver	2.2	U	2.2	0.21	mg/Kg	☼	11/15/19 05:56	11/16/19 13:05	4
Aluminum	10700		44.0	12.4	mg/Kg	☼	11/15/19 05:56	11/16/19 13:05	4
Arsenic	5.6		3.3	1.3	mg/Kg	☼	11/15/19 05:56	11/16/19 13:05	4
Boron	4.2	J	11.0	3.0	mg/Kg	☼	11/15/19 05:56	11/16/19 13:05	4
Barium	24.2	J	44.0	2.4	mg/Kg	☼	11/15/19 05:56	11/16/19 13:05	4
Beryllium	0.46		0.44	0.098	mg/Kg	☼	11/15/19 05:56	11/16/19 13:05	4
Calcium	972	J	1100	64.8	mg/Kg	☼	11/15/19 05:56	11/16/19 13:05	4
Cadmium	0.88	U	0.88	0.15	mg/Kg	☼	11/15/19 05:56	11/16/19 13:05	4
Cobalt	3.7	J	11.0	1.4	mg/Kg	☼	11/15/19 05:56	11/16/19 13:05	4
Chromium	13.5		2.2	0.39	mg/Kg	☼	11/15/19 05:56	11/16/19 13:05	4
Copper	10.6		5.5	2.9	mg/Kg	☼	11/15/19 05:56	11/16/19 13:05	4

Eurofins TestAmerica, Edison

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196259-1

Client Sample ID: WSG-GS3-0.5-2.0-0

Lab Sample ID: 460-196259-21

Date Collected: 11/05/19 13:30

Matrix: Solid

Date Received: 11/06/19 18:40

Percent Solids: 87.4

Method: 6010D - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	862	J	1100	68.4	mg/Kg	☼	11/15/19 05:56	11/16/19 13:05	4
Magnesium	1810		1100	64.1	mg/Kg	☼	11/15/19 05:56	11/16/19 13:05	4
Manganese	97.7		3.3	0.38	mg/Kg	☼	11/15/19 05:56	11/16/19 13:05	4
Molybdenum	4.4	U	4.4	1.0	mg/Kg	☼	11/15/19 05:56	11/16/19 13:05	4
Sodium	1100	U	1100	88.5	mg/Kg	☼	11/15/19 05:56	11/16/19 13:05	4
Nickel	7.5	J	8.8	0.81	mg/Kg	☼	11/15/19 05:56	11/16/19 13:05	4
Lead	7.5		2.2	0.58	mg/Kg	☼	11/15/19 05:56	11/16/19 13:05	4
Antimony	4.4	U	4.4	1.2	mg/Kg	☼	11/15/19 05:56	11/16/19 13:05	4
Selenium	4.4	U	4.4	2.6	mg/Kg	☼	11/15/19 05:56	11/16/19 13:05	4
Tin	11.0	U	11.0	7.1	mg/Kg	☼	11/15/19 05:56	11/16/19 13:05	4
Strontium	6.0		4.4	0.44	mg/Kg	☼	11/15/19 05:56	11/16/19 13:05	4
Titanium	589		4.4	0.66	mg/Kg	☼	11/15/19 05:56	11/16/19 13:05	4
Thallium	4.4	U	4.4	0.70	mg/Kg	☼	11/15/19 05:56	11/16/19 13:05	4
Vanadium	19.1		11.0	0.73	mg/Kg	☼	11/15/19 05:56	11/16/19 13:05	4
Zinc	27.8		6.6	5.1	mg/Kg	☼	11/15/19 05:56	11/16/19 13:05	4

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.021		0.019	0.011	mg/Kg	☼	11/15/19 02:43	11/15/19 07:31	1

Client Sample ID: WSG-GS3-4-6-0

Lab Sample ID: 460-196259-22

Date Collected: 11/05/19 13:40

Matrix: Solid

Date Received: 11/06/19 18:40

Percent Solids: 94.5

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	0.19	U	0.19	0.041	ug/Kg	☼	11/19/19 07:46	12/12/19 03:33	1
Perfluoroheptanoic acid (PFHpA)	0.19	U	0.19	0.028	ug/Kg	☼	11/19/19 07:46	12/12/19 03:33	1
Perfluorooctanoic acid (PFOA)	0.19	U	0.19	0.084	ug/Kg	☼	11/19/19 07:46	12/12/19 03:33	1
Perfluorononanoic acid (PFNA)	0.19	U	0.19	0.035	ug/Kg	☼	11/19/19 07:46	12/12/19 03:33	1
Perfluorodecanoic acid (PFDA)	0.19	U	0.19	0.021	ug/Kg	☼	11/19/19 07:46	12/12/19 03:33	1
Perfluoroundecanoic acid (PFUnA)	0.19	U	0.19	0.035	ug/Kg	☼	11/19/19 07:46	12/12/19 03:33	1
Perfluorododecanoic acid (PFDoA)	0.19	U	0.19	0.065	ug/Kg	☼	11/19/19 07:46	12/12/19 03:33	1
Perfluorotridecanoic acid (PFTriA)	0.19	U	0.19	0.050	ug/Kg	☼	11/19/19 07:46	12/12/19 03:33	1
Perfluorotetradecanoic acid (PFTeA)	0.19	U	0.19	0.053	ug/Kg	☼	11/19/19 07:46	12/12/19 03:33	1
Perfluorobutanesulfonic acid (PFBS)	0.19	U *	0.19	0.024	ug/Kg	☼	11/19/19 07:46	12/12/19 03:33	1
Perfluorohexanesulfonic acid (PFHxS)	0.19	U	0.19	0.030	ug/Kg	☼	11/19/19 07:46	12/12/19 03:33	1
Perfluorooctanesulfonic acid (PFOS)	0.49	U	0.49	0.19	ug/Kg	☼	11/19/19 07:46	12/12/19 03:33	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	1.95	U	1.95	0.36	ug/Kg	☼	11/19/19 07:46	12/12/19 03:33	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	1.95	U	1.95	0.38	ug/Kg	☼	11/19/19 07:46	12/12/19 03:33	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C2 PFHxA	93		25 - 150				11/19/19 07:46	12/12/19 03:33	1
13C4 PFHpA	97		25 - 150				11/19/19 07:46	12/12/19 03:33	1
13C4 PFOA	93		25 - 150				11/19/19 07:46	12/12/19 03:33	1
13C5 PFNA	95		25 - 150				11/19/19 07:46	12/12/19 03:33	1
13C2 PFDA	91		25 - 150				11/19/19 07:46	12/12/19 03:33	1
13C2 PFUnA	92		25 - 150				11/19/19 07:46	12/12/19 03:33	1

Eurofins TestAmerica, Edison

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196259-1

Client Sample ID: WSG-GS3-4-6-0

Lab Sample ID: 460-196259-22

Date Collected: 11/05/19 13:40

Matrix: Solid

Date Received: 11/06/19 18:40

Percent Solids: 94.5

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
¹³ C2 PFDoA	97		25 - 150	11/19/19 07:46	12/12/19 03:33	1
¹³ C2 PFTeDA	92		25 - 150	11/19/19 07:46	12/12/19 03:33	1
¹⁸ O2 PFHxS	87		25 - 150	11/19/19 07:46	12/12/19 03:33	1
¹³ C4 PFOS	88		25 - 150	11/19/19 07:46	12/12/19 03:33	1
d3-NMeFOSAA	72		25 - 150	11/19/19 07:46	12/12/19 03:33	1
d5-NEtFOSAA	81		25 - 150	11/19/19 07:46	12/12/19 03:33	1

Client Sample ID: WSG-GS4-0.0-0.2-0

Lab Sample ID: 460-196259-23

Date Collected: 11/04/19 09:00

Matrix: Solid

Date Received: 11/06/19 18:40

Percent Solids: 95.0

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.95	U	0.95	0.22	ug/Kg	☼	11/13/19 06:23	11/14/19 22:24	1
1,1,2,2-Tetrachloroethane	0.95	U	0.95	0.20	ug/Kg	☼	11/13/19 06:23	11/14/19 22:24	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.95	U	0.95	0.29	ug/Kg	☼	11/13/19 06:23	11/14/19 22:24	1
1,1,2-Trichloroethane	0.95	U	0.95	0.17	ug/Kg	☼	11/13/19 06:23	11/14/19 22:24	1
1,1-Dichloroethane	0.95	U	0.95	0.20	ug/Kg	☼	11/13/19 06:23	11/14/19 22:24	1
1,1-Dichloroethene	0.95	U	0.95	0.21	ug/Kg	☼	11/13/19 06:23	11/14/19 22:24	1
1,2,4-Trichlorobenzene	0.95	U	0.95	0.34	ug/Kg	☼	11/13/19 06:23	11/14/19 22:24	1
1,2-Dibromo-3-Chloropropane	0.95	U	0.95	0.44	ug/Kg	☼	11/13/19 06:23	11/14/19 22:24	1
1,2-Dichlorobenzene	0.95	U	0.95	0.14	ug/Kg	☼	11/13/19 06:23	11/14/19 22:24	1
1,2-Dichloroethane	0.95	U*	0.95	0.28	ug/Kg	☼	11/13/19 06:23	11/14/19 22:24	1
1,2-Dichloropropane	0.95	U	0.95	0.40	ug/Kg	☼	11/13/19 06:23	11/14/19 22:24	1
1,3-Dichlorobenzene	0.95	U	0.95	0.15	ug/Kg	☼	11/13/19 06:23	11/14/19 22:24	1
1,4-Dichlorobenzene	0.95	U	0.95	0.21	ug/Kg	☼	11/13/19 06:23	11/14/19 22:24	1
2-Butanone (MEK)	4.7	U	4.7	2.6	ug/Kg	☼	11/13/19 06:23	11/14/19 22:24	1
2-Hexanone	4.7	U	4.7	1.6	ug/Kg	☼	11/13/19 06:23	11/14/19 22:24	1
4-Methyl-2-pentanone (MIBK)	4.7	U	4.7	1.5	ug/Kg	☼	11/13/19 06:23	11/14/19 22:24	1
Acetone	5.7	U	5.7	5.4	ug/Kg	☼	11/13/19 06:23	11/14/19 22:24	1
Benzene	0.95	U	0.95	0.24	ug/Kg	☼	11/13/19 06:23	11/14/19 22:24	1
Bromoform	0.95	U	0.95	0.40	ug/Kg	☼	11/13/19 06:23	11/14/19 22:24	1
Bromomethane	0.95	U	0.95	0.45	ug/Kg	☼	11/13/19 06:23	11/14/19 22:24	1
Carbon disulfide	0.95	U	0.95	0.25	ug/Kg	☼	11/13/19 06:23	11/14/19 22:24	1
Carbon tetrachloride	0.95	U	0.95	0.37	ug/Kg	☼	11/13/19 06:23	11/14/19 22:24	1
Chlorobenzene	0.95	U	0.95	0.17	ug/Kg	☼	11/13/19 06:23	11/14/19 22:24	1
Chlorodibromomethane	0.95	U	0.95	0.18	ug/Kg	☼	11/13/19 06:23	11/14/19 22:24	1
Chloroethane	0.95	U	0.95	0.49	ug/Kg	☼	11/13/19 06:23	11/14/19 22:24	1
Chloroform	0.95	U	0.95	0.30	ug/Kg	☼	11/13/19 06:23	11/14/19 22:24	1
Chloromethane	0.95	U	0.95	0.41	ug/Kg	☼	11/13/19 06:23	11/14/19 22:24	1
cis-1,2-Dichloroethene	0.95	U	0.95	0.14	ug/Kg	☼	11/13/19 06:23	11/14/19 22:24	1
cis-1,3-Dichloropropene	0.95	U	0.95	0.26	ug/Kg	☼	11/13/19 06:23	11/14/19 22:24	1
Cyclohexane	0.95	U	0.95	0.21	ug/Kg	☼	11/13/19 06:23	11/14/19 22:24	1
Dichlorobromomethane	0.95	U	0.95	0.24	ug/Kg	☼	11/13/19 06:23	11/14/19 22:24	1
Dichlorodifluoromethane	0.95	U	0.95	0.32	ug/Kg	☼	11/13/19 06:23	11/14/19 22:24	1
Ethylbenzene	0.95	U	0.95	0.19	ug/Kg	☼	11/13/19 06:23	11/14/19 22:24	1
Ethylene Dibromide	0.95	U	0.95	0.17	ug/Kg	☼	11/13/19 06:23	11/14/19 22:24	1
Isopropylbenzene	0.95	U	0.95	0.12	ug/Kg	☼	11/13/19 06:23	11/14/19 22:24	1
Methyl acetate	4.7	U	4.7	4.1	ug/Kg	☼	11/13/19 06:23	11/14/19 22:24	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196259-1

Client Sample ID: WSG-GS4-0.0-0.2-0

Lab Sample ID: 460-196259-23

Date Collected: 11/04/19 09:00

Matrix: Solid

Date Received: 11/06/19 18:40

Percent Solids: 95.0

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	0.95	U	0.95	0.12	ug/Kg	☒	11/13/19 06:23	11/14/19 22:24	1
Methylcyclohexane	0.95	U	0.95	0.47	ug/Kg	☒	11/13/19 06:23	11/14/19 22:24	1
Methylene Chloride	0.95	U	0.95	0.44	ug/Kg	☒	11/13/19 06:23	11/14/19 22:24	1
Styrene	0.95	U	0.95	0.26	ug/Kg	☒	11/13/19 06:23	11/14/19 22:24	1
Tetrachloroethene	0.95	U	0.95	0.14	ug/Kg	☒	11/13/19 06:23	11/14/19 22:24	1
Toluene	0.95	U	0.95	0.22	ug/Kg	☒	11/13/19 06:23	11/14/19 22:24	1
trans-1,2-Dichloroethene	0.95	U	0.95	0.23	ug/Kg	☒	11/13/19 06:23	11/14/19 22:24	1
trans-1,3-Dichloropropene	0.95	U	0.95	0.25	ug/Kg	☒	11/13/19 06:23	11/14/19 22:24	1
Trichloroethene	0.95	U	0.95	0.14	ug/Kg	☒	11/13/19 06:23	11/14/19 22:24	1
Trichlorofluoromethane	0.95	U	0.95	0.38	ug/Kg	☒	11/13/19 06:23	11/14/19 22:24	1
Vinyl chloride	0.95	U	0.95	0.52	ug/Kg	☒	11/13/19 06:23	11/14/19 22:24	1
Xylenes, Total	1.9	U	1.9	0.16	ug/Kg	☒	11/13/19 06:23	11/14/19 22:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		78 - 135	11/13/19 06:23	11/14/19 22:24	1
4-Bromofluorobenzene	88		67 - 126	11/13/19 06:23	11/14/19 22:24	1
Dibromofluoromethane (Surr)	93		61 - 149	11/13/19 06:23	11/14/19 22:24	1
Toluene-d8 (Surr)	90		73 - 121	11/13/19 06:23	11/14/19 22:24	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	350	U	350	4.6	ug/Kg	☒	11/13/19 12:37	11/14/19 01:11	1
2,2'-oxybis[1-chloropropane]	350	U	350	6.3	ug/Kg	☒	11/13/19 12:37	11/14/19 01:11	1
2,4,5-Trichlorophenol	350	U	350	35	ug/Kg	☒	11/13/19 12:37	11/14/19 01:11	1
2,4,6-Trichlorophenol	140	U	140	45	ug/Kg	☒	11/13/19 12:37	11/14/19 01:11	1
2,4-Dichlorophenol	140	U	140	22	ug/Kg	☒	11/13/19 12:37	11/14/19 01:11	1
2,4-Dimethylphenol	350	U	350	15	ug/Kg	☒	11/13/19 12:37	11/14/19 01:11	1
2,4-Dinitrophenol	280	U	280	170	ug/Kg	☒	11/13/19 12:37	11/14/19 01:11	1
2,4-Dinitrotoluene	71	U	71	38	ug/Kg	☒	11/13/19 12:37	11/14/19 01:11	1
2,6-Dinitrotoluene	71	U	71	25	ug/Kg	☒	11/13/19 12:37	11/14/19 01:11	1
2-Chloronaphthalene	350	U	350	16	ug/Kg	☒	11/13/19 12:37	11/14/19 01:11	1
2-Chlorophenol	350	U	350	12	ug/Kg	☒	11/13/19 12:37	11/14/19 01:11	1
2-Methylnaphthalene	350	U	350	9.7	ug/Kg	☒	11/13/19 12:37	11/14/19 01:11	1
2-Methylphenol	350	U	350	13	ug/Kg	☒	11/13/19 12:37	11/14/19 01:11	1
2-Nitroaniline	350	U	350	13	ug/Kg	☒	11/13/19 12:37	11/14/19 01:11	1
2-Nitrophenol	350	U	350	35	ug/Kg	☒	11/13/19 12:37	11/14/19 01:11	1
3,3'-Dichlorobenzidine	140	U	140	53	ug/Kg	☒	11/13/19 12:37	11/14/19 01:11	1
3-Nitroaniline	350	U	350	39	ug/Kg	☒	11/13/19 12:37	11/14/19 01:11	1
4,6-Dinitro-2-methylphenol	280	U	280	57	ug/Kg	☒	11/13/19 12:37	11/14/19 01:11	1
4-Bromophenyl phenyl ether	350	U	350	14	ug/Kg	☒	11/13/19 12:37	11/14/19 01:11	1
4-Chloro-3-methylphenol	350	U	350	20	ug/Kg	☒	11/13/19 12:37	11/14/19 01:11	1
4-Chloroaniline	350	U	350	24	ug/Kg	☒	11/13/19 12:37	11/14/19 01:11	1
4-Chlorophenyl phenyl ether	350	U	350	12	ug/Kg	☒	11/13/19 12:37	11/14/19 01:11	1
4-Methylphenol	350	U	350	22	ug/Kg	☒	11/13/19 12:37	11/14/19 01:11	1
4-Nitroaniline	350	U	350	40	ug/Kg	☒	11/13/19 12:37	11/14/19 01:11	1
4-Nitrophenol	710	U	710	57	ug/Kg	☒	11/13/19 12:37	11/14/19 01:11	1
Acenaphthene	350	U	350	25	ug/Kg	☒	11/13/19 12:37	11/14/19 01:11	1
Acenaphthylene	350	U	350	3.6	ug/Kg	☒	11/13/19 12:37	11/14/19 01:11	1
Acetophenone	350	U	350	17	ug/Kg	☒	11/13/19 12:37	11/14/19 01:11	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196259-1

Client Sample ID: WSG-GS4-0.0-0.2-0

Lab Sample ID: 460-196259-23

Date Collected: 11/04/19 09:00

Matrix: Solid

Date Received: 11/06/19 18:40

Percent Solids: 95.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	350	U	350	11	ug/Kg	☼	11/13/19 12:37	11/14/19 01:11	1
Atrazine	140	U	140	8.8	ug/Kg	☼	11/13/19 12:37	11/14/19 01:11	1
Benzaldehyde	350	U	350	15	ug/Kg	☼	11/13/19 12:37	11/14/19 01:11	1
Benzo[a]anthracene	13	J	35	12	ug/Kg	☼	11/13/19 12:37	11/14/19 01:11	1
Benzo[a]pyrene	35	U	35	9.3	ug/Kg	☼	11/13/19 12:37	11/14/19 01:11	1
Benzo[b]fluoranthene	35	U	35	9.0	ug/Kg	☼	11/13/19 12:37	11/14/19 01:11	1
Benzo[g,h,i]perylene	350	U	350	10	ug/Kg	☼	11/13/19 12:37	11/14/19 01:11	1
Benzo[k]fluoranthene	35	U	35	6.8	ug/Kg	☼	11/13/19 12:37	11/14/19 01:11	1
Bis(2-chloroethoxy)methane	350	U	350	27	ug/Kg	☼	11/13/19 12:37	11/14/19 01:11	1
Bis(2-chloroethyl)ether	35	U	35	12	ug/Kg	☼	11/13/19 12:37	11/14/19 01:11	1
Bis(2-ethylhexyl) phthalate	350	U	350	18	ug/Kg	☼	11/13/19 12:37	11/14/19 01:11	1
Butyl benzyl phthalate	350	U	350	16	ug/Kg	☼	11/13/19 12:37	11/14/19 01:11	1
Caprolactam	350	U	350	54	ug/Kg	☼	11/13/19 12:37	11/14/19 01:11	1
Carbazole	350	U	350	13	ug/Kg	☼	11/13/19 12:37	11/14/19 01:11	1
Chrysene	350	U	350	5.9	ug/Kg	☼	11/13/19 12:37	11/14/19 01:11	1
Dibenz(a,h)anthracene	35	U	35	15	ug/Kg	☼	11/13/19 12:37	11/14/19 01:11	1
Dibenzofuran	350	U	350	4.9	ug/Kg	☼	11/13/19 12:37	11/14/19 01:11	1
Diethyl phthalate	350	U	350	5.0	ug/Kg	☼	11/13/19 12:37	11/14/19 01:11	1
Dimethyl phthalate	350	U	350	79	ug/Kg	☼	11/13/19 12:37	11/14/19 01:11	1
Di-n-butyl phthalate	350	U	350	61	ug/Kg	☼	11/13/19 12:37	11/14/19 01:11	1
Di-n-octyl phthalate	350	U	350	18	ug/Kg	☼	11/13/19 12:37	11/14/19 01:11	1
Fluoranthene	350	U	350	12	ug/Kg	☼	11/13/19 12:37	11/14/19 01:11	1
Fluorene	350	U	350	4.7	ug/Kg	☼	11/13/19 12:37	11/14/19 01:11	1
Hexachlorobenzene	35	U	35	17	ug/Kg	☼	11/13/19 12:37	11/14/19 01:11	1
Hexachlorobutadiene	71	U	71	7.4	ug/Kg	☼	11/13/19 12:37	11/14/19 01:11	1
Hexachlorocyclopentadiene	350	U	350	31	ug/Kg	☼	11/13/19 12:37	11/14/19 01:11	1
Hexachloroethane	35	U	35	12	ug/Kg	☼	11/13/19 12:37	11/14/19 01:11	1
Indeno[1,2,3-cd]pyrene	35	U	35	14	ug/Kg	☼	11/13/19 12:37	11/14/19 01:11	1
Isophorone	140	U	140	100	ug/Kg	☼	11/13/19 12:37	11/14/19 01:11	1
Naphthalene	350	U	350	6.0	ug/Kg	☼	11/13/19 12:37	11/14/19 01:11	1
Nitrobenzene	35	U	35	8.4	ug/Kg	☼	11/13/19 12:37	11/14/19 01:11	1
N-Nitrosodi-n-propylamine	35	U	35	25	ug/Kg	☼	11/13/19 12:37	11/14/19 01:11	1
N-Nitrosodiphenylamine	350	U	350	6.7	ug/Kg	☼	11/13/19 12:37	11/14/19 01:11	1
Pentachlorophenol	280	U	280	71	ug/Kg	☼	11/13/19 12:37	11/14/19 01:11	1
Phenanthrene	350	U	350	6.1	ug/Kg	☼	11/13/19 12:37	11/14/19 01:11	1
Phenol	350	U	350	13	ug/Kg	☼	11/13/19 12:37	11/14/19 01:11	1
Pyrene	350	U	350	8.7	ug/Kg	☼	11/13/19 12:37	11/14/19 01:11	1
1,4-Dioxane	110	U	110	9.6	ug/Kg	☼	11/13/19 12:37	11/14/19 01:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	73		10 - 137	11/13/19 12:37	11/14/19 01:11	1
2-Fluorobiphenyl	61		29 - 107	11/13/19 12:37	11/14/19 01:11	1
2-Fluorophenol (Surr)	56		20 - 115	11/13/19 12:37	11/14/19 01:11	1
Nitrobenzene-d5 (Surr)	59		25 - 113	11/13/19 12:37	11/14/19 01:11	1
Phenol-d5 (Surr)	59		28 - 109	11/13/19 12:37	11/14/19 01:11	1
Terphenyl-d14 (Surr)	68		27 - 123	11/13/19 12:37	11/14/19 01:11	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196259-1

Client Sample ID: WSG-GS4-0.0-0.2-0

Lab Sample ID: 460-196259-23

Date Collected: 11/04/19 09:00

Matrix: Solid

Date Received: 11/06/19 18:40

Percent Solids: 95.0

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	7.1	U	7.1	1.2	ug/Kg	☒	11/12/19 08:55	11/14/19 11:03	1
4,4'-DDE	7.1	U	7.1	0.83	ug/Kg	☒	11/12/19 08:55	11/14/19 11:03	1
4,4'-DDT	7.1	U	7.1	1.3	ug/Kg	☒	11/12/19 08:55	11/14/19 11:03	1
Aldrin	7.1	U	7.1	1.1	ug/Kg	☒	11/12/19 08:55	11/14/19 11:03	1
alpha-BHC	2.1	U	2.1	0.72	ug/Kg	☒	11/12/19 08:55	11/14/19 11:03	1
beta-BHC	2.1	U	2.1	0.79	ug/Kg	☒	11/12/19 08:55	11/14/19 11:03	1
Chlordane (technical)	71	U	71	17	ug/Kg	☒	11/12/19 08:55	11/14/19 11:03	1
delta-BHC	2.1	U	2.1	0.43	ug/Kg	☒	11/12/19 08:55	11/14/19 11:03	1
Dieldrin	2.1	U	2.1	0.92	ug/Kg	☒	11/12/19 08:55	11/14/19 11:03	1
Endosulfan I	7.1	U	7.1	1.1	ug/Kg	☒	11/12/19 08:55	11/14/19 11:03	1
Endosulfan II	7.1	U	7.1	1.8	ug/Kg	☒	11/12/19 08:55	11/14/19 11:03	1
Endosulfan sulfate	7.1	U	7.1	0.88	ug/Kg	☒	11/12/19 08:55	11/14/19 11:03	1
Endrin	7.1	U	7.1	1.0	ug/Kg	☒	11/12/19 08:55	11/14/19 11:03	1
Endrin aldehyde	7.1	U	7.1	1.7	ug/Kg	☒	11/12/19 08:55	11/14/19 11:03	1
Endrin ketone	7.1	U	7.1	1.4	ug/Kg	☒	11/12/19 08:55	11/14/19 11:03	1
gamma-BHC (Lindane)	2.1	U	2.1	0.65	ug/Kg	☒	11/12/19 08:55	11/14/19 11:03	1
Heptachlor	7.1	U	7.1	0.83	ug/Kg	☒	11/12/19 08:55	11/14/19 11:03	1
Heptachlor epoxide	7.1	U	7.1	1.1	ug/Kg	☒	11/12/19 08:55	11/14/19 11:03	1
Methoxychlor	7.1	U	7.1	1.6	ug/Kg	☒	11/12/19 08:55	11/14/19 11:03	1
Toxaphene	71	U	71	25	ug/Kg	☒	11/12/19 08:55	11/14/19 11:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	73		49 - 150	11/12/19 08:55	11/14/19 11:03	1
DCB Decachlorobiphenyl	78		49 - 150	11/12/19 08:55	11/14/19 11:03	1
Tetrachloro-m-xylene	74		47 - 150	11/12/19 08:55	11/14/19 11:03	1
Tetrachloro-m-xylene	72		47 - 150	11/12/19 08:55	11/14/19 11:03	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	71	U	71	9.4	ug/Kg	☒	11/12/19 08:47	11/13/19 18:18	1
Aroclor 1221	71	U	71	9.4	ug/Kg	☒	11/12/19 08:47	11/13/19 18:18	1
Aroclor 1232	71	U	71	9.4	ug/Kg	☒	11/12/19 08:47	11/13/19 18:18	1
Aroclor 1242	71	U	71	9.4	ug/Kg	☒	11/12/19 08:47	11/13/19 18:18	1
Aroclor 1248	71	U	71	9.4	ug/Kg	☒	11/12/19 08:47	11/13/19 18:18	1
Aroclor 1254	71	U	71	9.7	ug/Kg	☒	11/12/19 08:47	11/13/19 18:18	1
Aroclor 1260	71	U	71	9.7	ug/Kg	☒	11/12/19 08:47	11/13/19 18:18	1
Aroclor-1262	71	U	71	9.7	ug/Kg	☒	11/12/19 08:47	11/13/19 18:18	1
Aroclor 1268	71	U	71	9.7	ug/Kg	☒	11/12/19 08:47	11/13/19 18:18	1
Polychlorinated biphenyls, Total	71	U	71	9.7	ug/Kg	☒	11/12/19 08:47	11/13/19 18:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	104		53 - 150	11/12/19 08:47	11/13/19 18:18	1
DCB Decachlorobiphenyl	95		53 - 150	11/12/19 08:47	11/13/19 18:18	1

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	35	U	35	13	ug/Kg	☒	11/13/19 00:19	11/13/19 21:00	1
Silvex (2,4,5-TP)	35	U*	35	3.7	ug/Kg	☒	11/13/19 00:19	11/13/19 21:00	1
2,4,5-T	35	U*	35	7.5	ug/Kg	☒	11/13/19 00:19	11/13/19 21:00	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196259-1

Client Sample ID: WSG-GS4-0.0-0.2-0

Lab Sample ID: 460-196259-23

Date Collected: 11/04/19 09:00

Matrix: Solid

Date Received: 11/06/19 18:40

Percent Solids: 95.0

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	149		30 - 150	11/13/19 00:19	11/13/19 21:00	1
2,4-Dichlorophenylacetic acid	134		30 - 150	11/13/19 00:19	11/13/19 21:00	1

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	0.19	U	0.19	0.041	ug/Kg	☼	11/18/19 06:37	11/30/19 07:56	1
Perfluoroheptanoic acid (PFHpA)	0.19	U	0.19	0.028	ug/Kg	☼	11/18/19 06:37	11/30/19 07:56	1
Perfluorooctanoic acid (PFOA)	0.19	U	0.19	0.083	ug/Kg	☼	11/18/19 06:37	11/30/19 07:56	1
Perfluorononanoic acid (PFNA)	0.19	U	0.19	0.035	ug/Kg	☼	11/18/19 06:37	11/30/19 07:56	1
Perfluorodecanoic acid (PFDA)	0.19	U	0.19	0.021	ug/Kg	☼	11/18/19 06:37	11/30/19 07:56	1
Perfluoroundecanoic acid (PFUnA)	0.19	U	0.19	0.035	ug/Kg	☼	11/18/19 06:37	11/30/19 07:56	1
Perfluorododecanoic acid (PFDoA)	0.19	U	0.19	0.065	ug/Kg	☼	11/18/19 06:37	11/30/19 07:56	1
Perfluorotridecanoic acid (PFTriA)	0.19	U	0.19	0.049	ug/Kg	☼	11/18/19 06:37	11/30/19 07:56	1
Perfluorotetradecanoic acid (PFTeA)	0.19	U	0.19	0.052	ug/Kg	☼	11/18/19 06:37	11/30/19 07:56	1
Perfluorobutanesulfonic acid (PFBS)	0.19	U	0.19	0.024	ug/Kg	☼	11/18/19 06:37	11/30/19 07:56	1
Perfluorohexanesulfonic acid (PFHxS)	0.19	U	0.19	0.030	ug/Kg	☼	11/18/19 06:37	11/30/19 07:56	1
Perfluorooctanesulfonic acid (PFOS)	0.44	J B	0.48	0.19	ug/Kg	☼	11/18/19 06:37	11/30/19 07:56	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	1.93	U	1.93	0.36	ug/Kg	☼	11/18/19 06:37	11/30/19 07:56	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	1.93	U	1.93	0.38	ug/Kg	☼	11/18/19 06:37	11/30/19 07:56	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFHxA	106		25 - 150	11/18/19 06:37	11/30/19 07:56	1
13C4 PFHpA	110		25 - 150	11/18/19 06:37	11/30/19 07:56	1
13C4 PFOA	107		25 - 150	11/18/19 06:37	11/30/19 07:56	1
13C5 PFNA	113		25 - 150	11/18/19 06:37	11/30/19 07:56	1
13C2 PFDA	107		25 - 150	11/18/19 06:37	11/30/19 07:56	1
13C2 PFUnA	111		25 - 150	11/18/19 06:37	11/30/19 07:56	1
13C2 PFDoA	110		25 - 150	11/18/19 06:37	11/30/19 07:56	1
13C2 PFTeDA	117		25 - 150	11/18/19 06:37	11/30/19 07:56	1
18O2 PFHxS	121		25 - 150	11/18/19 06:37	11/30/19 07:56	1
13C4 PFOS	105		25 - 150	11/18/19 06:37	11/30/19 07:56	1
d3-NMeFOSAA	49		25 - 150	11/18/19 06:37	11/30/19 07:56	1
d5-NEtFOSAA	51		25 - 150	11/18/19 06:37	11/30/19 07:56	1

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	3190		30.7	15.0	mg/Kg	☼	11/15/19 05:56	11/16/19 13:09	4
Silver	2.0	U	2.0	0.19	mg/Kg	☼	11/15/19 05:56	11/16/19 13:09	4
Aluminum	2240		40.9	11.6	mg/Kg	☼	11/15/19 05:56	11/16/19 13:09	4
Arsenic	1.4	J	3.1	1.2	mg/Kg	☼	11/15/19 05:56	11/16/19 13:09	4
Boron	3.2	J	10.2	2.8	mg/Kg	☼	11/15/19 05:56	11/16/19 13:09	4
Barium	17.2	J	40.9	2.3	mg/Kg	☼	11/15/19 05:56	11/16/19 13:09	4
Beryllium	0.11	J	0.41	0.091	mg/Kg	☼	11/15/19 05:56	11/16/19 13:09	4
Calcium	18900		1020	60.2	mg/Kg	☼	11/15/19 05:56	11/16/19 13:09	4
Cadmium	0.82	U	0.82	0.14	mg/Kg	☼	11/15/19 05:56	11/16/19 13:09	4
Cobalt	10.2	U	10.2	1.3	mg/Kg	☼	11/15/19 05:56	11/16/19 13:09	4
Chromium	7.6		2.0	0.36	mg/Kg	☼	11/15/19 05:56	11/16/19 13:09	4
Copper	4.8	J	5.1	2.7	mg/Kg	☼	11/15/19 05:56	11/16/19 13:09	4

Eurofins TestAmerica, Edison

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196259-1

Client Sample ID: WSG-GS4-0.0-0.2-0

Lab Sample ID: 460-196259-23

Date Collected: 11/04/19 09:00

Matrix: Solid

Date Received: 11/06/19 18:40

Percent Solids: 95.0

Method: 6010D - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	757	J	1020	63.6	mg/Kg	☼	11/15/19 05:56	11/16/19 13:09	4
Magnesium	1020		1020	59.6	mg/Kg	☼	11/15/19 05:56	11/16/19 13:09	4
Manganese	66.6		3.1	0.36	mg/Kg	☼	11/15/19 05:56	11/16/19 13:09	4
Molybdenum	4.1	U	4.1	0.97	mg/Kg	☼	11/15/19 05:56	11/16/19 13:09	4
Sodium	83.9	J	1020	82.2	mg/Kg	☼	11/15/19 05:56	11/16/19 13:09	4
Nickel	3.7	J	8.2	0.75	mg/Kg	☼	11/15/19 05:56	11/16/19 13:09	4
Lead	3.9		2.0	0.53	mg/Kg	☼	11/15/19 05:56	11/16/19 13:09	4
Antimony	4.1	U	4.1	1.1	mg/Kg	☼	11/15/19 05:56	11/16/19 13:09	4
Selenium	4.1	U	4.1	2.4	mg/Kg	☼	11/15/19 05:56	11/16/19 13:09	4
Tin	10.2	U	10.2	6.6	mg/Kg	☼	11/15/19 05:56	11/16/19 13:09	4
Strontium	77.5		4.1	0.41	mg/Kg	☼	11/15/19 05:56	11/16/19 13:09	4
Titanium	136		4.1	0.62	mg/Kg	☼	11/15/19 05:56	11/16/19 13:09	4
Thallium	4.1	U	4.1	0.65	mg/Kg	☼	11/15/19 05:56	11/16/19 13:09	4
Vanadium	8.0	J	10.2	0.68	mg/Kg	☼	11/15/19 05:56	11/16/19 13:09	4
Zinc	23.8		6.1	4.8	mg/Kg	☼	11/15/19 05:56	11/16/19 13:09	4

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.018	U	0.018	0.010	mg/Kg	☼	11/15/19 02:43	11/15/19 07:33	1

Client Sample ID: WSG-GS4-0.5-2.0-0

Lab Sample ID: 460-196259-24

Date Collected: 11/04/19 09:10

Matrix: Solid

Date Received: 11/06/19 18:40

Percent Solids: 93.7

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.23	ug/Kg	☼	11/13/19 06:24	11/14/19 22:49	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/Kg	☼	11/13/19 06:24	11/14/19 22:49	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.30	ug/Kg	☼	11/13/19 06:24	11/14/19 22:49	1
1,1,2-Trichloroethane	1.0	U	1.0	0.18	ug/Kg	☼	11/13/19 06:24	11/14/19 22:49	1
1,1-Dichloroethane	1.0	U	1.0	0.21	ug/Kg	☼	11/13/19 06:24	11/14/19 22:49	1
1,1-Dichloroethene	1.0	U	1.0	0.22	ug/Kg	☼	11/13/19 06:24	11/14/19 22:49	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.36	ug/Kg	☼	11/13/19 06:24	11/14/19 22:49	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.46	ug/Kg	☼	11/13/19 06:24	11/14/19 22:49	1
1,2-Dichlorobenzene	1.0	U	1.0	0.14	ug/Kg	☼	11/13/19 06:24	11/14/19 22:49	1
1,2-Dichloroethane	1.0	U *	1.0	0.29	ug/Kg	☼	11/13/19 06:24	11/14/19 22:49	1
1,2-Dichloropropane	1.0	U	1.0	0.42	ug/Kg	☼	11/13/19 06:24	11/14/19 22:49	1
1,3-Dichlorobenzene	1.0	U	1.0	0.16	ug/Kg	☼	11/13/19 06:24	11/14/19 22:49	1
1,4-Dichlorobenzene	1.0	U	1.0	0.22	ug/Kg	☼	11/13/19 06:24	11/14/19 22:49	1
2-Butanone (MEK)	5.0	U	5.0	2.7	ug/Kg	☼	11/13/19 06:24	11/14/19 22:49	1
2-Hexanone	5.0	U	5.0	1.7	ug/Kg	☼	11/13/19 06:24	11/14/19 22:49	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	1.5	ug/Kg	☼	11/13/19 06:24	11/14/19 22:49	1
Acetone	6.0	U	6.0	5.7	ug/Kg	☼	11/13/19 06:24	11/14/19 22:49	1
Benzene	1.0	U	1.0	0.26	ug/Kg	☼	11/13/19 06:24	11/14/19 22:49	1
Bromoform	1.0	U	1.0	0.42	ug/Kg	☼	11/13/19 06:24	11/14/19 22:49	1
Bromomethane	1.0	U	1.0	0.47	ug/Kg	☼	11/13/19 06:24	11/14/19 22:49	1
Carbon disulfide	1.0	U	1.0	0.26	ug/Kg	☼	11/13/19 06:24	11/14/19 22:49	1
Carbon tetrachloride	1.0	U	1.0	0.39	ug/Kg	☼	11/13/19 06:24	11/14/19 22:49	1
Chlorobenzene	1.0	U	1.0	0.18	ug/Kg	☼	11/13/19 06:24	11/14/19 22:49	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196259-1

Client Sample ID: WSG-GS4-0.5-2.0-0

Lab Sample ID: 460-196259-24

Date Collected: 11/04/19 09:10

Matrix: Solid

Date Received: 11/06/19 18:40

Percent Solids: 93.7

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorodibromomethane	1.0	U	1.0	0.19	ug/Kg	☒	11/13/19 06:24	11/14/19 22:49	1
Chloroethane	1.0	U	1.0	0.52	ug/Kg	☒	11/13/19 06:24	11/14/19 22:49	1
Chloroform	1.0	U	1.0	0.32	ug/Kg	☒	11/13/19 06:24	11/14/19 22:49	1
Chloromethane	1.0	U	1.0	0.43	ug/Kg	☒	11/13/19 06:24	11/14/19 22:49	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/Kg	☒	11/13/19 06:24	11/14/19 22:49	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.27	ug/Kg	☒	11/13/19 06:24	11/14/19 22:49	1
Cyclohexane	1.0	U	1.0	0.22	ug/Kg	☒	11/13/19 06:24	11/14/19 22:49	1
Dichlorobromomethane	1.0	U	1.0	0.26	ug/Kg	☒	11/13/19 06:24	11/14/19 22:49	1
Dichlorodifluoromethane	1.0	U	1.0	0.34	ug/Kg	☒	11/13/19 06:24	11/14/19 22:49	1
Ethylbenzene	1.0	U	1.0	0.20	ug/Kg	☒	11/13/19 06:24	11/14/19 22:49	1
Ethylene Dibromide	1.0	U	1.0	0.18	ug/Kg	☒	11/13/19 06:24	11/14/19 22:49	1
Isopropylbenzene	1.0	U	1.0	0.13	ug/Kg	☒	11/13/19 06:24	11/14/19 22:49	1
Methyl acetate	5.0	U	5.0	4.3	ug/Kg	☒	11/13/19 06:24	11/14/19 22:49	1
Methyl tert-butyl ether	1.0	U	1.0	0.12	ug/Kg	☒	11/13/19 06:24	11/14/19 22:49	1
Methylcyclohexane	1.0	U	1.0	0.50	ug/Kg	☒	11/13/19 06:24	11/14/19 22:49	1
Methylene Chloride	1.0	U	1.0	0.46	ug/Kg	☒	11/13/19 06:24	11/14/19 22:49	1
Styrene	1.0	U	1.0	0.28	ug/Kg	☒	11/13/19 06:24	11/14/19 22:49	1
Tetrachloroethene	1.0	U	1.0	0.14	ug/Kg	☒	11/13/19 06:24	11/14/19 22:49	1
Toluene	1.0	U	1.0	0.23	ug/Kg	☒	11/13/19 06:24	11/14/19 22:49	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/Kg	☒	11/13/19 06:24	11/14/19 22:49	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/Kg	☒	11/13/19 06:24	11/14/19 22:49	1
Trichloroethene	1.0	U	1.0	0.14	ug/Kg	☒	11/13/19 06:24	11/14/19 22:49	1
Trichlorofluoromethane	1.0	U	1.0	0.40	ug/Kg	☒	11/13/19 06:24	11/14/19 22:49	1
Vinyl chloride	1.0	U	1.0	0.54	ug/Kg	☒	11/13/19 06:24	11/14/19 22:49	1
Xylenes, Total	2.0	U	2.0	0.17	ug/Kg	☒	11/13/19 06:24	11/14/19 22:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		78 - 135	11/13/19 06:24	11/14/19 22:49	1
4-Bromofluorobenzene	86		67 - 126	11/13/19 06:24	11/14/19 22:49	1
Dibromofluoromethane (Surr)	95		61 - 149	11/13/19 06:24	11/14/19 22:49	1
Toluene-d8 (Surr)	89		73 - 121	11/13/19 06:24	11/14/19 22:49	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	350	U	350	4.7	ug/Kg	☒	11/13/19 12:37	11/14/19 01:27	1
2,2'-oxybis[1-chloropropane]	350	U	350	6.4	ug/Kg	☒	11/13/19 12:37	11/14/19 01:27	1
2,4,5-Trichlorophenol	350	U	350	36	ug/Kg	☒	11/13/19 12:37	11/14/19 01:27	1
2,4,6-Trichlorophenol	140	U	140	45	ug/Kg	☒	11/13/19 12:37	11/14/19 01:27	1
2,4-Dichlorophenol	140	U	140	23	ug/Kg	☒	11/13/19 12:37	11/14/19 01:27	1
2,4-Dimethylphenol	350	U	350	16	ug/Kg	☒	11/13/19 12:37	11/14/19 01:27	1
2,4-Dinitrophenol	280	U	280	170	ug/Kg	☒	11/13/19 12:37	11/14/19 01:27	1
2,4-Dinitrotoluene	71	U	71	38	ug/Kg	☒	11/13/19 12:37	11/14/19 01:27	1
2,6-Dinitrotoluene	71	U	71	26	ug/Kg	☒	11/13/19 12:37	11/14/19 01:27	1
2-Chloronaphthalene	350	U	350	16	ug/Kg	☒	11/13/19 12:37	11/14/19 01:27	1
2-Chlorophenol	350	U	350	13	ug/Kg	☒	11/13/19 12:37	11/14/19 01:27	1
2-Methylnaphthalene	350	U	350	9.9	ug/Kg	☒	11/13/19 12:37	11/14/19 01:27	1
2-Methylphenol	350	U	350	13	ug/Kg	☒	11/13/19 12:37	11/14/19 01:27	1
2-Nitroaniline	350	U	350	13	ug/Kg	☒	11/13/19 12:37	11/14/19 01:27	1
2-Nitrophenol	350	U	350	35	ug/Kg	☒	11/13/19 12:37	11/14/19 01:27	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196259-1

Client Sample ID: WSG-GS4-0.5-2.0-0

Lab Sample ID: 460-196259-24

Date Collected: 11/04/19 09:10

Matrix: Solid

Date Received: 11/06/19 18:40

Percent Solids: 93.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	140	U	140	53	ug/Kg	☒	11/13/19 12:37	11/14/19 01:27	1
3-Nitroaniline	350	U	350	40	ug/Kg	☒	11/13/19 12:37	11/14/19 01:27	1
4,6-Dinitro-2-methylphenol	280	U	280	57	ug/Kg	☒	11/13/19 12:37	11/14/19 01:27	1
4-Bromophenyl phenyl ether	350	U	350	14	ug/Kg	☒	11/13/19 12:37	11/14/19 01:27	1
4-Chloro-3-methylphenol	350	U	350	20	ug/Kg	☒	11/13/19 12:37	11/14/19 01:27	1
4-Chloroaniline	350	U	350	25	ug/Kg	☒	11/13/19 12:37	11/14/19 01:27	1
4-Chlorophenyl phenyl ether	350	U	350	12	ug/Kg	☒	11/13/19 12:37	11/14/19 01:27	1
4-Methylphenol	350	U	350	22	ug/Kg	☒	11/13/19 12:37	11/14/19 01:27	1
4-Nitroaniline	350	U	350	41	ug/Kg	☒	11/13/19 12:37	11/14/19 01:27	1
4-Nitrophenol	710	U	710	58	ug/Kg	☒	11/13/19 12:37	11/14/19 01:27	1
Acenaphthene	350	U	350	26	ug/Kg	☒	11/13/19 12:37	11/14/19 01:27	1
Acenaphthylene	350	U	350	3.6	ug/Kg	☒	11/13/19 12:37	11/14/19 01:27	1
Acetophenone	350	U	350	17	ug/Kg	☒	11/13/19 12:37	11/14/19 01:27	1
Anthracene	350	U	350	11	ug/Kg	☒	11/13/19 12:37	11/14/19 01:27	1
Atrazine	140	U	140	8.9	ug/Kg	☒	11/13/19 12:37	11/14/19 01:27	1
Benzaldehyde	350	U	350	15	ug/Kg	☒	11/13/19 12:37	11/14/19 01:27	1
Benzo[a]anthracene	35	U	35	12	ug/Kg	☒	11/13/19 12:37	11/14/19 01:27	1
Benzo[a]pyrene	35	U	35	9.4	ug/Kg	☒	11/13/19 12:37	11/14/19 01:27	1
Benzo[b]fluoranthene	35	U	35	9.1	ug/Kg	☒	11/13/19 12:37	11/14/19 01:27	1
Benzo[g,h,i]perylene	350	U	350	10	ug/Kg	☒	11/13/19 12:37	11/14/19 01:27	1
Benzo[k]fluoranthene	35	U	35	6.9	ug/Kg	☒	11/13/19 12:37	11/14/19 01:27	1
Bis(2-chloroethoxy)methane	350	U	350	27	ug/Kg	☒	11/13/19 12:37	11/14/19 01:27	1
Bis(2-chloroethyl)ether	35	U	35	12	ug/Kg	☒	11/13/19 12:37	11/14/19 01:27	1
Bis(2-ethylhexyl) phthalate	350	U	350	19	ug/Kg	☒	11/13/19 12:37	11/14/19 01:27	1
Butyl benzyl phthalate	350	U	350	17	ug/Kg	☒	11/13/19 12:37	11/14/19 01:27	1
Caprolactam	350	U	350	55	ug/Kg	☒	11/13/19 12:37	11/14/19 01:27	1
Carbazole	350	U	350	13	ug/Kg	☒	11/13/19 12:37	11/14/19 01:27	1
Chrysene	350	U	350	6.0	ug/Kg	☒	11/13/19 12:37	11/14/19 01:27	1
Dibenz(a,h)anthracene	35	U	35	15	ug/Kg	☒	11/13/19 12:37	11/14/19 01:27	1
Dibenzofuran	350	U	350	5.0	ug/Kg	☒	11/13/19 12:37	11/14/19 01:27	1
Diethyl phthalate	350	U	350	5.1	ug/Kg	☒	11/13/19 12:37	11/14/19 01:27	1
Dimethyl phthalate	350	U	350	80	ug/Kg	☒	11/13/19 12:37	11/14/19 01:27	1
Di-n-butyl phthalate	350	U	350	62	ug/Kg	☒	11/13/19 12:37	11/14/19 01:27	1
Di-n-octyl phthalate	350	U	350	19	ug/Kg	☒	11/13/19 12:37	11/14/19 01:27	1
Fluoranthene	350	U	350	12	ug/Kg	☒	11/13/19 12:37	11/14/19 01:27	1
Fluorene	350	U	350	4.8	ug/Kg	☒	11/13/19 12:37	11/14/19 01:27	1
Hexachlorobenzene	35	U	35	17	ug/Kg	☒	11/13/19 12:37	11/14/19 01:27	1
Hexachlorobutadiene	71	U	71	7.5	ug/Kg	☒	11/13/19 12:37	11/14/19 01:27	1
Hexachlorocyclopentadiene	350	U	350	31	ug/Kg	☒	11/13/19 12:37	11/14/19 01:27	1
Hexachloroethane	35	U	35	12	ug/Kg	☒	11/13/19 12:37	11/14/19 01:27	1
Indeno[1,2,3-cd]pyrene	35	U	35	14	ug/Kg	☒	11/13/19 12:37	11/14/19 01:27	1
Isophorone	140	U	140	100	ug/Kg	☒	11/13/19 12:37	11/14/19 01:27	1
Naphthalene	350	U	350	6.1	ug/Kg	☒	11/13/19 12:37	11/14/19 01:27	1
Nitrobenzene	35	U	35	8.5	ug/Kg	☒	11/13/19 12:37	11/14/19 01:27	1
N-Nitrosodi-n-propylamine	35	U	35	26	ug/Kg	☒	11/13/19 12:37	11/14/19 01:27	1
N-Nitrosodiphenylamine	350	U	350	6.8	ug/Kg	☒	11/13/19 12:37	11/14/19 01:27	1
Pentachlorophenol	280	U	280	72	ug/Kg	☒	11/13/19 12:37	11/14/19 01:27	1
Phenanthrene	350	U	350	6.2	ug/Kg	☒	11/13/19 12:37	11/14/19 01:27	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196259-1

Client Sample ID: WSG-GS4-0.5-2.0-0

Lab Sample ID: 460-196259-24

Date Collected: 11/04/19 09:10

Matrix: Solid

Date Received: 11/06/19 18:40

Percent Solids: 93.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	350	U	350	13	ug/Kg	☼	11/13/19 12:37	11/14/19 01:27	1
Pyrene	350	U	350	8.8	ug/Kg	☼	11/13/19 12:37	11/14/19 01:27	1
1,4-Dioxane	110	U	110	9.7	ug/Kg	☼	11/13/19 12:37	11/14/19 01:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	73		10 - 137	11/13/19 12:37	11/14/19 01:27	1
2-Fluorobiphenyl	63		29 - 107	11/13/19 12:37	11/14/19 01:27	1
2-Fluorophenol (Surr)	60		20 - 115	11/13/19 12:37	11/14/19 01:27	1
Nitrobenzene-d5 (Surr)	61		25 - 113	11/13/19 12:37	11/14/19 01:27	1
Phenol-d5 (Surr)	62		28 - 109	11/13/19 12:37	11/14/19 01:27	1
Terphenyl-d14 (Surr)	69		27 - 123	11/13/19 12:37	11/14/19 01:27	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	7.1	U	7.1	1.2	ug/Kg	☼	11/12/19 08:55	11/14/19 11:19	1
4,4'-DDE	8.4		7.1	0.84	ug/Kg	☼	11/12/19 08:55	11/14/19 11:19	1
4,4'-DDT	2.9	J	7.1	1.3	ug/Kg	☼	11/12/19 08:55	11/14/19 11:19	1
Aldrin	7.1	U	7.1	1.1	ug/Kg	☼	11/12/19 08:55	11/14/19 11:19	1
alpha-BHC	2.1	U	2.1	0.73	ug/Kg	☼	11/12/19 08:55	11/14/19 11:19	1
beta-BHC	2.1	U	2.1	0.80	ug/Kg	☼	11/12/19 08:55	11/14/19 11:19	1
Chlordane (technical)	71	U	71	17	ug/Kg	☼	11/12/19 08:55	11/14/19 11:19	1
delta-BHC	2.1	U	2.1	0.44	ug/Kg	☼	11/12/19 08:55	11/14/19 11:19	1
Dieldrin	2.1	U	2.1	0.93	ug/Kg	☼	11/12/19 08:55	11/14/19 11:19	1
Endosulfan I	7.1	U	7.1	1.1	ug/Kg	☼	11/12/19 08:55	11/14/19 11:19	1
Endosulfan II	7.1	U	7.1	1.8	ug/Kg	☼	11/12/19 08:55	11/14/19 11:19	1
Endosulfan sulfate	7.1	U	7.1	0.90	ug/Kg	☼	11/12/19 08:55	11/14/19 11:19	1
Endrin	7.1	U	7.1	1.0	ug/Kg	☼	11/12/19 08:55	11/14/19 11:19	1
Endrin aldehyde	7.1	U	7.1	1.7	ug/Kg	☼	11/12/19 08:55	11/14/19 11:19	1
Endrin ketone	7.1	U	7.1	1.4	ug/Kg	☼	11/12/19 08:55	11/14/19 11:19	1
gamma-BHC (Lindane)	2.1	U	2.1	0.66	ug/Kg	☼	11/12/19 08:55	11/14/19 11:19	1
Heptachlor	7.1	U	7.1	0.84	ug/Kg	☼	11/12/19 08:55	11/14/19 11:19	1
Heptachlor epoxide	7.1	U	7.1	1.1	ug/Kg	☼	11/12/19 08:55	11/14/19 11:19	1
Methoxychlor	7.1	U	7.1	1.6	ug/Kg	☼	11/12/19 08:55	11/14/19 11:19	1
Toxaphene	71	U	71	26	ug/Kg	☼	11/12/19 08:55	11/14/19 11:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	74		49 - 150	11/12/19 08:55	11/14/19 11:19	1
DCB Decachlorobiphenyl	81		49 - 150	11/12/19 08:55	11/14/19 11:19	1
Tetrachloro-m-xylene	78		47 - 150	11/12/19 08:55	11/14/19 11:19	1
Tetrachloro-m-xylene	76		47 - 150	11/12/19 08:55	11/14/19 11:19	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	71	U	71	9.5	ug/Kg	☼	11/12/19 08:47	11/13/19 18:35	1
Aroclor 1221	71	U	71	9.5	ug/Kg	☼	11/12/19 08:47	11/13/19 18:35	1
Aroclor 1232	71	U	71	9.5	ug/Kg	☼	11/12/19 08:47	11/13/19 18:35	1
Aroclor 1242	71	U	71	9.5	ug/Kg	☼	11/12/19 08:47	11/13/19 18:35	1
Aroclor 1248	71	U	71	9.5	ug/Kg	☼	11/12/19 08:47	11/13/19 18:35	1
Aroclor 1254	71	U	71	9.8	ug/Kg	☼	11/12/19 08:47	11/13/19 18:35	1

Euofins TestAmerica, Edison

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196259-1

Client Sample ID: WSG-GS4-0.5-2.0-0

Lab Sample ID: 460-196259-24

Date Collected: 11/04/19 09:10

Matrix: Solid

Date Received: 11/06/19 18:40

Percent Solids: 93.7

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1260	71	U	71	9.8	ug/Kg	☼	11/12/19 08:47	11/13/19 18:35	1
Aroclor-1262	71	U	71	9.8	ug/Kg	☼	11/12/19 08:47	11/13/19 18:35	1
Aroclor 1268	71	U	71	9.8	ug/Kg	☼	11/12/19 08:47	11/13/19 18:35	1
Polychlorinated biphenyls, Total	71	U	71	9.8	ug/Kg	☼	11/12/19 08:47	11/13/19 18:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	101		53 - 150	11/12/19 08:47	11/13/19 18:35	1
DCB Decachlorobiphenyl	96		53 - 150	11/12/19 08:47	11/13/19 18:35	1

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	36	U	36	13	ug/Kg	☼	11/13/19 00:19	11/13/19 21:14	1
Silvex (2,4,5-TP)	36	U *	36	3.7	ug/Kg	☼	11/13/19 00:19	11/13/19 21:14	1
2,4,5-T	36	U *	36	7.6	ug/Kg	☼	11/13/19 00:19	11/13/19 21:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	151	*	30 - 150	11/13/19 00:19	11/13/19 21:14	1
2,4-Dichlorophenylacetic acid	141		30 - 150	11/13/19 00:19	11/13/19 21:14	1

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	0.20	U	0.20	0.043	ug/Kg	☼	11/18/19 06:37	11/30/19 08:06	1
Perfluoroheptanoic acid (PFHpA)	0.20	U	0.20	0.030	ug/Kg	☼	11/18/19 06:37	11/30/19 08:06	1
Perfluorooctanoic acid (PFOA)	0.20	U	0.20	0.088	ug/Kg	☼	11/18/19 06:37	11/30/19 08:06	1
Perfluorononanoic acid (PFNA)	0.20	U	0.20	0.037	ug/Kg	☼	11/18/19 06:37	11/30/19 08:06	1
Perfluorodecanoic acid (PFDA)	0.20	U	0.20	0.022	ug/Kg	☼	11/18/19 06:37	11/30/19 08:06	1
Perfluoroundecanoic acid (PFUnA)	0.20	U	0.20	0.037	ug/Kg	☼	11/18/19 06:37	11/30/19 08:06	1
Perfluorododecanoic acid (PFDoA)	0.20	U	0.20	0.068	ug/Kg	☼	11/18/19 06:37	11/30/19 08:06	1
Perfluorotridecanoic acid (PFTriA)	0.20	U	0.20	0.052	ug/Kg	☼	11/18/19 06:37	11/30/19 08:06	1
Perfluorotetradecanoic acid (PFTeA)	0.20	U	0.20	0.055	ug/Kg	☼	11/18/19 06:37	11/30/19 08:06	1
Perfluorobutanesulfonic acid (PFBS)	0.20	U	0.20	0.025	ug/Kg	☼	11/18/19 06:37	11/30/19 08:06	1
Perfluorohexanesulfonic acid (PFHxS)	0.20	U	0.20	0.032	ug/Kg	☼	11/18/19 06:37	11/30/19 08:06	1

Perfluorooctanesulfonic acid (PFOS)	0.37	J B	0.51	0.20	ug/Kg	☼	11/18/19 06:37	11/30/19 08:06	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.04	U	2.04	0.38	ug/Kg	☼	11/18/19 06:37	11/30/19 08:06	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.04	U	2.04	0.40	ug/Kg	☼	11/18/19 06:37	11/30/19 08:06	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFHxA	102		25 - 150	11/18/19 06:37	11/30/19 08:06	1
13C4 PFHpA	106		25 - 150	11/18/19 06:37	11/30/19 08:06	1
13C4 PFOA	104		25 - 150	11/18/19 06:37	11/30/19 08:06	1
13C5 PFNA	105		25 - 150	11/18/19 06:37	11/30/19 08:06	1
13C2 PFDA	100		25 - 150	11/18/19 06:37	11/30/19 08:06	1
13C2 PFUnA	104		25 - 150	11/18/19 06:37	11/30/19 08:06	1
13C2 PFDoA	107		25 - 150	11/18/19 06:37	11/30/19 08:06	1
13C2 PFTeA	103		25 - 150	11/18/19 06:37	11/30/19 08:06	1
18O2 PFHxS	111		25 - 150	11/18/19 06:37	11/30/19 08:06	1
13C4 PFOS	103		25 - 150	11/18/19 06:37	11/30/19 08:06	1
d3-NMeFOSAA	61		25 - 150	11/18/19 06:37	11/30/19 08:06	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196259-1

Client Sample ID: WSG-GS4-0.5-2.0-0

Lab Sample ID: 460-196259-24

Date Collected: 11/04/19 09:10

Matrix: Solid

Date Received: 11/06/19 18:40

Percent Solids: 93.7

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	59		25 - 150	11/18/19 06:37	11/30/19 08:06	1

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	3910		29.9	14.7	mg/Kg	☼	11/15/19 05:56	11/16/19 13:13	4
Silver	2.0	U	2.0	0.19	mg/Kg	☼	11/15/19 05:56	11/16/19 13:13	4
Aluminum	2830		39.9	11.3	mg/Kg	☼	11/15/19 05:56	11/16/19 13:13	4
Arsenic	1.4	J	3.0	1.2	mg/Kg	☼	11/15/19 05:56	11/16/19 13:13	4
Boron	3.1	J	10	2.8	mg/Kg	☼	11/15/19 05:56	11/16/19 13:13	4
Barium	22.5	J	39.9	2.2	mg/Kg	☼	11/15/19 05:56	11/16/19 13:13	4
Beryllium	0.15	J	0.40	0.089	mg/Kg	☼	11/15/19 05:56	11/16/19 13:13	4
Calcium	22900		997	58.7	mg/Kg	☼	11/15/19 05:56	11/16/19 13:13	4
Cadmium	0.80	U	0.80	0.14	mg/Kg	☼	11/15/19 05:56	11/16/19 13:13	4
Cobalt	10	U	10	1.2	mg/Kg	☼	11/15/19 05:56	11/16/19 13:13	4
Chromium	7.9		2.0	0.36	mg/Kg	☼	11/15/19 05:56	11/16/19 13:13	4
Copper	5.7		5.0	2.7	mg/Kg	☼	11/15/19 05:56	11/16/19 13:13	4
Potassium	1020		997	62.0	mg/Kg	☼	11/15/19 05:56	11/16/19 13:13	4
Magnesium	1350		997	58.1	mg/Kg	☼	11/15/19 05:56	11/16/19 13:13	4
Manganese	81.6		3.0	0.35	mg/Kg	☼	11/15/19 05:56	11/16/19 13:13	4
Molybdenum	4.0	U	4.0	0.95	mg/Kg	☼	11/15/19 05:56	11/16/19 13:13	4
Sodium	137	J	997	80.2	mg/Kg	☼	11/15/19 05:56	11/16/19 13:13	4
Nickel	4.0	J	8.0	0.73	mg/Kg	☼	11/15/19 05:56	11/16/19 13:13	4
Lead	7.1		2.0	0.52	mg/Kg	☼	11/15/19 05:56	11/16/19 13:13	4
Antimony	4.0	U	4.0	1.1	mg/Kg	☼	11/15/19 05:56	11/16/19 13:13	4
Selenium	4.0	U	4.0	2.4	mg/Kg	☼	11/15/19 05:56	11/16/19 13:13	4
Tin	10	U	10	6.4	mg/Kg	☼	11/15/19 05:56	11/16/19 13:13	4
Strontium	99.2		4.0	0.40	mg/Kg	☼	11/15/19 05:56	11/16/19 13:13	4
Titanium	157		4.0	0.60	mg/Kg	☼	11/15/19 05:56	11/16/19 13:13	4
Thallium	4.0	U	4.0	0.64	mg/Kg	☼	11/15/19 05:56	11/16/19 13:13	4
Vanadium	9.8	J	10	0.66	mg/Kg	☼	11/15/19 05:56	11/16/19 13:13	4
Zinc	19.4		6.0	4.6	mg/Kg	☼	11/15/19 05:56	11/16/19 13:13	4

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.014	J	0.017	0.010	mg/Kg	☼	11/15/19 02:43	11/15/19 07:35	1

Client Sample ID: WSG-GS7-0.0-0.2-0

Lab Sample ID: 460-196259-25

Date Collected: 11/04/19 10:20

Matrix: Solid

Date Received: 11/06/19 18:40

Percent Solids: 87.4

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.2	U	1.2	0.29	ug/Kg	☼	11/13/19 06:24	11/14/19 23:13	1
1,1,2,2-Tetrachloroethane	1.2	U	1.2	0.26	ug/Kg	☼	11/13/19 06:24	11/14/19 23:13	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.2	U	1.2	0.37	ug/Kg	☼	11/13/19 06:24	11/14/19 23:13	1
1,1,2-Trichloroethane	1.2	U	1.2	0.22	ug/Kg	☼	11/13/19 06:24	11/14/19 23:13	1
1,1-Dichloroethane	1.2	U	1.2	0.25	ug/Kg	☼	11/13/19 06:24	11/14/19 23:13	1
1,1-Dichloroethene	1.2	U	1.2	0.28	ug/Kg	☼	11/13/19 06:24	11/14/19 23:13	1
1,2,4-Trichlorobenzene	1.2	U	1.2	0.44	ug/Kg	☼	11/13/19 06:24	11/14/19 23:13	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196259-1

Client Sample ID: WSG-GS7-0.0-0.2-0

Lab Sample ID: 460-196259-25

Date Collected: 11/04/19 10:20

Matrix: Solid

Date Received: 11/06/19 18:40

Percent Solids: 87.4

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	1.2	U	1.2	0.56	ug/Kg	☼	11/13/19 06:24	11/14/19 23:13	1
1,2-Dichlorobenzene	1.2	U	1.2	0.18	ug/Kg	☼	11/13/19 06:24	11/14/19 23:13	1
1,2-Dichloroethane	1.2	U *	1.2	0.36	ug/Kg	☼	11/13/19 06:24	11/14/19 23:13	1
1,2-Dichloropropane	1.2	U	1.2	0.52	ug/Kg	☼	11/13/19 06:24	11/14/19 23:13	1
1,3-Dichlorobenzene	1.2	U	1.2	0.19	ug/Kg	☼	11/13/19 06:24	11/14/19 23:13	1
1,4-Dichlorobenzene	1.2	U	1.2	0.28	ug/Kg	☼	11/13/19 06:24	11/14/19 23:13	1
2-Butanone (MEK)	6.1	U	6.1	3.3	ug/Kg	☼	11/13/19 06:24	11/14/19 23:13	1
2-Hexanone	6.1	U	6.1	2.1	ug/Kg	☼	11/13/19 06:24	11/14/19 23:13	1
4-Methyl-2-pentanone (MIBK)	6.1	U	6.1	1.9	ug/Kg	☼	11/13/19 06:24	11/14/19 23:13	1
Acetone	7.4	U	7.4	7.0	ug/Kg	☼	11/13/19 06:24	11/14/19 23:13	1
Benzene	1.2	U	1.2	0.32	ug/Kg	☼	11/13/19 06:24	11/14/19 23:13	1
Bromoform	1.2	U	1.2	0.52	ug/Kg	☼	11/13/19 06:24	11/14/19 23:13	1
Bromomethane	1.2	U	1.2	0.58	ug/Kg	☼	11/13/19 06:24	11/14/19 23:13	1
Carbon disulfide	1.2	U	1.2	0.33	ug/Kg	☼	11/13/19 06:24	11/14/19 23:13	1
Carbon tetrachloride	1.2	U	1.2	0.47	ug/Kg	☼	11/13/19 06:24	11/14/19 23:13	1
Chlorobenzene	1.2	U	1.2	0.22	ug/Kg	☼	11/13/19 06:24	11/14/19 23:13	1
Chlorodibromomethane	1.2	U	1.2	0.24	ug/Kg	☼	11/13/19 06:24	11/14/19 23:13	1
Chloroethane	1.2	U	1.2	0.64	ug/Kg	☼	11/13/19 06:24	11/14/19 23:13	1
Chloroform	1.2	U	1.2	0.39	ug/Kg	☼	11/13/19 06:24	11/14/19 23:13	1
Chloromethane	1.2	U	1.2	0.53	ug/Kg	☼	11/13/19 06:24	11/14/19 23:13	1
cis-1,2-Dichloroethene	1.2	U	1.2	0.19	ug/Kg	☼	11/13/19 06:24	11/14/19 23:13	1
cis-1,3-Dichloropropene	1.2	U	1.2	0.33	ug/Kg	☼	11/13/19 06:24	11/14/19 23:13	1
Cyclohexane	1.2	U	1.2	0.27	ug/Kg	☼	11/13/19 06:24	11/14/19 23:13	1
Dichlorobromomethane	1.2	U	1.2	0.31	ug/Kg	☼	11/13/19 06:24	11/14/19 23:13	1
Dichlorodifluoromethane	1.2	U	1.2	0.41	ug/Kg	☼	11/13/19 06:24	11/14/19 23:13	1
Ethylbenzene	1.2	U	1.2	0.24	ug/Kg	☼	11/13/19 06:24	11/14/19 23:13	1
Ethylene Dibromide	1.2	U	1.2	0.22	ug/Kg	☼	11/13/19 06:24	11/14/19 23:13	1
Isopropylbenzene	1.2	U	1.2	0.15	ug/Kg	☼	11/13/19 06:24	11/14/19 23:13	1
Methyl acetate	6.1	U	6.1	5.3	ug/Kg	☼	11/13/19 06:24	11/14/19 23:13	1
Methyl tert-butyl ether	1.2	U	1.2	0.15	ug/Kg	☼	11/13/19 06:24	11/14/19 23:13	1
Methylcyclohexane	1.2	U	1.2	0.61	ug/Kg	☼	11/13/19 06:24	11/14/19 23:13	1
Methylene Chloride	1.2	U	1.2	0.57	ug/Kg	☼	11/13/19 06:24	11/14/19 23:13	1
Styrene	1.2	U	1.2	0.34	ug/Kg	☼	11/13/19 06:24	11/14/19 23:13	1
Tetrachloroethene	1.2	U	1.2	0.18	ug/Kg	☼	11/13/19 06:24	11/14/19 23:13	1
Toluene	1.2	U	1.2	0.29	ug/Kg	☼	11/13/19 06:24	11/14/19 23:13	1
trans-1,2-Dichloroethene	1.2	U	1.2	0.30	ug/Kg	☼	11/13/19 06:24	11/14/19 23:13	1
trans-1,3-Dichloropropene	1.2	U	1.2	0.33	ug/Kg	☼	11/13/19 06:24	11/14/19 23:13	1
Trichloroethene	1.2	U	1.2	0.18	ug/Kg	☼	11/13/19 06:24	11/14/19 23:13	1
Trichlorofluoromethane	1.2	U	1.2	0.50	ug/Kg	☼	11/13/19 06:24	11/14/19 23:13	1
Vinyl chloride	1.2	U	1.2	0.67	ug/Kg	☼	11/13/19 06:24	11/14/19 23:13	1
Xylenes, Total	2.5	U	2.5	0.21	ug/Kg	☼	11/13/19 06:24	11/14/19 23:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		78 - 135				11/13/19 06:24	11/14/19 23:13	1
4-Bromofluorobenzene	90		67 - 126				11/13/19 06:24	11/14/19 23:13	1
Dibromofluoromethane (Surr)	92		61 - 149				11/13/19 06:24	11/14/19 23:13	1
Toluene-d8 (Surr)	89		73 - 121				11/13/19 06:24	11/14/19 23:13	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196259-1

Client Sample ID: WSG-GS7-0.0-0.2-0

Lab Sample ID: 460-196259-25

Date Collected: 11/04/19 10:20

Matrix: Solid

Date Received: 11/06/19 18:40

Percent Solids: 87.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	380	U	380	5.0	ug/Kg	☼	11/13/19 12:37	11/14/19 07:54	1
2,2'-oxybis[1-chloropropane]	380	U	380	6.9	ug/Kg	☼	11/13/19 12:37	11/14/19 07:54	1
2,4,5-Trichlorophenol	380	U	380	39	ug/Kg	☼	11/13/19 12:37	11/14/19 07:54	1
2,4,6-Trichlorophenol	150	U	150	49	ug/Kg	☼	11/13/19 12:37	11/14/19 07:54	1
2,4-Dichlorophenol	150	U	150	24	ug/Kg	☼	11/13/19 12:37	11/14/19 07:54	1
2,4-Dimethylphenol	380	U	380	17	ug/Kg	☼	11/13/19 12:37	11/14/19 07:54	1
2,4-Dinitrophenol	300	U	300	190	ug/Kg	☼	11/13/19 12:37	11/14/19 07:54	1
2,4-Dinitrotoluene	77	U	77	41	ug/Kg	☼	11/13/19 12:37	11/14/19 07:54	1
2,6-Dinitrotoluene	77	U	77	27	ug/Kg	☼	11/13/19 12:37	11/14/19 07:54	1
2-Chloronaphthalene	380	U	380	18	ug/Kg	☼	11/13/19 12:37	11/14/19 07:54	1
2-Chlorophenol	380	U	380	13	ug/Kg	☼	11/13/19 12:37	11/14/19 07:54	1
2-Methylnaphthalene	380	U	380	11	ug/Kg	☼	11/13/19 12:37	11/14/19 07:54	1
2-Methylphenol	380	U	380	14	ug/Kg	☼	11/13/19 12:37	11/14/19 07:54	1
2-Nitroaniline	380	U	380	14	ug/Kg	☼	11/13/19 12:37	11/14/19 07:54	1
2-Nitrophenol	380	U	380	38	ug/Kg	☼	11/13/19 12:37	11/14/19 07:54	1
3,3'-Dichlorobenzidine	150	U	150	57	ug/Kg	☼	11/13/19 12:37	11/14/19 07:54	1
3-Nitroaniline	380	U	380	43	ug/Kg	☼	11/13/19 12:37	11/14/19 07:54	1
4,6-Dinitro-2-methylphenol	300	U	300	61	ug/Kg	☼	11/13/19 12:37	11/14/19 07:54	1
4-Bromophenyl phenyl ether	380	U	380	15	ug/Kg	☼	11/13/19 12:37	11/14/19 07:54	1
4-Chloro-3-methylphenol	380	U	380	21	ug/Kg	☼	11/13/19 12:37	11/14/19 07:54	1
4-Chloroaniline	380	U	380	26	ug/Kg	☼	11/13/19 12:37	11/14/19 07:54	1
4-Chlorophenyl phenyl ether	380	U	380	13	ug/Kg	☼	11/13/19 12:37	11/14/19 07:54	1
4-Methylphenol	380	U	380	24	ug/Kg	☼	11/13/19 12:37	11/14/19 07:54	1
4-Nitroaniline	380	U	380	43	ug/Kg	☼	11/13/19 12:37	11/14/19 07:54	1
4-Nitrophenol	770	U	770	62	ug/Kg	☼	11/13/19 12:37	11/14/19 07:54	1
Acenaphthene	380	U	380	28	ug/Kg	☼	11/13/19 12:37	11/14/19 07:54	1
Acenaphthylene	18	J	380	3.9	ug/Kg	☼	11/13/19 12:37	11/14/19 07:54	1
Acetophenone	380	U	380	19	ug/Kg	☼	11/13/19 12:37	11/14/19 07:54	1
Anthracene	56	J	380	12	ug/Kg	☼	11/13/19 12:37	11/14/19 07:54	1
Atrazine	150	U	150	9.6	ug/Kg	☼	11/13/19 12:37	11/14/19 07:54	1
Benzaldehyde	380	U	380	17	ug/Kg	☼	11/13/19 12:37	11/14/19 07:54	1
Benzo[a]anthracene	230		38	13	ug/Kg	☼	11/13/19 12:37	11/14/19 07:54	1
Benzo[a]pyrene	190		38	10	ug/Kg	☼	11/13/19 12:37	11/14/19 07:54	1
Benzo[b]fluoranthene	300		38	9.8	ug/Kg	☼	11/13/19 12:37	11/14/19 07:54	1
Benzo[g,h,i]perylene	73	J	380	11	ug/Kg	☼	11/13/19 12:37	11/14/19 07:54	1
Benzo[k]fluoranthene	120		38	7.4	ug/Kg	☼	11/13/19 12:37	11/14/19 07:54	1
Bis(2-chloroethoxy)methane	380	U	380	29	ug/Kg	☼	11/13/19 12:37	11/14/19 07:54	1
Bis(2-chloroethyl)ether	38	U	38	13	ug/Kg	☼	11/13/19 12:37	11/14/19 07:54	1
Bis(2-ethylhexyl) phthalate	300	J	380	20	ug/Kg	☼	11/13/19 12:37	11/14/19 07:54	1
Butyl benzyl phthalate	380	U	380	18	ug/Kg	☼	11/13/19 12:37	11/14/19 07:54	1
Caprolactam	380	U	380	59	ug/Kg	☼	11/13/19 12:37	11/14/19 07:54	1
Carbazole	17	J	380	14	ug/Kg	☼	11/13/19 12:37	11/14/19 07:54	1
Chrysene	270	J	380	6.4	ug/Kg	☼	11/13/19 12:37	11/14/19 07:54	1
Dibenz(a,h)anthracene	17	J	38	16	ug/Kg	☼	11/13/19 12:37	11/14/19 07:54	1
Dibenzofuran	380	U	380	5.3	ug/Kg	☼	11/13/19 12:37	11/14/19 07:54	1
Diethyl phthalate	380	U	380	5.5	ug/Kg	☼	11/13/19 12:37	11/14/19 07:54	1
Dimethyl phthalate	380	U	380	86	ug/Kg	☼	11/13/19 12:37	11/14/19 07:54	1
Di-n-butyl phthalate	380	U	380	67	ug/Kg	☼	11/13/19 12:37	11/14/19 07:54	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196259-1

Client Sample ID: WSG-GS7-0.0-0.2-0

Lab Sample ID: 460-196259-25

Date Collected: 11/04/19 10:20

Matrix: Solid

Date Received: 11/06/19 18:40

Percent Solids: 87.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate	380	U	380	20	ug/Kg	☒	11/13/19 12:37	11/14/19 07:54	1
Fluoranthene	500		380	13	ug/Kg	☒	11/13/19 12:37	11/14/19 07:54	1
Fluorene	380	U	380	5.1	ug/Kg	☒	11/13/19 12:37	11/14/19 07:54	1
Hexachlorobenzene	38	U	38	18	ug/Kg	☒	11/13/19 12:37	11/14/19 07:54	1
Hexachlorobutadiene	77	U	77	8.1	ug/Kg	☒	11/13/19 12:37	11/14/19 07:54	1
Hexachlorocyclopentadiene	380	U	380	33	ug/Kg	☒	11/13/19 12:37	11/14/19 07:54	1
Hexachloroethane	38	U	38	13	ug/Kg	☒	11/13/19 12:37	11/14/19 07:54	1
Indeno[1,2,3-cd]pyrene	78		38	15	ug/Kg	☒	11/13/19 12:37	11/14/19 07:54	1
Isophorone	150	U	150	110	ug/Kg	☒	11/13/19 12:37	11/14/19 07:54	1
Naphthalene	380	U	380	6.5	ug/Kg	☒	11/13/19 12:37	11/14/19 07:54	1
Nitrobenzene	38	U	38	9.1	ug/Kg	☒	11/13/19 12:37	11/14/19 07:54	1
N-Nitrosodi-n-propylamine	38	U	38	27	ug/Kg	☒	11/13/19 12:37	11/14/19 07:54	1
N-Nitrosodiphenylamine	380	U	380	7.2	ug/Kg	☒	11/13/19 12:37	11/14/19 07:54	1
Pentachlorophenol	300	U	300	78	ug/Kg	☒	11/13/19 12:37	11/14/19 07:54	1
Phenanthrene	130	J	380	6.7	ug/Kg	☒	11/13/19 12:37	11/14/19 07:54	1
Phenol	380	U	380	14	ug/Kg	☒	11/13/19 12:37	11/14/19 07:54	1
Pyrene	420		380	9.4	ug/Kg	☒	11/13/19 12:37	11/14/19 07:54	1
1,4-Dioxane	110	U	110	10	ug/Kg	☒	11/13/19 12:37	11/14/19 07:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	59		10 - 137	11/13/19 12:37	11/14/19 07:54	1
2-Fluorobiphenyl	74		29 - 107	11/13/19 12:37	11/14/19 07:54	1
2-Fluorophenol (Surr)	51		20 - 115	11/13/19 12:37	11/14/19 07:54	1
Nitrobenzene-d5 (Surr)	60		25 - 113	11/13/19 12:37	11/14/19 07:54	1
Phenol-d5 (Surr)	68		28 - 109	11/13/19 12:37	11/14/19 07:54	1
Terphenyl-d14 (Surr)	80		27 - 123	11/13/19 12:37	11/14/19 07:54	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	7.7	U	7.7	1.3	ug/Kg	☒	11/12/19 08:55	11/14/19 11:35	1
4,4'-DDE	8.6		7.7	0.90	ug/Kg	☒	11/12/19 08:55	11/14/19 11:35	1
4,4'-DDT	7.7	U	7.7	1.4	ug/Kg	☒	11/12/19 08:55	11/14/19 11:35	1
Aldrin	7.7	U	7.7	1.2	ug/Kg	☒	11/12/19 08:55	11/14/19 11:35	1
alpha-BHC	2.3	U	2.3	0.78	ug/Kg	☒	11/12/19 08:55	11/14/19 11:35	1
beta-BHC	2.3	U	2.3	0.86	ug/Kg	☒	11/12/19 08:55	11/14/19 11:35	1
Chlordane (technical)	83		77	19	ug/Kg	☒	11/12/19 08:55	11/14/19 11:35	1
delta-BHC	2.3	U	2.3	0.47	ug/Kg	☒	11/12/19 08:55	11/14/19 11:35	1
Dieldrin	2.3	U	2.3	1.0	ug/Kg	☒	11/12/19 08:55	11/14/19 11:35	1
Endosulfan I	7.7	U	7.7	1.2	ug/Kg	☒	11/12/19 08:55	11/14/19 11:35	1
Endosulfan II	7.7	U	7.7	2.0	ug/Kg	☒	11/12/19 08:55	11/14/19 11:35	1
Endosulfan sulfate	7.7	U	7.7	0.96	ug/Kg	☒	11/12/19 08:55	11/14/19 11:35	1
Endrin	7.7	U	7.7	1.1	ug/Kg	☒	11/12/19 08:55	11/14/19 11:35	1
Endrin aldehyde	7.7	U	7.7	1.8	ug/Kg	☒	11/12/19 08:55	11/14/19 11:35	1
Endrin ketone	7.7	U	7.7	1.5	ug/Kg	☒	11/12/19 08:55	11/14/19 11:35	1
gamma-BHC (Lindane)	2.3	U	2.3	0.71	ug/Kg	☒	11/12/19 08:55	11/14/19 11:35	1
Heptachlor	7.7	U	7.7	0.90	ug/Kg	☒	11/12/19 08:55	11/14/19 11:35	1
Heptachlor epoxide	7.7	U	7.7	1.1	ug/Kg	☒	11/12/19 08:55	11/14/19 11:35	1
Methoxychlor	7.7	U	7.7	1.8	ug/Kg	☒	11/12/19 08:55	11/14/19 11:35	1
Toxaphene	77	U	77	28	ug/Kg	☒	11/12/19 08:55	11/14/19 11:35	1

Eurofins TestAmerica, Edison

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196259-1

Client Sample ID: WSG-GS7-0.0-0.2-0

Lab Sample ID: 460-196259-25

Date Collected: 11/04/19 10:20

Matrix: Solid

Date Received: 11/06/19 18:40

Percent Solids: 87.4

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	77		49 - 150	11/12/19 08:55	11/14/19 11:35	1
DCB Decachlorobiphenyl	88		49 - 150	11/12/19 08:55	11/14/19 11:35	1
Tetrachloro-m-xylene	85		47 - 150	11/12/19 08:55	11/14/19 11:35	1
Tetrachloro-m-xylene	83		47 - 150	11/12/19 08:55	11/14/19 11:35	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	77	U	77	10	ug/Kg	☼	11/12/19 08:47	11/13/19 18:52	1
Aroclor 1221	77	U	77	10	ug/Kg	☼	11/12/19 08:47	11/13/19 18:52	1
Aroclor 1232	77	U	77	10	ug/Kg	☼	11/12/19 08:47	11/13/19 18:52	1
Aroclor 1242	77	U	77	10	ug/Kg	☼	11/12/19 08:47	11/13/19 18:52	1
Aroclor 1248	77	U	77	10	ug/Kg	☼	11/12/19 08:47	11/13/19 18:52	1
Aroclor 1254	77	U	77	11	ug/Kg	☼	11/12/19 08:47	11/13/19 18:52	1
Aroclor 1260	77	U	77	11	ug/Kg	☼	11/12/19 08:47	11/13/19 18:52	1
Aroclor-1262	77	U	77	11	ug/Kg	☼	11/12/19 08:47	11/13/19 18:52	1
Aroclor 1268	77	U	77	11	ug/Kg	☼	11/12/19 08:47	11/13/19 18:52	1
Polychlorinated biphenyls, Total	77	U	77	11	ug/Kg	☼	11/12/19 08:47	11/13/19 18:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	115		53 - 150	11/12/19 08:47	11/13/19 18:52	1
DCB Decachlorobiphenyl	108		53 - 150	11/12/19 08:47	11/13/19 18:52	1

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	38	U	38	14	ug/Kg	☼	11/13/19 00:19	11/13/19 21:27	1
Silvex (2,4,5-TP)	38	U *	38	4.0	ug/Kg	☼	11/13/19 00:19	11/13/19 21:27	1
2,4,5-T	38	U *	38	8.1	ug/Kg	☼	11/13/19 00:19	11/13/19 21:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	156	*	30 - 150	11/13/19 00:19	11/13/19 21:27	1
2,4-Dichlorophenylacetic acid	143		30 - 150	11/13/19 00:19	11/13/19 21:27	1

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	0.21	U	0.21	0.044	ug/Kg	☼	11/18/19 06:37	11/30/19 08:16	1
Perfluoroheptanoic acid (PFHpA)	0.21	U	0.21	0.030	ug/Kg	☼	11/18/19 06:37	11/30/19 08:16	1
Perfluorooctanoic acid (PFOA)	0.21	U	0.21	0.090	ug/Kg	☼	11/18/19 06:37	11/30/19 08:16	1
Perfluorononanoic acid (PFNA)	0.21	U	0.21	0.038	ug/Kg	☼	11/18/19 06:37	11/30/19 08:16	1
Perfluorodecanoic acid (PFDA)	0.21	U	0.21	0.023	ug/Kg	☼	11/18/19 06:37	11/30/19 08:16	1
Perfluoroundecanoic acid (PFUnA)	0.21	U	0.21	0.038	ug/Kg	☼	11/18/19 06:37	11/30/19 08:16	1
Perfluorododecanoic acid (PFDoA)	0.21	U	0.21	0.070	ug/Kg	☼	11/18/19 06:37	11/30/19 08:16	1
Perfluorotridecanoic acid (PFTriA)	0.21	U	0.21	0.053	ug/Kg	☼	11/18/19 06:37	11/30/19 08:16	1
Perfluorotetradecanoic acid (PFTeA)	0.21	U	0.21	0.056	ug/Kg	☼	11/18/19 06:37	11/30/19 08:16	1
Perfluorobutanesulfonic acid (PFBS)	0.21	U	0.21	0.026	ug/Kg	☼	11/18/19 06:37	11/30/19 08:16	1
Perfluorohexanesulfonic acid (PFHxS)	0.21	U	0.21	0.032	ug/Kg	☼	11/18/19 06:37	11/30/19 08:16	1
Perfluorooctanesulfonic acid (PFOS)	0.30	J B	0.52	0.21	ug/Kg	☼	11/18/19 06:37	11/30/19 08:16	1
N-ethylperfluorooctanesulfonamidoacetic acid (NETFOSAA)	2.09	U	2.09	0.39	ug/Kg	☼	11/18/19 06:37	11/30/19 08:16	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.09	U	2.09	0.41	ug/Kg	☼	11/18/19 06:37	11/30/19 08:16	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196259-1

Client Sample ID: WSG-GS7-0.0-0.2-0

Lab Sample ID: 460-196259-25

Date Collected: 11/04/19 10:20

Matrix: Solid

Date Received: 11/06/19 18:40

Percent Solids: 87.4

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFHxA	102		25 - 150	11/18/19 06:37	11/30/19 08:16	1
13C4 PFHpA	109		25 - 150	11/18/19 06:37	11/30/19 08:16	1
13C4 PFOA	101		25 - 150	11/18/19 06:37	11/30/19 08:16	1
13C5 PFNA	99		25 - 150	11/18/19 06:37	11/30/19 08:16	1
13C2 PFDA	103		25 - 150	11/18/19 06:37	11/30/19 08:16	1
13C2 PFUnA	103		25 - 150	11/18/19 06:37	11/30/19 08:16	1
13C2 PFDoA	103		25 - 150	11/18/19 06:37	11/30/19 08:16	1
13C2 PFTeDA	100		25 - 150	11/18/19 06:37	11/30/19 08:16	1
18O2 PFHxS	110		25 - 150	11/18/19 06:37	11/30/19 08:16	1
13C4 PFOS	99		25 - 150	11/18/19 06:37	11/30/19 08:16	1
d3-NMeFOSAA	93		25 - 150	11/18/19 06:37	11/30/19 08:16	1
d5-NEtFOSAA	97		25 - 150	11/18/19 06:37	11/30/19 08:16	1

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	7120		33.0	16.2	mg/Kg	☼	11/15/19 05:56	11/16/19 13:17	4
Silver	2.2	U	2.2	0.21	mg/Kg	☼	11/15/19 05:56	11/16/19 13:17	4
Aluminum	4630		44.0	12.4	mg/Kg	☼	11/15/19 05:56	11/16/19 13:17	4
Arsenic	2.7	J	3.3	1.3	mg/Kg	☼	11/15/19 05:56	11/16/19 13:17	4
Boron	11.6		11.0	3.0	mg/Kg	☼	11/15/19 05:56	11/16/19 13:17	4
Barium	38.5	J	44.0	2.4	mg/Kg	☼	11/15/19 05:56	11/16/19 13:17	4
Beryllium	0.34	J	0.44	0.098	mg/Kg	☼	11/15/19 05:56	11/16/19 13:17	4
Calcium	33400		1100	64.8	mg/Kg	☼	11/15/19 05:56	11/16/19 13:17	4
Cadmium	0.88	U	0.88	0.15	mg/Kg	☼	11/15/19 05:56	11/16/19 13:17	4
Cobalt	2.6	J	11.0	1.4	mg/Kg	☼	11/15/19 05:56	11/16/19 13:17	4
Chromium	8.6		2.2	0.39	mg/Kg	☼	11/15/19 05:56	11/16/19 13:17	4
Copper	13.2		5.5	2.9	mg/Kg	☼	11/15/19 05:56	11/16/19 13:17	4
Potassium	973	J	1100	68.5	mg/Kg	☼	11/15/19 05:56	11/16/19 13:17	4
Magnesium	5030		1100	64.2	mg/Kg	☼	11/15/19 05:56	11/16/19 13:17	4
Manganese	128		3.3	0.38	mg/Kg	☼	11/15/19 05:56	11/16/19 13:17	4
Molybdenum	4.4	U	4.4	1.0	mg/Kg	☼	11/15/19 05:56	11/16/19 13:17	4
Sodium	123	J	1100	88.5	mg/Kg	☼	11/15/19 05:56	11/16/19 13:17	4
Nickel	6.9	J	8.8	0.81	mg/Kg	☼	11/15/19 05:56	11/16/19 13:17	4
Lead	13.9		2.2	0.58	mg/Kg	☼	11/15/19 05:56	11/16/19 13:17	4
Antimony	4.4	U	4.4	1.2	mg/Kg	☼	11/15/19 05:56	11/16/19 13:17	4
Selenium	4.4	U	4.4	2.6	mg/Kg	☼	11/15/19 05:56	11/16/19 13:17	4
Tin	11.0	U	11.0	7.1	mg/Kg	☼	11/15/19 05:56	11/16/19 13:17	4
Strontium	79.0		4.4	0.44	mg/Kg	☼	11/15/19 05:56	11/16/19 13:17	4
Titanium	336		4.4	0.66	mg/Kg	☼	11/15/19 05:56	11/16/19 13:17	4
Thallium	4.4	U	4.4	0.70	mg/Kg	☼	11/15/19 05:56	11/16/19 13:17	4
Vanadium	18.8		11.0	0.73	mg/Kg	☼	11/15/19 05:56	11/16/19 13:17	4
Zinc	42.0		6.6	5.1	mg/Kg	☼	11/15/19 05:56	11/16/19 13:17	4

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.022		0.018	0.011	mg/Kg	☼	11/15/19 02:43	11/15/19 07:36	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196259-1

Client Sample ID: WSG-GS7-0.5-2.0-0

Lab Sample ID: 460-196259-26

Date Collected: 11/04/19 10:30

Matrix: Solid

Date Received: 11/06/19 18:40

Percent Solids: 91.5

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.1	U	1.1	0.26	ug/Kg	☒	11/13/19 06:25	11/14/19 23:38	1
1,1,2,2-Tetrachloroethane	1.1	U	1.1	0.24	ug/Kg	☒	11/13/19 06:25	11/14/19 23:38	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.1	U	1.1	0.33	ug/Kg	☒	11/13/19 06:25	11/14/19 23:38	1
1,1,2-Trichloroethane	1.1	U	1.1	0.20	ug/Kg	☒	11/13/19 06:25	11/14/19 23:38	1
1,1-Dichloroethane	1.1	U	1.1	0.23	ug/Kg	☒	11/13/19 06:25	11/14/19 23:38	1
1,1-Dichloroethene	1.1	U	1.1	0.25	ug/Kg	☒	11/13/19 06:25	11/14/19 23:38	1
1,2,4-Trichlorobenzene	1.1	U	1.1	0.39	ug/Kg	☒	11/13/19 06:25	11/14/19 23:38	1
1,2-Dibromo-3-Chloropropane	1.1	U	1.1	0.51	ug/Kg	☒	11/13/19 06:25	11/14/19 23:38	1
1,2-Dichlorobenzene	1.1	U	1.1	0.16	ug/Kg	☒	11/13/19 06:25	11/14/19 23:38	1
1,2-Dichloroethane	1.1	U *	1.1	0.33	ug/Kg	☒	11/13/19 06:25	11/14/19 23:38	1
1,2-Dichloropropane	1.1	U	1.1	0.46	ug/Kg	☒	11/13/19 06:25	11/14/19 23:38	1
1,3-Dichlorobenzene	1.1	U	1.1	0.17	ug/Kg	☒	11/13/19 06:25	11/14/19 23:38	1
1,4-Dichlorobenzene	1.1	U	1.1	0.25	ug/Kg	☒	11/13/19 06:25	11/14/19 23:38	1
2-Butanone (MEK)	5.5	U	5.5	3.0	ug/Kg	☒	11/13/19 06:25	11/14/19 23:38	1
2-Hexanone	5.5	U	5.5	1.9	ug/Kg	☒	11/13/19 06:25	11/14/19 23:38	1
4-Methyl-2-pentanone (MIBK)	5.5	U	5.5	1.7	ug/Kg	☒	11/13/19 06:25	11/14/19 23:38	1
Acetone	6.6	U	6.6	6.3	ug/Kg	☒	11/13/19 06:25	11/14/19 23:38	1
Benzene	1.1	U	1.1	0.28	ug/Kg	☒	11/13/19 06:25	11/14/19 23:38	1
Bromoform	1.1	U	1.1	0.47	ug/Kg	☒	11/13/19 06:25	11/14/19 23:38	1
Bromomethane	1.1	U	1.1	0.52	ug/Kg	☒	11/13/19 06:25	11/14/19 23:38	1
Carbon disulfide	1.1	U	1.1	0.29	ug/Kg	☒	11/13/19 06:25	11/14/19 23:38	1
Carbon tetrachloride	1.1	U	1.1	0.43	ug/Kg	☒	11/13/19 06:25	11/14/19 23:38	1
Chlorobenzene	1.1	U	1.1	0.19	ug/Kg	☒	11/13/19 06:25	11/14/19 23:38	1
Chlorodibromomethane	1.1	U	1.1	0.21	ug/Kg	☒	11/13/19 06:25	11/14/19 23:38	1
Chloroethane	1.1	U	1.1	0.57	ug/Kg	☒	11/13/19 06:25	11/14/19 23:38	1
Chloroform	1.1	U	1.1	0.35	ug/Kg	☒	11/13/19 06:25	11/14/19 23:38	1
Chloromethane	1.1	U	1.1	0.48	ug/Kg	☒	11/13/19 06:25	11/14/19 23:38	1
cis-1,2-Dichloroethene	1.1	U	1.1	0.17	ug/Kg	☒	11/13/19 06:25	11/14/19 23:38	1
cis-1,3-Dichloropropene	1.1	U	1.1	0.30	ug/Kg	☒	11/13/19 06:25	11/14/19 23:38	1
Cyclohexane	1.1	U	1.1	0.24	ug/Kg	☒	11/13/19 06:25	11/14/19 23:38	1
Dichlorobromomethane	1.1	U	1.1	0.28	ug/Kg	☒	11/13/19 06:25	11/14/19 23:38	1
Dichlorodifluoromethane	1.1	U	1.1	0.37	ug/Kg	☒	11/13/19 06:25	11/14/19 23:38	1
Ethylbenzene	1.1	U	1.1	0.22	ug/Kg	☒	11/13/19 06:25	11/14/19 23:38	1
Ethylene Dibromide	1.1	U	1.1	0.20	ug/Kg	☒	11/13/19 06:25	11/14/19 23:38	1
Isopropylbenzene	1.1	U	1.1	0.14	ug/Kg	☒	11/13/19 06:25	11/14/19 23:38	1
Methyl acetate	5.5	U	5.5	4.7	ug/Kg	☒	11/13/19 06:25	11/14/19 23:38	1
Methyl tert-butyl ether	1.1	U	1.1	0.14	ug/Kg	☒	11/13/19 06:25	11/14/19 23:38	1
Methylcyclohexane	1.1	U	1.1	0.55	ug/Kg	☒	11/13/19 06:25	11/14/19 23:38	1
Methylene Chloride	1.1	U	1.1	0.51	ug/Kg	☒	11/13/19 06:25	11/14/19 23:38	1
Styrene	1.1	U	1.1	0.31	ug/Kg	☒	11/13/19 06:25	11/14/19 23:38	1
Tetrachloroethene	1.1	U	1.1	0.16	ug/Kg	☒	11/13/19 06:25	11/14/19 23:38	1
Toluene	1.1	U	1.1	0.26	ug/Kg	☒	11/13/19 06:25	11/14/19 23:38	1
trans-1,2-Dichloroethene	1.1	U	1.1	0.27	ug/Kg	☒	11/13/19 06:25	11/14/19 23:38	1
trans-1,3-Dichloropropene	1.1	U	1.1	0.29	ug/Kg	☒	11/13/19 06:25	11/14/19 23:38	1
Trichloroethene	1.1	U	1.1	0.16	ug/Kg	☒	11/13/19 06:25	11/14/19 23:38	1
Trichlorofluoromethane	1.1	U	1.1	0.45	ug/Kg	☒	11/13/19 06:25	11/14/19 23:38	1
Vinyl chloride	1.1	U	1.1	0.60	ug/Kg	☒	11/13/19 06:25	11/14/19 23:38	1
Xylenes, Total	2.2	U	2.2	0.19	ug/Kg	☒	11/13/19 06:25	11/14/19 23:38	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196259-1

Client Sample ID: WSG-GS7-0.5-2.0-0

Lab Sample ID: 460-196259-26

Date Collected: 11/04/19 10:30

Matrix: Solid

Date Received: 11/06/19 18:40

Percent Solids: 91.5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	113		78 - 135	11/13/19 06:25	11/14/19 23:38	1
4-Bromofluorobenzene	90		67 - 126	11/13/19 06:25	11/14/19 23:38	1
Dibromofluoromethane (Surr)	96		61 - 149	11/13/19 06:25	11/14/19 23:38	1
Toluene-d8 (Surr)	90		73 - 121	11/13/19 06:25	11/14/19 23:38	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	360	U	360	4.8	ug/Kg	☼	11/13/19 12:37	11/14/19 07:37	1
2,2'-oxybis[1-chloropropane]	360	U	360	6.5	ug/Kg	☼	11/13/19 12:37	11/14/19 07:37	1
2,4,5-Trichlorophenol	360	U	360	37	ug/Kg	☼	11/13/19 12:37	11/14/19 07:37	1
2,4,6-Trichlorophenol	150	U	150	46	ug/Kg	☼	11/13/19 12:37	11/14/19 07:37	1
2,4-Dichlorophenol	150	U	150	23	ug/Kg	☼	11/13/19 12:37	11/14/19 07:37	1
2,4-Dimethylphenol	360	U	360	16	ug/Kg	☼	11/13/19 12:37	11/14/19 07:37	1
2,4-Dinitrophenol	290	U	290	180	ug/Kg	☼	11/13/19 12:37	11/14/19 07:37	1
2,4-Dinitrotoluene	73	U	73	39	ug/Kg	☼	11/13/19 12:37	11/14/19 07:37	1
2,6-Dinitrotoluene	73	U	73	26	ug/Kg	☼	11/13/19 12:37	11/14/19 07:37	1
2-Chloronaphthalene	360	U	360	17	ug/Kg	☼	11/13/19 12:37	11/14/19 07:37	1
2-Chlorophenol	360	U	360	13	ug/Kg	☼	11/13/19 12:37	11/14/19 07:37	1
2-Methylnaphthalene	360	U	360	10	ug/Kg	☼	11/13/19 12:37	11/14/19 07:37	1
2-Methylphenol	360	U	360	13	ug/Kg	☼	11/13/19 12:37	11/14/19 07:37	1
2-Nitroaniline	360	U	360	14	ug/Kg	☼	11/13/19 12:37	11/14/19 07:37	1
2-Nitrophenol	360	U	360	36	ug/Kg	☼	11/13/19 12:37	11/14/19 07:37	1
3,3'-Dichlorobenzidine	150	U	150	55	ug/Kg	☼	11/13/19 12:37	11/14/19 07:37	1
3-Nitroaniline	360	U	360	41	ug/Kg	☼	11/13/19 12:37	11/14/19 07:37	1
4,6-Dinitro-2-methylphenol	290	U	290	59	ug/Kg	☼	11/13/19 12:37	11/14/19 07:37	1
4-Bromophenyl phenyl ether	360	U	360	14	ug/Kg	☼	11/13/19 12:37	11/14/19 07:37	1
4-Chloro-3-methylphenol	360	U	360	20	ug/Kg	☼	11/13/19 12:37	11/14/19 07:37	1
4-Chloroaniline	360	U	360	25	ug/Kg	☼	11/13/19 12:37	11/14/19 07:37	1
4-Chlorophenyl phenyl ether	360	U	360	13	ug/Kg	☼	11/13/19 12:37	11/14/19 07:37	1
4-Methylphenol	360	U	360	23	ug/Kg	☼	11/13/19 12:37	11/14/19 07:37	1
4-Nitroaniline	360	U	360	42	ug/Kg	☼	11/13/19 12:37	11/14/19 07:37	1
4-Nitrophenol	730	U	730	59	ug/Kg	☼	11/13/19 12:37	11/14/19 07:37	1
Acenaphthene	360	U	360	26	ug/Kg	☼	11/13/19 12:37	11/14/19 07:37	1
Acenaphthylene	360	U	360	3.7	ug/Kg	☼	11/13/19 12:37	11/14/19 07:37	1
Acetophenone	360	U	360	18	ug/Kg	☼	11/13/19 12:37	11/14/19 07:37	1
Anthracene	360	U	360	11	ug/Kg	☼	11/13/19 12:37	11/14/19 07:37	1
Atrazine	150	U	150	9.1	ug/Kg	☼	11/13/19 12:37	11/14/19 07:37	1
Benzaldehyde	360	U	360	16	ug/Kg	☼	11/13/19 12:37	11/14/19 07:37	1
Benzo[a]anthracene	26	J	36	13	ug/Kg	☼	11/13/19 12:37	11/14/19 07:37	1
Benzo[a]pyrene	16	J	36	9.6	ug/Kg	☼	11/13/19 12:37	11/14/19 07:37	1
Benzo[b]fluoranthene	26	J	36	9.3	ug/Kg	☼	11/13/19 12:37	11/14/19 07:37	1
Benzo[g,h,i]perylene	22	J	360	11	ug/Kg	☼	11/13/19 12:37	11/14/19 07:37	1
Benzo[k]fluoranthene	9.3	J	36	7.1	ug/Kg	☼	11/13/19 12:37	11/14/19 07:37	1
Bis(2-chloroethoxy)methane	360	U	360	28	ug/Kg	☼	11/13/19 12:37	11/14/19 07:37	1
Bis(2-chloroethyl)ether	36	U	36	13	ug/Kg	☼	11/13/19 12:37	11/14/19 07:37	1
Bis(2-ethylhexyl) phthalate	360	U	360	19	ug/Kg	☼	11/13/19 12:37	11/14/19 07:37	1
Butyl benzyl phthalate	360	U	360	17	ug/Kg	☼	11/13/19 12:37	11/14/19 07:37	1
Caprolactam	360	U	360	56	ug/Kg	☼	11/13/19 12:37	11/14/19 07:37	1
Carbazole	360	U	360	14	ug/Kg	☼	11/13/19 12:37	11/14/19 07:37	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196259-1

Client Sample ID: WSG-GS7-0.5-2.0-0

Lab Sample ID: 460-196259-26

Date Collected: 11/04/19 10:30

Matrix: Solid

Date Received: 11/06/19 18:40

Percent Solids: 91.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	27	J	360	6.1	ug/Kg	☒	11/13/19 12:37	11/14/19 07:37	1
Dibenz(a,h)anthracene	36	U	36	16	ug/Kg	☒	11/13/19 12:37	11/14/19 07:37	1
Dibenzofuran	360	U	360	5.1	ug/Kg	☒	11/13/19 12:37	11/14/19 07:37	1
Diethyl phthalate	360	U	360	5.2	ug/Kg	☒	11/13/19 12:37	11/14/19 07:37	1
Dimethyl phthalate	360	U	360	82	ug/Kg	☒	11/13/19 12:37	11/14/19 07:37	1
Di-n-butyl phthalate	360	U	360	64	ug/Kg	☒	11/13/19 12:37	11/14/19 07:37	1
Di-n-octyl phthalate	360	U	360	19	ug/Kg	☒	11/13/19 12:37	11/14/19 07:37	1
Fluoranthene	34	J	360	13	ug/Kg	☒	11/13/19 12:37	11/14/19 07:37	1
Fluorene	360	U	360	4.9	ug/Kg	☒	11/13/19 12:37	11/14/19 07:37	1
Hexachlorobenzene	36	U	36	17	ug/Kg	☒	11/13/19 12:37	11/14/19 07:37	1
Hexachlorobutadiene	73	U	73	7.7	ug/Kg	☒	11/13/19 12:37	11/14/19 07:37	1
Hexachlorocyclopentadiene	360	U	360	32	ug/Kg	☒	11/13/19 12:37	11/14/19 07:37	1
Hexachloroethane	36	U	36	12	ug/Kg	☒	11/13/19 12:37	11/14/19 07:37	1
Indeno[1,2,3-cd]pyrene	16	J	36	14	ug/Kg	☒	11/13/19 12:37	11/14/19 07:37	1
Isophorone	150	U	150	100	ug/Kg	☒	11/13/19 12:37	11/14/19 07:37	1
Naphthalene	360	U	360	6.2	ug/Kg	☒	11/13/19 12:37	11/14/19 07:37	1
Nitrobenzene	36	U	36	8.7	ug/Kg	☒	11/13/19 12:37	11/14/19 07:37	1
N-Nitrosodi-n-propylamine	36	U	36	26	ug/Kg	☒	11/13/19 12:37	11/14/19 07:37	1
N-Nitrosodiphenylamine	360	U	360	6.9	ug/Kg	☒	11/13/19 12:37	11/14/19 07:37	1
Pentachlorophenol	290	U	290	74	ug/Kg	☒	11/13/19 12:37	11/14/19 07:37	1
Phenanthrene	11	J	360	6.4	ug/Kg	☒	11/13/19 12:37	11/14/19 07:37	1
Phenol	360	U	360	13	ug/Kg	☒	11/13/19 12:37	11/14/19 07:37	1
Pyrene	41	J	360	9.0	ug/Kg	☒	11/13/19 12:37	11/14/19 07:37	1
1,4-Dioxane	110	U	110	10	ug/Kg	☒	11/13/19 12:37	11/14/19 07:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	60		10 - 137	11/13/19 12:37	11/14/19 07:37	1
2-Fluorobiphenyl	60		29 - 107	11/13/19 12:37	11/14/19 07:37	1
2-Fluorophenol (Surr)	53		20 - 115	11/13/19 12:37	11/14/19 07:37	1
Nitrobenzene-d5 (Surr)	56		25 - 113	11/13/19 12:37	11/14/19 07:37	1
Phenol-d5 (Surr)	57		28 - 109	11/13/19 12:37	11/14/19 07:37	1
Terphenyl-d14 (Surr)	63		27 - 123	11/13/19 12:37	11/14/19 07:37	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	4.7	J	7.3	1.2	ug/Kg	☒	11/12/19 08:55	11/14/19 11:50	1
4,4'-DDE	7.3	U	7.3	0.86	ug/Kg	☒	11/12/19 08:55	11/14/19 11:50	1
4,4'-DDT	7.3	U	7.3	1.3	ug/Kg	☒	11/12/19 08:55	11/14/19 11:50	1
Aldrin	7.3	U	7.3	1.1	ug/Kg	☒	11/12/19 08:55	11/14/19 11:50	1
alpha-BHC	2.2	U	2.2	0.74	ug/Kg	☒	11/12/19 08:55	11/14/19 11:50	1
beta-BHC	2.2	U	2.2	0.82	ug/Kg	☒	11/12/19 08:55	11/14/19 11:50	1
Chlordane (technical)	73	U	73	18	ug/Kg	☒	11/12/19 08:55	11/14/19 11:50	1
delta-BHC	2.2	U	2.2	0.45	ug/Kg	☒	11/12/19 08:55	11/14/19 11:50	1
Dieldrin	2.2	U	2.2	0.95	ug/Kg	☒	11/12/19 08:55	11/14/19 11:50	1
Endosulfan I	7.3	U	7.3	1.1	ug/Kg	☒	11/12/19 08:55	11/14/19 11:50	1
Endosulfan II	7.3	U	7.3	1.9	ug/Kg	☒	11/12/19 08:55	11/14/19 11:50	1
Endosulfan sulfate	7.3	U	7.3	0.92	ug/Kg	☒	11/12/19 08:55	11/14/19 11:50	1
Endrin	7.3	U	7.3	1.0	ug/Kg	☒	11/12/19 08:55	11/14/19 11:50	1
Endrin aldehyde	7.3	U	7.3	1.7	ug/Kg	☒	11/12/19 08:55	11/14/19 11:50	1

Eurofins TestAmerica, Edison

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196259-1

Client Sample ID: WSG-GS7-0.5-2.0-0

Lab Sample ID: 460-196259-26

Date Collected: 11/04/19 10:30

Matrix: Solid

Date Received: 11/06/19 18:40

Percent Solids: 91.5

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endrin ketone	7.3	U	7.3	1.4	ug/Kg	☼	11/12/19 08:55	11/14/19 11:50	1
gamma-BHC (Lindane)	2.2	U	2.2	0.68	ug/Kg	☼	11/12/19 08:55	11/14/19 11:50	1
Heptachlor	7.3	U	7.3	0.86	ug/Kg	☼	11/12/19 08:55	11/14/19 11:50	1
Heptachlor epoxide	7.3	U	7.3	1.1	ug/Kg	☼	11/12/19 08:55	11/14/19 11:50	1
Methoxychlor	7.3	U	7.3	1.7	ug/Kg	☼	11/12/19 08:55	11/14/19 11:50	1
Toxaphene	73	U	73	26	ug/Kg	☼	11/12/19 08:55	11/14/19 11:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	87		49 - 150	11/12/19 08:55	11/14/19 11:50	1
DCB Decachlorobiphenyl	92		49 - 150	11/12/19 08:55	11/14/19 11:50	1
Tetrachloro-m-xylene	90		47 - 150	11/12/19 08:55	11/14/19 11:50	1
Tetrachloro-m-xylene	92		47 - 150	11/12/19 08:55	11/14/19 11:50	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	73	U	73	9.7	ug/Kg	☼	11/12/19 08:47	11/13/19 19:09	1
Aroclor 1221	73	U	73	9.7	ug/Kg	☼	11/12/19 08:47	11/13/19 19:09	1
Aroclor 1232	73	U	73	9.7	ug/Kg	☼	11/12/19 08:47	11/13/19 19:09	1
Aroclor 1242	73	U	73	9.7	ug/Kg	☼	11/12/19 08:47	11/13/19 19:09	1
Aroclor 1248	73	U	73	9.7	ug/Kg	☼	11/12/19 08:47	11/13/19 19:09	1
Aroclor 1254	73	U	73	10	ug/Kg	☼	11/12/19 08:47	11/13/19 19:09	1
Aroclor 1260	73	U	73	10	ug/Kg	☼	11/12/19 08:47	11/13/19 19:09	1
Aroclor-1262	73	U	73	10	ug/Kg	☼	11/12/19 08:47	11/13/19 19:09	1
Aroclor 1268	73	U	73	10	ug/Kg	☼	11/12/19 08:47	11/13/19 19:09	1
Polychlorinated biphenyls, Total	73	U	73	10	ug/Kg	☼	11/12/19 08:47	11/13/19 19:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	113		53 - 150	11/12/19 08:47	11/13/19 19:09	1
DCB Decachlorobiphenyl	108		53 - 150	11/12/19 08:47	11/13/19 19:09	1

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	36	U	36	13	ug/Kg	☼	11/13/19 00:19	11/13/19 21:41	1
Silvex (2,4,5-TP)	36	U *	36	3.8	ug/Kg	☼	11/13/19 00:19	11/13/19 21:41	1
2,4,5-T	36	U *	36	7.7	ug/Kg	☼	11/13/19 00:19	11/13/19 21:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	161	*	30 - 150	11/13/19 00:19	11/13/19 21:41	1
2,4-Dichlorophenylacetic acid	134		30 - 150	11/13/19 00:19	11/13/19 21:41	1

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	0.21	U	0.21	0.043	ug/Kg	☼	11/18/19 06:37	11/30/19 08:26	1
Perfluoroheptanoic acid (PFHpA)	0.21	U	0.21	0.030	ug/Kg	☼	11/18/19 06:37	11/30/19 08:26	1
Perfluorooctanoic acid (PFOA)	0.21	U	0.21	0.089	ug/Kg	☼	11/18/19 06:37	11/30/19 08:26	1
Perfluorononanoic acid (PFNA)	0.21	U	0.21	0.037	ug/Kg	☼	11/18/19 06:37	11/30/19 08:26	1
Perfluorodecanoic acid (PFDA)	0.21	U	0.21	0.023	ug/Kg	☼	11/18/19 06:37	11/30/19 08:26	1
Perfluoroundecanoic acid (PFUnA)	0.21	U	0.21	0.037	ug/Kg	☼	11/18/19 06:37	11/30/19 08:26	1
Perfluorododecanoic acid (PFDoA)	0.21	U	0.21	0.069	ug/Kg	☼	11/18/19 06:37	11/30/19 08:26	1
Perfluorotridecanoic acid (PFTriA)	0.21	U	0.21	0.053	ug/Kg	☼	11/18/19 06:37	11/30/19 08:26	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196259-1

Client Sample ID: WSG-GS7-0.5-2.0-0

Lab Sample ID: 460-196259-26

Date Collected: 11/04/19 10:30

Matrix: Solid

Date Received: 11/06/19 18:40

Percent Solids: 91.5

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorotetradecanoic acid (PFTeA)	0.21	U	0.21	0.056	ug/Kg	☼	11/18/19 06:37	11/30/19 08:26	1
Perfluorobutanesulfonic acid (PFBS)	0.21	U	0.21	0.026	ug/Kg	☼	11/18/19 06:37	11/30/19 08:26	1
Perfluorohexanesulfonic acid (PFHxS)	0.21	U	0.21	0.032	ug/Kg	☼	11/18/19 06:37	11/30/19 08:26	1
Perfluorooctanesulfonic acid (PFOS)	0.23	J B	0.52	0.21	ug/Kg	☼	11/18/19 06:37	11/30/19 08:26	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.07	U	2.07	0.38	ug/Kg	☼	11/18/19 06:37	11/30/19 08:26	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.07	U	2.07	0.40	ug/Kg	☼	11/18/19 06:37	11/30/19 08:26	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C2 PFHxA	99		25 - 150				11/18/19 06:37	11/30/19 08:26	1
13C4 PFHpA	105		25 - 150				11/18/19 06:37	11/30/19 08:26	1
13C4 PFOA	104		25 - 150				11/18/19 06:37	11/30/19 08:26	1
13C5 PFNA	107		25 - 150				11/18/19 06:37	11/30/19 08:26	1
13C2 PFDA	100		25 - 150				11/18/19 06:37	11/30/19 08:26	1
13C2 PFUnA	106		25 - 150				11/18/19 06:37	11/30/19 08:26	1
13C2 PFDoA	107		25 - 150				11/18/19 06:37	11/30/19 08:26	1
13C2 PFTeDA	108		25 - 150				11/18/19 06:37	11/30/19 08:26	1
18O2 PFHxS	111		25 - 150				11/18/19 06:37	11/30/19 08:26	1
13C4 PFOS	105		25 - 150				11/18/19 06:37	11/30/19 08:26	1
d3-NMeFOSAA	84		25 - 150				11/18/19 06:37	11/30/19 08:26	1
d5-NEtFOSAA	91		25 - 150				11/18/19 06:37	11/30/19 08:26	1

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	3860		31.2	15.3	mg/Kg	☼	11/15/19 05:56	11/16/19 13:20	4
Silver	2.1	U	2.1	0.20	mg/Kg	☼	11/15/19 05:56	11/16/19 13:20	4
Aluminum	2870		41.6	11.8	mg/Kg	☼	11/15/19 05:56	11/16/19 13:20	4
Arsenic	1.7	J	3.1	1.2	mg/Kg	☼	11/15/19 05:56	11/16/19 13:20	4
Boron	6.1	J	10.4	2.9	mg/Kg	☼	11/15/19 05:56	11/16/19 13:20	4
Barium	13.4	J	41.6	2.3	mg/Kg	☼	11/15/19 05:56	11/16/19 13:20	4
Beryllium	0.16	J	0.42	0.093	mg/Kg	☼	11/15/19 05:56	11/16/19 13:20	4
Calcium	11200		1040	61.3	mg/Kg	☼	11/15/19 05:56	11/16/19 13:20	4
Cadmium	0.83	U	0.83	0.14	mg/Kg	☼	11/15/19 05:56	11/16/19 13:20	4
Cobalt	10.4	U	10.4	1.3	mg/Kg	☼	11/15/19 05:56	11/16/19 13:20	4
Chromium	7.8		2.1	0.37	mg/Kg	☼	11/15/19 05:56	11/16/19 13:20	4
Copper	4.2	J	5.2	2.8	mg/Kg	☼	11/15/19 05:56	11/16/19 13:20	4
Potassium	213	J	1040	64.7	mg/Kg	☼	11/15/19 05:56	11/16/19 13:20	4
Magnesium	828	J	1040	60.7	mg/Kg	☼	11/15/19 05:56	11/16/19 13:20	4
Manganese	68.0		3.1	0.36	mg/Kg	☼	11/15/19 05:56	11/16/19 13:20	4
Molybdenum	4.2	U	4.2	0.99	mg/Kg	☼	11/15/19 05:56	11/16/19 13:20	4
Sodium	1040	U	1040	83.6	mg/Kg	☼	11/15/19 05:56	11/16/19 13:20	4
Nickel	3.4	J	8.3	0.76	mg/Kg	☼	11/15/19 05:56	11/16/19 13:20	4
Lead	5.1		2.1	0.54	mg/Kg	☼	11/15/19 05:56	11/16/19 13:20	4
Antimony	4.2	U	4.2	1.1	mg/Kg	☼	11/15/19 05:56	11/16/19 13:20	4
Selenium	4.2	U	4.2	2.5	mg/Kg	☼	11/15/19 05:56	11/16/19 13:20	4
Tin	10.4	U	10.4	6.7	mg/Kg	☼	11/15/19 05:56	11/16/19 13:20	4
Strontium	47.8		4.2	0.42	mg/Kg	☼	11/15/19 05:56	11/16/19 13:20	4
Titanium	133		4.2	0.63	mg/Kg	☼	11/15/19 05:56	11/16/19 13:20	4

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196259-1

Client Sample ID: WSG-GS7-0.5-2.0-0

Lab Sample ID: 460-196259-26

Date Collected: 11/04/19 10:30

Matrix: Solid

Date Received: 11/06/19 18:40

Percent Solids: 91.5

Method: 6010D - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	4.2	U	4.2	0.66	mg/Kg	☼	11/15/19 05:56	11/16/19 13:20	4
Vanadium	8.2	J	10.4	0.69	mg/Kg	☼	11/15/19 05:56	11/16/19 13:20	4
Zinc	12.9		6.2	4.8	mg/Kg	☼	11/15/19 05:56	11/16/19 13:20	4

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.018	U	0.018	0.011	mg/Kg	☼	11/15/19 02:43	11/15/19 06:58	1

Client Sample ID: WSG-GS7-2.0-3.5-0

Lab Sample ID: 460-196259-27

Date Collected: 11/04/19 10:40

Matrix: Solid

Date Received: 11/06/19 18:40

Percent Solids: 84.6

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	0.22	U	0.22	0.046	ug/Kg	☼	11/18/19 06:37	11/30/19 08:56	1
Perfluoroheptanoic acid (PFHpA)	0.22	U	0.22	0.032	ug/Kg	☼	11/18/19 06:37	11/30/19 08:56	1
Perfluorooctanoic acid (PFOA)	0.22	U	0.22	0.095	ug/Kg	☼	11/18/19 06:37	11/30/19 08:56	1
Perfluorononanoic acid (PFNA)	0.22	U	0.22	0.040	ug/Kg	☼	11/18/19 06:37	11/30/19 08:56	1
Perfluorodecanoic acid (PFDA)	0.22	U	0.22	0.024	ug/Kg	☼	11/18/19 06:37	11/30/19 08:56	1
Perfluoroundecanoic acid (PFUnA)	0.22	U	0.22	0.040	ug/Kg	☼	11/18/19 06:37	11/30/19 08:56	1
Perfluorododecanoic acid (PFDoA)	0.22	U	0.22	0.074	ug/Kg	☼	11/18/19 06:37	11/30/19 08:56	1
Perfluorotridecanoic acid (PFTriA)	0.22	U	0.22	0.056	ug/Kg	☼	11/18/19 06:37	11/30/19 08:56	1
Perfluorotetradecanoic acid (PFTeA)	0.22	U	0.22	0.060	ug/Kg	☼	11/18/19 06:37	11/30/19 08:56	1
Perfluorobutanesulfonic acid (PFBS)	0.039	J	0.22	0.028	ug/Kg	☼	11/18/19 06:37	11/30/19 08:56	1
Perfluorohexanesulfonic acid (PFHxS)	0.22	U	0.22	0.034	ug/Kg	☼	11/18/19 06:37	11/30/19 08:56	1
Perfluorooctanesulfonic acid (PFOS)	0.23	J B	0.55	0.22	ug/Kg	☼	11/18/19 06:37	11/30/19 08:56	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.21	U	2.21	0.41	ug/Kg	☼	11/18/19 06:37	11/30/19 08:56	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.21	U	2.21	0.43	ug/Kg	☼	11/18/19 06:37	11/30/19 08:56	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFHxA	98		25 - 150	11/18/19 06:37	11/30/19 08:56	1
13C4 PFHpA	107		25 - 150	11/18/19 06:37	11/30/19 08:56	1
13C4 PFOA	103		25 - 150	11/18/19 06:37	11/30/19 08:56	1
13C5 PFNA	108		25 - 150	11/18/19 06:37	11/30/19 08:56	1
13C2 PFDA	102		25 - 150	11/18/19 06:37	11/30/19 08:56	1
13C2 PFUnA	105		25 - 150	11/18/19 06:37	11/30/19 08:56	1
13C2 PFDoA	111		25 - 150	11/18/19 06:37	11/30/19 08:56	1
13C2 PFTeDA	110		25 - 150	11/18/19 06:37	11/30/19 08:56	1
18O2 PFHxS	110		25 - 150	11/18/19 06:37	11/30/19 08:56	1
13C4 PFOS	103		25 - 150	11/18/19 06:37	11/30/19 08:56	1
d3-NMeFOSAA	92		25 - 150	11/18/19 06:37	11/30/19 08:56	1
d5-NEtFOSAA	92		25 - 150	11/18/19 06:37	11/30/19 08:56	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196259-1

Client Sample ID: WSG-GS4-2.5-3.5-0

Lab Sample ID: 460-196259-28

Date Collected: 11/04/19 09:20

Matrix: Solid

Date Received: 11/06/19 18:40

Percent Solids: 96.8

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	0.20	U	0.20	0.042	ug/Kg	☼	11/18/19 06:37	11/30/19 09:06	1
Perfluoroheptanoic acid (PFHpA)	0.20	U	0.20	0.029	ug/Kg	☼	11/18/19 06:37	11/30/19 09:06	1
Perfluorooctanoic acid (PFOA)	0.20	U	0.20	0.085	ug/Kg	☼	11/18/19 06:37	11/30/19 09:06	1
Perfluorononanoic acid (PFNA)	0.20	U	0.20	0.036	ug/Kg	☼	11/18/19 06:37	11/30/19 09:06	1
Perfluorodecanoic acid (PFDA)	0.039	J	0.20	0.022	ug/Kg	☼	11/18/19 06:37	11/30/19 09:06	1
Perfluoroundecanoic acid (PFUnA)	0.040	J	0.20	0.036	ug/Kg	☼	11/18/19 06:37	11/30/19 09:06	1
Perfluorododecanoic acid (PFDoA)	0.20	U	0.20	0.066	ug/Kg	☼	11/18/19 06:37	11/30/19 09:06	1
Perfluorotridecanoic acid (PFTriA)	0.20	U	0.20	0.051	ug/Kg	☼	11/18/19 06:37	11/30/19 09:06	1
Perfluorotetradecanoic acid (PFTeA)	0.20	U	0.20	0.054	ug/Kg	☼	11/18/19 06:37	11/30/19 09:06	1
Perfluorobutanesulfonic acid (PFBS)	0.20	U	0.20	0.025	ug/Kg	☼	11/18/19 06:37	11/30/19 09:06	1
Perfluorohexanesulfonic acid (PFHxS)	0.20	U	0.20	0.031	ug/Kg	☼	11/18/19 06:37	11/30/19 09:06	1
Perfluorooctanesulfonic acid (PFOS)	0.55	B	0.50	0.20	ug/Kg	☼	11/18/19 06:37	11/30/19 09:06	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	1.98	U	1.98	0.37	ug/Kg	☼	11/18/19 06:37	11/30/19 09:06	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	1.98	U	1.98	0.39	ug/Kg	☼	11/18/19 06:37	11/30/19 09:06	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFHxA	99		25 - 150	11/18/19 06:37	11/30/19 09:06	1
13C4 PFHpA	106		25 - 150	11/18/19 06:37	11/30/19 09:06	1
13C4 PFOA	104		25 - 150	11/18/19 06:37	11/30/19 09:06	1
13C5 PFNA	106		25 - 150	11/18/19 06:37	11/30/19 09:06	1
13C2 PFDA	104		25 - 150	11/18/19 06:37	11/30/19 09:06	1
13C2 PFUnA	106		25 - 150	11/18/19 06:37	11/30/19 09:06	1
13C2 PFDoA	105		25 - 150	11/18/19 06:37	11/30/19 09:06	1
13C2 PFTeA	106		25 - 150	11/18/19 06:37	11/30/19 09:06	1
18O2 PFHxS	113		25 - 150	11/18/19 06:37	11/30/19 09:06	1
13C4 PFOS	110		25 - 150	11/18/19 06:37	11/30/19 09:06	1
d3-NMeFOSAA	94		25 - 150	11/18/19 06:37	11/30/19 09:06	1
d5-NEtFOSAA	94		25 - 150	11/18/19 06:37	11/30/19 09:06	1

Method: 537 (modified) - Fluorinated Alkyl Substances - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	0.32	J H	0.48	0.19	ug/Kg	☼	12/04/19 07:00	12/06/19 18:57	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFOS	90		25 - 150	12/04/19 07:00	12/06/19 18:57	1

Client Sample ID: WSG-GS8-0.0-0.2-0

Lab Sample ID: 460-196259-29

Date Collected: 11/04/19 11:20

Matrix: Solid

Date Received: 11/06/19 18:40

Percent Solids: 94.5

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.95	U	0.95	0.22	ug/Kg	☼	11/13/19 06:25	11/15/19 00:03	1
1,1,2,2-Tetrachloroethane	0.95	U	0.95	0.20	ug/Kg	☼	11/13/19 06:25	11/15/19 00:03	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.95	U	0.95	0.29	ug/Kg	☼	11/13/19 06:25	11/15/19 00:03	1
1,1,2-Trichloroethane	0.95	U	0.95	0.17	ug/Kg	☼	11/13/19 06:25	11/15/19 00:03	1
1,1-Dichloroethane	0.95	U	0.95	0.20	ug/Kg	☼	11/13/19 06:25	11/15/19 00:03	1

Eurofins TestAmerica, Edison

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196259-1

Client Sample ID: WSG-GS8-0.0-0.2-0

Lab Sample ID: 460-196259-29

Date Collected: 11/04/19 11:20

Matrix: Solid

Date Received: 11/06/19 18:40

Percent Solids: 94.5

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	0.95	U	0.95	0.21	ug/Kg	☒	11/13/19 06:25	11/15/19 00:03	1
1,2,4-Trichlorobenzene	0.95	U	0.95	0.34	ug/Kg	☒	11/13/19 06:25	11/15/19 00:03	1
1,2-Dibromo-3-Chloropropane	0.95	U	0.95	0.44	ug/Kg	☒	11/13/19 06:25	11/15/19 00:03	1
1,2-Dichlorobenzene	0.95	U	0.95	0.14	ug/Kg	☒	11/13/19 06:25	11/15/19 00:03	1
1,2-Dichloroethane	0.95	U*	0.95	0.28	ug/Kg	☒	11/13/19 06:25	11/15/19 00:03	1
1,2-Dichloropropane	0.95	U	0.95	0.40	ug/Kg	☒	11/13/19 06:25	11/15/19 00:03	1
1,3-Dichlorobenzene	0.95	U	0.95	0.15	ug/Kg	☒	11/13/19 06:25	11/15/19 00:03	1
1,4-Dichlorobenzene	0.95	U	0.95	0.21	ug/Kg	☒	11/13/19 06:25	11/15/19 00:03	1
2-Butanone (MEK)	4.7	U	4.7	2.6	ug/Kg	☒	11/13/19 06:25	11/15/19 00:03	1
2-Hexanone	4.7	U	4.7	1.6	ug/Kg	☒	11/13/19 06:25	11/15/19 00:03	1
4-Methyl-2-pentanone (MIBK)	4.7	U	4.7	1.5	ug/Kg	☒	11/13/19 06:25	11/15/19 00:03	1
Acetone	5.7	U	5.7	5.4	ug/Kg	☒	11/13/19 06:25	11/15/19 00:03	1
Benzene	0.95	U	0.95	0.24	ug/Kg	☒	11/13/19 06:25	11/15/19 00:03	1
Bromoform	0.95	U	0.95	0.40	ug/Kg	☒	11/13/19 06:25	11/15/19 00:03	1
Bromomethane	0.95	U	0.95	0.45	ug/Kg	☒	11/13/19 06:25	11/15/19 00:03	1
Carbon disulfide	0.95	U	0.95	0.25	ug/Kg	☒	11/13/19 06:25	11/15/19 00:03	1
Carbon tetrachloride	0.95	U	0.95	0.37	ug/Kg	☒	11/13/19 06:25	11/15/19 00:03	1
Chlorobenzene	0.95	U	0.95	0.17	ug/Kg	☒	11/13/19 06:25	11/15/19 00:03	1
Chlorodibromomethane	0.95	U	0.95	0.18	ug/Kg	☒	11/13/19 06:25	11/15/19 00:03	1
Chloroethane	0.95	U	0.95	0.49	ug/Kg	☒	11/13/19 06:25	11/15/19 00:03	1
Chloroform	0.95	U	0.95	0.30	ug/Kg	☒	11/13/19 06:25	11/15/19 00:03	1
Chloromethane	0.95	U	0.95	0.41	ug/Kg	☒	11/13/19 06:25	11/15/19 00:03	1
cis-1,2-Dichloroethene	0.95	U	0.95	0.14	ug/Kg	☒	11/13/19 06:25	11/15/19 00:03	1
cis-1,3-Dichloropropene	0.95	U	0.95	0.26	ug/Kg	☒	11/13/19 06:25	11/15/19 00:03	1
Cyclohexane	0.95	U	0.95	0.21	ug/Kg	☒	11/13/19 06:25	11/15/19 00:03	1
Dichlorobromomethane	0.95	U	0.95	0.24	ug/Kg	☒	11/13/19 06:25	11/15/19 00:03	1
Dichlorodifluoromethane	0.95	U	0.95	0.32	ug/Kg	☒	11/13/19 06:25	11/15/19 00:03	1
Ethylbenzene	0.95	U	0.95	0.19	ug/Kg	☒	11/13/19 06:25	11/15/19 00:03	1
Ethylene Dibromide	0.95	U	0.95	0.17	ug/Kg	☒	11/13/19 06:25	11/15/19 00:03	1
Isopropylbenzene	0.95	U	0.95	0.12	ug/Kg	☒	11/13/19 06:25	11/15/19 00:03	1
Methyl acetate	4.7	U	4.7	4.1	ug/Kg	☒	11/13/19 06:25	11/15/19 00:03	1
Methyl tert-butyl ether	0.95	U	0.95	0.12	ug/Kg	☒	11/13/19 06:25	11/15/19 00:03	1
Methylcyclohexane	0.95	U	0.95	0.47	ug/Kg	☒	11/13/19 06:25	11/15/19 00:03	1
Methylene Chloride	0.95	U	0.95	0.44	ug/Kg	☒	11/13/19 06:25	11/15/19 00:03	1
Styrene	0.95	U	0.95	0.26	ug/Kg	☒	11/13/19 06:25	11/15/19 00:03	1
Tetrachloroethene	0.95	U	0.95	0.14	ug/Kg	☒	11/13/19 06:25	11/15/19 00:03	1
Toluene	0.95	U	0.95	0.22	ug/Kg	☒	11/13/19 06:25	11/15/19 00:03	1
trans-1,2-Dichloroethene	0.95	U	0.95	0.23	ug/Kg	☒	11/13/19 06:25	11/15/19 00:03	1
trans-1,3-Dichloropropene	0.95	U	0.95	0.25	ug/Kg	☒	11/13/19 06:25	11/15/19 00:03	1
Trichloroethene	0.95	U	0.95	0.14	ug/Kg	☒	11/13/19 06:25	11/15/19 00:03	1
Trichlorofluoromethane	0.95	U	0.95	0.38	ug/Kg	☒	11/13/19 06:25	11/15/19 00:03	1
Vinyl chloride	0.95	U	0.95	0.52	ug/Kg	☒	11/13/19 06:25	11/15/19 00:03	1
Xylenes, Total	1.9	U	1.9	0.16	ug/Kg	☒	11/13/19 06:25	11/15/19 00:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	111		78 - 135	11/13/19 06:25	11/15/19 00:03	1
4-Bromofluorobenzene	91		67 - 126	11/13/19 06:25	11/15/19 00:03	1
Dibromofluoromethane (Surr)	94		61 - 149	11/13/19 06:25	11/15/19 00:03	1
Toluene-d8 (Surr)	89		73 - 121	11/13/19 06:25	11/15/19 00:03	1

Eurofins TestAmerica, Edison

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196259-1

Client Sample ID: WSG-GS8-0.0-0.2-0

Lab Sample ID: 460-196259-29

Date Collected: 11/04/19 11:20

Matrix: Solid

Date Received: 11/06/19 18:40

Percent Solids: 94.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	350	U	350	4.6	ug/Kg	☒	11/13/19 12:37	11/14/19 01:44	1
2,2'-oxybis[1-chloropropane]	350	U	350	6.3	ug/Kg	☒	11/13/19 12:37	11/14/19 01:44	1
2,4,5-Trichlorophenol	350	U	350	36	ug/Kg	☒	11/13/19 12:37	11/14/19 01:44	1
2,4,6-Trichlorophenol	140	U	140	45	ug/Kg	☒	11/13/19 12:37	11/14/19 01:44	1
2,4-Dichlorophenol	140	U	140	22	ug/Kg	☒	11/13/19 12:37	11/14/19 01:44	1
2,4-Dimethylphenol	350	U	350	15	ug/Kg	☒	11/13/19 12:37	11/14/19 01:44	1
2,4-Dinitrophenol	280	U	280	170	ug/Kg	☒	11/13/19 12:37	11/14/19 01:44	1
2,4-Dinitrotoluene	71	U	71	38	ug/Kg	☒	11/13/19 12:37	11/14/19 01:44	1
2,6-Dinitrotoluene	71	U	71	25	ug/Kg	☒	11/13/19 12:37	11/14/19 01:44	1
2-Chloronaphthalene	350	U	350	16	ug/Kg	☒	11/13/19 12:37	11/14/19 01:44	1
2-Chlorophenol	350	U	350	12	ug/Kg	☒	11/13/19 12:37	11/14/19 01:44	1
2-Methylnaphthalene	350	U	350	9.8	ug/Kg	☒	11/13/19 12:37	11/14/19 01:44	1
2-Methylphenol	350	U	350	13	ug/Kg	☒	11/13/19 12:37	11/14/19 01:44	1
2-Nitroaniline	350	U	350	13	ug/Kg	☒	11/13/19 12:37	11/14/19 01:44	1
2-Nitrophenol	350	U	350	35	ug/Kg	☒	11/13/19 12:37	11/14/19 01:44	1
3,3'-Dichlorobenzidine	140	U	140	53	ug/Kg	☒	11/13/19 12:37	11/14/19 01:44	1
3-Nitroaniline	350	U	350	39	ug/Kg	☒	11/13/19 12:37	11/14/19 01:44	1
4,6-Dinitro-2-methylphenol	280	U	280	57	ug/Kg	☒	11/13/19 12:37	11/14/19 01:44	1
4-Bromophenyl phenyl ether	350	U	350	14	ug/Kg	☒	11/13/19 12:37	11/14/19 01:44	1
4-Chloro-3-methylphenol	350	U	350	20	ug/Kg	☒	11/13/19 12:37	11/14/19 01:44	1
4-Chloroaniline	350	U	350	24	ug/Kg	☒	11/13/19 12:37	11/14/19 01:44	1
4-Chlorophenyl phenyl ether	350	U	350	12	ug/Kg	☒	11/13/19 12:37	11/14/19 01:44	1
4-Methylphenol	350	U	350	22	ug/Kg	☒	11/13/19 12:37	11/14/19 01:44	1
4-Nitroaniline	350	U	350	40	ug/Kg	☒	11/13/19 12:37	11/14/19 01:44	1
4-Nitrophenol	710	U	710	57	ug/Kg	☒	11/13/19 12:37	11/14/19 01:44	1
Acenaphthene	350	U	350	25	ug/Kg	☒	11/13/19 12:37	11/14/19 01:44	1
Acenaphthylene	350	U	350	3.6	ug/Kg	☒	11/13/19 12:37	11/14/19 01:44	1
Acetophenone	350	U	350	17	ug/Kg	☒	11/13/19 12:37	11/14/19 01:44	1
Anthracene	350	U	350	11	ug/Kg	☒	11/13/19 12:37	11/14/19 01:44	1
Atrazine	140	U	140	8.8	ug/Kg	☒	11/13/19 12:37	11/14/19 01:44	1
Benzaldehyde	350	U	350	15	ug/Kg	☒	11/13/19 12:37	11/14/19 01:44	1
Benzo[a]anthracene	35	U	35	12	ug/Kg	☒	11/13/19 12:37	11/14/19 01:44	1
Benzo[a]pyrene	35	U	35	9.3	ug/Kg	☒	11/13/19 12:37	11/14/19 01:44	1
Benzo[b]fluoranthene	35	U	35	9.1	ug/Kg	☒	11/13/19 12:37	11/14/19 01:44	1
Benzo[g,h,i]perylene	350	U	350	10	ug/Kg	☒	11/13/19 12:37	11/14/19 01:44	1
Benzo[k]fluoranthene	35	U	35	6.9	ug/Kg	☒	11/13/19 12:37	11/14/19 01:44	1
Bis(2-chloroethoxy)methane	350	U	350	27	ug/Kg	☒	11/13/19 12:37	11/14/19 01:44	1
Bis(2-chloroethyl)ether	35	U	35	12	ug/Kg	☒	11/13/19 12:37	11/14/19 01:44	1
Bis(2-ethylhexyl) phthalate	350	U	350	19	ug/Kg	☒	11/13/19 12:37	11/14/19 01:44	1
Butyl benzyl phthalate	350	U	350	16	ug/Kg	☒	11/13/19 12:37	11/14/19 01:44	1
Caprolactam	350	U	350	54	ug/Kg	☒	11/13/19 12:37	11/14/19 01:44	1
Carbazole	350	U	350	13	ug/Kg	☒	11/13/19 12:37	11/14/19 01:44	1
Chrysene	350	U	350	5.9	ug/Kg	☒	11/13/19 12:37	11/14/19 01:44	1
Dibenz(a,h)anthracene	35	U	35	15	ug/Kg	☒	11/13/19 12:37	11/14/19 01:44	1
Dibenzofuran	350	U	350	4.9	ug/Kg	☒	11/13/19 12:37	11/14/19 01:44	1
Diethyl phthalate	350	U	350	5.1	ug/Kg	☒	11/13/19 12:37	11/14/19 01:44	1
Dimethyl phthalate	350	U	350	80	ug/Kg	☒	11/13/19 12:37	11/14/19 01:44	1
Di-n-butyl phthalate	350	U	350	62	ug/Kg	☒	11/13/19 12:37	11/14/19 01:44	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196259-1

Client Sample ID: WSG-GS8-0.0-0.2-0

Lab Sample ID: 460-196259-29

Date Collected: 11/04/19 11:20

Matrix: Solid

Date Received: 11/06/19 18:40

Percent Solids: 94.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate	350	U	350	19	ug/Kg	☼	11/13/19 12:37	11/14/19 01:44	1
Fluoranthene	350	U	350	12	ug/Kg	☼	11/13/19 12:37	11/14/19 01:44	1
Fluorene	350	U	350	4.7	ug/Kg	☼	11/13/19 12:37	11/14/19 01:44	1
Hexachlorobenzene	35	U	35	17	ug/Kg	☼	11/13/19 12:37	11/14/19 01:44	1
Hexachlorobutadiene	71	U	71	7.4	ug/Kg	☼	11/13/19 12:37	11/14/19 01:44	1
Hexachlorocyclopentadiene	350	U	350	31	ug/Kg	☼	11/13/19 12:37	11/14/19 01:44	1
Hexachloroethane	35	U	35	12	ug/Kg	☼	11/13/19 12:37	11/14/19 01:44	1
Indeno[1,2,3-cd]pyrene	35	U	35	14	ug/Kg	☼	11/13/19 12:37	11/14/19 01:44	1
Isophorone	140	U	140	100	ug/Kg	☼	11/13/19 12:37	11/14/19 01:44	1
Naphthalene	350	U	350	6.0	ug/Kg	☼	11/13/19 12:37	11/14/19 01:44	1
Nitrobenzene	35	U	35	8.4	ug/Kg	☼	11/13/19 12:37	11/14/19 01:44	1
N-Nitrosodi-n-propylamine	35	U	35	25	ug/Kg	☼	11/13/19 12:37	11/14/19 01:44	1
N-Nitrosodiphenylamine	350	U	350	6.7	ug/Kg	☼	11/13/19 12:37	11/14/19 01:44	1
Pentachlorophenol	280	U	280	72	ug/Kg	☼	11/13/19 12:37	11/14/19 01:44	1
Phenanthrene	350	U	350	6.2	ug/Kg	☼	11/13/19 12:37	11/14/19 01:44	1
Phenol	350	U	350	13	ug/Kg	☼	11/13/19 12:37	11/14/19 01:44	1
Pyrene	350	U	350	8.7	ug/Kg	☼	11/13/19 12:37	11/14/19 01:44	1
1,4-Dioxane	110	U	110	9.6	ug/Kg	☼	11/13/19 12:37	11/14/19 01:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	84		10 - 137	11/13/19 12:37	11/14/19 01:44	1
2-Fluorobiphenyl	72		29 - 107	11/13/19 12:37	11/14/19 01:44	1
2-Fluorophenol (Surr)	69		20 - 115	11/13/19 12:37	11/14/19 01:44	1
Nitrobenzene-d5 (Surr)	72		25 - 113	11/13/19 12:37	11/14/19 01:44	1
Phenol-d5 (Surr)	71		28 - 109	11/13/19 12:37	11/14/19 01:44	1
Terphenyl-d14 (Surr)	78		27 - 123	11/13/19 12:37	11/14/19 01:44	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	7.1	U	7.1	1.2	ug/Kg	☼	11/12/19 08:55	11/14/19 12:06	1
4,4'-DDE	7.1	U	7.1	0.84	ug/Kg	☼	11/12/19 08:55	11/14/19 12:06	1
4,4'-DDT	7.1	U	7.1	1.3	ug/Kg	☼	11/12/19 08:55	11/14/19 12:06	1
Aldrin	7.1	U	7.1	1.1	ug/Kg	☼	11/12/19 08:55	11/14/19 12:06	1
alpha-BHC	2.1	U	2.1	0.72	ug/Kg	☼	11/12/19 08:55	11/14/19 12:06	1
beta-BHC	2.1	U	2.1	0.79	ug/Kg	☼	11/12/19 08:55	11/14/19 12:06	1
Chlordane (technical)	71	U	71	17	ug/Kg	☼	11/12/19 08:55	11/14/19 12:06	1
delta-BHC	2.1	U	2.1	0.43	ug/Kg	☼	11/12/19 08:55	11/14/19 12:06	1
Dieldrin	2.1	U	2.1	0.92	ug/Kg	☼	11/12/19 08:55	11/14/19 12:06	1
Endosulfan I	7.1	U	7.1	1.1	ug/Kg	☼	11/12/19 08:55	11/14/19 12:06	1
Endosulfan II	7.1	U	7.1	1.8	ug/Kg	☼	11/12/19 08:55	11/14/19 12:06	1
Endosulfan sulfate	7.1	U	7.1	0.89	ug/Kg	☼	11/12/19 08:55	11/14/19 12:06	1
Endrin	7.1	U	7.1	1.0	ug/Kg	☼	11/12/19 08:55	11/14/19 12:06	1
Endrin aldehyde	7.1	U	7.1	1.7	ug/Kg	☼	11/12/19 08:55	11/14/19 12:06	1
Endrin ketone	7.1	U	7.1	1.4	ug/Kg	☼	11/12/19 08:55	11/14/19 12:06	1
gamma-BHC (Lindane)	2.1	U	2.1	0.66	ug/Kg	☼	11/12/19 08:55	11/14/19 12:06	1
Heptachlor	7.1	U	7.1	0.84	ug/Kg	☼	11/12/19 08:55	11/14/19 12:06	1
Heptachlor epoxide	7.1	U	7.1	1.1	ug/Kg	☼	11/12/19 08:55	11/14/19 12:06	1
Methoxychlor	7.1	U	7.1	1.6	ug/Kg	☼	11/12/19 08:55	11/14/19 12:06	1
Toxaphene	71	U	71	26	ug/Kg	☼	11/12/19 08:55	11/14/19 12:06	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196259-1

Client Sample ID: WSG-GS8-0.0-0.2-0

Lab Sample ID: 460-196259-29

Date Collected: 11/04/19 11:20

Matrix: Solid

Date Received: 11/06/19 18:40

Percent Solids: 94.5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	57		49 - 150	11/12/19 08:55	11/14/19 12:06	1
DCB Decachlorobiphenyl	66		49 - 150	11/12/19 08:55	11/14/19 12:06	1
Tetrachloro-m-xylene	67		47 - 150	11/12/19 08:55	11/14/19 12:06	1
Tetrachloro-m-xylene	66		47 - 150	11/12/19 08:55	11/14/19 12:06	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	71	U	71	9.4	ug/Kg	☼	11/12/19 08:47	11/13/19 19:26	1
Aroclor 1221	71	U	71	9.4	ug/Kg	☼	11/12/19 08:47	11/13/19 19:26	1
Aroclor 1232	71	U	71	9.4	ug/Kg	☼	11/12/19 08:47	11/13/19 19:26	1
Aroclor 1242	71	U	71	9.4	ug/Kg	☼	11/12/19 08:47	11/13/19 19:26	1
Aroclor 1248	71	U	71	9.4	ug/Kg	☼	11/12/19 08:47	11/13/19 19:26	1
Aroclor 1254	71	U	71	9.7	ug/Kg	☼	11/12/19 08:47	11/13/19 19:26	1
Aroclor 1260	71	U	71	9.7	ug/Kg	☼	11/12/19 08:47	11/13/19 19:26	1
Aroclor-1262	71	U	71	9.7	ug/Kg	☼	11/12/19 08:47	11/13/19 19:26	1
Aroclor 1268	71	U	71	9.7	ug/Kg	☼	11/12/19 08:47	11/13/19 19:26	1
Polychlorinated biphenyls, Total	71	U	71	9.7	ug/Kg	☼	11/12/19 08:47	11/13/19 19:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	86		53 - 150	11/12/19 08:47	11/13/19 19:26	1
DCB Decachlorobiphenyl	83		53 - 150	11/12/19 08:47	11/13/19 19:26	1

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	35	U	35	13	ug/Kg	☼	11/13/19 00:19	11/13/19 21:55	1
Silvex (2,4,5-TP)	35	U *	35	3.7	ug/Kg	☼	11/13/19 00:19	11/13/19 21:55	1
2,4,5-T	35	U *	35	7.5	ug/Kg	☼	11/13/19 00:19	11/13/19 21:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	145		30 - 150	11/13/19 00:19	11/13/19 21:55	1
2,4-Dichlorophenylacetic acid	129		30 - 150	11/13/19 00:19	11/13/19 21:55	1

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	0.20	U	0.20	0.042	ug/Kg	☼	11/18/19 06:37	11/30/19 09:16	1
Perfluoroheptanoic acid (PFHpA)	0.20	U	0.20	0.029	ug/Kg	☼	11/18/19 06:37	11/30/19 09:16	1
Perfluorooctanoic acid (PFOA)	0.20	U	0.20	0.086	ug/Kg	☼	11/18/19 06:37	11/30/19 09:16	1
Perfluorononanoic acid (PFNA)	0.20	U	0.20	0.036	ug/Kg	☼	11/18/19 06:37	11/30/19 09:16	1
Perfluorodecanoic acid (PFDA)	0.075	J	0.20	0.022	ug/Kg	☼	11/18/19 06:37	11/30/19 09:16	1
Perfluoroundecanoic acid (PFUnA)	0.059	J	0.20	0.036	ug/Kg	☼	11/18/19 06:37	11/30/19 09:16	1
Perfluorododecanoic acid (PFDoA)	0.20	U	0.20	0.067	ug/Kg	☼	11/18/19 06:37	11/30/19 09:16	1
Perfluorotridecanoic acid (PFTriA)	0.20	U	0.20	0.051	ug/Kg	☼	11/18/19 06:37	11/30/19 09:16	1
Perfluorotetradecanoic acid (PFTeA)	0.20	U	0.20	0.054	ug/Kg	☼	11/18/19 06:37	11/30/19 09:16	1
Perfluorobutanesulfonic acid (PFBS)	0.20	U	0.20	0.025	ug/Kg	☼	11/18/19 06:37	11/30/19 09:16	1
Perfluorohexanesulfonic acid (PFHxS)	0.20	U	0.20	0.031	ug/Kg	☼	11/18/19 06:37	11/30/19 09:16	1
Perfluorooctanesulfonic acid (PFOS)	0.31	J B	0.50	0.20	ug/Kg	☼	11/18/19 06:37	11/30/19 09:16	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEFOSAA)	1.99	U	1.99	0.37	ug/Kg	☼	11/18/19 06:37	11/30/19 09:16	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196259-1

Client Sample ID: WSG-GS8-0.0-0.2-0

Lab Sample ID: 460-196259-29

Date Collected: 11/04/19 11:20

Matrix: Solid

Date Received: 11/06/19 18:40

Percent Solids: 94.5

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	1.99	U	1.99	0.39	ug/Kg	☼	11/18/19 06:37	11/30/19 09:16	1
<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>13C2 PFHxA</i>	<i>101</i>		<i>25 - 150</i>				<i>11/18/19 06:37</i>	<i>11/30/19 09:16</i>	<i>1</i>
<i>13C4 PFHpA</i>	<i>106</i>		<i>25 - 150</i>				<i>11/18/19 06:37</i>	<i>11/30/19 09:16</i>	<i>1</i>
<i>13C4 PFOA</i>	<i>99</i>		<i>25 - 150</i>				<i>11/18/19 06:37</i>	<i>11/30/19 09:16</i>	<i>1</i>
<i>13C5 PFNA</i>	<i>106</i>		<i>25 - 150</i>				<i>11/18/19 06:37</i>	<i>11/30/19 09:16</i>	<i>1</i>
<i>13C2 PFDA</i>	<i>103</i>		<i>25 - 150</i>				<i>11/18/19 06:37</i>	<i>11/30/19 09:16</i>	<i>1</i>
<i>13C2 PFUnA</i>	<i>107</i>		<i>25 - 150</i>				<i>11/18/19 06:37</i>	<i>11/30/19 09:16</i>	<i>1</i>
<i>13C2 PFDoA</i>	<i>114</i>		<i>25 - 150</i>				<i>11/18/19 06:37</i>	<i>11/30/19 09:16</i>	<i>1</i>
<i>13C2 PFTeDA</i>	<i>115</i>		<i>25 - 150</i>				<i>11/18/19 06:37</i>	<i>11/30/19 09:16</i>	<i>1</i>
<i>18O2 PFHxS</i>	<i>103</i>		<i>25 - 150</i>				<i>11/18/19 06:37</i>	<i>11/30/19 09:16</i>	<i>1</i>
<i>13C4 PFOS</i>	<i>99</i>		<i>25 - 150</i>				<i>11/18/19 06:37</i>	<i>11/30/19 09:16</i>	<i>1</i>
<i>d3-NMeFOSAA</i>	<i>75</i>		<i>25 - 150</i>				<i>11/18/19 06:37</i>	<i>11/30/19 09:16</i>	<i>1</i>
<i>d5-NEtFOSAA</i>	<i>78</i>		<i>25 - 150</i>				<i>11/18/19 06:37</i>	<i>11/30/19 09:16</i>	<i>1</i>

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	6940		29.4	14.4	mg/Kg	☼	11/15/19 05:57	11/16/19 13:24	4
Silver	2.0	U	2.0	0.19	mg/Kg	☼	11/15/19 05:57	11/16/19 13:24	4
Aluminum	4870		39.2	11.1	mg/Kg	☼	11/15/19 05:57	11/16/19 13:24	4
Arsenic	1.7	J	2.9	1.1	mg/Kg	☼	11/15/19 05:57	11/16/19 13:24	4
Boron	4.4	J	9.8	2.7	mg/Kg	☼	11/15/19 05:57	11/16/19 13:24	4
Barium	20.7	J	39.2	2.2	mg/Kg	☼	11/15/19 05:57	11/16/19 13:24	4
Beryllium	0.25	J	0.39	0.087	mg/Kg	☼	11/15/19 05:57	11/16/19 13:24	4
Calcium	1880		979	57.7	mg/Kg	☼	11/15/19 05:57	11/16/19 13:24	4
Cadmium	0.78	U	0.78	0.13	mg/Kg	☼	11/15/19 05:57	11/16/19 13:24	4
Cobalt	2.1	J	9.8	1.2	mg/Kg	☼	11/15/19 05:57	11/16/19 13:24	4
Chromium	7.2		2.0	0.35	mg/Kg	☼	11/15/19 05:57	11/16/19 13:24	4
Copper	6.4		4.9	2.6	mg/Kg	☼	11/15/19 05:57	11/16/19 13:24	4
Potassium	632	J	979	60.9	mg/Kg	☼	11/15/19 05:57	11/16/19 13:24	4
Magnesium	1310		979	57.1	mg/Kg	☼	11/15/19 05:57	11/16/19 13:24	4
Manganese	86.3		2.9	0.34	mg/Kg	☼	11/15/19 05:57	11/16/19 13:24	4
Molybdenum	3.9	U	3.9	0.93	mg/Kg	☼	11/15/19 05:57	11/16/19 13:24	4
Sodium	979	U	979	78.7	mg/Kg	☼	11/15/19 05:57	11/16/19 13:24	4
Nickel	4.4	J	7.8	0.72	mg/Kg	☼	11/15/19 05:57	11/16/19 13:24	4
Lead	5.9		2.0	0.51	mg/Kg	☼	11/15/19 05:57	11/16/19 13:24	4
Antimony	3.9	U	3.9	1.0	mg/Kg	☼	11/15/19 05:57	11/16/19 13:24	4
Selenium	3.9	U	3.9	2.3	mg/Kg	☼	11/15/19 05:57	11/16/19 13:24	4
Tin	9.8	U	9.8	6.3	mg/Kg	☼	11/15/19 05:57	11/16/19 13:24	4
Strontium	8.7		3.9	0.39	mg/Kg	☼	11/15/19 05:57	11/16/19 13:24	4
Titanium	295		3.9	0.59	mg/Kg	☼	11/15/19 05:57	11/16/19 13:24	4
Thallium	3.9	U	3.9	0.62	mg/Kg	☼	11/15/19 05:57	11/16/19 13:24	4
Vanadium	11.5		9.8	0.65	mg/Kg	☼	11/15/19 05:57	11/16/19 13:24	4
Zinc	16.0		5.9	4.6	mg/Kg	☼	11/15/19 05:57	11/16/19 13:24	4

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.017	U	0.017	0.0098	mg/Kg	☼	11/15/19 03:03	11/15/19 07:41	1

Eurofins TestAmerica, Edison

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196259-1

Client Sample ID: WSG-GS8-0.5-2.0-0

Lab Sample ID: 460-196259-30

Date Collected: 11/04/19 11:30

Matrix: Solid

Date Received: 11/06/19 18:40

Percent Solids: 96.1

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.97	U	0.97	0.23	ug/Kg	☒	11/13/19 06:26	11/15/19 00:28	1
1,1,2,2-Tetrachloroethane	0.97	U	0.97	0.21	ug/Kg	☒	11/13/19 06:26	11/15/19 00:28	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.97	U	0.97	0.29	ug/Kg	☒	11/13/19 06:26	11/15/19 00:28	1
1,1,2-Trichloroethane	0.97	U	0.97	0.17	ug/Kg	☒	11/13/19 06:26	11/15/19 00:28	1
1,1-Dichloroethane	0.97	U	0.97	0.20	ug/Kg	☒	11/13/19 06:26	11/15/19 00:28	1
1,1-Dichloroethene	0.97	U	0.97	0.22	ug/Kg	☒	11/13/19 06:26	11/15/19 00:28	1
1,2,4-Trichlorobenzene	0.97	U	0.97	0.35	ug/Kg	☒	11/13/19 06:26	11/15/19 00:28	1
1,2-Dibromo-3-Chloropropane	0.97	U	0.97	0.45	ug/Kg	☒	11/13/19 06:26	11/15/19 00:28	1
1,2-Dichlorobenzene	0.97	U	0.97	0.14	ug/Kg	☒	11/13/19 06:26	11/15/19 00:28	1
1,2-Dichloroethane	0.97	U *	0.97	0.29	ug/Kg	☒	11/13/19 06:26	11/15/19 00:28	1
1,2-Dichloropropane	0.97	U	0.97	0.41	ug/Kg	☒	11/13/19 06:26	11/15/19 00:28	1
1,3-Dichlorobenzene	0.97	U	0.97	0.15	ug/Kg	☒	11/13/19 06:26	11/15/19 00:28	1
1,4-Dichlorobenzene	0.97	U	0.97	0.22	ug/Kg	☒	11/13/19 06:26	11/15/19 00:28	1
2-Butanone (MEK)	4.9	U	4.9	2.6	ug/Kg	☒	11/13/19 06:26	11/15/19 00:28	1
2-Hexanone	4.9	U	4.9	1.7	ug/Kg	☒	11/13/19 06:26	11/15/19 00:28	1
4-Methyl-2-pentanone (MIBK)	4.9	U	4.9	1.5	ug/Kg	☒	11/13/19 06:26	11/15/19 00:28	1
Acetone	5.8	U	5.8	5.5	ug/Kg	☒	11/13/19 06:26	11/15/19 00:28	1
Benzene	0.97	U	0.97	0.25	ug/Kg	☒	11/13/19 06:26	11/15/19 00:28	1
Bromoform	0.97	U	0.97	0.41	ug/Kg	☒	11/13/19 06:26	11/15/19 00:28	1
Bromomethane	0.97	U	0.97	0.46	ug/Kg	☒	11/13/19 06:26	11/15/19 00:28	1
Carbon disulfide	0.97	U	0.97	0.26	ug/Kg	☒	11/13/19 06:26	11/15/19 00:28	1
Carbon tetrachloride	0.97	U	0.97	0.38	ug/Kg	☒	11/13/19 06:26	11/15/19 00:28	1
Chlorobenzene	0.97	U	0.97	0.17	ug/Kg	☒	11/13/19 06:26	11/15/19 00:28	1
Chlorodibromomethane	0.97	U	0.97	0.19	ug/Kg	☒	11/13/19 06:26	11/15/19 00:28	1
Chloroethane	0.97	U	0.97	0.51	ug/Kg	☒	11/13/19 06:26	11/15/19 00:28	1
Chloroform	0.97	U	0.97	0.31	ug/Kg	☒	11/13/19 06:26	11/15/19 00:28	1
Chloromethane	0.97	U	0.97	0.42	ug/Kg	☒	11/13/19 06:26	11/15/19 00:28	1
cis-1,2-Dichloroethene	0.97	U	0.97	0.15	ug/Kg	☒	11/13/19 06:26	11/15/19 00:28	1
cis-1,3-Dichloropropene	0.97	U	0.97	0.26	ug/Kg	☒	11/13/19 06:26	11/15/19 00:28	1
Cyclohexane	0.97	U	0.97	0.21	ug/Kg	☒	11/13/19 06:26	11/15/19 00:28	1
Dichlorobromomethane	0.97	U	0.97	0.25	ug/Kg	☒	11/13/19 06:26	11/15/19 00:28	1
Dichlorodifluoromethane	0.97	U	0.97	0.33	ug/Kg	☒	11/13/19 06:26	11/15/19 00:28	1
Ethylbenzene	0.97	U	0.97	0.19	ug/Kg	☒	11/13/19 06:26	11/15/19 00:28	1
Ethylene Dibromide	0.97	U	0.97	0.17	ug/Kg	☒	11/13/19 06:26	11/15/19 00:28	1
Isopropylbenzene	0.97	U	0.97	0.12	ug/Kg	☒	11/13/19 06:26	11/15/19 00:28	1
Methyl acetate	4.9	U	4.9	4.2	ug/Kg	☒	11/13/19 06:26	11/15/19 00:28	1
Methyl tert-butyl ether	0.97	U	0.97	0.12	ug/Kg	☒	11/13/19 06:26	11/15/19 00:28	1
Methylcyclohexane	0.97	U	0.97	0.48	ug/Kg	☒	11/13/19 06:26	11/15/19 00:28	1
Methylene Chloride	0.97	U	0.97	0.45	ug/Kg	☒	11/13/19 06:26	11/15/19 00:28	1
Styrene	0.97	U	0.97	0.27	ug/Kg	☒	11/13/19 06:26	11/15/19 00:28	1
Tetrachloroethene	0.97	U	0.97	0.14	ug/Kg	☒	11/13/19 06:26	11/15/19 00:28	1
Toluene	0.97	U	0.97	0.23	ug/Kg	☒	11/13/19 06:26	11/15/19 00:28	1
trans-1,2-Dichloroethene	0.97	U	0.97	0.24	ug/Kg	☒	11/13/19 06:26	11/15/19 00:28	1
trans-1,3-Dichloropropene	0.97	U	0.97	0.26	ug/Kg	☒	11/13/19 06:26	11/15/19 00:28	1
Trichloroethene	0.97	U	0.97	0.14	ug/Kg	☒	11/13/19 06:26	11/15/19 00:28	1
Trichlorofluoromethane	0.97	U	0.97	0.39	ug/Kg	☒	11/13/19 06:26	11/15/19 00:28	1
Vinyl chloride	0.97	U	0.97	0.53	ug/Kg	☒	11/13/19 06:26	11/15/19 00:28	1
Xylenes, Total	1.9	U	1.9	0.17	ug/Kg	☒	11/13/19 06:26	11/15/19 00:28	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196259-1

Client Sample ID: WSG-GS8-0.5-2.0-0

Lab Sample ID: 460-196259-30

Date Collected: 11/04/19 11:30

Matrix: Solid

Date Received: 11/06/19 18:40

Percent Solids: 96.1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		78 - 135	11/13/19 06:26	11/15/19 00:28	1
4-Bromofluorobenzene	88		67 - 126	11/13/19 06:26	11/15/19 00:28	1
Dibromofluoromethane (Surr)	93		61 - 149	11/13/19 06:26	11/15/19 00:28	1
Toluene-d8 (Surr)	88		73 - 121	11/13/19 06:26	11/15/19 00:28	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	340	U	340	4.6	ug/Kg	☼	11/13/19 12:37	11/14/19 02:01	1
2,2'-oxybis[1-chloropropane]	340	U	340	6.2	ug/Kg	☼	11/13/19 12:37	11/14/19 02:01	1
2,4,5-Trichlorophenol	340	U	340	35	ug/Kg	☼	11/13/19 12:37	11/14/19 02:01	1
2,4,6-Trichlorophenol	140	U	140	44	ug/Kg	☼	11/13/19 12:37	11/14/19 02:01	1
2,4-Dichlorophenol	140	U	140	22	ug/Kg	☼	11/13/19 12:37	11/14/19 02:01	1
2,4-Dimethylphenol	340	U	340	15	ug/Kg	☼	11/13/19 12:37	11/14/19 02:01	1
2,4-Dinitrophenol	280	U	280	170	ug/Kg	☼	11/13/19 12:37	11/14/19 02:01	1
2,4-Dinitrotoluene	70	U	70	37	ug/Kg	☼	11/13/19 12:37	11/14/19 02:01	1
2,6-Dinitrotoluene	70	U	70	25	ug/Kg	☼	11/13/19 12:37	11/14/19 02:01	1
2-Chloronaphthalene	340	U	340	16	ug/Kg	☼	11/13/19 12:37	11/14/19 02:01	1
2-Chlorophenol	340	U	340	12	ug/Kg	☼	11/13/19 12:37	11/14/19 02:01	1
2-Methylnaphthalene	340	U	340	9.6	ug/Kg	☼	11/13/19 12:37	11/14/19 02:01	1
2-Methylphenol	340	U	340	13	ug/Kg	☼	11/13/19 12:37	11/14/19 02:01	1
2-Nitroaniline	340	U	340	13	ug/Kg	☼	11/13/19 12:37	11/14/19 02:01	1
2-Nitrophenol	340	U	340	34	ug/Kg	☼	11/13/19 12:37	11/14/19 02:01	1
3,3'-Dichlorobenzidine	140	U	140	52	ug/Kg	☼	11/13/19 12:37	11/14/19 02:01	1
3-Nitroaniline	340	U	340	39	ug/Kg	☼	11/13/19 12:37	11/14/19 02:01	1
4,6-Dinitro-2-methylphenol	280	U	280	56	ug/Kg	☼	11/13/19 12:37	11/14/19 02:01	1
4-Bromophenyl phenyl ether	340	U	340	14	ug/Kg	☼	11/13/19 12:37	11/14/19 02:01	1
4-Chloro-3-methylphenol	340	U	340	19	ug/Kg	☼	11/13/19 12:37	11/14/19 02:01	1
4-Chloroaniline	340	U	340	24	ug/Kg	☼	11/13/19 12:37	11/14/19 02:01	1
4-Chlorophenyl phenyl ether	340	U	340	12	ug/Kg	☼	11/13/19 12:37	11/14/19 02:01	1
4-Methylphenol	340	U	340	22	ug/Kg	☼	11/13/19 12:37	11/14/19 02:01	1
4-Nitroaniline	340	U	340	40	ug/Kg	☼	11/13/19 12:37	11/14/19 02:01	1
4-Nitrophenol	700	U	700	56	ug/Kg	☼	11/13/19 12:37	11/14/19 02:01	1
Acenaphthene	340	U	340	25	ug/Kg	☼	11/13/19 12:37	11/14/19 02:01	1
Acenaphthylene	340	U	340	3.6	ug/Kg	☼	11/13/19 12:37	11/14/19 02:01	1
Acetophenone	340	U	340	17	ug/Kg	☼	11/13/19 12:37	11/14/19 02:01	1
Anthracene	340	U	340	10	ug/Kg	☼	11/13/19 12:37	11/14/19 02:01	1
Atrazine	140	U	140	8.7	ug/Kg	☼	11/13/19 12:37	11/14/19 02:01	1
Benzaldehyde	340	U	340	15	ug/Kg	☼	11/13/19 12:37	11/14/19 02:01	1
Benzo[a]anthracene	34	U	34	12	ug/Kg	☼	11/13/19 12:37	11/14/19 02:01	1
Benzo[a]pyrene	34	U	34	9.2	ug/Kg	☼	11/13/19 12:37	11/14/19 02:01	1
Benzo[b]fluoranthene	34	U	34	8.9	ug/Kg	☼	11/13/19 12:37	11/14/19 02:01	1
Benzo[g,h,i]perylene	340	U	340	10	ug/Kg	☼	11/13/19 12:37	11/14/19 02:01	1
Benzo[k]fluoranthene	34	U	34	6.7	ug/Kg	☼	11/13/19 12:37	11/14/19 02:01	1
Bis(2-chloroethoxy)methane	340	U	340	27	ug/Kg	☼	11/13/19 12:37	11/14/19 02:01	1
Bis(2-chloroethyl)ether	34	U	34	12	ug/Kg	☼	11/13/19 12:37	11/14/19 02:01	1
Bis(2-ethylhexyl) phthalate	340	U	340	18	ug/Kg	☼	11/13/19 12:37	11/14/19 02:01	1
Butyl benzyl phthalate	340	U	340	16	ug/Kg	☼	11/13/19 12:37	11/14/19 02:01	1
Caprolactam	340	U	340	54	ug/Kg	☼	11/13/19 12:37	11/14/19 02:01	1
Carbazole	340	U	340	13	ug/Kg	☼	11/13/19 12:37	11/14/19 02:01	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196259-1

Client Sample ID: WSG-GS8-0.5-2.0-0

Lab Sample ID: 460-196259-30

Date Collected: 11/04/19 11:30

Matrix: Solid

Date Received: 11/06/19 18:40

Percent Solids: 96.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	340	U	340	5.8	ug/Kg	☼	11/13/19 12:37	11/14/19 02:01	1
Dibenz(a,h)anthracene	34	U	34	15	ug/Kg	☼	11/13/19 12:37	11/14/19 02:01	1
Dibenzofuran	340	U	340	4.8	ug/Kg	☼	11/13/19 12:37	11/14/19 02:01	1
Diethyl phthalate	340	U	340	5.0	ug/Kg	☼	11/13/19 12:37	11/14/19 02:01	1
Dimethyl phthalate	340	U	340	78	ug/Kg	☼	11/13/19 12:37	11/14/19 02:01	1
Di-n-butyl phthalate	340	U	340	61	ug/Kg	☼	11/13/19 12:37	11/14/19 02:01	1
Di-n-octyl phthalate	340	U	340	18	ug/Kg	☼	11/13/19 12:37	11/14/19 02:01	1
Fluoranthene	340	U	340	12	ug/Kg	☼	11/13/19 12:37	11/14/19 02:01	1
Fluorene	340	U	340	4.7	ug/Kg	☼	11/13/19 12:37	11/14/19 02:01	1
Hexachlorobenzene	34	U	34	16	ug/Kg	☼	11/13/19 12:37	11/14/19 02:01	1
Hexachlorobutadiene	70	U	70	7.3	ug/Kg	☼	11/13/19 12:37	11/14/19 02:01	1
Hexachlorocyclopentadiene	340	U	340	30	ug/Kg	☼	11/13/19 12:37	11/14/19 02:01	1
Hexachloroethane	34	U	34	12	ug/Kg	☼	11/13/19 12:37	11/14/19 02:01	1
Indeno[1,2,3-cd]pyrene	34	U	34	13	ug/Kg	☼	11/13/19 12:37	11/14/19 02:01	1
Isophorone	140	U	140	99	ug/Kg	☼	11/13/19 12:37	11/14/19 02:01	1
Naphthalene	340	U	340	5.9	ug/Kg	☼	11/13/19 12:37	11/14/19 02:01	1
Nitrobenzene	34	U	34	8.3	ug/Kg	☼	11/13/19 12:37	11/14/19 02:01	1
N-Nitrosodi-n-propylamine	34	U	34	25	ug/Kg	☼	11/13/19 12:37	11/14/19 02:01	1
N-Nitrosodiphenylamine	340	U	340	6.6	ug/Kg	☼	11/13/19 12:37	11/14/19 02:01	1
Pentachlorophenol	280	U	280	71	ug/Kg	☼	11/13/19 12:37	11/14/19 02:01	1
Phenanthrene	340	U	340	6.0	ug/Kg	☼	11/13/19 12:37	11/14/19 02:01	1
Phenol	340	U	340	13	ug/Kg	☼	11/13/19 12:37	11/14/19 02:01	1
Pyrene	340	U	340	8.6	ug/Kg	☼	11/13/19 12:37	11/14/19 02:01	1
1,4-Dioxane	100	U	100	9.5	ug/Kg	☼	11/13/19 12:37	11/14/19 02:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	86		10 - 137	11/13/19 12:37	11/14/19 02:01	1
2-Fluorobiphenyl	71		29 - 107	11/13/19 12:37	11/14/19 02:01	1
2-Fluorophenol (Surr)	69		20 - 115	11/13/19 12:37	11/14/19 02:01	1
Nitrobenzene-d5 (Surr)	70		25 - 113	11/13/19 12:37	11/14/19 02:01	1
Phenol-d5 (Surr)	70		28 - 109	11/13/19 12:37	11/14/19 02:01	1
Terphenyl-d14 (Surr)	79		27 - 123	11/13/19 12:37	11/14/19 02:01	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	7.0	U	7.0	1.2	ug/Kg	☼	11/12/19 08:55	11/14/19 12:22	1
4,4'-DDE	7.0	U	7.0	0.82	ug/Kg	☼	11/12/19 08:55	11/14/19 12:22	1
4,4'-DDT	7.0	U	7.0	1.3	ug/Kg	☼	11/12/19 08:55	11/14/19 12:22	1
Aldrin	7.0	U	7.0	1.1	ug/Kg	☼	11/12/19 08:55	11/14/19 12:22	1
alpha-BHC	2.1	U	2.1	0.71	ug/Kg	☼	11/12/19 08:55	11/14/19 12:22	1
beta-BHC	2.1	U	2.1	0.78	ug/Kg	☼	11/12/19 08:55	11/14/19 12:22	1
Chlordane (technical)	70	U	70	17	ug/Kg	☼	11/12/19 08:55	11/14/19 12:22	1
delta-BHC	2.1	U	2.1	0.43	ug/Kg	☼	11/12/19 08:55	11/14/19 12:22	1
Dieldrin	2.1	U	2.1	0.91	ug/Kg	☼	11/12/19 08:55	11/14/19 12:22	1
Endosulfan I	7.0	U	7.0	1.1	ug/Kg	☼	11/12/19 08:55	11/14/19 12:22	1
Endosulfan II	7.0	U	7.0	1.8	ug/Kg	☼	11/12/19 08:55	11/14/19 12:22	1
Endosulfan sulfate	7.0	U	7.0	0.87	ug/Kg	☼	11/12/19 08:55	11/14/19 12:22	1
Endrin	7.0	U	7.0	1.0	ug/Kg	☼	11/12/19 08:55	11/14/19 12:22	1
Endrin aldehyde	7.0	U	7.0	1.6	ug/Kg	☼	11/12/19 08:55	11/14/19 12:22	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196259-1

Client Sample ID: WSG-GS8-0.5-2.0-0

Lab Sample ID: 460-196259-30

Date Collected: 11/04/19 11:30

Matrix: Solid

Date Received: 11/06/19 18:40

Percent Solids: 96.1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endrin ketone	7.0	U	7.0	1.4	ug/Kg	☼	11/12/19 08:55	11/14/19 12:22	1
gamma-BHC (Lindane)	2.1	U	2.1	0.64	ug/Kg	☼	11/12/19 08:55	11/14/19 12:22	1
Heptachlor	7.0	U	7.0	0.82	ug/Kg	☼	11/12/19 08:55	11/14/19 12:22	1
Heptachlor epoxide	7.0	U	7.0	1.0	ug/Kg	☼	11/12/19 08:55	11/14/19 12:22	1
Methoxychlor	7.0	U	7.0	1.6	ug/Kg	☼	11/12/19 08:55	11/14/19 12:22	1
Toxaphene	70	U	70	25	ug/Kg	☼	11/12/19 08:55	11/14/19 12:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	84		49 - 150	11/12/19 08:55	11/14/19 12:22	1
DCB Decachlorobiphenyl	93		49 - 150	11/12/19 08:55	11/14/19 12:22	1
Tetrachloro-m-xylene	92		47 - 150	11/12/19 08:55	11/14/19 12:22	1
Tetrachloro-m-xylene	89		47 - 150	11/12/19 08:55	11/14/19 12:22	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	70	U	70	9.3	ug/Kg	☼	11/12/19 08:47	11/13/19 19:42	1
Aroclor 1221	70	U	70	9.3	ug/Kg	☼	11/12/19 08:47	11/13/19 19:42	1
Aroclor 1232	70	U	70	9.3	ug/Kg	☼	11/12/19 08:47	11/13/19 19:42	1
Aroclor 1242	70	U	70	9.3	ug/Kg	☼	11/12/19 08:47	11/13/19 19:42	1
Aroclor 1248	70	U	70	9.3	ug/Kg	☼	11/12/19 08:47	11/13/19 19:42	1
Aroclor 1254	70	U	70	9.6	ug/Kg	☼	11/12/19 08:47	11/13/19 19:42	1
Aroclor 1260	70	U	70	9.6	ug/Kg	☼	11/12/19 08:47	11/13/19 19:42	1
Aroclor-1262	70	U	70	9.6	ug/Kg	☼	11/12/19 08:47	11/13/19 19:42	1
Aroclor 1268	70	U	70	9.6	ug/Kg	☼	11/12/19 08:47	11/13/19 19:42	1
Polychlorinated biphenyls, Total	70	U	70	9.6	ug/Kg	☼	11/12/19 08:47	11/13/19 19:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	116		53 - 150	11/12/19 08:47	11/13/19 19:42	1
DCB Decachlorobiphenyl	112		53 - 150	11/12/19 08:47	11/13/19 19:42	1

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	35	U	35	13	ug/Kg	☼	11/13/19 00:19	11/13/19 22:09	1
Silvex (2,4,5-TP)	35	U *	35	3.6	ug/Kg	☼	11/13/19 00:19	11/13/19 22:09	1
2,4,5-T	35	U *	35	7.4	ug/Kg	☼	11/13/19 00:19	11/13/19 22:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	140		30 - 150	11/13/19 00:19	11/13/19 22:09	1
2,4-Dichlorophenylacetic acid	147		30 - 150	11/13/19 00:19	11/13/19 22:09	1

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	0.20	U	0.20	0.041	ug/Kg	☼	11/18/19 06:37	11/30/19 09:26	1
Perfluoroheptanoic acid (PFHpA)	0.031	J B	0.20	0.028	ug/Kg	☼	11/18/19 06:37	11/30/19 09:26	1
Perfluorooctanoic acid (PFOA)	0.20	U	0.20	0.084	ug/Kg	☼	11/18/19 06:37	11/30/19 09:26	1
Perfluorononanoic acid (PFNA)	0.040	J	0.20	0.035	ug/Kg	☼	11/18/19 06:37	11/30/19 09:26	1
Perfluorodecanoic acid (PFDA)	0.088	J	0.20	0.022	ug/Kg	☼	11/18/19 06:37	11/30/19 09:26	1
Perfluoroundecanoic acid (PFUnA)	0.20	U	0.20	0.035	ug/Kg	☼	11/18/19 06:37	11/30/19 09:26	1
Perfluorododecanoic acid (PFDoA)	0.20	U	0.20	0.066	ug/Kg	☼	11/18/19 06:37	11/30/19 09:26	1
Perfluorotridecanoic acid (PFTriA)	0.20	U	0.20	0.050	ug/Kg	☼	11/18/19 06:37	11/30/19 09:26	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196259-1

Client Sample ID: WSG-GS8-0.5-2.0-0

Lab Sample ID: 460-196259-30

Date Collected: 11/04/19 11:30

Matrix: Solid

Date Received: 11/06/19 18:40

Percent Solids: 96.1

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorotetradecanoic acid (PFTeA)	0.20	U	0.20	0.053	ug/Kg	☼	11/18/19 06:37	11/30/19 09:26	1
Perfluorobutanesulfonic acid (PFBS)	0.20	U	0.20	0.024	ug/Kg	☼	11/18/19 06:37	11/30/19 09:26	1
Perfluorohexanesulfonic acid (PFHxS)	0.20	U	0.20	0.030	ug/Kg	☼	11/18/19 06:37	11/30/19 09:26	1
Perfluorooctanesulfonic acid (PFOS)	0.52	B	0.49	0.20	ug/Kg	☼	11/18/19 06:37	11/30/19 09:26	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	1.96	U	1.96	0.36	ug/Kg	☼	11/18/19 06:37	11/30/19 09:26	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	1.96	U	1.96	0.38	ug/Kg	☼	11/18/19 06:37	11/30/19 09:26	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
¹³ C2 PFHxA	105		25 - 150				11/18/19 06:37	11/30/19 09:26	1
¹³ C4 PFHpA	108		25 - 150				11/18/19 06:37	11/30/19 09:26	1
¹³ C4 PFOA	106		25 - 150				11/18/19 06:37	11/30/19 09:26	1
¹³ C5 PFNA	112		25 - 150				11/18/19 06:37	11/30/19 09:26	1
¹³ C2 PFDA	104		25 - 150				11/18/19 06:37	11/30/19 09:26	1
¹³ C2 PFUnA	106		25 - 150				11/18/19 06:37	11/30/19 09:26	1
¹³ C2 PFDoA	112		25 - 150				11/18/19 06:37	11/30/19 09:26	1
¹³ C2 PFTeDA	110		25 - 150				11/18/19 06:37	11/30/19 09:26	1
¹⁸ O2 PFHxS	114		25 - 150				11/18/19 06:37	11/30/19 09:26	1
¹³ C4 PFOS	99		25 - 150				11/18/19 06:37	11/30/19 09:26	1
d3-NMeFOSAA	84		25 - 150				11/18/19 06:37	11/30/19 09:26	1
d5-NEtFOSAA	88		25 - 150				11/18/19 06:37	11/30/19 09:26	1

Method: 537 (modified) - Fluorinated Alkyl Substances - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	0.45	J H	0.50	0.20	ug/Kg	☼	12/04/19 07:00	12/06/19 19:05	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
¹³ C4 PFOS	87		25 - 150				12/04/19 07:00	12/06/19 19:05	1

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	2410		28.6	14.0	mg/Kg	☼	11/15/19 05:57	11/16/19 13:28	4
Silver	1.9	U	1.9	0.18	mg/Kg	☼	11/15/19 05:57	11/16/19 13:28	4
Aluminum	1760		38.2	10.8	mg/Kg	☼	11/15/19 05:57	11/16/19 13:28	4
Arsenic	2.9	U	2.9	1.1	mg/Kg	☼	11/15/19 05:57	11/16/19 13:28	4
Boron	3.3	J	9.5	2.6	mg/Kg	☼	11/15/19 05:57	11/16/19 13:28	4
Barium	5.2	J	38.2	2.1	mg/Kg	☼	11/15/19 05:57	11/16/19 13:28	4
Beryllium	0.38	U	0.38	0.085	mg/Kg	☼	11/15/19 05:57	11/16/19 13:28	4
Calcium	356	J	954	56.2	mg/Kg	☼	11/15/19 05:57	11/16/19 13:28	4
Cadmium	0.76	U	0.76	0.13	mg/Kg	☼	11/15/19 05:57	11/16/19 13:28	4
Cobalt	9.5	U	9.5	1.2	mg/Kg	☼	11/15/19 05:57	11/16/19 13:28	4
Chromium	2.7		1.9	0.34	mg/Kg	☼	11/15/19 05:57	11/16/19 13:28	4
Copper	4.8	U	4.8	2.5	mg/Kg	☼	11/15/19 05:57	11/16/19 13:28	4
Potassium	91.5	J	954	59.4	mg/Kg	☼	11/15/19 05:57	11/16/19 13:28	4
Magnesium	233	J	954	55.6	mg/Kg	☼	11/15/19 05:57	11/16/19 13:28	4
Manganese	15.7		2.9	0.33	mg/Kg	☼	11/15/19 05:57	11/16/19 13:28	4
Molybdenum	3.8	U	3.8	0.91	mg/Kg	☼	11/15/19 05:57	11/16/19 13:28	4
Sodium	954	U	954	76.7	mg/Kg	☼	11/15/19 05:57	11/16/19 13:28	4

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196259-1

Client Sample ID: WSG-GS8-0.5-2.0-0

Lab Sample ID: 460-196259-30

Date Collected: 11/04/19 11:30

Matrix: Solid

Date Received: 11/06/19 18:40

Percent Solids: 96.1

Method: 6010D - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nickel	1.4	J	7.6	0.70	mg/Kg	☼	11/15/19 05:57	11/16/19 13:28	4
Lead	5.0		1.9	0.50	mg/Kg	☼	11/15/19 05:57	11/16/19 13:28	4
Antimony	3.8	U	3.8	1.0	mg/Kg	☼	11/15/19 05:57	11/16/19 13:28	4
Selenium	3.8	U	3.8	2.3	mg/Kg	☼	11/15/19 05:57	11/16/19 13:28	4
Tin	9.5	U	9.5	6.1	mg/Kg	☼	11/15/19 05:57	11/16/19 13:28	4
Strontium	1.8	J	3.8	0.38	mg/Kg	☼	11/15/19 05:57	11/16/19 13:28	4
Titanium	68.7		3.8	0.57	mg/Kg	☼	11/15/19 05:57	11/16/19 13:28	4
Thallium	3.8	U	3.8	0.61	mg/Kg	☼	11/15/19 05:57	11/16/19 13:28	4
Vanadium	3.9	J	9.5	0.63	mg/Kg	☼	11/15/19 05:57	11/16/19 13:28	4
Zinc	4.8	J	5.7	4.4	mg/Kg	☼	11/15/19 05:57	11/16/19 13:28	4

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.017	U	0.017	0.010	mg/Kg	☼	11/15/19 03:03	11/15/19 07:52	1

Client Sample ID: WSG-GS5-0.0-0.2-0

Lab Sample ID: 460-196259-31

Date Collected: 11/04/19 13:20

Matrix: Solid

Date Received: 11/06/19 18:40

Percent Solids: 87.1

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.1	U	1.1	0.26	ug/Kg	☼	11/13/19 06:27	11/15/19 00:52	1
1,1,2,2-Tetrachloroethane	1.1	U	1.1	0.23	ug/Kg	☼	11/13/19 06:27	11/15/19 00:52	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.1	U	1.1	0.33	ug/Kg	☼	11/13/19 06:27	11/15/19 00:52	1
1,1,2-Trichloroethane	1.1	U	1.1	0.20	ug/Kg	☼	11/13/19 06:27	11/15/19 00:52	1
1,1-Dichloroethane	1.1	U	1.1	0.23	ug/Kg	☼	11/13/19 06:27	11/15/19 00:52	1
1,1-Dichloroethene	1.1	U	1.1	0.25	ug/Kg	☼	11/13/19 06:27	11/15/19 00:52	1
1,2,4-Trichlorobenzene	1.1	U	1.1	0.39	ug/Kg	☼	11/13/19 06:27	11/15/19 00:52	1
1,2-Dibromo-3-Chloropropane	1.1	U	1.1	0.51	ug/Kg	☼	11/13/19 06:27	11/15/19 00:52	1
1,2-Dichlorobenzene	1.1	U	1.1	0.16	ug/Kg	☼	11/13/19 06:27	11/15/19 00:52	1
1,2-Dichloroethane	1.1	U*	1.1	0.32	ug/Kg	☼	11/13/19 06:27	11/15/19 00:52	1
1,2-Dichloropropane	1.1	U	1.1	0.46	ug/Kg	☼	11/13/19 06:27	11/15/19 00:52	1
1,3-Dichlorobenzene	1.1	U	1.1	0.17	ug/Kg	☼	11/13/19 06:27	11/15/19 00:52	1
1,4-Dichlorobenzene	1.1	U	1.1	0.25	ug/Kg	☼	11/13/19 06:27	11/15/19 00:52	1
2-Butanone (MEK)	5.5	U	5.5	3.0	ug/Kg	☼	11/13/19 06:27	11/15/19 00:52	1
2-Hexanone	5.5	U	5.5	1.9	ug/Kg	☼	11/13/19 06:27	11/15/19 00:52	1
4-Methyl-2-pentanone (MIBK)	5.5	U	5.5	1.7	ug/Kg	☼	11/13/19 06:27	11/15/19 00:52	1
Acetone	6.6	U	6.6	6.3	ug/Kg	☼	11/13/19 06:27	11/15/19 00:52	1
Benzene	1.1	U	1.1	0.28	ug/Kg	☼	11/13/19 06:27	11/15/19 00:52	1
Bromoform	1.1	U	1.1	0.47	ug/Kg	☼	11/13/19 06:27	11/15/19 00:52	1
Bromomethane	1.1	U	1.1	0.52	ug/Kg	☼	11/13/19 06:27	11/15/19 00:52	1
Carbon disulfide	1.1	U	1.1	0.29	ug/Kg	☼	11/13/19 06:27	11/15/19 00:52	1
Carbon tetrachloride	1.1	U	1.1	0.42	ug/Kg	☼	11/13/19 06:27	11/15/19 00:52	1
Chlorobenzene	1.1	U	1.1	0.19	ug/Kg	☼	11/13/19 06:27	11/15/19 00:52	1
Chlorodibromomethane	1.1	U	1.1	0.21	ug/Kg	☼	11/13/19 06:27	11/15/19 00:52	1
Chloroethane	1.1	U	1.1	0.57	ug/Kg	☼	11/13/19 06:27	11/15/19 00:52	1
Chloroform	1.1	U	1.1	0.35	ug/Kg	☼	11/13/19 06:27	11/15/19 00:52	1
Chloromethane	1.1	U	1.1	0.48	ug/Kg	☼	11/13/19 06:27	11/15/19 00:52	1
cis-1,2-Dichloroethene	1.1	U	1.1	0.17	ug/Kg	☼	11/13/19 06:27	11/15/19 00:52	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196259-1

Client Sample ID: WSG-GS5-0.0-0.2-0

Lab Sample ID: 460-196259-31

Date Collected: 11/04/19 13:20

Matrix: Solid

Date Received: 11/06/19 18:40

Percent Solids: 87.1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	1.1	U	1.1	0.30	ug/Kg	☒	11/13/19 06:27	11/15/19 00:52	1
Cyclohexane	1.1	U	1.1	0.24	ug/Kg	☒	11/13/19 06:27	11/15/19 00:52	1
Dichlorobromomethane	1.1	U	1.1	0.28	ug/Kg	☒	11/13/19 06:27	11/15/19 00:52	1
Dichlorodifluoromethane	1.1	U	1.1	0.37	ug/Kg	☒	11/13/19 06:27	11/15/19 00:52	1
Ethylbenzene	1.1	U	1.1	0.22	ug/Kg	☒	11/13/19 06:27	11/15/19 00:52	1
Ethylene Dibromide	1.1	U	1.1	0.20	ug/Kg	☒	11/13/19 06:27	11/15/19 00:52	1
Isopropylbenzene	1.1	U	1.1	0.14	ug/Kg	☒	11/13/19 06:27	11/15/19 00:52	1
Methyl acetate	5.5	U	5.5	4.7	ug/Kg	☒	11/13/19 06:27	11/15/19 00:52	1
Methyl tert-butyl ether	1.1	U	1.1	0.14	ug/Kg	☒	11/13/19 06:27	11/15/19 00:52	1
Methylcyclohexane	1.1	U	1.1	0.55	ug/Kg	☒	11/13/19 06:27	11/15/19 00:52	1
Methylene Chloride	0.56	J	1.1	0.51	ug/Kg	☒	11/13/19 06:27	11/15/19 00:52	1
Styrene	1.1	U	1.1	0.31	ug/Kg	☒	11/13/19 06:27	11/15/19 00:52	1
Tetrachloroethene	1.1	U	1.1	0.16	ug/Kg	☒	11/13/19 06:27	11/15/19 00:52	1
Toluene	1.1	U	1.1	0.26	ug/Kg	☒	11/13/19 06:27	11/15/19 00:52	1
trans-1,2-Dichloroethene	1.1	U	1.1	0.27	ug/Kg	☒	11/13/19 06:27	11/15/19 00:52	1
trans-1,3-Dichloropropene	1.1	U	1.1	0.29	ug/Kg	☒	11/13/19 06:27	11/15/19 00:52	1
Trichloroethene	1.1	U	1.1	0.16	ug/Kg	☒	11/13/19 06:27	11/15/19 00:52	1
Trichlorofluoromethane	1.1	U	1.1	0.45	ug/Kg	☒	11/13/19 06:27	11/15/19 00:52	1
Vinyl chloride	1.1	U	1.1	0.60	ug/Kg	☒	11/13/19 06:27	11/15/19 00:52	1
Xylenes, Total	2.2	U	2.2	0.19	ug/Kg	☒	11/13/19 06:27	11/15/19 00:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		78 - 135	11/13/19 06:27	11/15/19 00:52	1
4-Bromofluorobenzene	89		67 - 126	11/13/19 06:27	11/15/19 00:52	1
Dibromofluoromethane (Surr)	95		61 - 149	11/13/19 06:27	11/15/19 00:52	1
Toluene-d8 (Surr)	89		73 - 121	11/13/19 06:27	11/15/19 00:52	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	380	U	380	5.0	ug/Kg	☒	11/13/19 12:37	11/14/19 08:10	1
2,2'-oxybis[1-chloropropane]	380	U	380	6.9	ug/Kg	☒	11/13/19 12:37	11/14/19 08:10	1
2,4,5-Trichlorophenol	380	U	380	39	ug/Kg	☒	11/13/19 12:37	11/14/19 08:10	1
2,4,6-Trichlorophenol	150	U	150	49	ug/Kg	☒	11/13/19 12:37	11/14/19 08:10	1
2,4-Dichlorophenol	150	U	150	24	ug/Kg	☒	11/13/19 12:37	11/14/19 08:10	1
2,4-Dimethylphenol	380	U	380	17	ug/Kg	☒	11/13/19 12:37	11/14/19 08:10	1
2,4-Dinitrophenol	310	U	310	190	ug/Kg	☒	11/13/19 12:37	11/14/19 08:10	1
2,4-Dinitrotoluene	77	U	77	41	ug/Kg	☒	11/13/19 12:37	11/14/19 08:10	1
2,6-Dinitrotoluene	77	U	77	27	ug/Kg	☒	11/13/19 12:37	11/14/19 08:10	1
2-Chloronaphthalene	380	U	380	18	ug/Kg	☒	11/13/19 12:37	11/14/19 08:10	1
2-Chlorophenol	380	U	380	14	ug/Kg	☒	11/13/19 12:37	11/14/19 08:10	1
2-Methylnaphthalene	380	U	380	11	ug/Kg	☒	11/13/19 12:37	11/14/19 08:10	1
2-Methylphenol	380	U	380	14	ug/Kg	☒	11/13/19 12:37	11/14/19 08:10	1
2-Nitroaniline	380	U	380	14	ug/Kg	☒	11/13/19 12:37	11/14/19 08:10	1
2-Nitrophenol	380	U	380	38	ug/Kg	☒	11/13/19 12:37	11/14/19 08:10	1
3,3'-Dichlorobenzidine	150	U	150	57	ug/Kg	☒	11/13/19 12:37	11/14/19 08:10	1
3-Nitroaniline	380	U	380	43	ug/Kg	☒	11/13/19 12:37	11/14/19 08:10	1
4,6-Dinitro-2-methylphenol	310	U	310	62	ug/Kg	☒	11/13/19 12:37	11/14/19 08:10	1
4-Bromophenyl phenyl ether	380	U	380	15	ug/Kg	☒	11/13/19 12:37	11/14/19 08:10	1
4-Chloro-3-methylphenol	380	U	380	21	ug/Kg	☒	11/13/19 12:37	11/14/19 08:10	1

Eurofins TestAmerica, Edison

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196259-1

Client Sample ID: WSG-GS5-0.0-0.2-0

Lab Sample ID: 460-196259-31

Date Collected: 11/04/19 13:20

Matrix: Solid

Date Received: 11/06/19 18:40

Percent Solids: 87.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chloroaniline	380	U	380	27	ug/Kg	☒	11/13/19 12:37	11/14/19 08:10	1
4-Chlorophenyl phenyl ether	380	U	380	13	ug/Kg	☒	11/13/19 12:37	11/14/19 08:10	1
4-Methylphenol	380	U	380	24	ug/Kg	☒	11/13/19 12:37	11/14/19 08:10	1
4-Nitroaniline	380	U	380	44	ug/Kg	☒	11/13/19 12:37	11/14/19 08:10	1
4-Nitrophenol	770	U	770	62	ug/Kg	☒	11/13/19 12:37	11/14/19 08:10	1
Acenaphthene	380	U	380	28	ug/Kg	☒	11/13/19 12:37	11/14/19 08:10	1
Acenaphthylene	21	J	380	3.9	ug/Kg	☒	11/13/19 12:37	11/14/19 08:10	1
Acetophenone	380	U	380	19	ug/Kg	☒	11/13/19 12:37	11/14/19 08:10	1
Anthracene	47	J	380	12	ug/Kg	☒	11/13/19 12:37	11/14/19 08:10	1
Atrazine	150	U	150	9.6	ug/Kg	☒	11/13/19 12:37	11/14/19 08:10	1
Benzaldehyde	380	U	380	17	ug/Kg	☒	11/13/19 12:37	11/14/19 08:10	1
Benzo[a]anthracene	250		38	13	ug/Kg	☒	11/13/19 12:37	11/14/19 08:10	1
Benzo[a]pyrene	280		38	10	ug/Kg	☒	11/13/19 12:37	11/14/19 08:10	1
Benzo[b]fluoranthene	420		38	9.8	ug/Kg	☒	11/13/19 12:37	11/14/19 08:10	1
Benzo[g,h,i]perylene	120	J	380	11	ug/Kg	☒	11/13/19 12:37	11/14/19 08:10	1
Benzo[k]fluoranthene	160		38	7.5	ug/Kg	☒	11/13/19 12:37	11/14/19 08:10	1
Bis(2-chloroethoxy)methane	380	U	380	30	ug/Kg	☒	11/13/19 12:37	11/14/19 08:10	1
Bis(2-chloroethyl)ether	38	U	38	13	ug/Kg	☒	11/13/19 12:37	11/14/19 08:10	1
Bis(2-ethylhexyl) phthalate	75	J	380	20	ug/Kg	☒	11/13/19 12:37	11/14/19 08:10	1
Butyl benzyl phthalate	380	U	380	18	ug/Kg	☒	11/13/19 12:37	11/14/19 08:10	1
Caprolactam	380	U	380	59	ug/Kg	☒	11/13/19 12:37	11/14/19 08:10	1
Carbazole	22	J	380	14	ug/Kg	☒	11/13/19 12:37	11/14/19 08:10	1
Chrysene	320	J	380	6.4	ug/Kg	☒	11/13/19 12:37	11/14/19 08:10	1
Dibenz(a,h)anthracene	31	J	38	16	ug/Kg	☒	11/13/19 12:37	11/14/19 08:10	1
Dibenzofuran	380	U	380	5.3	ug/Kg	☒	11/13/19 12:37	11/14/19 08:10	1
Diethyl phthalate	380	U	380	5.5	ug/Kg	☒	11/13/19 12:37	11/14/19 08:10	1
Dimethyl phthalate	380	U	380	86	ug/Kg	☒	11/13/19 12:37	11/14/19 08:10	1
Di-n-butyl phthalate	380	U	380	67	ug/Kg	☒	11/13/19 12:37	11/14/19 08:10	1
Di-n-octyl phthalate	380	U	380	20	ug/Kg	☒	11/13/19 12:37	11/14/19 08:10	1
Fluoranthene	500		380	13	ug/Kg	☒	11/13/19 12:37	11/14/19 08:10	1
Fluorene	380	U	380	5.2	ug/Kg	☒	11/13/19 12:37	11/14/19 08:10	1
Hexachlorobenzene	38	U	38	18	ug/Kg	☒	11/13/19 12:37	11/14/19 08:10	1
Hexachlorobutadiene	77	U	77	8.1	ug/Kg	☒	11/13/19 12:37	11/14/19 08:10	1
Hexachlorocyclopentadiene	380	U	380	33	ug/Kg	☒	11/13/19 12:37	11/14/19 08:10	1
Hexachloroethane	38	U	38	13	ug/Kg	☒	11/13/19 12:37	11/14/19 08:10	1
Indeno[1,2,3-cd]pyrene	150		38	15	ug/Kg	☒	11/13/19 12:37	11/14/19 08:10	1
Isophorone	150	U	150	110	ug/Kg	☒	11/13/19 12:37	11/14/19 08:10	1
Naphthalene	380	U	380	6.6	ug/Kg	☒	11/13/19 12:37	11/14/19 08:10	1
Nitrobenzene	38	U	38	9.1	ug/Kg	☒	11/13/19 12:37	11/14/19 08:10	1
N-Nitrosodi-n-propylamine	38	U	38	28	ug/Kg	☒	11/13/19 12:37	11/14/19 08:10	1
N-Nitrosodiphenylamine	380	U	380	7.3	ug/Kg	☒	11/13/19 12:37	11/14/19 08:10	1
Pentachlorophenol	310	U	310	78	ug/Kg	☒	11/13/19 12:37	11/14/19 08:10	1
Phenanthrene	120	J	380	6.7	ug/Kg	☒	11/13/19 12:37	11/14/19 08:10	1
Phenol	380	U	380	14	ug/Kg	☒	11/13/19 12:37	11/14/19 08:10	1
Pyrene	470		380	9.4	ug/Kg	☒	11/13/19 12:37	11/14/19 08:10	1
1,4-Dioxane	110	U	110	10	ug/Kg	☒	11/13/19 12:37	11/14/19 08:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	76		10 - 137	11/13/19 12:37	11/14/19 08:10	1

Eurofins TestAmerica, Edison

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196259-1

Client Sample ID: WSG-GS5-0.0-0.2-0

Lab Sample ID: 460-196259-31

Date Collected: 11/04/19 13:20

Matrix: Solid

Date Received: 11/06/19 18:40

Percent Solids: 87.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	76		29 - 107	11/13/19 12:37	11/14/19 08:10	1
2-Fluorophenol (Surr)	61		20 - 115	11/13/19 12:37	11/14/19 08:10	1
Nitrobenzene-d5 (Surr)	64		25 - 113	11/13/19 12:37	11/14/19 08:10	1
Phenol-d5 (Surr)	72		28 - 109	11/13/19 12:37	11/14/19 08:10	1
Terphenyl-d14 (Surr)	83		27 - 123	11/13/19 12:37	11/14/19 08:10	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	7.7	U	7.7	1.3	ug/Kg	☼	11/12/19 08:55	11/14/19 12:37	1
4,4'-DDE	8.7		7.7	0.91	ug/Kg	☼	11/12/19 08:55	11/14/19 12:37	1
4,4'-DDT	7.7	U	7.7	1.4	ug/Kg	☼	11/12/19 08:55	11/14/19 12:37	1
Aldrin	7.7	U	7.7	1.2	ug/Kg	☼	11/12/19 08:55	11/14/19 12:37	1
alpha-BHC	2.3	U	2.3	0.78	ug/Kg	☼	11/12/19 08:55	11/14/19 12:37	1
beta-BHC	2.3	U	2.3	0.86	ug/Kg	☼	11/12/19 08:55	11/14/19 12:37	1
Chlordane (technical)	130		77	19	ug/Kg	☼	11/12/19 08:55	11/14/19 12:37	1
delta-BHC	2.3	U	2.3	0.47	ug/Kg	☼	11/12/19 08:55	11/14/19 12:37	1
Dieldrin	2.3	U	2.3	1.0	ug/Kg	☼	11/12/19 08:55	11/14/19 12:37	1
Endosulfan I	7.7	U	7.7	1.2	ug/Kg	☼	11/12/19 08:55	11/14/19 12:37	1
Endosulfan II	7.7	U	7.7	2.0	ug/Kg	☼	11/12/19 08:55	11/14/19 12:37	1
Endosulfan sulfate	7.7	U	7.7	0.96	ug/Kg	☼	11/12/19 08:55	11/14/19 12:37	1
Endrin	7.7	U	7.7	1.1	ug/Kg	☼	11/12/19 08:55	11/14/19 12:37	1
Endrin aldehyde	7.7	U	7.7	1.8	ug/Kg	☼	11/12/19 08:55	11/14/19 12:37	1
Endrin ketone	7.7	U	7.7	1.5	ug/Kg	☼	11/12/19 08:55	11/14/19 12:37	1
gamma-BHC (Lindane)	2.3	U	2.3	0.71	ug/Kg	☼	11/12/19 08:55	11/14/19 12:37	1
Heptachlor	7.7	U	7.7	0.91	ug/Kg	☼	11/12/19 08:55	11/14/19 12:37	1
Heptachlor epoxide	7.7	U	7.7	1.1	ug/Kg	☼	11/12/19 08:55	11/14/19 12:37	1
Methoxychlor	7.7	U	7.7	1.8	ug/Kg	☼	11/12/19 08:55	11/14/19 12:37	1
Toxaphene	77	U	77	28	ug/Kg	☼	11/12/19 08:55	11/14/19 12:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	65		49 - 150	11/12/19 08:55	11/14/19 12:37	1
DCB Decachlorobiphenyl	63		49 - 150	11/12/19 08:55	11/14/19 12:37	1
Tetrachloro-m-xylene	82		47 - 150	11/12/19 08:55	11/14/19 12:37	1
Tetrachloro-m-xylene	80		47 - 150	11/12/19 08:55	11/14/19 12:37	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	77	U	77	10	ug/Kg	☼	11/12/19 08:47	11/13/19 19:59	1
Aroclor 1221	77	U	77	10	ug/Kg	☼	11/12/19 08:47	11/13/19 19:59	1
Aroclor 1232	77	U	77	10	ug/Kg	☼	11/12/19 08:47	11/13/19 19:59	1
Aroclor 1242	77	U	77	10	ug/Kg	☼	11/12/19 08:47	11/13/19 19:59	1
Aroclor 1248	77	U	77	10	ug/Kg	☼	11/12/19 08:47	11/13/19 19:59	1
Aroclor 1254	77	U	77	11	ug/Kg	☼	11/12/19 08:47	11/13/19 19:59	1
Aroclor 1260	77	U	77	11	ug/Kg	☼	11/12/19 08:47	11/13/19 19:59	1
Aroclor-1262	77	U	77	11	ug/Kg	☼	11/12/19 08:47	11/13/19 19:59	1
Aroclor 1268	77	U	77	11	ug/Kg	☼	11/12/19 08:47	11/13/19 19:59	1
Polychlorinated biphenyls, Total	77	U	77	11	ug/Kg	☼	11/12/19 08:47	11/13/19 19:59	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196259-1

Client Sample ID: WSG-GS5-0.0-0.2-0

Lab Sample ID: 460-196259-31

Date Collected: 11/04/19 13:20

Matrix: Solid

Date Received: 11/06/19 18:40

Percent Solids: 87.1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	101		53 - 150	11/12/19 08:47	11/13/19 19:59	1
DCB Decachlorobiphenyl	94		53 - 150	11/12/19 08:47	11/13/19 19:59	1

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	38	U	38	14	ug/Kg	☼	11/13/19 00:19	11/13/19 22:23	1
Silvex (2,4,5-TP)	38	U *	38	4.0	ug/Kg	☼	11/13/19 00:19	11/13/19 22:23	1
2,4,5-T	38	U *	38	8.1	ug/Kg	☼	11/13/19 00:19	11/13/19 22:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	123		30 - 150	11/13/19 00:19	11/13/19 22:23	1
2,4-Dichlorophenylacetic acid	135		30 - 150	11/13/19 00:19	11/13/19 22:23	1

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	0.22	U	0.22	0.046	ug/Kg	☼	11/18/19 06:37	11/30/19 09:36	1
Perfluoroheptanoic acid (PFHpA)	0.22	U	0.22	0.031	ug/Kg	☼	11/18/19 06:37	11/30/19 09:36	1
Perfluorooctanoic acid (PFOA)	0.11	J	0.22	0.093	ug/Kg	☼	11/18/19 06:37	11/30/19 09:36	1
Perfluorononanoic acid (PFNA)	0.22	U	0.22	0.039	ug/Kg	☼	11/18/19 06:37	11/30/19 09:36	1
Perfluorodecanoic acid (PFDA)	0.081	J	0.22	0.024	ug/Kg	☼	11/18/19 06:37	11/30/19 09:36	1
Perfluoroundecanoic acid (PFUnA)	0.043	J	0.22	0.039	ug/Kg	☼	11/18/19 06:37	11/30/19 09:36	1
Perfluorododecanoic acid (PFDoA)	0.22	U	0.22	0.073	ug/Kg	☼	11/18/19 06:37	11/30/19 09:36	1
Perfluorotridecanoic acid (PFTriA)	0.22	U	0.22	0.055	ug/Kg	☼	11/18/19 06:37	11/30/19 09:36	1
Perfluorotetradecanoic acid (PFTeA)	0.22	U	0.22	0.059	ug/Kg	☼	11/18/19 06:37	11/30/19 09:36	1
Perfluorobutanesulfonic acid (PFBS)	0.22	U	0.22	0.027	ug/Kg	☼	11/18/19 06:37	11/30/19 09:36	1
Perfluorohexanesulfonic acid (PFHxS)	0.037	J	0.22	0.034	ug/Kg	☼	11/18/19 06:37	11/30/19 09:36	1
Perfluorooctanesulfonic acid (PFOS)	0.65	B	0.54	0.22	ug/Kg	☼	11/18/19 06:37	11/30/19 09:36	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.17	U	2.17	0.40	ug/Kg	☼	11/18/19 06:37	11/30/19 09:36	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.17	U	2.17	0.42	ug/Kg	☼	11/18/19 06:37	11/30/19 09:36	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFHxA	97		25 - 150	11/18/19 06:37	11/30/19 09:36	1
13C4 PFHpA	103		25 - 150	11/18/19 06:37	11/30/19 09:36	1
13C4 PFOA	96		25 - 150	11/18/19 06:37	11/30/19 09:36	1
13C5 PFNA	99		25 - 150	11/18/19 06:37	11/30/19 09:36	1
13C2 PFDA	99		25 - 150	11/18/19 06:37	11/30/19 09:36	1
13C2 PFUnA	103		25 - 150	11/18/19 06:37	11/30/19 09:36	1
13C2 PFDoA	98		25 - 150	11/18/19 06:37	11/30/19 09:36	1
13C2 PFTeA	86		25 - 150	11/18/19 06:37	11/30/19 09:36	1
18O2 PFHxS	108		25 - 150	11/18/19 06:37	11/30/19 09:36	1
13C4 PFOS	95		25 - 150	11/18/19 06:37	11/30/19 09:36	1
d3-NMeFOSAA	82		25 - 150	11/18/19 06:37	11/30/19 09:36	1
d5-NEtFOSAA	92		25 - 150	11/18/19 06:37	11/30/19 09:36	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196259-1

Client Sample ID: WSG-GS5-0.0-0.2-0

Lab Sample ID: 460-196259-31

Date Collected: 11/04/19 13:20

Matrix: Solid

Date Received: 11/06/19 18:40

Percent Solids: 87.1

Method: 537 (modified) - Fluorinated Alkyl Substances - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	0.82	H	0.55	0.22	ug/Kg	☼	12/04/19 07:00	12/06/19 19:29	1
<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>13C4 PFOS</i>	<i>92</i>		<i>25 - 150</i>				<i>12/04/19 07:00</i>	<i>12/06/19 19:29</i>	<i>1</i>

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	6250		32.2	15.8	mg/Kg	☼	11/15/19 05:57	11/16/19 13:40	4
Silver	2.1	U	2.1	0.20	mg/Kg	☼	11/15/19 05:57	11/16/19 13:40	4
Aluminum	4290		42.9	12.1	mg/Kg	☼	11/15/19 05:57	11/16/19 13:40	4
Arsenic	4.0		3.2	1.3	mg/Kg	☼	11/15/19 05:57	11/16/19 13:40	4
Boron	7.1	J	10.7	3.0	mg/Kg	☼	11/15/19 05:57	11/16/19 13:40	4
Barium	31.3	J	42.9	2.4	mg/Kg	☼	11/15/19 05:57	11/16/19 13:40	4
Beryllium	0.24	J	0.43	0.096	mg/Kg	☼	11/15/19 05:57	11/16/19 13:40	4
Calcium	29500		1070	63.2	mg/Kg	☼	11/15/19 05:57	11/16/19 13:40	4
Cadmium	0.86	U	0.86	0.15	mg/Kg	☼	11/15/19 05:57	11/16/19 13:40	4
Cobalt	2.0	J	10.7	1.3	mg/Kg	☼	11/15/19 05:57	11/16/19 13:40	4
Chromium	13.5		2.1	0.38	mg/Kg	☼	11/15/19 05:57	11/16/19 13:40	4
Copper	13.6		5.4	2.9	mg/Kg	☼	11/15/19 05:57	11/16/19 13:40	4
Potassium	729	J	1070	66.8	mg/Kg	☼	11/15/19 05:57	11/16/19 13:40	4
Magnesium	3370		1070	62.6	mg/Kg	☼	11/15/19 05:57	11/16/19 13:40	4
Manganese	118		3.2	0.37	mg/Kg	☼	11/15/19 05:57	11/16/19 13:40	4
Molybdenum	4.3	U	4.3	1.0	mg/Kg	☼	11/15/19 05:57	11/16/19 13:40	4
Sodium	150	J	1070	86.3	mg/Kg	☼	11/15/19 05:57	11/16/19 13:40	4
Nickel	5.9	J	8.6	0.79	mg/Kg	☼	11/15/19 05:57	11/16/19 13:40	4
Lead	17.3		2.1	0.56	mg/Kg	☼	11/15/19 05:57	11/16/19 13:40	4
Antimony	4.3	U	4.3	1.1	mg/Kg	☼	11/15/19 05:57	11/16/19 13:40	4
Selenium	4.3	U	4.3	2.6	mg/Kg	☼	11/15/19 05:57	11/16/19 13:40	4
Tin	10.7	U	10.7	6.9	mg/Kg	☼	11/15/19 05:57	11/16/19 13:40	4
Strontium	93.4		4.3	0.43	mg/Kg	☼	11/15/19 05:57	11/16/19 13:40	4
Titanium	263		4.3	0.65	mg/Kg	☼	11/15/19 05:57	11/16/19 13:40	4
Thallium	4.3	U	4.3	0.68	mg/Kg	☼	11/15/19 05:57	11/16/19 13:40	4
Vanadium	14.7		10.7	0.71	mg/Kg	☼	11/15/19 05:57	11/16/19 13:40	4
Zinc	37.1		6.4	5.0	mg/Kg	☼	11/15/19 05:57	11/16/19 13:40	4

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.047		0.019	0.011	mg/Kg	☼	11/15/19 03:03	11/15/19 07:54	1

Client Sample ID: WSG-GS5-0.5-2.0-0

Lab Sample ID: 460-196259-32

Date Collected: 11/04/19 13:30

Matrix: Solid

Date Received: 11/06/19 18:40

Percent Solids: 90.0

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.95	U	0.95	0.22	ug/Kg	☼	11/13/19 06:27	11/15/19 01:17	1
1,1,2,2-Tetrachloroethane	0.95	U	0.95	0.20	ug/Kg	☼	11/13/19 06:27	11/15/19 01:17	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.95	U	0.95	0.29	ug/Kg	☼	11/13/19 06:27	11/15/19 01:17	1
1,1,2-Trichloroethane	0.95	U	0.95	0.17	ug/Kg	☼	11/13/19 06:27	11/15/19 01:17	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196259-1

Client Sample ID: WSG-GS5-0.5-2.0-0

Lab Sample ID: 460-196259-32

Date Collected: 11/04/19 13:30

Matrix: Solid

Date Received: 11/06/19 18:40

Percent Solids: 90.0

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	0.95	U	0.95	0.20	ug/Kg	☼	11/13/19 06:27	11/15/19 01:17	1
1,1-Dichloroethene	0.95	U	0.95	0.21	ug/Kg	☼	11/13/19 06:27	11/15/19 01:17	1
1,2,4-Trichlorobenzene	0.95	U	0.95	0.34	ug/Kg	☼	11/13/19 06:27	11/15/19 01:17	1
1,2-Dibromo-3-Chloropropane	0.95	U	0.95	0.44	ug/Kg	☼	11/13/19 06:27	11/15/19 01:17	1
1,2-Dichlorobenzene	0.95	U	0.95	0.14	ug/Kg	☼	11/13/19 06:27	11/15/19 01:17	1
1,2-Dichloroethane	0.95	U *	0.95	0.28	ug/Kg	☼	11/13/19 06:27	11/15/19 01:17	1
1,2-Dichloropropane	0.95	U	0.95	0.40	ug/Kg	☼	11/13/19 06:27	11/15/19 01:17	1
1,3-Dichlorobenzene	0.95	U	0.95	0.15	ug/Kg	☼	11/13/19 06:27	11/15/19 01:17	1
1,4-Dichlorobenzene	0.95	U	0.95	0.21	ug/Kg	☼	11/13/19 06:27	11/15/19 01:17	1
2-Butanone (MEK)	4.7	U	4.7	2.6	ug/Kg	☼	11/13/19 06:27	11/15/19 01:17	1
2-Hexanone	4.7	U	4.7	1.6	ug/Kg	☼	11/13/19 06:27	11/15/19 01:17	1
4-Methyl-2-pentanone (MIBK)	4.7	U	4.7	1.5	ug/Kg	☼	11/13/19 06:27	11/15/19 01:17	1
Acetone	5.7	U	5.7	5.4	ug/Kg	☼	11/13/19 06:27	11/15/19 01:17	1
Benzene	0.95	U	0.95	0.24	ug/Kg	☼	11/13/19 06:27	11/15/19 01:17	1
Bromoform	0.95	U	0.95	0.40	ug/Kg	☼	11/13/19 06:27	11/15/19 01:17	1
Bromomethane	0.95	U	0.95	0.45	ug/Kg	☼	11/13/19 06:27	11/15/19 01:17	1
Carbon disulfide	0.95	U	0.95	0.25	ug/Kg	☼	11/13/19 06:27	11/15/19 01:17	1
Carbon tetrachloride	0.95	U	0.95	0.37	ug/Kg	☼	11/13/19 06:27	11/15/19 01:17	1
Chlorobenzene	0.95	U	0.95	0.17	ug/Kg	☼	11/13/19 06:27	11/15/19 01:17	1
Chlorodibromomethane	0.95	U	0.95	0.18	ug/Kg	☼	11/13/19 06:27	11/15/19 01:17	1
Chloroethane	0.95	U	0.95	0.50	ug/Kg	☼	11/13/19 06:27	11/15/19 01:17	1
Chloroform	0.95	U	0.95	0.30	ug/Kg	☼	11/13/19 06:27	11/15/19 01:17	1
Chloromethane	0.95	U	0.95	0.41	ug/Kg	☼	11/13/19 06:27	11/15/19 01:17	1
cis-1,2-Dichloroethene	0.95	U	0.95	0.14	ug/Kg	☼	11/13/19 06:27	11/15/19 01:17	1
cis-1,3-Dichloropropene	0.95	U	0.95	0.26	ug/Kg	☼	11/13/19 06:27	11/15/19 01:17	1
Cyclohexane	0.95	U	0.95	0.21	ug/Kg	☼	11/13/19 06:27	11/15/19 01:17	1
Dichlorobromomethane	0.95	U	0.95	0.24	ug/Kg	☼	11/13/19 06:27	11/15/19 01:17	1
Dichlorodifluoromethane	0.95	U	0.95	0.32	ug/Kg	☼	11/13/19 06:27	11/15/19 01:17	1
Ethylbenzene	0.95	U	0.95	0.19	ug/Kg	☼	11/13/19 06:27	11/15/19 01:17	1
Ethylene Dibromide	0.95	U	0.95	0.17	ug/Kg	☼	11/13/19 06:27	11/15/19 01:17	1
Isopropylbenzene	0.95	U	0.95	0.12	ug/Kg	☼	11/13/19 06:27	11/15/19 01:17	1
Methyl acetate	4.7	U	4.7	4.1	ug/Kg	☼	11/13/19 06:27	11/15/19 01:17	1
Methyl tert-butyl ether	0.95	U	0.95	0.12	ug/Kg	☼	11/13/19 06:27	11/15/19 01:17	1
Methylcyclohexane	0.95	U	0.95	0.47	ug/Kg	☼	11/13/19 06:27	11/15/19 01:17	1
Methylene Chloride	0.95	U	0.95	0.44	ug/Kg	☼	11/13/19 06:27	11/15/19 01:17	1
Styrene	0.95	U	0.95	0.26	ug/Kg	☼	11/13/19 06:27	11/15/19 01:17	1
Tetrachloroethene	0.95	U	0.95	0.14	ug/Kg	☼	11/13/19 06:27	11/15/19 01:17	1
Toluene	0.95	U	0.95	0.22	ug/Kg	☼	11/13/19 06:27	11/15/19 01:17	1
trans-1,2-Dichloroethene	0.95	U	0.95	0.23	ug/Kg	☼	11/13/19 06:27	11/15/19 01:17	1
trans-1,3-Dichloropropene	0.95	U	0.95	0.25	ug/Kg	☼	11/13/19 06:27	11/15/19 01:17	1
Trichloroethene	0.95	U	0.95	0.14	ug/Kg	☼	11/13/19 06:27	11/15/19 01:17	1
Trichlorofluoromethane	0.95	U	0.95	0.39	ug/Kg	☼	11/13/19 06:27	11/15/19 01:17	1
Vinyl chloride	0.95	U	0.95	0.52	ug/Kg	☼	11/13/19 06:27	11/15/19 01:17	1
Xylenes, Total	1.9	U	1.9	0.17	ug/Kg	☼	11/13/19 06:27	11/15/19 01:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	111		78 - 135	11/13/19 06:27	11/15/19 01:17	1
4-Bromofluorobenzene	89		67 - 126	11/13/19 06:27	11/15/19 01:17	1
Dibromofluoromethane (Surr)	95		61 - 149	11/13/19 06:27	11/15/19 01:17	1

Eurofins TestAmerica, Edison

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196259-1

Client Sample ID: WSG-GS5-0.5-2.0-0

Lab Sample ID: 460-196259-32

Date Collected: 11/04/19 13:30

Matrix: Solid

Date Received: 11/06/19 18:40

Percent Solids: 90.0

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	89		73 - 121	11/13/19 06:27	11/15/19 01:17	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	370	U	370	4.9	ug/Kg	☼	11/13/19 12:37	11/14/19 02:18	1
2,2'-oxybis[1-chloropropane]	370	U	370	6.7	ug/Kg	☼	11/13/19 12:37	11/14/19 02:18	1
2,4,5-Trichlorophenol	370	U	370	37	ug/Kg	☼	11/13/19 12:37	11/14/19 02:18	1
2,4,6-Trichlorophenol	150	U	150	47	ug/Kg	☼	11/13/19 12:37	11/14/19 02:18	1
2,4-Dichlorophenol	150	U	150	24	ug/Kg	☼	11/13/19 12:37	11/14/19 02:18	1
2,4-Dimethylphenol	370	U	370	16	ug/Kg	☼	11/13/19 12:37	11/14/19 02:18	1
2,4-Dinitrophenol	300	U	300	180	ug/Kg	☼	11/13/19 12:37	11/14/19 02:18	1
2,4-Dinitrotoluene	74	U	74	40	ug/Kg	☼	11/13/19 12:37	11/14/19 02:18	1
2,6-Dinitrotoluene	74	U	74	27	ug/Kg	☼	11/13/19 12:37	11/14/19 02:18	1
2-Chloronaphthalene	370	U	370	17	ug/Kg	☼	11/13/19 12:37	11/14/19 02:18	1
2-Chlorophenol	370	U	370	13	ug/Kg	☼	11/13/19 12:37	11/14/19 02:18	1
2-Methylnaphthalene	370	U	370	10	ug/Kg	☼	11/13/19 12:37	11/14/19 02:18	1
2-Methylphenol	370	U	370	14	ug/Kg	☼	11/13/19 12:37	11/14/19 02:18	1
2-Nitroaniline	370	U	370	14	ug/Kg	☼	11/13/19 12:37	11/14/19 02:18	1
2-Nitrophenol	370	U	370	37	ug/Kg	☼	11/13/19 12:37	11/14/19 02:18	1
3,3'-Dichlorobenzidine	150	U	150	56	ug/Kg	☼	11/13/19 12:37	11/14/19 02:18	1
3-Nitroaniline	370	U	370	41	ug/Kg	☼	11/13/19 12:37	11/14/19 02:18	1
4,6-Dinitro-2-methylphenol	300	U	300	60	ug/Kg	☼	11/13/19 12:37	11/14/19 02:18	1
4-Bromophenyl phenyl ether	370	U	370	15	ug/Kg	☼	11/13/19 12:37	11/14/19 02:18	1
4-Chloro-3-methylphenol	370	U	370	21	ug/Kg	☼	11/13/19 12:37	11/14/19 02:18	1
4-Chloroaniline	370	U	370	26	ug/Kg	☼	11/13/19 12:37	11/14/19 02:18	1
4-Chlorophenyl phenyl ether	370	U	370	13	ug/Kg	☼	11/13/19 12:37	11/14/19 02:18	1
4-Methylphenol	370	U	370	23	ug/Kg	☼	11/13/19 12:37	11/14/19 02:18	1
4-Nitroaniline	370	U	370	42	ug/Kg	☼	11/13/19 12:37	11/14/19 02:18	1
4-Nitrophenol	740	U	740	60	ug/Kg	☼	11/13/19 12:37	11/14/19 02:18	1
Acenaphthene	370	U	370	27	ug/Kg	☼	11/13/19 12:37	11/14/19 02:18	1
Acenaphthylene	370	U	370	3.8	ug/Kg	☼	11/13/19 12:37	11/14/19 02:18	1
Acetophenone	370	U	370	18	ug/Kg	☼	11/13/19 12:37	11/14/19 02:18	1
Anthracene	370	U	370	11	ug/Kg	☼	11/13/19 12:37	11/14/19 02:18	1
Atrazine	150	U	150	9.3	ug/Kg	☼	11/13/19 12:37	11/14/19 02:18	1
Benzaldehyde	370	U	370	16	ug/Kg	☼	11/13/19 12:37	11/14/19 02:18	1
Benzo[a]anthracene	68		37	13	ug/Kg	☼	11/13/19 12:37	11/14/19 02:18	1
Benzo[a]pyrene	52		37	9.8	ug/Kg	☼	11/13/19 12:37	11/14/19 02:18	1
Benzo[b]fluoranthene	75		37	9.5	ug/Kg	☼	11/13/19 12:37	11/14/19 02:18	1
Benzo[g,h,i]perylene	40 J		370	11	ug/Kg	☼	11/13/19 12:37	11/14/19 02:18	1
Benzo[k]fluoranthene	30 J		37	7.2	ug/Kg	☼	11/13/19 12:37	11/14/19 02:18	1
Bis(2-chloroethoxy)methane	370	U	370	29	ug/Kg	☼	11/13/19 12:37	11/14/19 02:18	1
Bis(2-chloroethyl)ether	37	U	37	13	ug/Kg	☼	11/13/19 12:37	11/14/19 02:18	1
Bis(2-ethylhexyl) phthalate	370	U	370	19	ug/Kg	☼	11/13/19 12:37	11/14/19 02:18	1
Butyl benzyl phthalate	370	U	370	17	ug/Kg	☼	11/13/19 12:37	11/14/19 02:18	1
Caprolactam	370	U	370	57	ug/Kg	☼	11/13/19 12:37	11/14/19 02:18	1
Carbazole	370	U	370	14	ug/Kg	☼	11/13/19 12:37	11/14/19 02:18	1
Chrysene	70 J		370	6.2	ug/Kg	☼	11/13/19 12:37	11/14/19 02:18	1
Dibenz(a,h)anthracene	37	U	37	16	ug/Kg	☼	11/13/19 12:37	11/14/19 02:18	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196259-1

Client Sample ID: WSG-GS5-0.5-2.0-0

Lab Sample ID: 460-196259-32

Date Collected: 11/04/19 13:30

Matrix: Solid

Date Received: 11/06/19 18:40

Percent Solids: 90.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenzofuran	370	U	370	5.2	ug/Kg	☒	11/13/19 12:37	11/14/19 02:18	1
Diethyl phthalate	370	U	370	5.3	ug/Kg	☒	11/13/19 12:37	11/14/19 02:18	1
Dimethyl phthalate	370	U	370	84	ug/Kg	☒	11/13/19 12:37	11/14/19 02:18	1
Di-n-butyl phthalate	370	U	370	65	ug/Kg	☒	11/13/19 12:37	11/14/19 02:18	1
Di-n-octyl phthalate	370	U	370	19	ug/Kg	☒	11/13/19 12:37	11/14/19 02:18	1
Fluoranthene	150	J	370	13	ug/Kg	☒	11/13/19 12:37	11/14/19 02:18	1
Fluorene	370	U	370	5.0	ug/Kg	☒	11/13/19 12:37	11/14/19 02:18	1
Hexachlorobenzene	37	U	37	17	ug/Kg	☒	11/13/19 12:37	11/14/19 02:18	1
Hexachlorobutadiene	74	U	74	7.8	ug/Kg	☒	11/13/19 12:37	11/14/19 02:18	1
Hexachlorocyclopentadiene	370	U	370	32	ug/Kg	☒	11/13/19 12:37	11/14/19 02:18	1
Hexachloroethane	37	U	37	13	ug/Kg	☒	11/13/19 12:37	11/14/19 02:18	1
Indeno[1,2,3-cd]pyrene	41		37	14	ug/Kg	☒	11/13/19 12:37	11/14/19 02:18	1
Isophorone	150	U	150	110	ug/Kg	☒	11/13/19 12:37	11/14/19 02:18	1
Naphthalene	370	U	370	6.4	ug/Kg	☒	11/13/19 12:37	11/14/19 02:18	1
Nitrobenzene	37	U	37	8.8	ug/Kg	☒	11/13/19 12:37	11/14/19 02:18	1
N-Nitrosodi-n-propylamine	37	U	37	27	ug/Kg	☒	11/13/19 12:37	11/14/19 02:18	1
N-Nitrosodiphenylamine	370	U	370	7.0	ug/Kg	☒	11/13/19 12:37	11/14/19 02:18	1
Pentachlorophenol	300	U	300	75	ug/Kg	☒	11/13/19 12:37	11/14/19 02:18	1
Phenanthrene	61	J	370	6.5	ug/Kg	☒	11/13/19 12:37	11/14/19 02:18	1
Phenol	370	U	370	14	ug/Kg	☒	11/13/19 12:37	11/14/19 02:18	1
Pyrene	120	J	370	9.1	ug/Kg	☒	11/13/19 12:37	11/14/19 02:18	1
1,4-Dioxane	110	U	110	10	ug/Kg	☒	11/13/19 12:37	11/14/19 02:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	64		10 - 137	11/13/19 12:37	11/14/19 02:18	1
2-Fluorobiphenyl	64		29 - 107	11/13/19 12:37	11/14/19 02:18	1
2-Fluorophenol (Surr)	58		20 - 115	11/13/19 12:37	11/14/19 02:18	1
Nitrobenzene-d5 (Surr)	60		25 - 113	11/13/19 12:37	11/14/19 02:18	1
Phenol-d5 (Surr)	62		28 - 109	11/13/19 12:37	11/14/19 02:18	1
Terphenyl-d14 (Surr)	68		27 - 123	11/13/19 12:37	11/14/19 02:18	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	7.4	U	7.4	1.3	ug/Kg	☒	11/12/19 08:55	11/14/19 12:53	1
4,4'-DDE	7.4	U	7.4	0.88	ug/Kg	☒	11/12/19 08:55	11/14/19 12:53	1
4,4'-DDT	7.4	U	7.4	1.4	ug/Kg	☒	11/12/19 08:55	11/14/19 12:53	1
Aldrin	7.4	U	7.4	1.1	ug/Kg	☒	11/12/19 08:55	11/14/19 12:53	1
alpha-BHC	2.2	U	2.2	0.76	ug/Kg	☒	11/12/19 08:55	11/14/19 12:53	1
beta-BHC	2.2	U	2.2	0.83	ug/Kg	☒	11/12/19 08:55	11/14/19 12:53	1
Chlordane (technical)	74	U	74	18	ug/Kg	☒	11/12/19 08:55	11/14/19 12:53	1
delta-BHC	2.2	U	2.2	0.46	ug/Kg	☒	11/12/19 08:55	11/14/19 12:53	1
Dieldrin	2.2	U	2.2	0.97	ug/Kg	☒	11/12/19 08:55	11/14/19 12:53	1
Endosulfan I	7.4	U	7.4	1.1	ug/Kg	☒	11/12/19 08:55	11/14/19 12:53	1
Endosulfan II	7.4	U	7.4	1.9	ug/Kg	☒	11/12/19 08:55	11/14/19 12:53	1
Endosulfan sulfate	7.4	U	7.4	0.93	ug/Kg	☒	11/12/19 08:55	11/14/19 12:53	1
Endrin	7.4	U	7.4	1.1	ug/Kg	☒	11/12/19 08:55	11/14/19 12:53	1
Endrin aldehyde	7.4	U	7.4	1.8	ug/Kg	☒	11/12/19 08:55	11/14/19 12:53	1
Endrin ketone	7.4	U	7.4	1.4	ug/Kg	☒	11/12/19 08:55	11/14/19 12:53	1
gamma-BHC (Lindane)	2.2	U	2.2	0.69	ug/Kg	☒	11/12/19 08:55	11/14/19 12:53	1

Eurofins TestAmerica, Edison

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196259-1

Client Sample ID: WSG-GS5-0.5-2.0-0

Lab Sample ID: 460-196259-32

Date Collected: 11/04/19 13:30

Matrix: Solid

Date Received: 11/06/19 18:40

Percent Solids: 90.0

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor	7.4	U	7.4	0.88	ug/Kg	☒	11/12/19 08:55	11/14/19 12:53	1
Heptachlor epoxide	7.4	U	7.4	1.1	ug/Kg	☒	11/12/19 08:55	11/14/19 12:53	1
Methoxychlor	7.4	U	7.4	1.7	ug/Kg	☒	11/12/19 08:55	11/14/19 12:53	1
Toxaphene	74	U	74	27	ug/Kg	☒	11/12/19 08:55	11/14/19 12:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	76		49 - 150	11/12/19 08:55	11/14/19 12:53	1
DCB Decachlorobiphenyl	83		49 - 150	11/12/19 08:55	11/14/19 12:53	1
Tetrachloro-m-xylene	87		47 - 150	11/12/19 08:55	11/14/19 12:53	1
Tetrachloro-m-xylene	85		47 - 150	11/12/19 08:55	11/14/19 12:53	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	74	U	74	9.9	ug/Kg	☒	11/12/19 08:47	11/13/19 20:16	1
Aroclor 1221	74	U	74	9.9	ug/Kg	☒	11/12/19 08:47	11/13/19 20:16	1
Aroclor 1232	74	U	74	9.9	ug/Kg	☒	11/12/19 08:47	11/13/19 20:16	1
Aroclor 1242	74	U	74	9.9	ug/Kg	☒	11/12/19 08:47	11/13/19 20:16	1
Aroclor 1248	74	U	74	9.9	ug/Kg	☒	11/12/19 08:47	11/13/19 20:16	1
Aroclor 1254	74	U	74	10	ug/Kg	☒	11/12/19 08:47	11/13/19 20:16	1
Aroclor 1260	74	U	74	10	ug/Kg	☒	11/12/19 08:47	11/13/19 20:16	1
Aroclor-1262	74	U	74	10	ug/Kg	☒	11/12/19 08:47	11/13/19 20:16	1
Aroclor 1268	74	U	74	10	ug/Kg	☒	11/12/19 08:47	11/13/19 20:16	1
Polychlorinated biphenyls, Total	74	U	74	10	ug/Kg	☒	11/12/19 08:47	11/13/19 20:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	109		53 - 150	11/12/19 08:47	11/13/19 20:16	1
DCB Decachlorobiphenyl	103		53 - 150	11/12/19 08:47	11/13/19 20:16	1

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	37	U	37	13	ug/Kg	☒	11/13/19 00:19	11/13/19 22:37	1
Silvex (2,4,5-TP)	37	U *	37	3.9	ug/Kg	☒	11/13/19 00:19	11/13/19 22:37	1
2,4,5-T	37	U *	37	7.9	ug/Kg	☒	11/13/19 00:19	11/13/19 22:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	139		30 - 150	11/13/19 00:19	11/13/19 22:37	1
2,4-Dichlorophenylacetic acid	125		30 - 150	11/13/19 00:19	11/13/19 22:37	1

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	0.22	U	0.22	0.047	ug/Kg	☒	11/18/19 06:37	11/30/19 09:46	1
Perfluoroheptanoic acid (PFHpA)	0.22	U	0.22	0.032	ug/Kg	☒	11/18/19 06:37	11/30/19 09:46	1
Perfluorooctanoic acid (PFOA)	0.22	U	0.22	0.095	ug/Kg	☒	11/18/19 06:37	11/30/19 09:46	1
Perfluorononanoic acid (PFNA)	0.22	U	0.22	0.040	ug/Kg	☒	11/18/19 06:37	11/30/19 09:46	1
Perfluorodecanoic acid (PFDA)	0.22	U	0.22	0.024	ug/Kg	☒	11/18/19 06:37	11/30/19 09:46	1
Perfluoroundecanoic acid (PFUnA)	0.22	U	0.22	0.040	ug/Kg	☒	11/18/19 06:37	11/30/19 09:46	1
Perfluorododecanoic acid (PFDoA)	0.22	U	0.22	0.074	ug/Kg	☒	11/18/19 06:37	11/30/19 09:46	1
Perfluorotridecanoic acid (PFTriA)	0.22	U	0.22	0.057	ug/Kg	☒	11/18/19 06:37	11/30/19 09:46	1
Perfluorotetradecanoic acid (PFTeA)	0.22	U	0.22	0.060	ug/Kg	☒	11/18/19 06:37	11/30/19 09:46	1
Perfluorobutanesulfonic acid (PFBS)	0.22	U	0.22	0.028	ug/Kg	☒	11/18/19 06:37	11/30/19 09:46	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196259-1

Client Sample ID: WSG-GS5-0.5-2.0-0

Lab Sample ID: 460-196259-32

Date Collected: 11/04/19 13:30

Matrix: Solid

Date Received: 11/06/19 18:40

Percent Solids: 90.0

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanesulfonic acid (PFHxS)	0.22	U	0.22	0.034	ug/Kg	☼	11/18/19 06:37	11/30/19 09:46	1
Perfluorooctanesulfonic acid (PFOS)	0.34	J B	0.55	0.22	ug/Kg	☼	11/18/19 06:37	11/30/19 09:46	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.22	U	2.22	0.41	ug/Kg	☼	11/18/19 06:37	11/30/19 09:46	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.22	U	2.22	0.43	ug/Kg	☼	11/18/19 06:37	11/30/19 09:46	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C2 PFHxA	104		25 - 150				11/18/19 06:37	11/30/19 09:46	1
13C4 PFHpA	111		25 - 150				11/18/19 06:37	11/30/19 09:46	1
13C4 PFOA	103		25 - 150				11/18/19 06:37	11/30/19 09:46	1
13C5 PFNA	109		25 - 150				11/18/19 06:37	11/30/19 09:46	1
13C2 PFDA	104		25 - 150				11/18/19 06:37	11/30/19 09:46	1
13C2 PFUnA	113		25 - 150				11/18/19 06:37	11/30/19 09:46	1
13C2 PFDoA	109		25 - 150				11/18/19 06:37	11/30/19 09:46	1
13C2 PFTeDA	103		25 - 150				11/18/19 06:37	11/30/19 09:46	1
18O2 PFHxS	111		25 - 150				11/18/19 06:37	11/30/19 09:46	1
13C4 PFOS	104		25 - 150				11/18/19 06:37	11/30/19 09:46	1
d3-NMeFOSAA	103		25 - 150				11/18/19 06:37	11/30/19 09:46	1
d5-NEtFOSAA	119		25 - 150				11/18/19 06:37	11/30/19 09:46	1

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	3640		31.5	15.4	mg/Kg	☼	11/15/19 05:57	11/16/19 13:43	4
Silver	2.1	U	2.1	0.20	mg/Kg	☼	11/15/19 05:57	11/16/19 13:43	4
Aluminum	2700		42.0	11.9	mg/Kg	☼	11/15/19 05:57	11/16/19 13:43	4
Arsenic	1.8	J	3.1	1.2	mg/Kg	☼	11/15/19 05:57	11/16/19 13:43	4
Boron	4.8	J	10.5	2.9	mg/Kg	☼	11/15/19 05:57	11/16/19 13:43	4
Barium	10.4	J	42.0	2.3	mg/Kg	☼	11/15/19 05:57	11/16/19 13:43	4
Beryllium	0.11	J	0.42	0.093	mg/Kg	☼	11/15/19 05:57	11/16/19 13:43	4
Calcium	4950		1050	61.8	mg/Kg	☼	11/15/19 05:57	11/16/19 13:43	4
Cadmium	0.84	U	0.84	0.14	mg/Kg	☼	11/15/19 05:57	11/16/19 13:43	4
Cobalt	10.5	U	10.5	1.3	mg/Kg	☼	11/15/19 05:57	11/16/19 13:43	4
Chromium	4.1		2.1	0.37	mg/Kg	☼	11/15/19 05:57	11/16/19 13:43	4
Copper	3.7	J	5.2	2.8	mg/Kg	☼	11/15/19 05:57	11/16/19 13:43	4
Potassium	210	J	1050	65.2	mg/Kg	☼	11/15/19 05:57	11/16/19 13:43	4
Magnesium	740	J	1050	61.1	mg/Kg	☼	11/15/19 05:57	11/16/19 13:43	4
Manganese	44.8		3.1	0.37	mg/Kg	☼	11/15/19 05:57	11/16/19 13:43	4
Molybdenum	4.2	U	4.2	1.0	mg/Kg	☼	11/15/19 05:57	11/16/19 13:43	4
Sodium	1050	U	1050	84.3	mg/Kg	☼	11/15/19 05:57	11/16/19 13:43	4
Nickel	2.3	J	8.4	0.77	mg/Kg	☼	11/15/19 05:57	11/16/19 13:43	4
Lead	6.2		2.1	0.55	mg/Kg	☼	11/15/19 05:57	11/16/19 13:43	4
Antimony	4.2	U	4.2	1.1	mg/Kg	☼	11/15/19 05:57	11/16/19 13:43	4
Selenium	4.2	U	4.2	2.5	mg/Kg	☼	11/15/19 05:57	11/16/19 13:43	4
Tin	10.5	U	10.5	6.8	mg/Kg	☼	11/15/19 05:57	11/16/19 13:43	4
Strontium	17.3		4.2	0.42	mg/Kg	☼	11/15/19 05:57	11/16/19 13:43	4
Titanium	130		4.2	0.63	mg/Kg	☼	11/15/19 05:57	11/16/19 13:43	4
Thallium	4.2	U	4.2	0.67	mg/Kg	☼	11/15/19 05:57	11/16/19 13:43	4
Vanadium	6.7	J	10.5	0.70	mg/Kg	☼	11/15/19 05:57	11/16/19 13:43	4

Eurofins TestAmerica, Edison

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196259-1

Client Sample ID: WSG-GS5-0.5-2.0-0

Lab Sample ID: 460-196259-32

Date Collected: 11/04/19 13:30

Matrix: Solid

Date Received: 11/06/19 18:40

Percent Solids: 90.0

Method: 6010D - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	10.5		6.3	4.9	mg/Kg	☼	11/15/19 05:57	11/16/19 13:43	4

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.014	J	0.019	0.011	mg/Kg	☼	11/15/19 03:03	11/15/19 07:55	1

Client Sample ID: WSG-S15-0.0-0.2-0

Lab Sample ID: 460-196259-33

Date Collected: 11/05/19 11:50

Matrix: Solid

Date Received: 11/06/19 18:40

Percent Solids: 92.1

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	0.21	U	0.21	0.044	ug/Kg	☼	11/19/19 07:55	12/02/19 14:11	1
Perfluoroheptanoic acid (PFHpA)	0.21	U	0.21	0.031	ug/Kg	☼	11/19/19 07:55	12/02/19 14:11	1
Perfluorooctanoic acid (PFOA)	0.21	U	0.21	0.091	ug/Kg	☼	11/19/19 07:55	12/02/19 14:11	1
Perfluorononanoic acid (PFNA)	0.21	U	0.21	0.038	ug/Kg	☼	11/19/19 07:55	12/02/19 14:11	1
Perfluorodecanoic acid (PFDA)	0.047	J	0.21	0.023	ug/Kg	☼	11/19/19 07:55	12/02/19 14:11	1
Perfluoroundecanoic acid (PFUnA)	0.21	U	0.21	0.038	ug/Kg	☼	11/19/19 07:55	12/02/19 14:11	1
Perfluorododecanoic acid (PFDoA)	0.21	U	0.21	0.071	ug/Kg	☼	11/19/19 07:55	12/02/19 14:11	1
Perfluorotridecanoic acid (PFTriA)	0.21	U	0.21	0.054	ug/Kg	☼	11/19/19 07:55	12/02/19 14:11	1
Perfluorotetradecanoic acid (PFTeA)	0.21	U	0.21	0.057	ug/Kg	☼	11/19/19 07:55	12/02/19 14:11	1
Perfluorobutanesulfonic acid (PFBS)	0.21	U	0.21	0.026	ug/Kg	☼	11/19/19 07:55	12/02/19 14:11	1
Perfluorohexanesulfonic acid (PFHxS)	0.21	U	0.21	0.033	ug/Kg	☼	11/19/19 07:55	12/02/19 14:11	1
Perfluorooctanesulfonic acid (PFOS)	0.39	J	0.53	0.21	ug/Kg	☼	11/19/19 07:55	12/02/19 14:11	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.10	U	2.10	0.39	ug/Kg	☼	11/19/19 07:55	12/02/19 14:11	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.10	U	2.10	0.41	ug/Kg	☼	11/19/19 07:55	12/02/19 14:11	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C2 PFHxA	78		25 - 150				11/19/19 07:55	12/02/19 14:11	1
13C4 PFHpA	77		25 - 150				11/19/19 07:55	12/02/19 14:11	1
13C4 PFOA	85		25 - 150				11/19/19 07:55	12/02/19 14:11	1
13C5 PFNA	86		25 - 150				11/19/19 07:55	12/02/19 14:11	1
13C2 PFDA	87		25 - 150				11/19/19 07:55	12/02/19 14:11	1
13C2 PFUnA	86		25 - 150				11/19/19 07:55	12/02/19 14:11	1
13C2 PFDoA	89		25 - 150				11/19/19 07:55	12/02/19 14:11	1
13C2 PFTeA	89		25 - 150				11/19/19 07:55	12/02/19 14:11	1
18O2 PFHxS	80		25 - 150				11/19/19 07:55	12/02/19 14:11	1
13C4 PFOS	78		25 - 150				11/19/19 07:55	12/02/19 14:11	1
d3-NMeFOSAA	104		25 - 150				11/19/19 07:55	12/02/19 14:11	1
d5-NEtFOSAA	100		25 - 150				11/19/19 07:55	12/02/19 14:11	1

Client Sample ID: WSG-S15-0.5-2.0-0

Lab Sample ID: 460-196259-34

Date Collected: 11/05/19 12:00

Matrix: Solid

Date Received: 11/06/19 18:40

Percent Solids: 77.0

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	0.24	U	0.24	0.051	ug/Kg	☼	11/19/19 07:55	12/02/19 14:21	1

Eurofins TestAmerica, Edison

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196259-1

Client Sample ID: WSG-S15-0.5-2.0-0

Lab Sample ID: 460-196259-34

Date Collected: 11/05/19 12:00

Matrix: Solid

Date Received: 11/06/19 18:40

Percent Solids: 77.0

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoroheptanoic acid (PFHpA)	0.24	U	0.24	0.035	ug/Kg	☼	11/19/19 07:55	12/02/19 14:21	1
Perfluorooctanoic acid (PFOA)	0.24	U	0.24	0.10	ug/Kg	☼	11/19/19 07:55	12/02/19 14:21	1
Perfluorononanoic acid (PFNA)	0.24	U	0.24	0.044	ug/Kg	☼	11/19/19 07:55	12/02/19 14:21	1
Perfluorodecanoic acid (PFDA)	0.24	U	0.24	0.027	ug/Kg	☼	11/19/19 07:55	12/02/19 14:21	1
Perfluoroundecanoic acid (PFUnA)	0.24	U	0.24	0.044	ug/Kg	☼	11/19/19 07:55	12/02/19 14:21	1
Perfluorododecanoic acid (PFDoA)	0.24	U	0.24	0.082	ug/Kg	☼	11/19/19 07:55	12/02/19 14:21	1
Perfluorotridecanoic acid (PFTriA)	0.24	U	0.24	0.062	ug/Kg	☼	11/19/19 07:55	12/02/19 14:21	1
Perfluorotetradecanoic acid (PFTeA)	0.24	U	0.24	0.066	ug/Kg	☼	11/19/19 07:55	12/02/19 14:21	1
Perfluorobutanesulfonic acid (PFBS)	0.24	U	0.24	0.030	ug/Kg	☼	11/19/19 07:55	12/02/19 14:21	1
Perfluorohexanesulfonic acid (PFHxS)	0.24	U	0.24	0.038	ug/Kg	☼	11/19/19 07:55	12/02/19 14:21	1
Perfluorooctanesulfonic acid (PFOS)	0.28	J	0.61	0.24	ug/Kg	☼	11/19/19 07:55	12/02/19 14:21	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.44	U	2.44	0.45	ug/Kg	☼	11/19/19 07:55	12/02/19 14:21	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.44	U	2.44	0.48	ug/Kg	☼	11/19/19 07:55	12/02/19 14:21	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C2 PFHxA	88		25 - 150				11/19/19 07:55	12/02/19 14:21	1
13C4 PFHpA	90		25 - 150				11/19/19 07:55	12/02/19 14:21	1
13C4 PFOA	96		25 - 150				11/19/19 07:55	12/02/19 14:21	1
13C5 PFNA	99		25 - 150				11/19/19 07:55	12/02/19 14:21	1
13C2 PFDA	100		25 - 150				11/19/19 07:55	12/02/19 14:21	1
13C2 PFUnA	99		25 - 150				11/19/19 07:55	12/02/19 14:21	1
13C2 PFDoA	105		25 - 150				11/19/19 07:55	12/02/19 14:21	1
13C2 PFTeA	101		25 - 150				11/19/19 07:55	12/02/19 14:21	1
18O2 PFHxS	92		25 - 150				11/19/19 07:55	12/02/19 14:21	1
13C4 PFOS	91		25 - 150				11/19/19 07:55	12/02/19 14:21	1
d3-NMeFOSAA	113		25 - 150				11/19/19 07:55	12/02/19 14:21	1
d5-NEtFOSAA	101		25 - 150				11/19/19 07:55	12/02/19 14:21	1

Client Sample ID: WSG-S12-0.0-0.2-0

Lab Sample ID: 460-196259-35

Date Collected: 11/04/19 16:05

Matrix: Solid

Date Received: 11/06/19 18:40

Percent Solids: 74.7

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	0.25	U	0.25	0.053	ug/Kg	☼	11/18/19 06:37	11/30/19 09:56	1
Perfluoroheptanoic acid (PFHpA)	0.25	U	0.25	0.037	ug/Kg	☼	11/18/19 06:37	11/30/19 09:56	1
Perfluorooctanoic acid (PFOA)	0.25	U	0.25	0.11	ug/Kg	☼	11/18/19 06:37	11/30/19 09:56	1
Perfluorononanoic acid (PFNA)	0.25	U	0.25	0.046	ug/Kg	☼	11/18/19 06:37	11/30/19 09:56	1
Perfluorodecanoic acid (PFDA)	0.064	J	0.25	0.028	ug/Kg	☼	11/18/19 06:37	11/30/19 09:56	1
Perfluoroundecanoic acid (PFUnA)	0.065	J	0.25	0.046	ug/Kg	☼	11/18/19 06:37	11/30/19 09:56	1
Perfluorododecanoic acid (PFDoA)	0.25	U	0.25	0.085	ug/Kg	☼	11/18/19 06:37	11/30/19 09:56	1
Perfluorotridecanoic acid (PFTriA)	0.25	U	0.25	0.065	ug/Kg	☼	11/18/19 06:37	11/30/19 09:56	1
Perfluorotetradecanoic acid (PFTeA)	0.25	U	0.25	0.068	ug/Kg	☼	11/18/19 06:37	11/30/19 09:56	1
Perfluorobutanesulfonic acid (PFBS)	0.25	U	0.25	0.032	ug/Kg	☼	11/18/19 06:37	11/30/19 09:56	1
Perfluorohexanesulfonic acid (PFHxS)	0.25	U	0.25	0.039	ug/Kg	☼	11/18/19 06:37	11/30/19 09:56	1
Perfluorooctanesulfonic acid (PFOS)	0.30	J B	0.63	0.25	ug/Kg	☼	11/18/19 06:37	11/30/19 09:56	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196259-1

Client Sample ID: WSG-S12-0.0-0.2-0

Lab Sample ID: 460-196259-35

Date Collected: 11/04/19 16:05

Matrix: Solid

Date Received: 11/06/19 18:40

Percent Solids: 74.7

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-ethylperfluorooctanesulfonamidoacetic acid (NETFOSAA)	2.53	U	2.53	0.47	ug/Kg	☼	11/18/19 06:37	11/30/19 09:56	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.53	U	2.53	0.49	ug/Kg	☼	11/18/19 06:37	11/30/19 09:56	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C2 PFHxA	103		25 - 150				11/18/19 06:37	11/30/19 09:56	1
13C4 PFHpA	108		25 - 150				11/18/19 06:37	11/30/19 09:56	1
13C4 PFOA	106		25 - 150				11/18/19 06:37	11/30/19 09:56	1
13C5 PFNA	106		25 - 150				11/18/19 06:37	11/30/19 09:56	1
13C2 PFDA	97		25 - 150				11/18/19 06:37	11/30/19 09:56	1
13C2 PFUnA	96		25 - 150				11/18/19 06:37	11/30/19 09:56	1
13C2 PFDoA	94		25 - 150				11/18/19 06:37	11/30/19 09:56	1
13C2 PFTeDA	97		25 - 150				11/18/19 06:37	11/30/19 09:56	1
18O2 PFHxS	116		25 - 150				11/18/19 06:37	11/30/19 09:56	1
13C4 PFOS	98		25 - 150				11/18/19 06:37	11/30/19 09:56	1
d3-NMeFOSAA	71		25 - 150				11/18/19 06:37	11/30/19 09:56	1
d5-NETFOSAA	67		25 - 150				11/18/19 06:37	11/30/19 09:56	1

Client Sample ID: WSG-S12-0.5-2.0-0

Lab Sample ID: 460-196259-36

Date Collected: 11/04/19 16:15

Matrix: Solid

Date Received: 11/06/19 18:40

Percent Solids: 71.4

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	0.28	U	0.28	0.058	ug/Kg	☼	11/18/19 06:37	11/30/19 10:06	1
Perfluoroheptanoic acid (PFHpA)	0.041	J B	0.28	0.040	ug/Kg	☼	11/18/19 06:37	11/30/19 10:06	1
Perfluorooctanoic acid (PFOA)	0.13	J	0.28	0.12	ug/Kg	☼	11/18/19 06:37	11/30/19 10:06	1
Perfluorononanoic acid (PFNA)	0.068	J	0.28	0.050	ug/Kg	☼	11/18/19 06:37	11/30/19 10:06	1
Perfluorodecanoic acid (PFDA)	0.067	J	0.28	0.030	ug/Kg	☼	11/18/19 06:37	11/30/19 10:06	1
Perfluoroundecanoic acid (PFUnA)	0.28	U	0.28	0.050	ug/Kg	☼	11/18/19 06:37	11/30/19 10:06	1
Perfluorododecanoic acid (PFDoA)	0.28	U	0.28	0.093	ug/Kg	☼	11/18/19 06:37	11/30/19 10:06	1
Perfluorotridecanoic acid (PFTriA)	0.28	U	0.28	0.071	ug/Kg	☼	11/18/19 06:37	11/30/19 10:06	1
Perfluorotetradecanoic acid (PFTeA)	0.28	U	0.28	0.075	ug/Kg	☼	11/18/19 06:37	11/30/19 10:06	1
Perfluorobutanesulfonic acid (PFBS)	0.28	U	0.28	0.035	ug/Kg	☼	11/18/19 06:37	11/30/19 10:06	1
Perfluorohexanesulfonic acid (PFHxS)	0.28	U	0.28	0.043	ug/Kg	☼	11/18/19 06:37	11/30/19 10:06	1
Perfluorooctanesulfonic acid (PFOS)	0.77	B	0.69	0.28	ug/Kg	☼	11/18/19 06:37	11/30/19 10:06	1
N-ethylperfluorooctanesulfonamidoacetic acid (NETFOSAA)	2.77	U	2.77	0.51	ug/Kg	☼	11/18/19 06:37	11/30/19 10:06	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.77	U	2.77	0.54	ug/Kg	☼	11/18/19 06:37	11/30/19 10:06	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C2 PFHxA	97		25 - 150				11/18/19 06:37	11/30/19 10:06	1
13C4 PFHpA	105		25 - 150				11/18/19 06:37	11/30/19 10:06	1
13C4 PFOA	101		25 - 150				11/18/19 06:37	11/30/19 10:06	1
13C5 PFNA	103		25 - 150				11/18/19 06:37	11/30/19 10:06	1
13C2 PFDA	96		25 - 150				11/18/19 06:37	11/30/19 10:06	1
13C2 PFUnA	97		25 - 150				11/18/19 06:37	11/30/19 10:06	1
13C2 PFDoA	95		25 - 150				11/18/19 06:37	11/30/19 10:06	1
13C2 PFTeDA	101		25 - 150				11/18/19 06:37	11/30/19 10:06	1

Eurofins TestAmerica, Edison

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196259-1

Client Sample ID: WSG-S12-0.5-2.0-0

Lab Sample ID: 460-196259-36

Date Collected: 11/04/19 16:15

Matrix: Solid

Date Received: 11/06/19 18:40

Percent Solids: 71.4

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
18O2 PFHxS	108		25 - 150	11/18/19 06:37	11/30/19 10:06	1
13C4 PFOS	94		25 - 150	11/18/19 06:37	11/30/19 10:06	1
d3-NMeFOSAA	62		25 - 150	11/18/19 06:37	11/30/19 10:06	1
d5-NEtFOSAA	56		25 - 150	11/18/19 06:37	11/30/19 10:06	1

Method: 537 (modified) - Fluorinated Alkyl Substances - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	0.31	J H	0.65	0.26	ug/Kg	☼	12/04/19 07:00	12/06/19 19:37	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFOS	88		25 - 150	12/04/19 07:00	12/06/19 19:37	1

Client Sample ID: WSG-S13-0.0-0.2-0

Lab Sample ID: 460-196259-37

Date Collected: 11/04/19 15:45

Matrix: Solid

Date Received: 11/06/19 18:40

Percent Solids: 79.7

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	0.23	U	0.23	0.049	ug/Kg	☼	11/18/19 06:37	11/30/19 10:16	1
Perfluoroheptanoic acid (PFHpA)	0.23	U	0.23	0.034	ug/Kg	☼	11/18/19 06:37	11/30/19 10:16	1
Perfluorooctanoic acid (PFOA)	0.23	U	0.23	0.10	ug/Kg	☼	11/18/19 06:37	11/30/19 10:16	1
Perfluorononanoic acid (PFNA)	0.072	J	0.23	0.042	ug/Kg	☼	11/18/19 06:37	11/30/19 10:16	1
Perfluorodecanoic acid (PFDA)	0.098	J	0.23	0.026	ug/Kg	☼	11/18/19 06:37	11/30/19 10:16	1
Perfluoroundecanoic acid (PFUnA)	0.056	J	0.23	0.042	ug/Kg	☼	11/18/19 06:37	11/30/19 10:16	1
Perfluorododecanoic acid (PFDoA)	0.23	U	0.23	0.078	ug/Kg	☼	11/18/19 06:37	11/30/19 10:16	1
Perfluorotridecanoic acid (PFTriA)	0.23	U	0.23	0.059	ug/Kg	☼	11/18/19 06:37	11/30/19 10:16	1
Perfluorotetradecanoic acid (PFTeA)	0.23	U	0.23	0.063	ug/Kg	☼	11/18/19 06:37	11/30/19 10:16	1
Perfluorobutanesulfonic acid (PFBS)	0.23	U	0.23	0.029	ug/Kg	☼	11/18/19 06:37	11/30/19 10:16	1
Perfluorohexanesulfonic acid (PFHxS)	0.23	U	0.23	0.036	ug/Kg	☼	11/18/19 06:37	11/30/19 10:16	1
Perfluorooctanesulfonic acid (PFOS)	0.96	B	0.58	0.23	ug/Kg	☼	11/18/19 06:37	11/30/19 10:16	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.33	U	2.33	0.43	ug/Kg	☼	11/18/19 06:37	11/30/19 10:16	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.33	U	2.33	0.45	ug/Kg	☼	11/18/19 06:37	11/30/19 10:16	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFHxA	95		25 - 150	11/18/19 06:37	11/30/19 10:16	1
13C4 PFHpA	107		25 - 150	11/18/19 06:37	11/30/19 10:16	1
13C4 PFOA	102		25 - 150	11/18/19 06:37	11/30/19 10:16	1
13C5 PFNA	100		25 - 150	11/18/19 06:37	11/30/19 10:16	1
13C2 PFDA	100		25 - 150	11/18/19 06:37	11/30/19 10:16	1
13C2 PFUnA	98		25 - 150	11/18/19 06:37	11/30/19 10:16	1
13C2 PFDoA	102		25 - 150	11/18/19 06:37	11/30/19 10:16	1
13C2 PFTeA	108		25 - 150	11/18/19 06:37	11/30/19 10:16	1
18O2 PFHxS	113		25 - 150	11/18/19 06:37	11/30/19 10:16	1
13C4 PFOS	99		25 - 150	11/18/19 06:37	11/30/19 10:16	1
d3-NMeFOSAA	59		25 - 150	11/18/19 06:37	11/30/19 10:16	1
d5-NEtFOSAA	65		25 - 150	11/18/19 06:37	11/30/19 10:16	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196259-1

Client Sample ID: WSG-S13-0.0-0.2-0

Lab Sample ID: 460-196259-37

Date Collected: 11/04/19 15:45

Matrix: Solid

Date Received: 11/06/19 18:40

Percent Solids: 79.7

Method: 537 (modified) - Fluorinated Alkyl Substances - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	0.63	H	0.59	0.24	ug/Kg	☼	12/04/19 07:00	12/06/19 19:45	1
<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
¹³ C4 PFOS	91		25 - 150				12/04/19 07:00	12/06/19 19:45	1

Client Sample ID: WSG-S13-0.5-2.0-0

Lab Sample ID: 460-196259-38

Date Collected: 11/04/19 15:55

Matrix: Solid

Date Received: 11/06/19 18:40

Percent Solids: 81.2

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	0.24	U	0.24	0.050	ug/Kg	☼	11/18/19 06:37	11/30/19 10:46	1
Perfluoroheptanoic acid (PFHpA)	0.045	J B	0.24	0.034	ug/Kg	☼	11/18/19 06:37	11/30/19 10:46	1
Perfluorooctanoic acid (PFOA)	0.11	J	0.24	0.10	ug/Kg	☼	11/18/19 06:37	11/30/19 10:46	1
Perfluorononanoic acid (PFNA)	0.072	J	0.24	0.043	ug/Kg	☼	11/18/19 06:37	11/30/19 10:46	1
Perfluorodecanoic acid (PFDA)	0.24	U	0.24	0.026	ug/Kg	☼	11/18/19 06:37	11/30/19 10:46	1
Perfluoroundecanoic acid (PFUnA)	0.060	J	0.24	0.043	ug/Kg	☼	11/18/19 06:37	11/30/19 10:46	1
Perfluorododecanoic acid (PFDoA)	0.24	U	0.24	0.080	ug/Kg	☼	11/18/19 06:37	11/30/19 10:46	1
Perfluorotridecanoic acid (PFTriA)	0.24	U	0.24	0.061	ug/Kg	☼	11/18/19 06:37	11/30/19 10:46	1
Perfluorotetradecanoic acid (PFTeA)	0.24	U	0.24	0.064	ug/Kg	☼	11/18/19 06:37	11/30/19 10:46	1
Perfluorobutanesulfonic acid (PFBS)	0.24	U	0.24	0.030	ug/Kg	☼	11/18/19 06:37	11/30/19 10:46	1
Perfluorohexanesulfonic acid (PFHxS)	0.24	U	0.24	0.037	ug/Kg	☼	11/18/19 06:37	11/30/19 10:46	1
Perfluorooctanesulfonic acid (PFOS)	0.58	J B	0.59	0.24	ug/Kg	☼	11/18/19 06:37	11/30/19 10:46	1
N-ethylperfluorooctanesulfonamidoacetic acid (NETFOSAA)	2.38	U	2.38	0.44	ug/Kg	☼	11/18/19 06:37	11/30/19 10:46	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.38	U	2.38	0.46	ug/Kg	☼	11/18/19 06:37	11/30/19 10:46	1
<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
¹³ C2 PFHxA	96		25 - 150				11/18/19 06:37	11/30/19 10:46	1
¹³ C4 PFHpA	105		25 - 150				11/18/19 06:37	11/30/19 10:46	1
¹³ C4 PFOA	103		25 - 150				11/18/19 06:37	11/30/19 10:46	1
¹³ C5 PFNA	106		25 - 150				11/18/19 06:37	11/30/19 10:46	1
¹³ C2 PFDA	100		25 - 150				11/18/19 06:37	11/30/19 10:46	1
¹³ C2 PFUnA	110		25 - 150				11/18/19 06:37	11/30/19 10:46	1
¹³ C2 PFDoA	106		25 - 150				11/18/19 06:37	11/30/19 10:46	1
¹³ C2 PFTeA	105		25 - 150				11/18/19 06:37	11/30/19 10:46	1
¹⁸ O2 PFHxS	113		25 - 150				11/18/19 06:37	11/30/19 10:46	1
¹³ C4 PFOS	105		25 - 150				11/18/19 06:37	11/30/19 10:46	1
d3-NMeFOSAA	79		25 - 150				11/18/19 06:37	11/30/19 10:46	1
d5-NEtFOSAA	81		25 - 150				11/18/19 06:37	11/30/19 10:46	1

Client Sample ID: WSG-GW7-6-0

Lab Sample ID: 460-196259-39

Date Collected: 11/05/19 11:45

Matrix: Water

Date Received: 11/06/19 18:40

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			11/17/19 03:58	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196259-1

Client Sample ID: WSG-GW7-6-0

Lab Sample ID: 460-196259-39

Date Collected: 11/05/19 11:45

Matrix: Water

Date Received: 11/06/19 18:40

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.37	ug/L			11/17/19 03:58	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			11/17/19 03:58	1
1,1,2-Trichloroethane	1.0	U	1.0	0.43	ug/L			11/17/19 03:58	1
1,1-Dichloroethane	1.0	U	1.0	0.26	ug/L			11/17/19 03:58	1
1,1-Dichloroethene	1.0	U	1.0	0.26	ug/L			11/17/19 03:58	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.37	ug/L			11/17/19 03:58	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.38	ug/L			11/17/19 03:58	1
1,2-Dichlorobenzene	1.0	U	1.0	0.43	ug/L			11/17/19 03:58	1
1,2-Dichloroethane	1.0	U	1.0	0.43	ug/L			11/17/19 03:58	1
1,2-Dichloropropane	1.0	U	1.0	0.35	ug/L			11/17/19 03:58	1
1,3-Dichlorobenzene	1.0	U	1.0	0.34	ug/L			11/17/19 03:58	1
1,4-Dichlorobenzene	1.0	U	1.0	0.33	ug/L			11/17/19 03:58	1
2-Butanone (MEK)	5.0	U	5.0	1.9	ug/L			11/17/19 03:58	1
2-Hexanone	5.0	U	5.0	1.1	ug/L			11/17/19 03:58	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	1.3	ug/L			11/17/19 03:58	1
Acetone	5.0	U	5.0	4.4	ug/L			11/17/19 03:58	1
Benzene	1.0	U	1.0	0.20	ug/L			11/17/19 03:58	1
Bromoform	1.0	U	1.0	0.54	ug/L			11/17/19 03:58	1
Bromomethane	1.0	U	1.0	0.55	ug/L			11/17/19 03:58	1
Carbon disulfide	1.0	U	1.0	0.82	ug/L			11/17/19 03:58	1
Carbon tetrachloride	1.0	U	1.0	0.21	ug/L			11/17/19 03:58	1
Chlorobenzene	1.0	U	1.0	0.38	ug/L			11/17/19 03:58	1
Chlorodibromomethane	1.0	U	1.0	0.28	ug/L			11/17/19 03:58	1
Chloroethane	1.0	U	1.0	0.32	ug/L			11/17/19 03:58	1
Chloroform	1.0	U	1.0	0.33	ug/L			11/17/19 03:58	1
Chloromethane	1.0	U	1.0	0.40	ug/L			11/17/19 03:58	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.22	ug/L			11/17/19 03:58	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.22	ug/L			11/17/19 03:58	1
Cyclohexane	1.0	U	1.0	0.32	ug/L			11/17/19 03:58	1
Dichlorobromomethane	1.0	U	1.0	0.34	ug/L			11/17/19 03:58	1
Dichlorodifluoromethane	1.0	U	1.0	0.31	ug/L			11/17/19 03:58	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			11/17/19 03:58	1
Ethylene Dibromide	1.0	U	1.0	0.50	ug/L			11/17/19 03:58	1
Isopropylbenzene	1.0	U	1.0	0.34	ug/L			11/17/19 03:58	1
Methyl acetate	5.0	U	5.0	0.79	ug/L			11/17/19 03:58	1
Methyl tert-butyl ether	1.0	U	1.0	0.47	ug/L			11/17/19 03:58	1
Methylcyclohexane	1.0	U	1.0	0.26	ug/L			11/17/19 03:58	1
Methylene Chloride	1.0	U	1.0	0.32	ug/L			11/17/19 03:58	1
Styrene	1.0	U	1.0	0.42	ug/L			11/17/19 03:58	1
Tetrachloroethene	1.0	U	1.0	0.25	ug/L			11/17/19 03:58	1
Toluene	1.0	U	1.0	0.38	ug/L			11/17/19 03:58	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			11/17/19 03:58	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.49	ug/L			11/17/19 03:58	1
Trichloroethene	1.0	U	1.0	0.31	ug/L			11/17/19 03:58	1
Trichlorofluoromethane	1.0	U	1.0	0.32	ug/L			11/17/19 03:58	1
Vinyl chloride	1.0	U	1.0	0.17	ug/L			11/17/19 03:58	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			11/17/19 03:58	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196259-1

Client Sample ID: WSG-GW7-6-0

Lab Sample ID: 460-196259-39

Date Collected: 11/05/19 11:45

Matrix: Water

Date Received: 11/06/19 18:40

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		74 - 132		11/17/19 03:58	1
4-Bromofluorobenzene	95		77 - 124		11/17/19 03:58	1
Dibromofluoromethane (Surr)	91		72 - 131		11/17/19 03:58	1
Toluene-d8 (Surr)	104		80 - 120		11/17/19 03:58	1

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.40	U	0.40	0.17	ug/L		11/12/19 09:33	11/13/19 15:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	84		38 - 125	11/12/19 09:33	11/13/19 15:53	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	10	U	10	1.2	ug/L		11/12/19 09:33	11/13/19 00:02	1
2,2'-oxybis[1-chloropropane]	10	U	10	0.63	ug/L		11/12/19 09:33	11/13/19 00:02	1
2,4,5-Trichlorophenol	10	U	10	0.88	ug/L		11/12/19 09:33	11/13/19 00:02	1
2,4,6-Trichlorophenol	10	U	10	0.86	ug/L		11/12/19 09:33	11/13/19 00:02	1
2,4-Dichlorophenol	10	U	10	1.1	ug/L		11/12/19 09:33	11/13/19 00:02	1
2,4-Dimethylphenol	10	U	10	0.62	ug/L		11/12/19 09:33	11/13/19 00:02	1
2,4-Dinitrophenol	20	U	20	14	ug/L		11/12/19 09:33	11/13/19 00:02	1
2,4-Dinitrotoluene	2.0	U	2.0	1.0	ug/L		11/12/19 09:33	11/13/19 00:02	1
2,6-Dinitrotoluene	2.0	U	2.0	0.83	ug/L		11/12/19 09:33	11/13/19 00:02	1
2-Chloronaphthalene	10	U	10	1.2	ug/L		11/12/19 09:33	11/13/19 00:02	1
2-Chlorophenol	10	U	10	0.38	ug/L		11/12/19 09:33	11/13/19 00:02	1
2-Methylnaphthalene	10	U	10	1.1	ug/L		11/12/19 09:33	11/13/19 00:02	1
2-Methylphenol	10	U	10	0.67	ug/L		11/12/19 09:33	11/13/19 00:02	1
2-Nitroaniline	10	U	10	0.47	ug/L		11/12/19 09:33	11/13/19 00:02	1
2-Nitrophenol	10	U	10	0.75	ug/L		11/12/19 09:33	11/13/19 00:02	1
3,3'-Dichlorobenzidine	10	U	10	1.4	ug/L		11/12/19 09:33	11/13/19 00:02	1
3-Nitroaniline	10	U	10	1.9	ug/L		11/12/19 09:33	11/13/19 00:02	1
4,6-Dinitro-2-methylphenol	20	U	20	13	ug/L		11/12/19 09:33	11/13/19 00:02	1
4-Bromophenyl phenyl ether	10	U	10	0.75	ug/L		11/12/19 09:33	11/13/19 00:02	1
4-Chloro-3-methylphenol	10	U	10	0.58	ug/L		11/12/19 09:33	11/13/19 00:02	1
4-Chloroaniline	10	U	10	1.9	ug/L		11/12/19 09:33	11/13/19 00:02	1
4-Chlorophenyl phenyl ether	10	U	10	1.3	ug/L		11/12/19 09:33	11/13/19 00:02	1
4-Methylphenol	10	U	10	0.65	ug/L		11/12/19 09:33	11/13/19 00:02	1
4-Nitroaniline	10	U	10	1.2	ug/L		11/12/19 09:33	11/13/19 00:02	1
4-Nitrophenol	20	U	20	4.0	ug/L		11/12/19 09:33	11/13/19 00:02	1
Acenaphthene	10	U	10	1.1	ug/L		11/12/19 09:33	11/13/19 00:02	1
Acenaphthylene	10	U	10	0.82	ug/L		11/12/19 09:33	11/13/19 00:02	1
Acetophenone	10	U	10	2.3	ug/L		11/12/19 09:33	11/13/19 00:02	1
Anthracene	10	U	10	0.63	ug/L		11/12/19 09:33	11/13/19 00:02	1
Atrazine	2.0	U *	2.0	1.3	ug/L		11/12/19 09:33	11/13/19 00:02	1
Benzaldehyde	10	U	10	2.1	ug/L		11/12/19 09:33	11/13/19 00:02	1
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		11/12/19 09:33	11/13/19 00:02	1
Benzo[a]pyrene	1.0	U	1.0	0.41	ug/L		11/12/19 09:33	11/13/19 00:02	1
Benzo[b]fluoranthene	2.0	U	2.0	0.68	ug/L		11/12/19 09:33	11/13/19 00:02	1
Benzo[g,h,i]perylene	10	U	10	1.4	ug/L		11/12/19 09:33	11/13/19 00:02	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		11/12/19 09:33	11/13/19 00:02	1

Eurofins TestAmerica, Edison

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196259-1

Client Sample ID: WSG-GW7-6-0

Lab Sample ID: 460-196259-39

Date Collected: 11/05/19 11:45

Matrix: Water

Date Received: 11/06/19 18:40

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-chloroethoxy)methane	10	U	10	0.59	ug/L		11/12/19 09:33	11/13/19 00:02	1
Bis(2-chloroethyl)ether	1.0	U	1.0	0.63	ug/L		11/12/19 09:33	11/13/19 00:02	1
Bis(2-ethylhexyl) phthalate	2.0	U	2.0	1.7	ug/L		11/12/19 09:33	11/13/19 00:02	1
Butyl benzyl phthalate	10	U	10	0.85	ug/L		11/12/19 09:33	11/13/19 00:02	1
Caprolactam	10	U *	10	0.68	ug/L		11/12/19 09:33	11/13/19 00:02	1
Carbazole	10	U	10	0.68	ug/L		11/12/19 09:33	11/13/19 00:02	1
Chrysene	2.0	U	2.0	0.91	ug/L		11/12/19 09:33	11/13/19 00:02	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		11/12/19 09:33	11/13/19 00:02	1
Dibenzofuran	10	U	10	1.1	ug/L		11/12/19 09:33	11/13/19 00:02	1
Diethyl phthalate	10	U	10	0.98	ug/L		11/12/19 09:33	11/13/19 00:02	1
Dimethyl phthalate	10	U	10	0.77	ug/L		11/12/19 09:33	11/13/19 00:02	1
Di-n-butyl phthalate	10	U	10	0.84	ug/L		11/12/19 09:33	11/13/19 00:02	1
Di-n-octyl phthalate	10	U	10	4.8	ug/L		11/12/19 09:33	11/13/19 00:02	1
Fluoranthene	10	U	10	0.84	ug/L		11/12/19 09:33	11/13/19 00:02	1
Fluorene	10	U	10	0.91	ug/L		11/12/19 09:33	11/13/19 00:02	1
Hexachlorobenzene	1.0	U	1.0	0.40	ug/L		11/12/19 09:33	11/13/19 00:02	1
Hexachlorobutadiene	1.0	U	1.0	0.78	ug/L		11/12/19 09:33	11/13/19 00:02	1
Hexachlorocyclopentadiene	10	U	10	3.6	ug/L		11/12/19 09:33	11/13/19 00:02	1
Hexachloroethane	2.0	U	2.0	0.80	ug/L		11/12/19 09:33	11/13/19 00:02	1
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	0.94	ug/L		11/12/19 09:33	11/13/19 00:02	1
Isophorone	10	U	10	0.80	ug/L		11/12/19 09:33	11/13/19 00:02	1
Naphthalene	10	U	10	1.1	ug/L		11/12/19 09:33	11/13/19 00:02	1
Nitrobenzene	1.0	U	1.0	0.57	ug/L		11/12/19 09:33	11/13/19 00:02	1
N-Nitrosodi-n-propylamine	1.0	U	1.0	0.43	ug/L		11/12/19 09:33	11/13/19 00:02	1
N-Nitrosodiphenylamine	10	U	10	0.89	ug/L		11/12/19 09:33	11/13/19 00:02	1
Pentachlorophenol	20	U	20	1.4	ug/L		11/12/19 09:33	11/13/19 00:02	1
Phenanthrene	10	U	10	0.58	ug/L		11/12/19 09:33	11/13/19 00:02	1
Phenol	10	U	10	0.29	ug/L		11/12/19 09:33	11/13/19 00:02	1
Pyrene	10	U	10	1.6	ug/L		11/12/19 09:33	11/13/19 00:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	90		26 - 139	11/12/19 09:33	11/13/19 00:02	1
2-Fluorobiphenyl	73		45 - 107	11/12/19 09:33	11/13/19 00:02	1
2-Fluorophenol (Surr)	36		25 - 58	11/12/19 09:33	11/13/19 00:02	1
Nitrobenzene-d5 (Surr)	78		51 - 108	11/12/19 09:33	11/13/19 00:02	1
Phenol-d5 (Surr)	24		14 - 39	11/12/19 09:33	11/13/19 00:02	1
Terphenyl-d14 (Surr)	76		40 - 148	11/12/19 09:33	11/13/19 00:02	1

Method: 608.3 - Organochlorine Pesticides/PCBs in Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.020	U	0.020	0.012	ug/L		11/12/19 16:57	11/18/19 11:06	1
alpha-BHC	0.020	U	0.020	0.013	ug/L		11/12/19 16:57	11/18/19 11:06	1
beta-BHC	0.030	U	0.030	0.015	ug/L		11/12/19 16:57	11/18/19 11:06	1
delta-BHC	0.020	U	0.020	0.0090	ug/L		11/12/19 16:57	11/18/19 11:06	1
gamma-BHC (Lindane)	0.030	U	0.030	0.013	ug/L		11/12/19 16:57	11/18/19 11:06	1
Chlordane	0.50	U	0.50	0.093	ug/L		11/12/19 16:57	11/18/19 11:06	1
4,4'-DDD	0.040	U	0.040	0.018	ug/L		11/12/19 16:57	11/18/19 11:06	1
4,4'-DDE	0.030	U	0.030	0.018	ug/L		11/12/19 16:57	11/18/19 11:06	1
4,4'-DDT	0.030	U	0.030	0.025	ug/L		11/12/19 16:57	11/18/19 11:06	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196259-1

Client Sample ID: WSG-GW7-6-0

Lab Sample ID: 460-196259-39

Date Collected: 11/05/19 11:45

Matrix: Water

Date Received: 11/06/19 18:40

Method: 608.3 - Organochlorine Pesticides/PCBs in Water (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dieldrin	0.020	U	0.020	0.016	ug/L		11/12/19 16:57	11/18/19 11:06	1
Endosulfan I	0.030	U	0.030	0.014	ug/L		11/12/19 16:57	11/18/19 11:06	1
Endosulfan II	0.030	U	0.030	0.017	ug/L		11/12/19 16:57	11/18/19 11:06	1
Endosulfan sulfate	0.030	U *	0.030	0.015	ug/L		11/12/19 16:57	11/18/19 11:06	1
Endrin	0.030	U *	0.030	0.021	ug/L		11/12/19 16:57	11/18/19 11:06	1
Endrin aldehyde	0.030	U	0.030	0.024	ug/L		11/12/19 16:57	11/18/19 11:06	1
Endrin ketone	0.030	U	0.030	0.013	ug/L		11/12/19 16:57	11/18/19 11:06	1
Heptachlor	0.030	U	0.030	0.014	ug/L		11/12/19 16:57	11/18/19 11:06	1
Heptachlor epoxide	0.030	U	0.030	0.014	ug/L		11/12/19 16:57	11/18/19 11:06	1
Methoxychlor	0.030	U	0.030	0.030	ug/L		11/12/19 16:57	11/18/19 11:06	1
Toxaphene	0.50	U	0.50	0.20	ug/L		11/12/19 16:57	11/18/19 11:06	1
Aroclor 1016	1.0	U	1.0	0.030	ug/L		11/12/19 16:57	11/18/19 11:06	1
Aroclor 1221	1.0	U	1.0	0.030	ug/L		11/12/19 16:57	11/18/19 11:06	1
Aroclor 1232	1.0	U	1.0	0.030	ug/L		11/12/19 16:57	11/18/19 11:06	1
Aroclor 1242	1.0	U	1.0	0.030	ug/L		11/12/19 16:57	11/18/19 11:06	1
Aroclor 1248	1.0	U	1.0	0.030	ug/L		11/12/19 16:57	11/18/19 11:06	1
Aroclor 1254	1.0	U	1.0	0.037	ug/L		11/12/19 16:57	11/18/19 11:06	1
Aroclor 1260	1.0	U	1.0	0.037	ug/L		11/12/19 16:57	11/18/19 11:06	1
Aroclor 1262	1.0	U	1.0	0.037	ug/L		11/12/19 16:57	11/18/19 11:06	1
Aroclor 1268	1.0	U	1.0	0.037	ug/L		11/12/19 16:57	11/18/19 11:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	70		10 - 150	11/12/19 16:57	11/18/19 11:06	1
Tetrachloro-m-xylene	76		10 - 150	11/12/19 16:57	11/18/19 11:06	1
DCB Decachlorobiphenyl	55		10 - 150	11/12/19 16:57	11/18/19 11:06	1
DCB Decachlorobiphenyl	58		10 - 150	11/12/19 16:57	11/18/19 11:06	1

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	1.2	U	1.2	0.13	ug/L		11/12/19 19:55	11/13/19 17:09	1
Silvex (2,4,5-TP)	1.2	U	1.2	0.11	ug/L		11/12/19 19:55	11/13/19 17:09	1
2,4,5-T	1.2	U	1.2	0.12	ug/L		11/12/19 19:55	11/13/19 17:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	83		54 - 150	11/12/19 19:55	11/13/19 17:09	1
2,4-Dichlorophenylacetic acid	88		54 - 150	11/12/19 19:55	11/13/19 17:09	1

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	4.55		1.83	0.53	ng/L		11/14/19 05:21	11/15/19 21:25	1
Perfluoroheptanoic acid (PFHpA)	5.10		1.83	0.23	ng/L		11/14/19 05:21	11/15/19 21:25	1
Perfluorooctanoic acid (PFOA)	13.4		1.83	0.78	ng/L		11/14/19 05:21	11/15/19 21:25	1
Perfluorononanoic acid (PFNA)	2.84		1.83	0.25	ng/L		11/14/19 05:21	11/15/19 21:25	1
Perfluorodecanoic acid (PFDA)	2.21		1.83	0.28	ng/L		11/14/19 05:21	11/15/19 21:25	1
Perfluoroundecanoic acid (PFUnA)	1.83	U	1.83	1.01	ng/L		11/14/19 05:21	11/15/19 21:25	1
Perfluorododecanoic acid (PFDoA)	1.83	U	1.83	0.50	ng/L		11/14/19 05:21	11/15/19 21:25	1
Perfluorotridecanoic acid (PFTriA)	1.83	U *	1.83	1.19	ng/L		11/14/19 05:21	11/15/19 21:25	1
Perfluorotetradecanoic acid (PFTeA)	0.34	J B	1.83	0.26	ng/L		11/14/19 05:21	11/15/19 21:25	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196259-1

Client Sample ID: WSG-GW7-6-0

Lab Sample ID: 460-196259-39

Date Collected: 11/05/19 11:45

Matrix: Water

Date Received: 11/06/19 18:40

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanesulfonic acid (PFBS)	0.69	J	1.83	0.18	ng/L		11/14/19 05:21	11/15/19 21:25	1
Perfluorohexanesulfonic acid (PFHxS)	7.84	B	1.83	0.16	ng/L		11/14/19 05:21	11/15/19 21:25	1
Perfluorooctanesulfonic acid (PFOS)	22.5		1.83	0.49	ng/L		11/14/19 05:21	11/15/19 21:25	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	18.3	U	18.3	1.74	ng/L		11/14/19 05:21	11/15/19 21:25	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	18.3	U	18.3	2.83	ng/L		11/14/19 05:21	11/15/19 21:25	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C2 PFHxA	96		25 - 150				11/14/19 05:21	11/15/19 21:25	1
13C4 PFHpA	100		25 - 150				11/14/19 05:21	11/15/19 21:25	1
13C4 PFOA	113		25 - 150				11/14/19 05:21	11/15/19 21:25	1
13C5 PFNA	112		25 - 150				11/14/19 05:21	11/15/19 21:25	1
13C2 PFDA	106		25 - 150				11/14/19 05:21	11/15/19 21:25	1
13C2 PFUnA	99		25 - 150				11/14/19 05:21	11/15/19 21:25	1
13C2 PFDoA	105		25 - 150				11/14/19 05:21	11/15/19 21:25	1
13C2 PFTeDA	87		25 - 150				11/14/19 05:21	11/15/19 21:25	1
18O2 PFHxS	108		25 - 150				11/14/19 05:21	11/15/19 21:25	1
13C4 PFOS	100		25 - 150				11/14/19 05:21	11/15/19 21:25	1
d3-NMeFOSAA	106		25 - 150				11/14/19 05:21	11/15/19 21:25	1
d5-NEtFOSAA	113		25 - 150				11/14/19 05:21	11/15/19 21:25	1

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	654		150	34.2	ug/L		11/18/19 12:57	11/18/19 19:41	1
Silver	10.0	U	10.0	1.1	ug/L		11/18/19 12:57	11/18/19 19:41	1
Aluminum	310		200	28.6	ug/L		11/18/19 12:57	11/18/19 19:41	1
Arsenic	15.0	U	15.0	2.7	ug/L		11/18/19 12:57	11/18/19 19:41	1
Boron	75.6		50.0	12.7	ug/L		11/18/19 12:57	11/18/19 19:41	1
Barium	10.2	J	200	7.7	ug/L		11/18/19 12:57	11/18/19 19:41	1
Beryllium	2.0	U	2.0	0.23	ug/L		11/18/19 12:57	11/18/19 19:41	1
Calcium	27700		5000	222	ug/L		11/18/19 12:57	11/18/19 19:41	1
Cadmium	4.0	U	4.0	0.22	ug/L		11/18/19 12:57	11/18/19 19:41	1
Cobalt	50.0	U	50.0	1.7	ug/L		11/18/19 12:57	11/18/19 19:41	1
Chromium	10.5		10.0	1.3	ug/L		11/18/19 12:57	11/18/19 19:41	1
Copper	25.0	U	25.0	5.1	ug/L		11/18/19 12:57	11/18/19 19:41	1
Potassium	38100		5000	323	ug/L		11/18/19 12:57	11/18/19 19:41	1
Magnesium	1370	J	5000	177	ug/L		11/18/19 12:57	11/18/19 19:41	1
Manganese	65.3		15.0	0.99	ug/L		11/18/19 12:57	11/18/19 19:41	1
Molybdenum	18.4	J	20.0	3.3	ug/L		11/18/19 12:57	11/18/19 19:41	1
Sodium	20400		5000	460	ug/L		11/18/19 12:57	11/18/19 19:41	1
Nickel	4.5	J	40.0	1.7	ug/L		11/18/19 12:57	11/18/19 19:41	1
Lead	10.0	U	10.0	2.5	ug/L		11/18/19 12:57	11/18/19 19:41	1
Antimony	20.0	U	20.0	2.9	ug/L		11/18/19 12:57	11/18/19 19:41	1
Selenium	20.0	U	20.0	6.6	ug/L		11/18/19 12:57	11/18/19 19:41	1
Tin	50.0	U	50.0	2.4	ug/L		11/18/19 12:57	11/18/19 19:41	1
Strontium	375		20.0	0.70	ug/L		11/18/19 12:57	11/18/19 19:41	1
Titanium	5.1	J	20.0	2.0	ug/L		11/18/19 12:57	11/18/19 19:41	1

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Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196259-1

Client Sample ID: WSG-GW7-6-0

Lab Sample ID: 460-196259-39

Date Collected: 11/05/19 11:45

Matrix: Water

Date Received: 11/06/19 18:40

Method: 6010D - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	20.0	U	20.0	5.4	ug/L		11/18/19 12:57	11/18/19 19:41	1
Vanadium	3.8	J	50.0	2.5	ug/L		11/18/19 12:57	11/18/19 19:41	1
Zinc	15.7	J	30.0	3.6	ug/L		11/18/19 12:57	11/18/19 19:41	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.12	ug/L		11/18/19 12:09	11/18/19 14:24	1

Client Sample ID: WSG-GW7-15-0

Lab Sample ID: 460-196259-40

Date Collected: 11/05/19 10:45

Matrix: Water

Date Received: 11/06/19 18:40

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	1.29	J	1.83	0.53	ng/L		11/14/19 05:21	11/15/19 21:35	1
Perfluoroheptanoic acid (PFHpA)	0.54	J	1.83	0.23	ng/L		11/14/19 05:21	11/15/19 21:35	1
Perfluorooctanoic acid (PFOA)	2.41		1.83	0.78	ng/L		11/14/19 05:21	11/15/19 21:35	1
Perfluorononanoic acid (PFNA)	0.25	J	1.83	0.25	ng/L		11/14/19 05:21	11/15/19 21:35	1
Perfluorodecanoic acid (PFDA)	1.83	U	1.83	0.28	ng/L		11/14/19 05:21	11/15/19 21:35	1
Perfluoroundecanoic acid (PFUnA)	1.83	U	1.83	1.00	ng/L		11/14/19 05:21	11/15/19 21:35	1
Perfluorododecanoic acid (PFDoA)	1.83	U	1.83	0.50	ng/L		11/14/19 05:21	11/15/19 21:35	1
Perfluorotridecanoic acid (PFTriA)	1.83	U *	1.83	1.19	ng/L		11/14/19 05:21	11/15/19 21:35	1
Perfluorotetradecanoic acid (PFTeA)	1.83	U	1.83	0.26	ng/L		11/14/19 05:21	11/15/19 21:35	1
Perfluorobutanesulfonic acid (PFBS)	2.00		1.83	0.18	ng/L		11/14/19 05:21	11/15/19 21:35	1
Perfluorohexanesulfonic acid (PFHxS)	29.9	B	1.83	0.16	ng/L		11/14/19 05:21	11/15/19 21:35	1
Perfluorooctanesulfonic acid (PFOS)	24.0		1.83	0.49	ng/L		11/14/19 05:21	11/15/19 21:35	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	18.3	U	18.3	1.73	ng/L		11/14/19 05:21	11/15/19 21:35	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	18.3	U	18.3	2.83	ng/L		11/14/19 05:21	11/15/19 21:35	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C2 PFHxA	97		25 - 150				11/14/19 05:21	11/15/19 21:35	1
13C4 PFHpA	101		25 - 150				11/14/19 05:21	11/15/19 21:35	1
13C4 PFOA	105		25 - 150				11/14/19 05:21	11/15/19 21:35	1
13C5 PFNA	93		25 - 150				11/14/19 05:21	11/15/19 21:35	1
13C2 PFDA	110		25 - 150				11/14/19 05:21	11/15/19 21:35	1
13C2 PFUnA	103		25 - 150				11/14/19 05:21	11/15/19 21:35	1
13C2 PFDoA	106		25 - 150				11/14/19 05:21	11/15/19 21:35	1
13C2 PFTeDA	90		25 - 150				11/14/19 05:21	11/15/19 21:35	1
18O2 PFHxS	100		25 - 150				11/14/19 05:21	11/15/19 21:35	1
13C4 PFOS	96		25 - 150				11/14/19 05:21	11/15/19 21:35	1
d3-NMeFOSAA	89		25 - 150				11/14/19 05:21	11/15/19 21:35	1
d5-NEtFOSAA	96		25 - 150				11/14/19 05:21	11/15/19 21:35	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196259-1

Client Sample ID: WSG-TB-20191106

Lab Sample ID: 460-196259-42

Date Collected: 11/06/19 00:00

Matrix: Water

Date Received: 11/06/19 18:40

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			11/16/19 01:39	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.37	ug/L			11/16/19 01:39	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			11/16/19 01:39	1
1,1,2-Trichloroethane	1.0	U	1.0	0.43	ug/L			11/16/19 01:39	1
1,1-Dichloroethane	1.0	U	1.0	0.26	ug/L			11/16/19 01:39	1
1,1-Dichloroethene	1.0	U	1.0	0.26	ug/L			11/16/19 01:39	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.37	ug/L			11/16/19 01:39	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.38	ug/L			11/16/19 01:39	1
1,2-Dichlorobenzene	1.0	U	1.0	0.43	ug/L			11/16/19 01:39	1
1,2-Dichloroethane	1.0	U	1.0	0.43	ug/L			11/16/19 01:39	1
1,2-Dichloropropane	1.0	U	1.0	0.35	ug/L			11/16/19 01:39	1
1,3-Dichlorobenzene	1.0	U	1.0	0.34	ug/L			11/16/19 01:39	1
1,4-Dichlorobenzene	1.0	U	1.0	0.33	ug/L			11/16/19 01:39	1
2-Butanone (MEK)	5.0	U	5.0	1.9	ug/L			11/16/19 01:39	1
2-Hexanone	5.0	U	5.0	1.1	ug/L			11/16/19 01:39	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	1.3	ug/L			11/16/19 01:39	1
Acetone	5.0	U	5.0	4.4	ug/L			11/16/19 01:39	1
Benzene	1.0	U	1.0	0.20	ug/L			11/16/19 01:39	1
Bromoform	1.0	U	1.0	0.54	ug/L			11/16/19 01:39	1
Bromomethane	1.0	U	1.0	0.55	ug/L			11/16/19 01:39	1
Carbon disulfide	1.0	U	1.0	0.82	ug/L			11/16/19 01:39	1
Carbon tetrachloride	1.0	U	1.0	0.21	ug/L			11/16/19 01:39	1
Chlorobenzene	1.0	U	1.0	0.38	ug/L			11/16/19 01:39	1
Chlorodibromomethane	1.0	U	1.0	0.28	ug/L			11/16/19 01:39	1
Chloroethane	1.0	U	1.0	0.32	ug/L			11/16/19 01:39	1
Chloroform	1.0	U	1.0	0.33	ug/L			11/16/19 01:39	1
Chloromethane	1.0	U	1.0	0.40	ug/L			11/16/19 01:39	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.22	ug/L			11/16/19 01:39	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.22	ug/L			11/16/19 01:39	1
Cyclohexane	1.0	U	1.0	0.32	ug/L			11/16/19 01:39	1
Dichlorobromomethane	1.0	U	1.0	0.34	ug/L			11/16/19 01:39	1
Dichlorodifluoromethane	1.0	U	1.0	0.31	ug/L			11/16/19 01:39	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			11/16/19 01:39	1
Ethylene Dibromide	1.0	U	1.0	0.50	ug/L			11/16/19 01:39	1
Isopropylbenzene	1.0	U	1.0	0.34	ug/L			11/16/19 01:39	1
Methyl acetate	5.0	U	5.0	0.79	ug/L			11/16/19 01:39	1
Methyl tert-butyl ether	1.0	U	1.0	0.47	ug/L			11/16/19 01:39	1
Methylcyclohexane	1.0	U	1.0	0.26	ug/L			11/16/19 01:39	1
Methylene Chloride	1.0	U	1.0	0.32	ug/L			11/16/19 01:39	1
Styrene	1.0	U	1.0	0.42	ug/L			11/16/19 01:39	1
Tetrachloroethene	1.0	U	1.0	0.25	ug/L			11/16/19 01:39	1
Toluene	1.0	U	1.0	0.38	ug/L			11/16/19 01:39	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			11/16/19 01:39	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.49	ug/L			11/16/19 01:39	1
Trichloroethene	1.0	U	1.0	0.31	ug/L			11/16/19 01:39	1
Trichlorofluoromethane	1.0	U	1.0	0.32	ug/L			11/16/19 01:39	1
Vinyl chloride	1.0	U	1.0	0.17	ug/L			11/16/19 01:39	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			11/16/19 01:39	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196259-1

Client Sample ID: WSG-TB-20191106

Lab Sample ID: 460-196259-42

Date Collected: 11/06/19 00:00

Matrix: Water

Date Received: 11/06/19 18:40

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		74 - 132		11/16/19 01:39	1
4-Bromofluorobenzene	90		77 - 124		11/16/19 01:39	1
Dibromofluoromethane (Surr)	95		72 - 131		11/16/19 01:39	1
Toluene-d8 (Surr)	103		80 - 120		11/16/19 01:39	1

Client Sample ID: WSG-MW8-25-0

Lab Sample ID: 460-196259-43

Date Collected: 11/06/19 10:00

Matrix: Water

Date Received: 11/06/19 18:40

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	25.1		1.81	0.53	ng/L		11/14/19 05:21	11/15/19 21:44	1
Perfluoroheptanoic acid (PFHpA)	13.6		1.81	0.23	ng/L		11/14/19 05:21	11/15/19 21:44	1
Perfluorooctanoic acid (PFOA)	37.5		1.81	0.77	ng/L		11/14/19 05:21	11/15/19 21:44	1
Perfluorononanoic acid (PFNA)	4.63		1.81	0.24	ng/L		11/14/19 05:21	11/15/19 21:44	1
Perfluorodecanoic acid (PFDA)	0.47	J	1.81	0.28	ng/L		11/14/19 05:21	11/15/19 21:44	1
Perfluoroundecanoic acid (PFUnA)	1.81	U	1.81	1.0	ng/L		11/14/19 05:21	11/15/19 21:44	1
Perfluorododecanoic acid (PFDoA)	1.81	U	1.81	0.50	ng/L		11/14/19 05:21	11/15/19 21:44	1
Perfluorotridecanoic acid (PFTriA)	1.81	U *	1.81	1.18	ng/L		11/14/19 05:21	11/15/19 21:44	1
Perfluorotetradecanoic acid (PFTeA)	1.81	U	1.81	0.26	ng/L		11/14/19 05:21	11/15/19 21:44	1
Perfluorobutanesulfonic acid (PFBS)	5.16		1.81	0.18	ng/L		11/14/19 05:21	11/15/19 21:44	1
Perfluorohexanesulfonic acid (PFHxS)	26.2	B	1.81	0.15	ng/L		11/14/19 05:21	11/15/19 21:44	1
Perfluorooctanesulfonic acid (PFOS)	58.5		1.81	0.49	ng/L		11/14/19 05:21	11/15/19 21:44	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	18.1	U	18.1	1.72	ng/L		11/14/19 05:21	11/15/19 21:44	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	18.1	U	18.1	2.81	ng/L		11/14/19 05:21	11/15/19 21:44	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C2 PFHxA	94		25 - 150				11/14/19 05:21	11/15/19 21:44	1
13C4 PFHpA	98		25 - 150				11/14/19 05:21	11/15/19 21:44	1
13C4 PFOA	99		25 - 150				11/14/19 05:21	11/15/19 21:44	1
13C5 PFNA	91		25 - 150				11/14/19 05:21	11/15/19 21:44	1
13C2 PFDA	99		25 - 150				11/14/19 05:21	11/15/19 21:44	1
13C2 PFUnA	97		25 - 150				11/14/19 05:21	11/15/19 21:44	1
13C2 PFDoA	111		25 - 150				11/14/19 05:21	11/15/19 21:44	1
13C2 PFTeDA	100		25 - 150				11/14/19 05:21	11/15/19 21:44	1
18O2 PFHxS	106		25 - 150				11/14/19 05:21	11/15/19 21:44	1
13C4 PFOS	96		25 - 150				11/14/19 05:21	11/15/19 21:44	1
d3-NMeFOSAA	94		25 - 150				11/14/19 05:21	11/15/19 21:44	1
d5-NEtFOSAA	97		25 - 150				11/14/19 05:21	11/15/19 21:44	1

Client Sample ID: WSG-MW8-25-1

Lab Sample ID: 460-196259-44

Date Collected: 11/06/19 10:00

Matrix: Water

Date Received: 11/06/19 18:40

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	25.7		1.82	0.53	ng/L		11/14/19 05:21	11/15/19 21:54	1

Eurofins TestAmerica, Edison

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196259-1

Client Sample ID: WSG-MW8-25-1

Lab Sample ID: 460-196259-44

Date Collected: 11/06/19 10:00

Matrix: Water

Date Received: 11/06/19 18:40

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoroheptanoic acid (PFHpA)	12.2		1.82	0.23	ng/L		11/14/19 05:21	11/15/19 21:54	1
Perfluorooctanoic acid (PFOA)	34.1		1.82	0.78	ng/L		11/14/19 05:21	11/15/19 21:54	1
Perfluorononanoic acid (PFNA)	3.81		1.82	0.25	ng/L		11/14/19 05:21	11/15/19 21:54	1
Perfluorodecanoic acid (PFDA)	0.77	J	1.82	0.28	ng/L		11/14/19 05:21	11/15/19 21:54	1
Perfluoroundecanoic acid (PFUnA)	1.82	U	1.82	1.00	ng/L		11/14/19 05:21	11/15/19 21:54	1
Perfluorododecanoic acid (PFDoA)	1.82	U	1.82	0.50	ng/L		11/14/19 05:21	11/15/19 21:54	1
Perfluorotridecanoic acid (PFTriA)	1.82	U *	1.82	1.19	ng/L		11/14/19 05:21	11/15/19 21:54	1
Perfluorotetradecanoic acid (PFTeA)	1.82	U	1.82	0.26	ng/L		11/14/19 05:21	11/15/19 21:54	1
Perfluorobutanesulfonic acid (PFBS)	5.58		1.82	0.18	ng/L		11/14/19 05:21	11/15/19 21:54	1
Perfluorohexanesulfonic acid (PFHxS)	27.4	B	1.82	0.16	ng/L		11/14/19 05:21	11/15/19 21:54	1
Perfluorooctanesulfonic acid (PFOS)	56.4		1.82	0.49	ng/L		11/14/19 05:21	11/15/19 21:54	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	18.2	U	18.2	1.73	ng/L		11/14/19 05:21	11/15/19 21:54	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	18.2	U	18.2	2.83	ng/L		11/14/19 05:21	11/15/19 21:54	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C2 PFHxA	86		25 - 150				11/14/19 05:21	11/15/19 21:54	1
13C4 PFHpA	102		25 - 150				11/14/19 05:21	11/15/19 21:54	1
13C4 PFOA	98		25 - 150				11/14/19 05:21	11/15/19 21:54	1
13C5 PFNA	105		25 - 150				11/14/19 05:21	11/15/19 21:54	1
13C2 PFDA	81		25 - 150				11/14/19 05:21	11/15/19 21:54	1
13C2 PFUnA	109		25 - 150				11/14/19 05:21	11/15/19 21:54	1
13C2 PFDoA	97		25 - 150				11/14/19 05:21	11/15/19 21:54	1
13C2 PFTeDA	92		25 - 150				11/14/19 05:21	11/15/19 21:54	1
18O2 PFHxS	102		25 - 150				11/14/19 05:21	11/15/19 21:54	1
13C4 PFOS	98		25 - 150				11/14/19 05:21	11/15/19 21:54	1
d3-NMeFOSAA	94		25 - 150				11/14/19 05:21	11/15/19 21:54	1
d5-NEtFOSAA	96		25 - 150				11/14/19 05:21	11/15/19 21:54	1

Client Sample ID: WSG-GW5-28-0

Lab Sample ID: 460-196259-45

Date Collected: 11/06/19 10:20

Matrix: Water

Date Received: 11/06/19 18:40

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	15.9		1.90	0.55	ng/L		11/14/19 05:21	11/15/19 22:03	1
Perfluoroheptanoic acid (PFHpA)	9.45		1.90	0.24	ng/L		11/14/19 05:21	11/15/19 22:03	1
Perfluorooctanoic acid (PFOA)	11.2		1.90	0.81	ng/L		11/14/19 05:21	11/15/19 22:03	1
Perfluorononanoic acid (PFNA)	1.72	J	1.90	0.26	ng/L		11/14/19 05:21	11/15/19 22:03	1
Perfluorodecanoic acid (PFDA)	0.35	J	1.90	0.30	ng/L		11/14/19 05:21	11/15/19 22:03	1
Perfluoroundecanoic acid (PFUnA)	1.90	U	1.90	1.05	ng/L		11/14/19 05:21	11/15/19 22:03	1
Perfluorododecanoic acid (PFDoA)	1.90	U	1.90	0.52	ng/L		11/14/19 05:21	11/15/19 22:03	1
Perfluorotridecanoic acid (PFTriA)	1.90	U *	1.90	1.24	ng/L		11/14/19 05:21	11/15/19 22:03	1
Perfluorotetradecanoic acid (PFTeA)	1.90	U	1.90	0.28	ng/L		11/14/19 05:21	11/15/19 22:03	1
Perfluorobutanesulfonic acid (PFBS)	2.69		1.90	0.19	ng/L		11/14/19 05:21	11/15/19 22:03	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196259-1

Client Sample ID: WSG-GW5-28-0

Lab Sample ID: 460-196259-45

Date Collected: 11/06/19 10:20

Matrix: Water

Date Received: 11/06/19 18:40

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanesulfonic acid (PFHxS)	10.9	B	1.90	0.16	ng/L		11/14/19 05:21	11/15/19 22:03	1
Perfluorooctanesulfonic acid (PFOS)	37.8		1.90	0.51	ng/L		11/14/19 05:21	11/15/19 22:03	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	19.0	U	19.0	1.81	ng/L		11/14/19 05:21	11/15/19 22:03	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	19.0	U	19.0	2.95	ng/L		11/14/19 05:21	11/15/19 22:03	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C2 PFHxA	88		25 - 150				11/14/19 05:21	11/15/19 22:03	1
13C4 PFHpA	102		25 - 150				11/14/19 05:21	11/15/19 22:03	1
13C4 PFOA	108		25 - 150				11/14/19 05:21	11/15/19 22:03	1
13C5 PFNA	101		25 - 150				11/14/19 05:21	11/15/19 22:03	1
13C2 PFDA	110		25 - 150				11/14/19 05:21	11/15/19 22:03	1
13C2 PFUnA	98		25 - 150				11/14/19 05:21	11/15/19 22:03	1
13C2 PFDoA	98		25 - 150				11/14/19 05:21	11/15/19 22:03	1
13C2 PFTeDA	93		25 - 150				11/14/19 05:21	11/15/19 22:03	1
18O2 PFHxS	105		25 - 150				11/14/19 05:21	11/15/19 22:03	1
13C4 PFOS	102		25 - 150				11/14/19 05:21	11/15/19 22:03	1
d3-NMeFOSAA	82		25 - 150				11/14/19 05:21	11/15/19 22:03	1
d5-NEtFOSAA	87		25 - 150				11/14/19 05:21	11/15/19 22:03	1

Client Sample ID: WSG-MW2-10-0

Lab Sample ID: 460-196259-46

Date Collected: 11/06/19 11:10

Matrix: Water

Date Received: 11/06/19 18:40

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	35.5		1.88	0.54	ng/L		11/14/19 05:21	11/15/19 22:13	1
Perfluoroheptanoic acid (PFHpA)	35.0		1.88	0.23	ng/L		11/14/19 05:21	11/15/19 22:13	1
Perfluorooctanoic acid (PFOA)	47.6		1.88	0.80	ng/L		11/14/19 05:21	11/15/19 22:13	1
Perfluorononanoic acid (PFNA)	58.2		1.88	0.25	ng/L		11/14/19 05:21	11/15/19 22:13	1
Perfluorodecanoic acid (PFDA)	2.32		1.88	0.29	ng/L		11/14/19 05:21	11/15/19 22:13	1
Perfluoroundecanoic acid (PFUnA)	1.88	U	1.88	1.03	ng/L		11/14/19 05:21	11/15/19 22:13	1
Perfluorododecanoic acid (PFDoA)	1.88	U	1.88	0.52	ng/L		11/14/19 05:21	11/15/19 22:13	1
Perfluorotridecanoic acid (PFTriA)	1.88	U *	1.88	1.22	ng/L		11/14/19 05:21	11/15/19 22:13	1
Perfluorotetradecanoic acid (PFTeA)	1.88	U	1.88	0.27	ng/L		11/14/19 05:21	11/15/19 22:13	1
Perfluorobutanesulfonic acid (PFBS)	9.33		1.88	0.19	ng/L		11/14/19 05:21	11/15/19 22:13	1
Perfluorohexanesulfonic acid (PFHxS)	23.9	B	1.88	0.16	ng/L		11/14/19 05:21	11/15/19 22:13	1
Perfluorooctanesulfonic acid (PFOS)	36.3		1.88	0.51	ng/L		11/14/19 05:21	11/15/19 22:13	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	18.8	U	18.8	1.78	ng/L		11/14/19 05:21	11/15/19 22:13	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	18.8	U	18.8	2.91	ng/L		11/14/19 05:21	11/15/19 22:13	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C2 PFHxA	97		25 - 150				11/14/19 05:21	11/15/19 22:13	1
13C4 PFHpA	104		25 - 150				11/14/19 05:21	11/15/19 22:13	1
13C4 PFOA	104		25 - 150				11/14/19 05:21	11/15/19 22:13	1

Eurofins TestAmerica, Edison

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196259-1

Client Sample ID: WSG-MW2-10-0

Lab Sample ID: 460-196259-46

Date Collected: 11/06/19 11:10

Matrix: Water

Date Received: 11/06/19 18:40

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C5 PFNA	100		25 - 150	11/14/19 05:21	11/15/19 22:13	1
13C2 PFDA	98		25 - 150	11/14/19 05:21	11/15/19 22:13	1
13C2 PFUnA	114		25 - 150	11/14/19 05:21	11/15/19 22:13	1
13C2 PFDoA	94		25 - 150	11/14/19 05:21	11/15/19 22:13	1
13C2 PFTeDA	100		25 - 150	11/14/19 05:21	11/15/19 22:13	1
18O2 PFHxS	107		25 - 150	11/14/19 05:21	11/15/19 22:13	1
13C4 PFOS	101		25 - 150	11/14/19 05:21	11/15/19 22:13	1
d3-NMeFOSAA	95		25 - 150	11/14/19 05:21	11/15/19 22:13	1
d5-NEtFOSAA	98		25 - 150	11/14/19 05:21	11/15/19 22:13	1

Client Sample ID: WSG-GW5-18-0

Lab Sample ID: 460-196259-47

Date Collected: 11/06/19 11:25

Matrix: Water

Date Received: 11/06/19 18:40

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	12.6		1.90	0.55	ng/L		11/14/19 05:21	11/15/19 22:22	1
Perfluoroheptanoic acid (PFHpA)	7.76		1.90	0.24	ng/L		11/14/19 05:21	11/15/19 22:22	1
Perfluorooctanoic acid (PFOA)	12.7		1.90	0.81	ng/L		11/14/19 05:21	11/15/19 22:22	1
Perfluorononanoic acid (PFNA)	1.85	J	1.90	0.26	ng/L		11/14/19 05:21	11/15/19 22:22	1
Perfluorodecanoic acid (PFDA)	0.33	J	1.90	0.29	ng/L		11/14/19 05:21	11/15/19 22:22	1
Perfluoroundecanoic acid (PFUnA)	1.90	U	1.90	1.04	ng/L		11/14/19 05:21	11/15/19 22:22	1
Perfluorododecanoic acid (PFDoA)	1.90	U	1.90	0.52	ng/L		11/14/19 05:21	11/15/19 22:22	1
Perfluorotridecanoic acid (PFTriA)	1.90	U *	1.90	1.23	ng/L		11/14/19 05:21	11/15/19 22:22	1
Perfluorotetradecanoic acid (PFTeA)	0.31	J B	1.90	0.28	ng/L		11/14/19 05:21	11/15/19 22:22	1
Perfluorobutanesulfonic acid (PFBS)	2.31		1.90	0.19	ng/L		11/14/19 05:21	11/15/19 22:22	1
Perfluorohexanesulfonic acid (PFHxS)	10.0	B	1.90	0.16	ng/L		11/14/19 05:21	11/15/19 22:22	1
Perfluorooctanesulfonic acid (PFOS)	27.8		1.90	0.51	ng/L		11/14/19 05:21	11/15/19 22:22	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	19.0	U	19.0	1.80	ng/L		11/14/19 05:21	11/15/19 22:22	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	19.0	U	19.0	2.94	ng/L		11/14/19 05:21	11/15/19 22:22	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFHxA	90		25 - 150	11/14/19 05:21	11/15/19 22:22	1
13C4 PFHpA	98		25 - 150	11/14/19 05:21	11/15/19 22:22	1
13C4 PFOA	105		25 - 150	11/14/19 05:21	11/15/19 22:22	1
13C5 PFNA	92		25 - 150	11/14/19 05:21	11/15/19 22:22	1
13C2 PFDA	96		25 - 150	11/14/19 05:21	11/15/19 22:22	1
13C2 PFUnA	91		25 - 150	11/14/19 05:21	11/15/19 22:22	1
13C2 PFDoA	91		25 - 150	11/14/19 05:21	11/15/19 22:22	1
13C2 PFTeDA	80		25 - 150	11/14/19 05:21	11/15/19 22:22	1
18O2 PFHxS	107		25 - 150	11/14/19 05:21	11/15/19 22:22	1
13C4 PFOS	100		25 - 150	11/14/19 05:21	11/15/19 22:22	1
d3-NMeFOSAA	85		25 - 150	11/14/19 05:21	11/15/19 22:22	1
d5-NEtFOSAA	88		25 - 150	11/14/19 05:21	11/15/19 22:22	1

ANALYTICAL REPORT

Job Number: 460-196639-1

Job Description: DEC - WAINSCOTT SAND & GRAVEL SITE:15225

For:
New York State D.E.C.
625 Broadway
Division of Environmental Remediation
Albany, NY 12233-7014
Attention: Mr. Jared Donaldson



Approved for release.
Julie L Gilmore
Project Manager I
12/6/2019 1:54 PM

Julie L Gilmore, Project Manager I
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12/06/2019

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Eurofins TestAmerica, Edison

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Standards Data	1968
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CASE NARRATIVE

Client: New York State D.E.C.

Project: DEC - WAINSCOTT SAND & GRAVEL SITE:15225

Report Number: 460-196639-1

This case narrative is in the form of an exception report, where only the anomalies related to this report, method specific performance and/or QA/QC issues are discussed. If there are no issues to report, this narrative will include a statement that documents that there are no relevant data issues.

It should be noted that samples with elevated Reporting Limits (RLs) as a result of a dilution may not be able to satisfy customer reporting limits in some cases. Such increases in the RLs are unavoidable but acceptable consequence of sample dilution that enables quantification of target analytes or interferences which exceed the calibration range of the instrument.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 11/15/2019; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was C.

Note: All samples which require thermal preservation are considered acceptable if the arrival temperature is within 2C of the required temperature or method specified range. For samples with a specified temperature of 4C, samples with a temperature ranging from just above freezing temperature of water to 6C shall be acceptable. Samples that are hand delivered immediately following collection may not meet these criteria, however they will be deemed acceptable according to NELAC standards, if there is evidence that the chilling process has begun, such as arrival on ice, etc.

Methyl acetate failed the recovery criteria high for LCS 460-656647/3. Methyl acetate failed the recovery criteria low for LCS 460-658013/3. Methyl acetate failed the recovery criteria high for LCS 460-658202/4. Methyl acetate failed the recovery criteria low for LCSD 460-657857/4. Methyl acetate failed the recovery criteria high for LCSD 460-658202/5. Refer to the QC report for details.

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples WSG-GS6-0.0-0.2-0 (460-196639-1), WSG-GS6-0.5-2.0-0 (460-196639-2), WSG-GS1-0.0-0.2-0 (460-196639-21), WSG-GS1-0.0-0.2-1 (460-196639-22), WSG-GS9-0.0-0.2-0 (460-196639-23), WSG-GS9-0.5-2.0-0 (460-196639-24), WSG-GS2-0.0-0.2-0 (460-196639-25), WSG-C10-COMP-0 (460-196639-27), WSG-C9-COMP-0 (460-196639-28), WSG-C12-COMP-0 (460-196639-29), WSG-C12-COMP-1 (460-196639-30), WSG-C8-COMP-0 (460-196639-31), WSG-C11-COMP-0 (460-196639-32), WSG-C7-COMP-0 (460-196639-33), WSG-C6-COMP-0 (460-196639-44), WSG-C5-COMP-0 (460-196639-45) and WSG-GS1-0.5-2.0-0 (460-196639-46) were analyzed for Volatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8260C. The samples were prepared on 11/19/2019 and 11/24/2019 and analyzed on 11/24/2019 and 11/25/2019.

The continuing calibration verification (CCV) associated with batch 460-656647 recovered above the upper control limit for Methyl acetate. The samples associated with this CCV were non-detects for the affected analyte; therefore, the data have been reported.

The laboratory control sample (LCS) for analytical batch 460-656647 recovered outside control limits for the following analyte: Methyl acetate. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

The continuing calibration verification (CCV) associated with batch 460-657790 recovered above the upper control limit for 1,1,2-Trichloro-1,2,2-trifluoroethane and Methylene Chloride. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

The continuing calibration verification (CCV) analyzed in batch 460-658202 was outside the method criteria for the following analytes: Bromoform (biased low) and Methyl acetate (biased high). A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analytes is considered estimated.

The laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for analytical batch 460-658202 recovered outside control limits for the following analyte: Methyl acetate. This analyte was biased high in the LCS/LCSD and was not detected in the associated samples; therefore, the data have been reported.

The continuing calibration verification (CCV) analyzed in batch 460-657857 was outside the method criteria for the following analyte(s): 1,1,2,2-Tetrachloroethane and Methyl acetate. A CCV standard at or below the reporting limit (RL) was analyzed with the affected

samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

The laboratory control sample duplicate (LCSD) for analytical batch 460-657857 recovered outside control limits for the following analyte: Methyl acetate (biased low). This analyte was not detected in the associated samples; therefore, the data have been reported.

The continuing calibration verification (CCV) analyzed in batch 460-658013 was outside the method criteria for the following analyte(s): 1,1,2,2-Tetrachloroethane and Methyl acetate. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

The laboratory control sample (LCS) for analytical batch 460-658013 recovered outside control limits for the following analyte: Methyl acetate (biased low). This analyte was not detected in the associated samples; therefore, the data have been reported.

Several analytes failed the recovery criteria low for the MS/MSD of sample WSG-GS9-0.5-2.0-0MS/MSD (460-196639-24) in batch 460-657857. Acetone failed the recovery criteria high.

Several analytes failed the recovery criteria low for the MS/MSD of sample WSG-C11-COMP-0MS/MSD (460-196639-32) in batch 460-658013. Acetone failed the recovery criteria high.

Refer to the QC report for details.

No other difficulties were encountered during the volatiles analysis.

All other quality control parameters were within the acceptance limits.

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples WSG-EB-LINER-20191111 (460-196639-34), WSG-EB-SAMPLER-20191111 (460-196639-35), WSG-GW6-9-0 (460-196639-38) and WSG-TB-20191112 (460-196639-41) were analyzed for Volatile organic compounds (GC-MS) in accordance with EPA SW-846 Methods 8260C. The samples were analyzed on 11/23/2019 and 11/24/2019.

No difficulties were encountered during the volatiles analysis.

All quality control parameters were within the acceptance limits.

SEMIVOLATILE ORGANIC COMPOUNDS (GC/MS)

Samples WSG-EB-LINER-20191111 (460-196639-34), WSG-EB-SAMPLER-20191111 (460-196639-35) and WSG-GW6-9-0 (460-196639-38) were analyzed for semivolatile organic compounds (GC/MS) in accordance with EPA SW-846 Method 8270D. The samples were prepared on 11/17/2019 and analyzed on 11/18/2019.

The continuing calibration verification (CCV) associated with batch 460-656146 recovered above the upper control limit for < 2,4-Dinitrophenol>. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following sample is impacted: (CCVIS 460-656146/2).

The continuing calibration verification (CCV) analyzed in batch 460-656126 was outside the method criteria for the following analyte(s): 2,2'-oxybis[1-chloropropane] and Acenaphthene. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

The continuing calibration verification (CCV) analyzed in batch 460-656126 was outside the method criteria for the following analyte(s): Caprolactam. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for preparation batch 460-656057 and analytical batch 460-656126 recovered outside control limits for the following analytes: 2,2'-oxybis[1-chloropropane], Bis(2-chloroethoxy)methane and Isophorone. These analytes were biased high in the LCS/LCSD and were not detected in the associated samples; therefore, the data have been reported.

The laboratory control sample duplicate (LCSD) for preparation batch 460-656057 and analytical batch 460-656126 recovered outside control limits for the following analyte(s): Atrazine. These analytes have been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified

The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for batch preparation batch 460-656057 and analytical batch 460-656126 recovered outside control limits for the following analytes: Atrazine.

The following laboratory control sample and laboratory control sample duplicate (LCS/LCSD) associated with batch 460-656057 contained one acid/base surrogate outside acceptance limits:(LCS 460-656057/2-A) and (LCSD 460-656057/3-A). The laboratory's SOP allows one acid and/or one base surrogate to be outside acceptance limits; therefore, re-extraction/re-analysis was not performed. These

results have been reported and qualified.

Surrogates recoveries for the following laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) associated with batch 460-656057 were outside the upper control limits. Sample has been reported.

Six surrogates are used for this analysis. The laboratory's SOP allows one acid and one base of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following sample contained an allowable number of surrogate compounds outside limits: WSG-EB-LINER-20191111 (460-196639-34). These results have been reported and qualified.

Surrogate recovery for the following sample was outside the upper control limit: WSG-EB-SAMPLER-20191111 (460-196639-35). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

Phenol-d5 (Surr) failed the surrogate recovery criteria high for WSG-EB-LINER-20191111 (460-196639-34). 2-Fluorophenol (Surr), Nitrobenzene-d5 (Surr) and Phenol-d5 (Surr) failed the surrogate recovery criteria high for WSG-EB-SAMPLER-20191111 (460-196639-35). Nitrobenzene-d5 (Surr) failed the surrogate recovery criteria high for LCS 460-656057/2-A. 2-Fluorophenol (Surr), Nitrobenzene-d5 (Surr) and Phenol-d5 (Surr) failed the surrogate recovery criteria high for LCS 460-656057/4-A. Nitrobenzene-d5 (Surr) failed the surrogate recovery criteria high for LCSD 460-656057/3-A. Phenol-d5 (Surr) failed the surrogate recovery criteria high for LCSD 460-656057/5-A. Refer to the QC report for details.

2,2'-oxybis[1-chloropropane] failed the recovery criteria high for LCS 460-656057/2-A. Bis(2-chloroethoxy)methane and Isophorone failed the recovery criteria high for LCSD 460-656057/3-A. Atrazine failed the recovery criteria low for LCSD 460-656057/5-A. Atrazine exceeded the RPD limit. Refer to the QC report for details.

No other difficulties were encountered during the semivolatiles analysis.

All other quality control parameters were within the acceptance limits.

SEMIVOLATILE ORGANIC COMPOUNDS - SELECTED ION MODE (SIM)

Samples WSG-EB-LINER-20191111 (460-196639-34), WSG-EB-SAMPLER-20191111 (460-196639-35) and WSG-GW6-9-0 (460-196639-38) were analyzed for semivolatile organic compounds - Selected Ion Mode (SIM) in accordance with EPA SW-846 Method 8270D SIM. The samples were prepared on 11/17/2019 and analyzed on 11/19/2019.

No difficulties were encountered during the SVOC SIM analysis.

All quality control parameters were within the acceptance limits.

ORGANOCHLORINE PESTICIDES AND POLYCHLORINATED BIPHENYLS BY GAS CHROMATOGRAPHY

Samples WSG-EB-LINER-20191111 (460-196639-34), WSG-EB-SAMPLER-20191111 (460-196639-35) and WSG-GW6-9-0 (460-196639-38) were analyzed for Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography in accordance with 608.3. The samples were prepared on 11/17/2019 and analyzed on 11/22/2019.

The laboratory control sample (LCS) for preparation batch 460-656114 and analytical batch 460-657185 recovered outside control limits for the following analytes: Endrin Ketone . These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

The laboratory control sample (LCS) for preparation batch 460-656114 and analytical batch 460-657185 recovered outside control limits for the following analytes: Endosulfan sulfate . These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

The laboratory control sample duplicate (LCSD) for preparation batch 460-656114 and analytical batch 460-657185 recovered outside control limits for the following analytes: Endrin ketone. These analytes were biased high in the LCSD and were not detected in the associated samples; therefore, the data have been reported.

The laboratory control sample duplicate (LCSD) for preparation batch 460-656114 and analytical batch 460-657185 recovered outside control limits for the following analytes: Endo sulfane sulfate and Endrin. These analytes were biased high in the LCSD and were not detected in the associated samples; therefore, the data have been reported.

Endosulfan sulfate failed the recovery criteria high for LCS 460-656114/2-A. Endosulfan sulfate and Endrin failed the recovery criteria high for LCSD 460-656114/3-A. Refer to the QC report for details.

No other difficulties were encountered during the Pesticides/PCBs analysis.

All other quality control parameters were within the acceptance limits.

PESTICIDES

Samples WSG-GS6-0.0-0.2-0 (460-196639-1), WSG-GS6-0.5-2.0-0 (460-196639-2), WSG-GS1-0.0-0.2-0 (460-196639-21), WSG-GS1-0.0-0.2-1 (460-196639-22), WSG-GS9-0.0-0.2-0 (460-196639-23), WSG-GS9-0.5-2.0-0 (460-196639-24), WSG-GS2-0.0-0.2-0 (460-196639-25), WSG-C10-COMP-0 (460-196639-27), WSG-C9-COMP-0 (460-196639-28), WSG-C12-COMP-0 (460-196639-29), WSG-C12-COMP-1 (460-196639-30), WSG-C8-COMP-0 (460-196639-31), WSG-C11-COMP-0 (460-196639-32),

WSG-C7-COMP-0 (460-196639-33), WSG-C6-COMP-0 (460-196639-44) and WSG-C5-COMP-0 (460-196639-45) were analyzed for Pesticides in accordance with EPA SW-846 Methods 8081B. The samples were prepared on 11/17/2019 and analyzed on 11/19/2019 and 11/20/2019.

Surrogate DCB Decachlorobiphenyl recovery for the following sample was outside control limits: WSG-C12-COMP-0 (460-196639-29). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

DCB Decachlorobiphenyl failed the surrogate recovery criteria high for WSG-C12-COMP-0 (460-196639-29). Refer to the QC report for details.

Several analytes failed the recovery criteria low for the MS/MSD of sample WSG-GS9-0.5-2.0-0MS/MSD (460-196639-24) in batch 460-656445.

Several analytes exceeded the RPD limit.

Refer to the QC report for details.

No other difficulties were encountered during the Pesticides analysis.

All other quality control parameters were within the acceptance limits.

POLYCHLORINATED BIPHENYLS

Samples WSG-GS6-0.0-0.2-0 (460-196639-1), WSG-GS6-0.5-2.0-0 (460-196639-2), WSG-GS1-0.0-0.2-0 (460-196639-21), WSG-GS1-0.0-0.2-1 (460-196639-22), WSG-GS9-0.0-0.2-0 (460-196639-23), WSG-GS9-0.5-2.0-0 (460-196639-24), WSG-GS2-0.0-0.2-0 (460-196639-25), WSG-C10-COMP-0 (460-196639-27), WSG-C9-COMP-0 (460-196639-28), WSG-C12-COMP-0 (460-196639-29), WSG-C12-COMP-1 (460-196639-30), WSG-C8-COMP-0 (460-196639-31), WSG-C11-COMP-0 (460-196639-32), WSG-C7-COMP-0 (460-196639-33), WSG-C6-COMP-0 (460-196639-44) and WSG-C5-COMP-0 (460-196639-45) were analyzed for polychlorinated biphenyls in accordance with EPA SW-846 Method 8082A. The samples were prepared on 11/17/2019 and analyzed on 11/18/2019.

DCB Decachlorobiphenyl failed the surrogate recovery criteria high for WSG-GS1-0.0-0.2-1 (460-196639-22). DCB Decachlorobiphenyl failed the surrogate recovery criteria high for WSG-C12-COMP-0 (460-196639-29). Refer to the QC report for details.

Aroclor 1260 failed the recovery criteria high for the MSD of sample WSG-GS9-0.5-2.0-0MSD (460-196639-24) in batch 460-656192.

Refer to the QC report for details.

No other difficulties were encountered during the PCBs analysis.

All other quality control parameters were within the acceptance limits.

CHLORINATED HERBICIDES

Samples WSG-GS6-0.0-0.2-0 (460-196639-1), WSG-GS6-0.5-2.0-0 (460-196639-2), WSG-GS1-0.0-0.2-0 (460-196639-21), WSG-GS1-0.0-0.2-1 (460-196639-22), WSG-GS9-0.0-0.2-0 (460-196639-23), WSG-GS9-0.5-2.0-0 (460-196639-24), WSG-GS2-0.0-0.2-0 (460-196639-25), WSG-C10-COMP-0 (460-196639-27), WSG-C9-COMP-0 (460-196639-28), WSG-C12-COMP-0 (460-196639-29), WSG-C12-COMP-1 (460-196639-30), WSG-C8-COMP-0 (460-196639-31), WSG-C11-COMP-0 (460-196639-32), WSG-C7-COMP-0 (460-196639-33), WSG-C6-COMP-0 (460-196639-44) and WSG-C5-COMP-0 (460-196639-45) were analyzed for chlorinated herbicides in accordance with EPA SW-846 Method 8151A. The samples were prepared and analyzed on 11/20/2019.

The surrogate recovery for the blank associated with preparation batch 460-656402 and analytical batch 460-656485 was outside the control limits but recoveries for sample was within control limits. Data have been reported.

The laboratory control sample duplicate (LCSD) for preparation batch 460-656402 and analytical batch 460-656485 recovered outside control limits for the following analytes: 2,4-D. These analytes were biased high in the LCSD and were not detected in the associated samples; therefore, the data have been reported.

No difficulties were encountered during the herbicides analysis.

All quality control parameters were within the acceptance limits.

CHLORINATED HERBICIDES

Samples WSG-EB-LINER-20191111 (460-196639-34), WSG-EB-SAMPLER-20191111 (460-196639-35) and WSG-GW6-9-0 (460-196639-38) were analyzed for chlorinated herbicides in accordance with EPA SW-846 Method 8151A. The samples were prepared on 11/18/2019 and analyzed on 11/19/2019.

2,4-Dichlorophenylacetic acid failed the surrogate recovery criteria low for MB 460-656402/1-A. Refer to the QC report for details.

2,4-D exceeded the RPD limit for LCSD 460-656402/3-A. Refer to the QC report for details.

No other difficulties were encountered during the herbicides analysis.

All other quality control parameters were within the acceptance limits.

SEMIVOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples WSG-GS6-0.0-0.2-0 (460-196639-1), WSG-GS6-0.5-2.0-0 (460-196639-2), WSG-GS1-0.0-0.2-0 (460-196639-21), WSG-GS1-0.0-0.2-1 (460-196639-22), WSG-GS9-0.0-0.2-0 (460-196639-23), WSG-GS9-0.5-2.0-0 (460-196639-24), WSG-GS2-0.0-0.2-0 (460-196639-25), WSG-C10-COMP-0 (460-196639-27), WSG-C9-COMP-0 (460-196639-28), WSG-C12-COMP-0 (460-196639-29), WSG-C12-COMP-1 (460-196639-30), WSG-C8-COMP-0 (460-196639-31), WSG-C11-COMP-0 (460-196639-32), WSG-C7-COMP-0 (460-196639-33), WSG-C6-COMP-0 (460-196639-44) and WSG-C5-COMP-0 (460-196639-45) were analyzed for semivolatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8270D. The samples were prepared on 11/17/2019 and analyzed on 11/18/2019.

Several analytes failed the recovery criteria low for the MS/MSD of sample WSG-GS9-0.5-2.0-0/MS/MSD (460-196639-24) in batch 460-656146.

Phenol exceeded the RPD limit.

Several analytes failed the recovery criteria low for the MS/MSD of sample WSG-C11-COMP-0/MS/MSD (460-196639-32) in batch 460-656146.

Refer to the QC report for details.

No other difficulties were encountered during the semivolatiles analysis.

All other quality control parameters were within the acceptance limits.

PERFLUORINATED HYDROCARBONS (PFC)

Samples WSG-GS6-0.0-0.2-0 (460-196639-1), WSG-GS6-0.5-2.0-0 (460-196639-2), WSG-GS6-6-8-0 (460-196639-3), WSG-GS6-6-8-1 (460-196639-4), WSG-S6-0.0-0.2-0 (460-196639-5), WSG-S6-0.5-2.0-0 (460-196639-6), WSG-S2-0.0-0.2-0 (460-196639-7), WSG-S2-0.5-2.0-0 (460-196639-8), WSG-S7-0.0-0.2-0 (460-196639-9), WSG-S7-0.5-2.0-0 (460-196639-10), WSG-S3-0.0-0.2-0 (460-196639-11), WSG-S3-0.5-2.0-0 (460-196639-12), WSG-S4-0.0-0.2-0 (460-196639-13), WSG-S4-0.5-2.0-0 (460-196639-14), WSG-S5-0.0-0.2-0 (460-196639-15), WSG-S5-0.5-2.0-0 (460-196639-16), WSG-S8-0.0-0.2-0 (460-196639-17), WSG-S8-0.5-2.0-0 (460-196639-18), WSG-S9-0.0-0.2-0 (460-196639-19), WSG-S9-0.5-2.0-0 (460-196639-20), WSG-GS1-0.0-0.2-0 (460-196639-21), WSG-GS1-0.0-0.2-1 (460-196639-22), WSG-GS9-0.0-0.2-0 (460-196639-23), WSG-GS9-0.5-2.0-0 (460-196639-24), WSG-GS2-0.0-0.2-0 (460-196639-25), WSG-GS9-3.5-0 (460-196639-26), WSG-C10-COMP-0 (460-196639-27), WSG-C9-COMP-0 (460-196639-28), WSG-C12-COMP-0 (460-196639-29), WSG-C12-COMP-1 (460-196639-30), WSG-C8-COMP-0 (460-196639-31), WSG-C11-COMP-0 (460-196639-32), WSG-C7-COMP-0 (460-196639-33), WSG-C6-COMP-0 (460-196639-44), WSG-C5-COMP-0 (460-196639-45) and WSG-GS1-0.5-2.0-0 (460-196639-46) were analyzed for Perfluorinated Hydrocarbons (PFC) in accordance with PFC. The samples were prepared on 11/21/2019 and analyzed on 11/25/2019 and 11/30/2019.

Perfluorooctanesulfonic acid (PFOS) was detected in method blank MB 320-340379/1-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Perfluorooctanesulfonic acid (PFOS) was detected in method blank MB 320-340384/1-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

No other difficulties were encountered during the Perfluorinated Hydrocarbons (PFC) analysis.

All other quality control parameters were within the acceptance limits.

PERFLUORINATED HYDROCARBONS (PFC)

Samples WSG-EB-LINER-20191111 (460-196639-34), WSG-EB-SAMPLER-20191111 (460-196639-35), WSG-GW6-29-0 (460-196639-36), WSG-GW6-19-0 (460-196639-37), WSG-GW6-9-0 (460-196639-38), WSG-EB-SPOON-20191112 (460-196639-39), WSG-EB-BOWL-20191112 (460-196639-40), WSG-GW9-26-0 (460-196639-42) and WSG-GW9-16-0 (460-196639-43) were analyzed for Perfluorinated Hydrocarbons (PFC) in accordance with PFC. The samples were prepared on 11/20/2019 and analyzed on 11/22/2019.

Perfluorohexanesulfonic acid (PFHxS) was detected in method blank MB 320-340072/1-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

No other difficulties were encountered during the Perfluorinated Hydrocarbons (PFC) analysis.

All other quality control parameters were within the acceptance limits.

TOTAL METALS (ICP)

Samples WSG-GS6-0.0-0.2-0 (460-196639-1), WSG-GS6-0.5-2.0-0 (460-196639-2), WSG-GS1-0.0-0.2-0 (460-196639-21), WSG-GS1-0.0-0.2-1 (460-196639-22), WSG-GS9-0.0-0.2-0 (460-196639-23), WSG-GS9-0.5-2.0-0 (460-196639-24),

WSG-GS2-0.0-0.2-0 (460-196639-25), WSG-C10-COMP-0 (460-196639-27), WSG-C9-COMP-0 (460-196639-28), WSG-C12-COMP-0 (460-196639-29), WSG-C12-COMP-1 (460-196639-30), WSG-C8-COMP-0 (460-196639-31), WSG-C11-COMP-0 (460-196639-32), WSG-C7-COMP-0 (460-196639-33), WSG-C6-COMP-0 (460-196639-44) and WSG-C5-COMP-0 (460-196639-45) were analyzed for Total Metals (ICP) in accordance with EPA SW-846 Methods 6010D. The samples were prepared and analyzed on 11/26/2019 and 11/27/2019.

Aluminum, Iron, Manganese and Titanium failed the recovery criteria high for the MS of sample WSG-GS9-0.5-2.0-0MS (460-196639-24) in batch 460-658452.

Antimony failed the recovery criteria low for the MS of sample WSG-C8-COMP-0MS (460-196639-31) in batch 460-658703. Aluminum, Iron, Manganese and Titanium failed the recovery criteria high.

Aluminum, Antimony and Iron failed the recovery criteria low for the MS of sample WSG-C11-COMP-0MS (460-196639-32) in batch 460-658452.

Refer to the QC report for details.

Calcium exceeded the RPD limit for the duplicate of sample WSG-GS9-0.5-2.0-0DU (460-196639-24). Several analytes exceeded the RPD limit for the duplicate of sample WSG-C8-COMP-0DU (460-196639-31). for the duplicate of sample WSG-C11-COMP-0DU (460-196639-32). Refer to the QC report for details.

Samples WSG-GS6-0.0-0.2-0 (460-196639-1)[4X], WSG-GS6-0.5-2.0-0 (460-196639-2)[4X], WSG-GS1-0.0-0.2-0 (460-196639-21)[4X], WSG-GS1-0.0-0.2-1 (460-196639-22)[4X], WSG-GS9-0.0-0.2-0 (460-196639-23)[4X], WSG-GS9-0.5-2.0-0 (460-196639-24)[4X], WSG-GS2-0.0-0.2-0 (460-196639-25)[4X], WSG-C10-COMP-0 (460-196639-27)[4X], WSG-C9-COMP-0 (460-196639-28)[4X], WSG-C12-COMP-0 (460-196639-29)[4X], WSG-C12-COMP-1 (460-196639-30)[4X], WSG-C8-COMP-0 (460-196639-31)[4X], WSG-C11-COMP-0 (460-196639-32)[4X], WSG-C7-COMP-0 (460-196639-33)[4X], WSG-C6-COMP-0 (460-196639-44)[4X] and WSG-C5-COMP-0 (460-196639-45)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the Total Metals (ICP) analysis.

All other quality control parameters were within the acceptance limits.

METALS

Samples WSG-EB-LINER-20191111 (460-196639-34), WSG-EB-SAMPLER-20191111 (460-196639-35) and WSG-GW6-9-0 (460-196639-38) were analyzed for Metals in accordance with 6010D. The samples were prepared on 11/22/2019 and analyzed on 11/23/2019.

Sodium failed the recovery criteria high for the MS of sample 460-197113-5 in batch 460-657750.

The presence of the '4' qualifier in the data indicates analytes where the concentration in the unspiked sample exceeded four times the spiking amount.

Refer to the QC report for details.

For the duplicate of sample 460-197113-5. Refer to the QC report for details.

Sample WSG-GW6-9-0 (460-196639-38)[3X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the Metals analysis.

All other quality control parameters were within the acceptance limits.

TOTAL MERCURY

Samples WSG-EB-LINER-20191111 (460-196639-34), WSG-EB-SAMPLER-20191111 (460-196639-35) and WSG-GW6-9-0 (460-196639-38) were analyzed for total mercury in accordance with EPA SW-846 Methods 7470A. The samples were prepared and analyzed on 11/26/2019.

No difficulties were encountered during the Hg analysis.

All quality control parameters were within the acceptance limits.

TOTAL MERCURY

Samples WSG-GS6-0.0-0.2-0 (460-196639-1), WSG-GS6-0.5-2.0-0 (460-196639-2), WSG-GS1-0.0-0.2-0 (460-196639-21), WSG-GS1-0.0-0.2-1 (460-196639-22), WSG-GS9-0.0-0.2-0 (460-196639-23), WSG-GS9-0.5-2.0-0 (460-196639-24), WSG-GS2-0.0-0.2-0 (460-196639-25), WSG-C10-COMP-0 (460-196639-27), WSG-C9-COMP-0 (460-196639-28), WSG-C12-COMP-0 (460-196639-29), WSG-C12-COMP-1 (460-196639-30), WSG-C8-COMP-0 (460-196639-31), WSG-C11-COMP-0 (460-196639-32), WSG-C7-COMP-0 (460-196639-33), WSG-C6-COMP-0 (460-196639-44) and WSG-C5-COMP-0 (460-196639-45) were analyzed for total mercury in accordance with EPA SW-846 Method 7471B. The samples were prepared and analyzed on 11/25/2019.

Mercury failed the recovery criteria high for the MS of sample WSG-GS9-0.5-2.0-0MS (460-196639-24) in batch 460-658085.

Refer to the QC report for details.

No other difficulties were encountered during the Hg analysis.

All other quality control parameters were within the acceptance limits.

PERCENT SOLIDS/PERCENT MOISTURE

Samples WSG-GS6-0.0-0.2-0 (460-196639-1), WSG-GS6-0.5-2.0-0 (460-196639-2), WSG-GS6-6-8-0 (460-196639-3), WSG-GS6-6-8-1 (460-196639-4), WSG-S6-0.0-0.2-0 (460-196639-5), WSG-S6-0.5-2.0-0 (460-196639-6), WSG-S2-0.0-0.2-0 (460-196639-7), WSG-S2-0.5-2.0-0 (460-196639-8), WSG-S7-0.0-0.2-0 (460-196639-9), WSG-S7-0.5-2.0-0 (460-196639-10), WSG-S3-0.0-0.2-0 (460-196639-11), WSG-S3-0.5-2.0-0 (460-196639-12), WSG-S4-0.0-0.2-0 (460-196639-13), WSG-S4-0.5-2.0-0 (460-196639-14), WSG-S5-0.0-0.2-0 (460-196639-15), WSG-S5-0.5-2.0-0 (460-196639-16), WSG-S8-0.0-0.2-0 (460-196639-17), WSG-S8-0.5-2.0-0 (460-196639-18), WSG-S9-0.0-0.2-0 (460-196639-19), WSG-S9-0.5-2.0-0 (460-196639-20), WSG-GS1-0.0-0.2-0 (460-196639-21), WSG-GS1-0.0-0.2-1 (460-196639-22), WSG-GS9-0.0-0.2-0 (460-196639-23), WSG-GS9-0.5-2.0-0 (460-196639-24), WSG-GS2-0.0-0.2-0 (460-196639-25), WSG-GS9-3.5-0 (460-196639-26), WSG-C10-COMP-0 (460-196639-27), WSG-C9-COMP-0 (460-196639-28), WSG-C12-COMP-0 (460-196639-29), WSG-C12-COMP-1 (460-196639-30), WSG-C8-COMP-0 (460-196639-31), WSG-C11-COMP-0 (460-196639-32), WSG-C7-COMP-0 (460-196639-33), WSG-C6-COMP-0 (460-196639-44), WSG-C5-COMP-0 (460-196639-45) and WSG-GS1-0.5-2.0-0 (460-196639-46) were analyzed for percent solids/percent moisture in accordance with EPA Method CLPISM01.2 (Exhibit D) Modified. The samples were analyzed on 11/19/2019 and 11/22/2019.

No difficulties were encountered during the %solids/moisture analysis.

All quality control parameters were within the acceptance limits.

ORGANIC PREP

Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 320-340072.

The following samples are light orange in color and contain a thin layer of sediments at the bottom prior to extraction: WSG-GW6-9-0 (460-196639-38) and WSG-GW9-16-0 (460-196639-43)

During the solid phase extraction process, the following samples have non-settable particulates which clogged the extraction column: WSG-GW9-16-0 (460-196639-43).

The following sample is light yellow after final volume: WSG-GW6-9-0 (460-196639-38).

After the final volume, the following samples were yellow: WSG-S6-0.0-0.2-0 (460-196639-5), WSG-S6-0.0-0.2-0 (460-196639-5[MS]), WSG-S6-0.0-0.2-0 (460-196639-5[MSD]), WSG-S7-0.0-0.2-0 (460-196639-9), WSG-S4-0.0-0.2-0 (460-196639-13) and WSG-S5-0.0-0.2-0 (460-196639-15).

Sample Summary

Client: New York State D.E.C.
Project/Site: DEC - WAINSCOTT SAND & GRAVEL
SITE:15225

Job ID: 460-196639-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
460-196639-1	WSG-GS6-0.0-0.2-0	Solid	11/11/19 08:00	11/15/19 21:07	
460-196639-2	WSG-GS6-0.5-2.0-0	Solid	11/11/19 08:10	11/15/19 21:07	
460-196639-3	WSG-GS6-6-8-0	Solid	11/11/19 08:20	11/15/19 21:07	
460-196639-4	WSG-GS6-6-8-1	Solid	11/11/19 08:20	11/15/19 21:07	
460-196639-5	WSG-S6-0.0-0.2-0	Solid	11/11/19 09:35	11/15/19 21:07	
460-196639-6	WSG-S6-0.5-2.0-0	Solid	11/11/19 09:45	11/15/19 21:07	
460-196639-7	WSG-S2-0.0-0.2-0	Solid	11/11/19 09:55	11/15/19 21:07	
460-196639-8	WSG-S2-0.5-2.0-0	Solid	11/11/19 10:00	11/15/19 21:07	
460-196639-9	WSG-S7-0.0-0.2-0	Solid	11/11/19 10:15	11/15/19 21:07	
460-196639-10	WSG-S7-0.5-2.0-0	Solid	11/11/19 10:25	11/15/19 21:07	
460-196639-11	WSG-S3-0.0-0.2-0	Solid	11/11/19 10:35	11/15/19 21:07	
460-196639-12	WSG-S3-0.5-2.0-0	Solid	11/11/19 10:45	11/15/19 21:07	
460-196639-13	WSG-S4-0.0-0.2-0	Solid	11/11/19 10:55	11/15/19 21:07	
460-196639-14	WSG-S4-0.5-2.0-0	Solid	11/11/19 11:05	11/15/19 21:07	
460-196639-15	WSG-S5-0.0-0.2-0	Solid	11/11/19 11:15	11/15/19 21:07	
460-196639-16	WSG-S5-0.5-2.0-0	Solid	11/11/19 11:25	11/15/19 21:07	
460-196639-17	WSG-S8-0.0-0.2-0	Solid	11/11/19 12:50	11/15/19 21:07	
460-196639-18	WSG-S8-0.5-2.0-0	Solid	11/11/19 12:55	11/15/19 21:07	
460-196639-19	WSG-S9-0.0-0.2-0	Solid	11/11/19 13:15	11/15/19 21:07	
460-196639-20	WSG-S9-0.5-2.0-0	Solid	11/11/19 13:25	11/15/19 21:07	
460-196639-21	WSG-GS1-0.0-0.2-0	Solid	11/11/19 13:35	11/15/19 21:07	
460-196639-22	WSG-GS1-0.0-0.2-1	Solid	11/11/19 13:35	11/15/19 21:07	
460-196639-23	WSG-GS9-0.0-0.2-0	Solid	11/11/19 14:20	11/15/19 21:07	
460-196639-24	WSG-GS9-0.5-2.0-0	Solid	11/11/19 14:30	11/15/19 21:07	
460-196639-25	WSG-GS2-0.0-0.2-0	Solid	11/12/19 07:30	11/15/19 21:07	
460-196639-26	WSG-GS9-3.5-0	Solid	11/12/19 08:15	11/15/19 21:07	
460-196639-27	WSG-C10-COMP-0	Solid	11/12/19 08:50	11/15/19 21:07	
460-196639-28	WSG-C9-COMP-0	Solid	11/12/19 09:10	11/15/19 21:07	
460-196639-29	WSG-C12-COMP-0	Solid	11/12/19 09:25	11/15/19 21:07	
460-196639-30	WSG-C12-COMP-1	Solid	11/12/19 09:25	11/15/19 21:07	
460-196639-31	WSG-C8-COMP-0	Solid	11/12/19 10:00	11/15/19 21:07	
460-196639-32	WSG-C11-COMP-0	Solid	11/12/19 09:45	11/15/19 21:07	
460-196639-33	WSG-C7-COMP-0	Solid	11/12/19 10:30	11/15/19 21:07	
460-196639-34	WSG-EB-LINER-20191111	Water	11/11/19 10:30	11/15/19 21:07	
460-196639-35	WSG-EB-SAMPLER-20191111	Water	11/11/19 13:30	11/15/19 21:07	
460-196639-36	WSG-GW6-29-0	Water	11/11/19 09:55	11/15/19 21:07	
460-196639-37	WSG-GW6-19-0	Water	11/11/19 12:00	11/15/19 21:07	
460-196639-38	WSG-GW6-9-0	Water	11/11/19 12:45	11/15/19 21:07	
460-196639-39	WSG-EB-SPOON-20191112	Water	11/12/19 08:00	11/15/19 21:07	
460-196639-40	WSG-EB-BOWL-20191112	Water	11/12/19 08:15	11/15/19 21:07	
460-196639-41	WSG-TB-20191112	Water	11/12/19 00:00	11/15/19 21:07	
460-196639-42	WSG-GW9-26-0	Water	11/12/19 10:20	11/15/19 21:07	
460-196639-43	WSG-GW9-16-0	Water	11/12/19 11:20	11/15/19 21:07	
460-196639-44	WSG-C6-COMP-0	Solid	11/12/19 10:40	11/15/19 21:07	
460-196639-45	WSG-C5-COMP-0	Solid	11/12/19 10:50	11/15/19 21:07	
460-196639-46	WSG-GS1-0.5-2.0-0	Solid	11/11/19 13:50	11/15/19 21:07	

Detection Summary

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196639-1

Client Sample ID: WSG-GS6-0.0-0.2-0

Lab Sample ID: 460-196639-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzaldehyde	28	J	390	17	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	18	J	39	14	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	19	J	39	10	ug/Kg	1	☼	8270D	Total/NA
Butyl benzyl phthalate	80	J	390	19	ug/Kg	1	☼	8270D	Total/NA
Chrysene	13	J	390	6.7	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	15	J	390	14	ug/Kg	1	☼	8270D	Total/NA
Naphthalene	12	J	390	6.8	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	11	J	390	7.0	ug/Kg	1	☼	8270D	Total/NA
Pyrene	19	J	390	9.8	ug/Kg	1	☼	8270D	Total/NA
Perfluorononanoic acid (PFNA)	0.049	J	0.24	0.043	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	0.083	J	0.24	0.026	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluoroundecanoic acid (PFUnA)	0.066	J	0.24	0.043	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.95	J	0.59	0.24	ug/Kg	1	☼	537 (modified)	Total/NA
Iron	4990		35.2	17.3	mg/Kg	4	☼	6010D	Total/NA
Aluminum	5140		47.0	13.3	mg/Kg	4	☼	6010D	Total/NA
Arsenic	3.6		3.5	1.4	mg/Kg	4	☼	6010D	Total/NA
Boron	5.7	J	11.7	3.3	mg/Kg	4	☼	6010D	Total/NA
Barium	12.2	J	47.0	2.6	mg/Kg	4	☼	6010D	Total/NA
Beryllium	0.18	J	0.47	0.10	mg/Kg	4	☼	6010D	Total/NA
Calcium	1020	J	1170	69.1	mg/Kg	4	☼	6010D	Total/NA
Chromium	5.2		2.3	0.42	mg/Kg	4	☼	6010D	Total/NA
Copper	6.5		5.9	3.1	mg/Kg	4	☼	6010D	Total/NA
Potassium	201	J	1170	73.0	mg/Kg	4	☼	6010D	Total/NA
Magnesium	492	J	1170	68.4	mg/Kg	4	☼	6010D	Total/NA
Manganese	69.1		3.5	0.41	mg/Kg	4	☼	6010D	Total/NA
Nickel	3.0	J	9.4	0.86	mg/Kg	4	☼	6010D	Total/NA
Lead	7.8		2.3	0.61	mg/Kg	4	☼	6010D	Total/NA
Strontium	4.3	J	4.7	0.47	mg/Kg	4	☼	6010D	Total/NA
Titanium	195		4.7	0.71	mg/Kg	4	☼	6010D	Total/NA
Vanadium	8.6	J	11.7	0.78	mg/Kg	4	☼	6010D	Total/NA
Zinc	16.4		7.0	5.5	mg/Kg	4	☼	6010D	Total/NA
Mercury	0.034		0.020	0.012	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: WSG-GS6-0.5-2.0-0

Lab Sample ID: 460-196639-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	17	J	35	12	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	11	J	35	9.4	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	15	J	35	9.1	ug/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	6.9	J	35	6.9	ug/Kg	1	☼	8270D	Total/NA
Chrysene	14	J	350	5.9	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	18	J	350	12	ug/Kg	1	☼	8270D	Total/NA
Pyrene	17	J	350	8.7	ug/Kg	1	☼	8270D	Total/NA
Perfluorononanoic acid (PFNA)	0.061	J	0.20	0.036	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	0.059	J	0.20	0.022	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluoroundecanoic acid (PFUnA)	0.039	J	0.20	0.036	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.92	J	0.50	0.20	ug/Kg	1	☼	537 (modified)	Total/NA
Iron	3600		30.4	14.9	mg/Kg	4	☼	6010D	Total/NA
Aluminum	4140		40.5	11.4	mg/Kg	4	☼	6010D	Total/NA
Arsenic	1.2	J	3.0	1.2	mg/Kg	4	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Edison

Detection Summary

Client: New York State D.E.C.
Project/Site: DEC - WAINSCOTT SAND & GRAVEL
SITE:15225

Job ID: 460-196639-1

Client Sample ID: WSG-GS6-0.5-2.0-0 (Continued)

Lab Sample ID: 460-196639-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	3.7	J	10.1	2.8	mg/Kg	4	☼	6010D	Total/NA
Barium	6.6	J	40.5	2.2	mg/Kg	4	☼	6010D	Total/NA
Beryllium	0.13	J	0.41	0.090	mg/Kg	4	☼	6010D	Total/NA
Calcium	546	J	1010	59.7	mg/Kg	4	☼	6010D	Total/NA
Chromium	3.5		2.0	0.36	mg/Kg	4	☼	6010D	Total/NA
Copper	2.8	J	5.1	2.7	mg/Kg	4	☼	6010D	Total/NA
Potassium	143	J	1010	63.0	mg/Kg	4	☼	6010D	Total/NA
Magnesium	342	J	1010	59.1	mg/Kg	4	☼	6010D	Total/NA
Manganese	26.5		3.0	0.35	mg/Kg	4	☼	6010D	Total/NA
Nickel	2.1	J	8.1	0.74	mg/Kg	4	☼	6010D	Total/NA
Lead	5.2		2.0	0.53	mg/Kg	4	☼	6010D	Total/NA
Strontium	2.2	J	4.1	0.40	mg/Kg	4	☼	6010D	Total/NA
Titanium	134		4.1	0.61	mg/Kg	4	☼	6010D	Total/NA
Vanadium	6.8	J	10.1	0.67	mg/Kg	4	☼	6010D	Total/NA
Zinc	6.9		6.1	4.7	mg/Kg	4	☼	6010D	Total/NA
Mercury	0.019		0.017	0.010	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: WSG-GS6-6-8-0

Lab Sample ID: 460-196639-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanesulfonic acid (PFOS)	0.21	J	0.51	0.20	ug/Kg	1	☼	537 (modified)	Total/NA

Client Sample ID: WSG-GS6-6-8-1

Lab Sample ID: 460-196639-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanesulfonic acid (PFOS)	0.26	J	0.52	0.21	ug/Kg	1	☼	537 (modified)	Total/NA

Client Sample ID: WSG-S6-0.0-0.2-0

Lab Sample ID: 460-196639-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanoic acid (PFOA)	0.16	J Z	0.28	0.12	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	0.11	J	0.28	0.051	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	0.23	J	0.28	0.031	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluoroundecanoic acid (PFUnA)	0.45		0.28	0.051	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorododecanoic acid (PFDoA)	0.11	J	0.28	0.095	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorotridecanoic acid (PFTriA)	0.20	J	0.28	0.072	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	0.072	J	0.28	0.044	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	2.35		0.71	0.28	ug/Kg	1	☼	537 (modified)	Total/NA

Client Sample ID: WSG-S6-0.5-2.0-0

Lab Sample ID: 460-196639-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluoroheptanoic acid (PFHpA)	0.039	J Z	0.26	0.038	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	0.12	J	0.26	0.11	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	0.10	J	0.26	0.048	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	0.079	J	0.26	0.029	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluoroundecanoic acid (PFUnA)	0.11	J	0.26	0.048	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	1.53		0.66	0.26	ug/Kg	1	☼	537 (modified)	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Edison

Detection Summary

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196639-1

Client Sample ID: WSG-S2-0.0-0.2-0

Lab Sample ID: 460-196639-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid (PFHxA)	0.098	J	0.25	0.052	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	0.12	J	0.25	0.036	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	0.38		0.25	0.11	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	0.34		0.25	0.045	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	0.41		0.25	0.027	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluoroundecanoic acid (PFUnA)	3.84		0.25	0.045	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorododecanoic acid (PFDoA)	0.26		0.25	0.084	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorotridecanoic acid (PFTriA)	1.82		0.25	0.064	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorotetradecanoic acid (PFTeA)	0.068	J	0.25	0.067	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	1.22		0.62	0.25	ug/Kg	1	☼	537 (modified)	Total/NA

Client Sample ID: WSG-S2-0.5-2.0-0

Lab Sample ID: 460-196639-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorononanoic acid (PFNA)	0.096	J	0.21	0.038	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	0.14	J	0.21	0.023	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluoroundecanoic acid (PFUnA)	0.95		0.21	0.038	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorotridecanoic acid (PFTriA)	0.33		0.21	0.054	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	1.13		0.53	0.21	ug/Kg	1	☼	537 (modified)	Total/NA

Client Sample ID: WSG-S7-0.0-0.2-0

Lab Sample ID: 460-196639-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid (PFHxA)	0.061	J	0.24	0.050	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	0.066	J	0.24	0.035	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	0.19	J	0.24	0.10	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	0.16	J	0.24	0.043	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	0.31		0.24	0.026	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluoroundecanoic acid (PFUnA)	1.06		0.24	0.043	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorododecanoic acid (PFDoA)	0.20	J	0.24	0.080	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorotridecanoic acid (PFTriA)	0.43		0.24	0.061	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorotetradecanoic acid (PFTeA)	0.084	J	0.24	0.065	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	0.050	J Z	0.24	0.037	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	2.36		0.60	0.24	ug/Kg	1	☼	537 (modified)	Total/NA

Client Sample ID: WSG-S7-0.5-2.0-0

Lab Sample ID: 460-196639-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid (PFHxA)	0.079	J	0.22	0.046	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	0.048	J	0.22	0.032	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	0.16	J	0.22	0.095	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	0.15	J	0.22	0.040	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	0.097	J	0.22	0.024	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluoroundecanoic acid (PFUnA)	0.21	J	0.22	0.040	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorotridecanoic acid (PFTriA)	0.073	J	0.22	0.056	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	1.59		0.55	0.22	ug/Kg	1	☼	537 (modified)	Total/NA

Client Sample ID: WSG-S3-0.0-0.2-0

Lab Sample ID: 460-196639-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid (PFHxA)	0.056	J	0.25	0.053	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	0.051	J	0.25	0.036	ug/Kg	1	☼	537 (modified)	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Edison

Detection Summary

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196639-1

Client Sample ID: WSG-S3-0.0-0.2-0 (Continued)

Lab Sample ID: 460-196639-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanoic acid (PFOA)	0.20	J	0.25	0.11	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	0.16	J	0.25	0.045	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	0.21	J	0.25	0.028	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluoroundecanoic acid (PFUnA)	0.63		0.25	0.045	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorododecanoic acid (PFDoA)	0.095	J	0.25	0.084	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorotridecanoic acid (PFTriA)	0.35		0.25	0.064	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	0.048	J	0.25	0.039	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	2.80		0.63	0.25	ug/Kg	1	☼	537 (modified)	Total/NA

Client Sample ID: WSG-S3-0.5-2.0-0

Lab Sample ID: 460-196639-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid (PFHxA)	0.057	J	0.25	0.053	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	0.092	J	0.25	0.036	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	0.34		0.25	0.11	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	0.26		0.25	0.045	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	0.24	J	0.25	0.028	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluoroundecanoic acid (PFUnA)	0.48		0.25	0.045	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorododecanoic acid (PFDoA)	0.11	J	0.25	0.084	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorotridecanoic acid (PFTriA)	0.22	J	0.25	0.064	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	0.056	J	0.25	0.039	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	3.01		0.63	0.25	ug/Kg	1	☼	537 (modified)	Total/NA

Client Sample ID: WSG-S4-0.0-0.2-0

Lab Sample ID: 460-196639-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanoic acid (PFOA)	0.13	J	0.25	0.11	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	0.10	J	0.25	0.046	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	0.17	J	0.25	0.028	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluoroundecanoic acid (PFUnA)	0.50		0.25	0.046	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorododecanoic acid (PFDoA)	0.099	J	0.25	0.085	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorotridecanoic acid (PFTriA)	0.66		0.25	0.065	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	1.51		0.63	0.25	ug/Kg	1	☼	537 (modified)	Total/NA

Client Sample ID: WSG-S4-0.5-2.0-0

Lab Sample ID: 460-196639-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanoic acid (PFOA)	0.10	J	0.21	0.091	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	0.086	J	0.21	0.038	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	0.12	J	0.21	0.023	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluoroundecanoic acid (PFUnA)	0.20	J	0.21	0.038	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorotridecanoic acid (PFTriA)	0.18	J	0.21	0.054	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	1.14		0.53	0.21	ug/Kg	1	☼	537 (modified)	Total/NA

Client Sample ID: WSG-S5-0.0-0.2-0

Lab Sample ID: 460-196639-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanoic acid (PFOA)	0.16	J Z	0.27	0.12	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	0.15	J	0.27	0.048	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	0.22	J	0.27	0.029	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluoroundecanoic acid (PFUnA)	0.73		0.27	0.048	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorododecanoic acid (PFDoA)	0.12	J	0.27	0.090	ug/Kg	1	☼	537 (modified)	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: New York State D.E.C.
Project/Site: DEC - WAINSCOTT SAND & GRAVEL
SITE:15225

Job ID: 460-196639-1

Client Sample ID: WSG-S5-0.0-0.2-0 (Continued)

Lab Sample ID: 460-196639-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorotridecanoic acid (PFTriA)	0.45		0.27	0.068	ug/Kg	1	☒	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	1.58		0.67	0.27	ug/Kg	1	☒	537 (modified)	Total/NA

Client Sample ID: WSG-S5-0.5-2.0-0

Lab Sample ID: 460-196639-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid (PFHxA)	0.076	J Z	0.22	0.046	ug/Kg	1	☒	537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	0.044	J	0.22	0.032	ug/Kg	1	☒	537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	0.13	J	0.22	0.095	ug/Kg	1	☒	537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	0.12	J	0.22	0.040	ug/Kg	1	☒	537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	0.13	J	0.22	0.024	ug/Kg	1	☒	537 (modified)	Total/NA
Perfluoroundecanoic acid (PFUnA)	0.50		0.22	0.040	ug/Kg	1	☒	537 (modified)	Total/NA
Perfluorododecanoic acid (PFDoA)	0.11	J	0.22	0.074	ug/Kg	1	☒	537 (modified)	Total/NA
Perfluorotridecanoic acid (PFTriA)	0.72		0.22	0.056	ug/Kg	1	☒	537 (modified)	Total/NA
Perfluorotetradecanoic acid (PFTeA)	0.075	J	0.22	0.060	ug/Kg	1	☒	537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	0.074	J	0.22	0.034	ug/Kg	1	☒	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	2.17		0.55	0.22	ug/Kg	1	☒	537 (modified)	Total/NA

Client Sample ID: WSG-S8-0.0-0.2-0

Lab Sample ID: 460-196639-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanoic acid (PFOA)	0.16	J	0.25	0.11	ug/Kg	1	☒	537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	0.11	J	0.25	0.045	ug/Kg	1	☒	537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	0.13	J	0.25	0.028	ug/Kg	1	☒	537 (modified)	Total/NA
Perfluoroundecanoic acid (PFUnA)	0.26		0.25	0.045	ug/Kg	1	☒	537 (modified)	Total/NA
Perfluorotridecanoic acid (PFTriA)	0.11	J	0.25	0.064	ug/Kg	1	☒	537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	0.053	J	0.25	0.039	ug/Kg	1	☒	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	1.56	B	0.63	0.25	ug/Kg	1	☒	537 (modified)	Total/NA

Client Sample ID: WSG-S8-0.5-2.0-0

Lab Sample ID: 460-196639-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorononanoic acid (PFNA)	0.039	J	0.21	0.038	ug/Kg	1	☒	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.80	B	0.52	0.21	ug/Kg	1	☒	537 (modified)	Total/NA

Client Sample ID: WSG-S9-0.0-0.2-0

Lab Sample ID: 460-196639-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluoroheptanoic acid (PFHpA)	0.046	J	0.29	0.042	ug/Kg	1	☒	537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	0.19	J	0.29	0.13	ug/Kg	1	☒	537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	0.13	J	0.29	0.052	ug/Kg	1	☒	537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	0.22	J	0.29	0.032	ug/Kg	1	☒	537 (modified)	Total/NA
Perfluoroundecanoic acid (PFUnA)	1.07		0.29	0.052	ug/Kg	1	☒	537 (modified)	Total/NA
Perfluorododecanoic acid (PFDoA)	0.11	J	0.29	0.097	ug/Kg	1	☒	537 (modified)	Total/NA
Perfluorotridecanoic acid (PFTriA)	0.35		0.29	0.074	ug/Kg	1	☒	537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	0.099	J	0.29	0.036	ug/Kg	1	☒	537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	0.054	J	0.29	0.045	ug/Kg	1	☒	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	2.49	B	0.73	0.29	ug/Kg	1	☒	537 (modified)	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Edison

Detection Summary

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196639-1

Client Sample ID: WSG-S9-0.5-2.0-0

Lab Sample ID: 460-196639-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanoic acid (PFOA)	0.13	J	0.22	0.094	ug/Kg	1	☒	537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	0.088	J	0.22	0.039	ug/Kg	1	☒	537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	0.044	J	0.22	0.024	ug/Kg	1	☒	537 (modified)	Total/NA
Perfluoroundecanoic acid (PFUnA)	0.13	J	0.22	0.039	ug/Kg	1	☒	537 (modified)	Total/NA
Perfluorotridecanoic acid (PFTriA)	0.070	J	0.22	0.056	ug/Kg	1	☒	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	1.13	B	0.55	0.22	ug/Kg	1	☒	537 (modified)	Total/NA

Client Sample ID: WSG-GS1-0.0-0.2-0

Lab Sample ID: 460-196639-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	11		6.3	6.0	ug/Kg	1	☒	8260C	Total/NA
Methylene Chloride	0.50	J	1.1	0.49	ug/Kg	1	☒	8260C	Total/NA
Benzo[b]fluoranthene	11	J	41	11	ug/Kg	1	☒	8270D	Total/NA
4,4'-DDT	7.3	J	8.4	1.5	ug/Kg	1	☒	8081B	Total/NA
Dieldrin	4.1		2.5	1.1	ug/Kg	1	☒	8081B	Total/NA
Perfluorononanoic acid (PFNA)	0.064	J	0.23	0.042	ug/Kg	1	☒	537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	0.081	J	0.23	0.026	ug/Kg	1	☒	537 (modified)	Total/NA
Perfluoroundecanoic acid (PFUnA)	0.13	J	0.23	0.042	ug/Kg	1	☒	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	1.38	B	0.59	0.23	ug/Kg	1	☒	537 (modified)	Total/NA
Iron	7320		35.7	17.5	mg/Kg	4	☒	6010D	Total/NA
Aluminum	5380		47.6	13.5	mg/Kg	4	☒	6010D	Total/NA
Arsenic	6.7		3.6	1.4	mg/Kg	4	☒	6010D	Total/NA
Boron	5.9	J	11.9	3.3	mg/Kg	4	☒	6010D	Total/NA
Barium	19.5	J	47.6	2.6	mg/Kg	4	☒	6010D	Total/NA
Beryllium	0.32	J	0.48	0.11	mg/Kg	4	☒	6010D	Total/NA
Calcium	1140	J	1190	70.1	mg/Kg	4	☒	6010D	Total/NA
Cobalt	2.3	J	11.9	1.5	mg/Kg	4	☒	6010D	Total/NA
Chromium	8.7		2.4	0.42	mg/Kg	4	☒	6010D	Total/NA
Copper	17.1		6.0	3.2	mg/Kg	4	☒	6010D	Total/NA
Potassium	322	J	1190	74.0	mg/Kg	4	☒	6010D	Total/NA
Magnesium	990	J	1190	69.4	mg/Kg	4	☒	6010D	Total/NA
Manganese	102		3.6	0.42	mg/Kg	4	☒	6010D	Total/NA
Nickel	4.7	J	9.5	0.88	mg/Kg	4	☒	6010D	Total/NA
Lead	16.6		2.4	0.62	mg/Kg	4	☒	6010D	Total/NA
Strontium	5.9		4.8	0.48	mg/Kg	4	☒	6010D	Total/NA
Titanium	289		4.8	0.72	mg/Kg	4	☒	6010D	Total/NA
Vanadium	11.5	J	11.9	0.79	mg/Kg	4	☒	6010D	Total/NA
Zinc	26.9		7.1	5.5	mg/Kg	4	☒	6010D	Total/NA
Mercury	0.038		0.020	0.012	mg/Kg	1	☒	7471B	Total/NA

Client Sample ID: WSG-GS1-0.0-0.2-1

Lab Sample ID: 460-196639-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	17		7.7	7.3	ug/Kg	1	☒	8260C	Total/NA
Methylene Chloride	0.67	J	1.3	0.59	ug/Kg	1	☒	8260C	Total/NA
Benzaldehyde	67	J	400	17	ug/Kg	1	☒	8270D	Total/NA
Benzo[a]anthracene	28	J	40	14	ug/Kg	1	☒	8270D	Total/NA
Benzo[a]pyrene	25	J	40	11	ug/Kg	1	☒	8270D	Total/NA
Benzo[b]fluoranthene	45		40	10	ug/Kg	1	☒	8270D	Total/NA
Benzo[g,h,i]perylene	18	J	400	12	ug/Kg	1	☒	8270D	Total/NA
Benzo[k]fluoranthene	15	J	40	7.9	ug/Kg	1	☒	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Edison

Detection Summary

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196639-1

Client Sample ID: WSG-GS1-0.0-0.2-1 (Continued)

Lab Sample ID: 460-196639-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chrysene	29	J	400	6.8	ug/Kg	1	☒	8270D	Total/NA
Fluoranthene	23	J	400	14	ug/Kg	1	☒	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	21	J	40	16	ug/Kg	1	☒	8270D	Total/NA
Pyrene	27	J	400	10	ug/Kg	1	☒	8270D	Total/NA
4,4'-DDE	14		8.1	0.96	ug/Kg	1	☒	8081B	Total/NA
4,4'-DDT	8.0	J	8.1	1.5	ug/Kg	1	☒	8081B	Total/NA
Dieldrin	5.0		2.4	1.1	ug/Kg	1	☒	8081B	Total/NA
Perfluorononanoic acid (PFNA)	0.057	J	0.23	0.042	ug/Kg	1	☒	537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	0.087	J	0.23	0.026	ug/Kg	1	☒	537 (modified)	Total/NA
Perfluoroundecanoic acid (PFUnA)	0.16	J	0.23	0.042	ug/Kg	1	☒	537 (modified)	Total/NA
Perfluorotridecanoic acid (PFTriA)	0.088	J	0.23	0.060	ug/Kg	1	☒	537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	0.036	J	0.23	0.036	ug/Kg	1	☒	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	1.52	B	0.59	0.23	ug/Kg	1	☒	537 (modified)	Total/NA
Iron	7050		34.7	17.0	mg/Kg	4	☒	6010D	Total/NA
Aluminum	5280		46.2	13.1	mg/Kg	4	☒	6010D	Total/NA
Arsenic	6.1		3.5	1.4	mg/Kg	4	☒	6010D	Total/NA
Boron	5.7	J	11.6	3.2	mg/Kg	4	☒	6010D	Total/NA
Barium	18.5	J	46.2	2.6	mg/Kg	4	☒	6010D	Total/NA
Beryllium	0.28	J	0.46	0.10	mg/Kg	4	☒	6010D	Total/NA
Calcium	1140	J	1160	68.1	mg/Kg	4	☒	6010D	Total/NA
Cobalt	2.3	J	11.6	1.4	mg/Kg	4	☒	6010D	Total/NA
Chromium	8.8		2.3	0.41	mg/Kg	4	☒	6010D	Total/NA
Copper	16.4		5.8	3.1	mg/Kg	4	☒	6010D	Total/NA
Potassium	307	J	1160	71.9	mg/Kg	4	☒	6010D	Total/NA
Magnesium	932	J	1160	67.4	mg/Kg	4	☒	6010D	Total/NA
Manganese	99.5		3.5	0.40	mg/Kg	4	☒	6010D	Total/NA
Nickel	4.5	J	9.2	0.85	mg/Kg	4	☒	6010D	Total/NA
Lead	16.6		2.3	0.60	mg/Kg	4	☒	6010D	Total/NA
Strontium	5.8		4.6	0.46	mg/Kg	4	☒	6010D	Total/NA
Titanium	291		4.6	0.70	mg/Kg	4	☒	6010D	Total/NA
Vanadium	11.3	J	11.6	0.77	mg/Kg	4	☒	6010D	Total/NA
Zinc	26.6		6.9	5.4	mg/Kg	4	☒	6010D	Total/NA
Mercury	0.035		0.021	0.012	mg/Kg	1	☒	7471B	Total/NA

Client Sample ID: WSG-GS9-0.0-0.2-0

Lab Sample ID: 460-196639-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzaldehyde	26	J	370	16	ug/Kg	1	☒	8270D	Total/NA
Benzo[a]anthracene	22	J	37	13	ug/Kg	1	☒	8270D	Total/NA
Benzo[a]pyrene	21	J	37	9.8	ug/Kg	1	☒	8270D	Total/NA
Benzo[b]fluoranthene	43		37	9.6	ug/Kg	1	☒	8270D	Total/NA
Benzo[g,h,i]perylene	18	J	370	11	ug/Kg	1	☒	8270D	Total/NA
Benzo[k]fluoranthene	13	J	37	7.2	ug/Kg	1	☒	8270D	Total/NA
Chrysene	32	J	370	6.2	ug/Kg	1	☒	8270D	Total/NA
Fluoranthene	21	J	370	13	ug/Kg	1	☒	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	20	J	37	14	ug/Kg	1	☒	8270D	Total/NA
Phenanthrene	11	J	370	6.5	ug/Kg	1	☒	8270D	Total/NA
Pyrene	24	J	370	9.2	ug/Kg	1	☒	8270D	Total/NA
Perfluorodecanoic acid (PFDA)	0.037	J	0.21	0.023	ug/Kg	1	☒	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.39	J B	0.52	0.21	ug/Kg	1	☒	537 (modified)	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Edison

Detection Summary

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196639-1

Client Sample ID: WSG-GS9-0.0-0.2-0 (Continued)

Lab Sample ID: 460-196639-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	2790		32.9	16.1	mg/Kg	4	☼	6010D	Total/NA
Aluminum	1540		43.8	12.4	mg/Kg	4	☼	6010D	Total/NA
Arsenic	1.6	J	3.3	1.3	mg/Kg	4	☼	6010D	Total/NA
Boron	4.4	J	11.0	3.0	mg/Kg	4	☼	6010D	Total/NA
Barium	9.8	J	43.8	2.4	mg/Kg	4	☼	6010D	Total/NA
Calcium	931	J	1100	64.5	mg/Kg	4	☼	6010D	Total/NA
Chromium	3.2		2.2	0.39	mg/Kg	4	☼	6010D	Total/NA
Potassium	174	J	1100	68.1	mg/Kg	4	☼	6010D	Total/NA
Magnesium	714	J	1100	63.8	mg/Kg	4	☼	6010D	Total/NA
Manganese	54.9		3.3	0.38	mg/Kg	4	☼	6010D	Total/NA
Nickel	2.1	J	8.8	0.80	mg/Kg	4	☼	6010D	Total/NA
Lead	2.8		2.2	0.57	mg/Kg	4	☼	6010D	Total/NA
Strontium	2.5	J	4.4	0.44	mg/Kg	4	☼	6010D	Total/NA
Titanium	97.3		4.4	0.66	mg/Kg	4	☼	6010D	Total/NA
Vanadium	4.9	J	11.0	0.73	mg/Kg	4	☼	6010D	Total/NA
Zinc	6.7		6.6	5.1	mg/Kg	4	☼	6010D	Total/NA

Client Sample ID: WSG-GS9-0.5-2.0-0

Lab Sample ID: 460-196639-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	13	J	37	13	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	11	J	37	9.5	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	13	J	370	13	ug/Kg	1	☼	8270D	Total/NA
Perfluorodecanoic acid (PFDA)	0.084	J	0.21	0.023	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	0.032	J	0.21	0.032	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	2.67	B	0.52	0.21	ug/Kg	1	☼	537 (modified)	Total/NA
Iron	3070		33.4	16.4	mg/Kg	4	☼	6010D	Total/NA
Aluminum	1630		44.5	12.6	mg/Kg	4	☼	6010D	Total/NA
Arsenic	1.6	J	3.3	1.3	mg/Kg	4	☼	6010D	Total/NA
Boron	5.2	J	11.1	3.1	mg/Kg	4	☼	6010D	Total/NA
Barium	9.6	J	44.5	2.5	mg/Kg	4	☼	6010D	Total/NA
Beryllium	0.11	J	0.45	0.099	mg/Kg	4	☼	6010D	Total/NA
Calcium	549	J	1110	65.5	mg/Kg	4	☼	6010D	Total/NA
Chromium	5.2		2.2	0.40	mg/Kg	4	☼	6010D	Total/NA
Potassium	226	J	1110	69.2	mg/Kg	4	☼	6010D	Total/NA
Magnesium	561	J	1110	64.9	mg/Kg	4	☼	6010D	Total/NA
Manganese	38.8		3.3	0.39	mg/Kg	4	☼	6010D	Total/NA
Nickel	2.3	J	8.9	0.82	mg/Kg	4	☼	6010D	Total/NA
Lead	3.2		2.2	0.58	mg/Kg	4	☼	6010D	Total/NA
Strontium	2.1	J	4.5	0.44	mg/Kg	4	☼	6010D	Total/NA
Titanium	98.4		4.5	0.67	mg/Kg	4	☼	6010D	Total/NA
Vanadium	5.0	J	11.1	0.74	mg/Kg	4	☼	6010D	Total/NA
Zinc	7.5		6.7	5.2	mg/Kg	4	☼	6010D	Total/NA

Client Sample ID: WSG-GS2-0.0-0.2-0

Lab Sample ID: 460-196639-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	7.4	J	7.8	7.4	ug/Kg	1	☼	8260C	Total/NA
Toluene	0.51	J	1.3	0.30	ug/Kg	1	☼	8260C	Total/NA
Xylenes, Total	0.43	J	2.6	0.23	ug/Kg	1	☼	8260C	Total/NA
4,4'-DDE	5.4	J	8.2	0.97	ug/Kg	1	☼	8081B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Edison

Detection Summary

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196639-1

Client Sample ID: WSG-GS2-0.0-0.2-0 (Continued)

Lab Sample ID: 460-196639-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
4,4'-DDT	3.8	J	8.2	1.5	ug/Kg	1	☼	8081B	Total/NA
Perfluorodecanoic acid (PFDA)	0.039	J	0.24	0.026	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.36	J B	0.60	0.24	ug/Kg	1	☼	537 (modified)	Total/NA
Iron	6930		34.6	17.0	mg/Kg	4	☼	6010D	Total/NA
Aluminum	5300		46.2	13.0	mg/Kg	4	☼	6010D	Total/NA
Arsenic	5.2		3.5	1.3	mg/Kg	4	☼	6010D	Total/NA
Boron	5.9	J	11.5	3.2	mg/Kg	4	☼	6010D	Total/NA
Barium	14.3	J	46.2	2.6	mg/Kg	4	☼	6010D	Total/NA
Beryllium	0.25	J	0.46	0.10	mg/Kg	4	☼	6010D	Total/NA
Calcium	462	J	1150	68.0	mg/Kg	4	☼	6010D	Total/NA
Cobalt	2.1	J	11.5	1.4	mg/Kg	4	☼	6010D	Total/NA
Chromium	7.4		2.3	0.41	mg/Kg	4	☼	6010D	Total/NA
Copper	9.7		5.8	3.1	mg/Kg	4	☼	6010D	Total/NA
Potassium	276	J	1150	71.8	mg/Kg	4	☼	6010D	Total/NA
Magnesium	936	J	1150	67.3	mg/Kg	4	☼	6010D	Total/NA
Manganese	63.1		3.5	0.40	mg/Kg	4	☼	6010D	Total/NA
Nickel	4.2	J	9.2	0.85	mg/Kg	4	☼	6010D	Total/NA
Lead	7.0		2.3	0.60	mg/Kg	4	☼	6010D	Total/NA
Strontium	2.8	J	4.6	0.46	mg/Kg	4	☼	6010D	Total/NA
Titanium	291		4.6	0.69	mg/Kg	4	☼	6010D	Total/NA
Vanadium	10.8	J	11.5	0.77	mg/Kg	4	☼	6010D	Total/NA
Zinc	13.4		6.9	5.4	mg/Kg	4	☼	6010D	Total/NA
Mercury	0.017	J	0.019	0.011	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: WSG-GS9-3.5-0

Lab Sample ID: 460-196639-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorononanoic acid (PFNA)	0.041	J	0.21	0.037	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	0.033	J	0.21	0.032	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.34	J B	0.52	0.21	ug/Kg	1	☼	537 (modified)	Total/NA

Client Sample ID: WSG-C10-COMP-0

Lab Sample ID: 460-196639-27

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	1.2		1.1	0.49	ug/Kg	1	☼	8260C	Total/NA
4,4'-DDD	3.4	J p	7.8	1.3	ug/Kg	1	☼	8081B	Total/NA
4,4'-DDE	25		7.8	0.91	ug/Kg	1	☼	8081B	Total/NA
4,4'-DDT	49		7.8	1.4	ug/Kg	1	☼	8081B	Total/NA
Perfluorononanoic acid (PFNA)	0.042	J	0.21	0.038	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	0.083	J	0.21	0.023	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluoroundecanoic acid (PFUnA)	0.055	J	0.21	0.038	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	1.16	B	0.53	0.21	ug/Kg	1	☼	537 (modified)	Total/NA
Iron	6390		33.7	16.5	mg/Kg	4	☼	6010D	Total/NA
Aluminum	5520		45.0	12.7	mg/Kg	4	☼	6010D	Total/NA
Arsenic	4.0		3.4	1.3	mg/Kg	4	☼	6010D	Total/NA
Boron	5.5	J	11.2	3.1	mg/Kg	4	☼	6010D	Total/NA
Barium	14.2	J	45.0	2.5	mg/Kg	4	☼	6010D	Total/NA
Beryllium	0.21	J	0.45	0.10	mg/Kg	4	☼	6010D	Total/NA
Calcium	1290		1120	66.2	mg/Kg	4	☼	6010D	Total/NA
Cobalt	1.5	J	11.2	1.4	mg/Kg	4	☼	6010D	Total/NA
Chromium	6.5		2.2	0.40	mg/Kg	4	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Edison

Detection Summary

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196639-1

Client Sample ID: WSG-C10-COMP-0 (Continued)

Lab Sample ID: 460-196639-27

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	8.9		5.6	3.0	mg/Kg	4	☒	6010D	Total/NA
Potassium	308	J	1120	69.9	mg/Kg	4	☒	6010D	Total/NA
Magnesium	776	J	1120	65.5	mg/Kg	4	☒	6010D	Total/NA
Manganese	70.4		3.4	0.39	mg/Kg	4	☒	6010D	Total/NA
Nickel	3.5	J	9.0	0.83	mg/Kg	4	☒	6010D	Total/NA
Lead	10.2		2.2	0.59	mg/Kg	4	☒	6010D	Total/NA
Strontium	5.8		4.5	0.45	mg/Kg	4	☒	6010D	Total/NA
Titanium	246		4.5	0.68	mg/Kg	4	☒	6010D	Total/NA
Vanadium	9.9	J	11.2	0.75	mg/Kg	4	☒	6010D	Total/NA
Zinc	21.0		6.7	5.2	mg/Kg	4	☒	6010D	Total/NA
Mercury	0.024		0.019	0.011	mg/Kg	1	☒	7471B	Total/NA

Client Sample ID: WSG-C9-COMP-0

Lab Sample ID: 460-196639-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	0.57	J	1.1	0.51	ug/Kg	1	☒	8260C	Total/NA
4,4'-DDE	5.3	J	7.6	0.90	ug/Kg	1	☒	8081B	Total/NA
4,4'-DDT	6.9	J	7.6	1.4	ug/Kg	1	☒	8081B	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.75	B	0.54	0.22	ug/Kg	1	☒	537 (modified)	Total/NA
Iron	13500		32.9	16.1	mg/Kg	4	☒	6010D	Total/NA
Aluminum	10600		43.8	12.4	mg/Kg	4	☒	6010D	Total/NA
Arsenic	7.5		3.3	1.3	mg/Kg	4	☒	6010D	Total/NA
Boron	6.0	J	11.0	3.0	mg/Kg	4	☒	6010D	Total/NA
Barium	25.4	J	43.8	2.4	mg/Kg	4	☒	6010D	Total/NA
Beryllium	0.53		0.44	0.097	mg/Kg	4	☒	6010D	Total/NA
Calcium	547	J	1100	64.5	mg/Kg	4	☒	6010D	Total/NA
Cobalt	4.1	J	11.0	1.3	mg/Kg	4	☒	6010D	Total/NA
Chromium	13.6		2.2	0.39	mg/Kg	4	☒	6010D	Total/NA
Copper	14.2		5.5	2.9	mg/Kg	4	☒	6010D	Total/NA
Potassium	514	J	1100	68.1	mg/Kg	4	☒	6010D	Total/NA
Magnesium	1910		1100	63.9	mg/Kg	4	☒	6010D	Total/NA
Manganese	135		3.3	0.38	mg/Kg	4	☒	6010D	Total/NA
Nickel	8.4	J	8.8	0.81	mg/Kg	4	☒	6010D	Total/NA
Lead	14.3		2.2	0.57	mg/Kg	4	☒	6010D	Total/NA
Strontium	3.7	J	4.4	0.44	mg/Kg	4	☒	6010D	Total/NA
Titanium	560		4.4	0.66	mg/Kg	4	☒	6010D	Total/NA
Vanadium	20.5		11.0	0.73	mg/Kg	4	☒	6010D	Total/NA
Zinc	27.6		6.6	5.1	mg/Kg	4	☒	6010D	Total/NA
Mercury	0.016	J	0.018	0.011	mg/Kg	1	☒	7471B	Total/NA

Client Sample ID: WSG-C12-COMP-0

Lab Sample ID: 460-196639-29

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	1.1		1.1	0.49	ug/Kg	1	☒	8260C	Total/NA
Benzo[a]anthracene	14	J	39	14	ug/Kg	1	☒	8270D	Total/NA
4,4'-DDE	30		7.9	0.93	ug/Kg	1	☒	8081B	Total/NA
4,4'-DDT	26		7.9	1.4	ug/Kg	1	☒	8081B	Total/NA
Dieldrin	5.2		2.4	1.0	ug/Kg	1	☒	8081B	Total/NA
Perfluorononanoic acid (PFNA)	0.048	J	0.23	0.041	ug/Kg	1	☒	537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	0.15	J	0.23	0.025	ug/Kg	1	☒	537 (modified)	Total/NA
Perfluoroundecanoic acid (PFUnA)	0.043	J	0.23	0.041	ug/Kg	1	☒	537 (modified)	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196639-1

Client Sample ID: WSG-C12-COMP-0 (Continued)

Lab Sample ID: 460-196639-29

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanesulfonic acid (PFOS)	0.58	B	0.58	0.23	ug/Kg	1	☒	537 (modified)	Total/NA
Iron	9250		32.4	15.9	mg/Kg	4	☒	6010D	Total/NA
Aluminum	7890		43.2	12.2	mg/Kg	4	☒	6010D	Total/NA
Arsenic	4.8		3.2	1.3	mg/Kg	4	☒	6010D	Total/NA
Boron	5.7	J	10.8	3.0	mg/Kg	4	☒	6010D	Total/NA
Barium	19.6	J	43.2	2.4	mg/Kg	4	☒	6010D	Total/NA
Beryllium	0.33	J	0.43	0.096	mg/Kg	4	☒	6010D	Total/NA
Calcium	966	J	1080	63.6	mg/Kg	4	☒	6010D	Total/NA
Cobalt	2.5	J	10.8	1.3	mg/Kg	4	☒	6010D	Total/NA
Chromium	9.4		2.2	0.38	mg/Kg	4	☒	6010D	Total/NA
Copper	10.5		5.4	2.9	mg/Kg	4	☒	6010D	Total/NA
Potassium	363	J	1080	67.2	mg/Kg	4	☒	6010D	Total/NA
Magnesium	1310		1080	63.0	mg/Kg	4	☒	6010D	Total/NA
Manganese	99.7		3.2	0.38	mg/Kg	4	☒	6010D	Total/NA
Nickel	5.4	J	8.6	0.79	mg/Kg	4	☒	6010D	Total/NA
Lead	9.6		2.2	0.56	mg/Kg	4	☒	6010D	Total/NA
Strontium	5.2		4.3	0.43	mg/Kg	4	☒	6010D	Total/NA
Titanium	386		4.3	0.65	mg/Kg	4	☒	6010D	Total/NA
Vanadium	15.0		10.8	0.72	mg/Kg	4	☒	6010D	Total/NA
Zinc	20.3		6.5	5.0	mg/Kg	4	☒	6010D	Total/NA
Mercury	0.031		0.019	0.011	mg/Kg	1	☒	7471B	Total/NA

Client Sample ID: WSG-C12-COMP-1

Lab Sample ID: 460-196639-30

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	0.78	J	1.2	0.57	ug/Kg	1	☒	8260C	Total/NA
4,4'-DDE	26		7.9	0.93	ug/Kg	1	☒	8081B	Total/NA
4,4'-DDT	24		7.9	1.5	ug/Kg	1	☒	8081B	Total/NA
Dieldrin	4.8		2.4	1.0	ug/Kg	1	☒	8081B	Total/NA
Perfluorooctanoic acid (PFOA)	0.10	J	0.23	0.099	ug/Kg	1	☒	537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	0.076	J	0.23	0.042	ug/Kg	1	☒	537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	0.081	J	0.23	0.025	ug/Kg	1	☒	537 (modified)	Total/NA
Perfluoroundecanoic acid (PFUnA)	0.046	J	0.23	0.042	ug/Kg	1	☒	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	1.08	B	0.58	0.23	ug/Kg	1	☒	537 (modified)	Total/NA
Iron	11600		33.4	16.4	mg/Kg	4	☒	6010D	Total/NA
Aluminum	10200		44.6	12.6	mg/Kg	4	☒	6010D	Total/NA
Arsenic	6.2		3.3	1.3	mg/Kg	4	☒	6010D	Total/NA
Boron	6.0	J	11.1	3.1	mg/Kg	4	☒	6010D	Total/NA
Barium	25.2	J	44.6	2.5	mg/Kg	4	☒	6010D	Total/NA
Beryllium	0.41	J	0.45	0.099	mg/Kg	4	☒	6010D	Total/NA
Calcium	1050	J	1110	65.6	mg/Kg	4	☒	6010D	Total/NA
Cobalt	2.8	J	11.1	1.4	mg/Kg	4	☒	6010D	Total/NA
Chromium	11.7		2.2	0.40	mg/Kg	4	☒	6010D	Total/NA
Copper	11.2		5.6	3.0	mg/Kg	4	☒	6010D	Total/NA
Potassium	380	J	1110	69.3	mg/Kg	4	☒	6010D	Total/NA
Magnesium	1460		1110	64.9	mg/Kg	4	☒	6010D	Total/NA
Manganese	125		3.3	0.39	mg/Kg	4	☒	6010D	Total/NA
Nickel	6.7	J	8.9	0.82	mg/Kg	4	☒	6010D	Total/NA
Lead	14.3		2.2	0.58	mg/Kg	4	☒	6010D	Total/NA
Strontium	6.2		4.5	0.44	mg/Kg	4	☒	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196639-1

Client Sample ID: WSG-C12-COMP-1 (Continued)

Lab Sample ID: 460-196639-30

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Titanium	471		4.5	0.67	mg/Kg	4	☒	6010D	Total/NA
Vanadium	18.5		11.1	0.74	mg/Kg	4	☒	6010D	Total/NA
Zinc	26.5		6.7	5.2	mg/Kg	4	☒	6010D	Total/NA
Mercury	0.028		0.020	0.012	mg/Kg	1	☒	7471B	Total/NA

Client Sample ID: WSG-C8-COMP-0

Lab Sample ID: 460-196639-31

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	0.82	J	1.0	0.48	ug/Kg	1	☒	8260C	Total/NA
4,4'-DDE	9.2		7.3	0.87	ug/Kg	1	☒	8081B	Total/NA
4,4'-DDT	8.3		7.3	1.3	ug/Kg	1	☒	8081B	Total/NA
Perfluorodecanoic acid (PFDA)	0.046	J	0.22	0.024	ug/Kg	1	☒	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.69	B	0.54	0.22	ug/Kg	1	☒	537 (modified)	Total/NA
Iron	4900		32.9	16.1	mg/Kg	4	☒	6010D	Total/NA
Aluminum	3510		43.8	12.4	mg/Kg	4	☒	6010D	Total/NA
Arsenic	4.4		3.3	1.3	mg/Kg	4	☒	6010D	Total/NA
Barium	10.7	J	43.8	2.4	mg/Kg	4	☒	6010D	Total/NA
Beryllium	0.26	J	0.44	0.098	mg/Kg	4	☒	6010D	Total/NA
Calcium	719	J	1100	64.5	mg/Kg	4	☒	6010D	Total/NA
Cobalt	1.5	J	11.0	1.3	mg/Kg	4	☒	6010D	Total/NA
Chromium	5.2		2.2	0.39	mg/Kg	4	☒	6010D	Total/NA
Copper	4.9	J	5.5	2.9	mg/Kg	4	☒	6010D	Total/NA
Potassium	242	J	1100	68.2	mg/Kg	4	☒	6010D	Total/NA
Magnesium	706	J	1100	63.9	mg/Kg	4	☒	6010D	Total/NA
Manganese	62.6		3.3	0.38	mg/Kg	4	☒	6010D	Total/NA
Nickel	2.8	J	8.8	0.81	mg/Kg	4	☒	6010D	Total/NA
Lead	8.9		2.2	0.57	mg/Kg	4	☒	6010D	Total/NA
Strontium	3.5	J	4.4	0.44	mg/Kg	4	☒	6010D	Total/NA
Titanium	196		4.4	0.66	mg/Kg	4	☒	6010D	Total/NA
Vanadium	7.6	J	11.0	0.73	mg/Kg	4	☒	6010D	Total/NA
Zinc	13.8		6.6	5.1	mg/Kg	4	☒	6010D	Total/NA
Mercury	0.022		0.019	0.011	mg/Kg	1	☒	7471B	Total/NA

Client Sample ID: WSG-C11-COMP-0

Lab Sample ID: 460-196639-32

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	26	J	36	13	ug/Kg	1	☒	8270D	Total/NA
Benzo[a]pyrene	32	J	36	9.6	ug/Kg	1	☒	8270D	Total/NA
Benzo[b]fluoranthene	36		36	9.4	ug/Kg	1	☒	8270D	Total/NA
Benzo[g,h,i]perylene	20	J	360	11	ug/Kg	1	☒	8270D	Total/NA
Benzo[k]fluoranthene	12	J	36	7.1	ug/Kg	1	☒	8270D	Total/NA
Chrysene	41	J	360	6.1	ug/Kg	1	☒	8270D	Total/NA
Fluoranthene	18	J	360	13	ug/Kg	1	☒	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	15	J	36	14	ug/Kg	1	☒	8270D	Total/NA
Phenanthrene	10	J	360	6.4	ug/Kg	1	☒	8270D	Total/NA
Pyrene	23	J	360	9.0	ug/Kg	1	☒	8270D	Total/NA
4,4'-DDE	4.3	J	7.3	0.87	ug/Kg	1	☒	8081B	Total/NA
4,4'-DDT	2.7	J	7.3	1.3	ug/Kg	1	☒	8081B	Total/NA
Perfluoroheptanoic acid (PFHpA)	0.049	J	0.20	0.029	ug/Kg	1	☒	537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	0.15	J	0.20	0.087	ug/Kg	1	☒	537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	0.067	J	0.20	0.036	ug/Kg	1	☒	537 (modified)	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196639-1

Client Sample ID: WSG-C11-COMP-0 (Continued)

Lab Sample ID: 460-196639-32

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorodecanoic acid (PFDA)	0.056	J	0.20	0.022	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluoroundecanoic acid (PFUnA)	0.044	J	0.20	0.036	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	0.038	J	0.20	0.031	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.64	B	0.51	0.20	ug/Kg	1	☼	537 (modified)	Total/NA
Iron	4930		32.9	16.1	mg/Kg	4	☼	6010D	Total/NA
Aluminum	3990		43.8	12.4	mg/Kg	4	☼	6010D	Total/NA
Arsenic	2.8	J	3.3	1.3	mg/Kg	4	☼	6010D	Total/NA
Boron	5.2	J	11.0	3.0	mg/Kg	4	☼	6010D	Total/NA
Barium	10.1	J	43.8	2.4	mg/Kg	4	☼	6010D	Total/NA
Beryllium	0.20	J	0.44	0.097	mg/Kg	4	☼	6010D	Total/NA
Calcium	685	J	1100	64.5	mg/Kg	4	☼	6010D	Total/NA
Cobalt	1.3	J	11.0	1.3	mg/Kg	4	☼	6010D	Total/NA
Chromium	5.2		2.2	0.39	mg/Kg	4	☼	6010D	Total/NA
Copper	5.9		5.5	2.9	mg/Kg	4	☼	6010D	Total/NA
Potassium	223	J	1100	68.1	mg/Kg	4	☼	6010D	Total/NA
Magnesium	654	J	1100	63.8	mg/Kg	4	☼	6010D	Total/NA
Manganese	52.6		3.3	0.38	mg/Kg	4	☼	6010D	Total/NA
Nickel	2.7	J	8.8	0.80	mg/Kg	4	☼	6010D	Total/NA
Lead	6.0		2.2	0.57	mg/Kg	4	☼	6010D	Total/NA
Strontium	3.2	J	4.4	0.44	mg/Kg	4	☼	6010D	Total/NA
Titanium	201		4.4	0.66	mg/Kg	4	☼	6010D	Total/NA
Vanadium	8.3	J	11.0	0.73	mg/Kg	4	☼	6010D	Total/NA
Zinc	11.9		6.6	5.1	mg/Kg	4	☼	6010D	Total/NA
Mercury	0.042		0.017	0.010	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: WSG-C7-COMP-0

Lab Sample ID: 460-196639-33

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	7.1	J	7.4	7.1	ug/Kg	1	☼	8260C	Total/NA
4,4'-DDE	9.3		7.6	0.89	ug/Kg	1	☼	8081B	Total/NA
4,4'-DDT	9.2		7.6	1.4	ug/Kg	1	☼	8081B	Total/NA
Perfluorodecanoic acid (PFDA)	0.040	J	0.22	0.024	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.39	J B	0.54	0.22	ug/Kg	1	☼	537 (modified)	Total/NA
Iron	7830		33.5	16.4	mg/Kg	4	☼	6010D	Total/NA
Aluminum	5770		44.7	12.6	mg/Kg	4	☼	6010D	Total/NA
Arsenic	6.3		3.3	1.3	mg/Kg	4	☼	6010D	Total/NA
Boron	6.6	J	11.2	3.1	mg/Kg	4	☼	6010D	Total/NA
Barium	15.4	J	44.7	2.5	mg/Kg	4	☼	6010D	Total/NA
Beryllium	0.26	J	0.45	0.099	mg/Kg	4	☼	6010D	Total/NA
Calcium	1640		1120	65.8	mg/Kg	4	☼	6010D	Total/NA
Cobalt	2.3	J	11.2	1.4	mg/Kg	4	☼	6010D	Total/NA
Chromium	8.3		2.2	0.40	mg/Kg	4	☼	6010D	Total/NA
Copper	11.1		5.6	3.0	mg/Kg	4	☼	6010D	Total/NA
Potassium	358	J	1120	69.5	mg/Kg	4	☼	6010D	Total/NA
Magnesium	1320		1120	65.1	mg/Kg	4	☼	6010D	Total/NA
Manganese	94.5		3.3	0.39	mg/Kg	4	☼	6010D	Total/NA
Nickel	5.2	J	8.9	0.82	mg/Kg	4	☼	6010D	Total/NA
Lead	7.3		2.2	0.58	mg/Kg	4	☼	6010D	Total/NA
Strontium	6.2		4.5	0.45	mg/Kg	4	☼	6010D	Total/NA
Titanium	310		4.5	0.67	mg/Kg	4	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196639-1

Client Sample ID: WSG-C7-COMP-0 (Continued)

Lab Sample ID: 460-196639-33

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vanadium	12.1		11.2	0.74	mg/Kg	4	☼	6010D	Total/NA
Zinc	17.6		6.7	5.2	mg/Kg	4	☼	6010D	Total/NA
Mercury	0.017	J	0.018	0.011	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: WSG-EB-LINER-20191111

Lab Sample ID: 460-196639-34

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorotetradecanoic acid (PFTeA)	0.37	J	1.95	0.28	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	0.27	J B	1.95	0.17	ng/L	1		537 (modified)	Total/NA
Manganese	1.1	J	15.0	0.99	ug/L	1		6010D	Total/NA
Zinc	7.0	J	30.0	3.6	ug/L	1		6010D	Total/NA

Client Sample ID: WSG-EB-SAMPLER-20191111

Lab Sample ID: 460-196639-35

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanesulfonic acid (PFBS)	0.24	J	1.81	0.18	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	0.25	J B	1.81	0.15	ng/L	1		537 (modified)	Total/NA
Manganese	1.5	J	15.0	0.99	ug/L	1		6010D	Total/NA
Zinc	8.0	J	30.0	3.6	ug/L	1		6010D	Total/NA

Client Sample ID: WSG-GW6-29-0

Lab Sample ID: 460-196639-36

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid (PFHxA)	12.0		1.87	0.54	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	6.64		1.87	0.23	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	14.3		1.87	0.80	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	8.43		1.87	0.25	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	2.93		1.87	0.19	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	24.9	B	1.87	0.16	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	31.8		1.87	0.51	ng/L	1		537 (modified)	Total/NA

Client Sample ID: WSG-GW6-19-0

Lab Sample ID: 460-196639-37

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid (PFHxA)	14.0		1.81	0.53	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	8.65		1.81	0.23	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	23.5		1.81	0.77	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	10.7		1.81	0.24	ng/L	1		537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	0.65	J	1.81	0.28	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	2.79		1.81	0.18	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	16.4	B	1.81	0.15	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	44.2		1.81	0.49	ng/L	1		537 (modified)	Total/NA

Client Sample ID: WSG-GW6-9-0

Lab Sample ID: 460-196639-38

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid (PFHxA)	21.0		1.77	0.51	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	12.9		1.77	0.22	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	39.6		1.77	0.75	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	8.24		1.77	0.24	ng/L	1		537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	0.53	J	1.77	0.27	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	3.84		1.77	0.18	ng/L	1		537 (modified)	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: New York State D.E.C.
Project/Site: DEC - WAINSCOTT SAND & GRAVEL
SITE:15225

Job ID: 460-196639-1

Client Sample ID: WSG-GW6-9-0 (Continued)

Lab Sample ID: 460-196639-38

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanesulfonic acid (PFHxS)	17.7	B	1.77	0.15	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	36.2		1.77	0.48	ng/L	1		537 (modified)	Total/NA
Iron	8950		150	34.2	ug/L	1		6010D	Total/NA
Arsenic	19.6		15.0	2.7	ug/L	1		6010D	Total/NA
Boron	43.1	J	50.0	12.7	ug/L	1		6010D	Total/NA
Barium	116	J	200	7.7	ug/L	1		6010D	Total/NA
Calcium	117000		5000	222	ug/L	1		6010D	Total/NA
Cadmium	0.22	J	4.0	0.22	ug/L	1		6010D	Total/NA
Cobalt	18.7	J	50.0	1.7	ug/L	1		6010D	Total/NA
Chromium	8.1	J	10.0	1.3	ug/L	1		6010D	Total/NA
Potassium	8860		5000	323	ug/L	1		6010D	Total/NA
Magnesium	16200		5000	177	ug/L	1		6010D	Total/NA
Manganese	27600		45.0	3.0	ug/L	3		6010D	Total/NA
Sodium	16600		5000	460	ug/L	1		6010D	Total/NA
Nickel	10.5	J	40.0	1.7	ug/L	1		6010D	Total/NA
Lead	4.7	J	10.0	2.5	ug/L	1		6010D	Total/NA
Strontium	558		20.0	0.70	ug/L	1		6010D	Total/NA
Titanium	4.8	J	20.0	2.0	ug/L	1		6010D	Total/NA
Thallium	53.7		20.0	5.4	ug/L	1		6010D	Total/NA
Zinc	10.5	J	30.0	3.6	ug/L	1		6010D	Total/NA

Client Sample ID: WSG-EB-SPOON-20191112

Lab Sample ID: 460-196639-39

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanesulfonic acid (PFHxS)	0.29	J B	1.83	0.16	ng/L	1		537 (modified)	Total/NA

Client Sample ID: WSG-EB-BOWL-20191112

Lab Sample ID: 460-196639-40

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanesulfonic acid (PFHxS)	0.27	J B	1.83	0.16	ng/L	1		537 (modified)	Total/NA

Client Sample ID: WSG-TB-20191112

Lab Sample ID: 460-196639-41

No Detections.

Client Sample ID: WSG-GW9-26-0

Lab Sample ID: 460-196639-42

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid (PFHxA)	27.3		1.93	0.56	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	27.7		1.93	0.24	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	200		1.93	0.82	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	7.75		1.93	0.26	ng/L	1		537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	0.56	J	1.93	0.30	ng/L	1		537 (modified)	Total/NA
Perfluorotetradecanoic acid (PFTeA)	0.36	J	1.93	0.28	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	7.10		1.93	0.19	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	274	B	1.93	0.16	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	243		1.93	0.52	ng/L	1		537 (modified)	Total/NA

Client Sample ID: WSG-GW9-16-0

Lab Sample ID: 460-196639-43

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid (PFHxA)	17.2		1.81	0.52	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	15.5		1.81	0.23	ng/L	1		537 (modified)	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Edison

Detection Summary

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196639-1

Client Sample ID: WSG-GW9-16-0 (Continued)

Lab Sample ID: 460-196639-43

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanoic acid (PFOA)	118		1.81	0.77	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	5.98		1.81	0.24	ng/L	1		537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	0.70	J	1.81	0.28	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	3.59		1.81	0.18	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	101	B	1.81	0.15	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	130		1.81	0.49	ng/L	1		537 (modified)	Total/NA

Client Sample ID: WSG-C6-COMP-0

Lab Sample ID: 460-196639-44

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	1.0	J	1.2	0.55	ug/Kg	1	☼	8260C	Total/NA
Benzo[a]anthracene	18	J	37	13	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	16	J	37	9.6	ug/Kg	1	☼	8270D	Total/NA
Chrysene	12	J	370	6.3	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	13	J	370	13	ug/Kg	1	☼	8270D	Total/NA
4,4'-DDE	9.8		7.6	0.89	ug/Kg	1	☼	8081B	Total/NA
4,4'-DDT	17		7.6	1.4	ug/Kg	1	☼	8081B	Total/NA
Perfluoroheptanoic acid (PFHpA)	0.036	J Z	0.23	0.033	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	0.041	J	0.23	0.041	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.37	J B	0.57	0.23	ug/Kg	1	☼	537 (modified)	Total/NA
Iron	7720		32.9	16.1	mg/Kg	4	☼	6010D	Total/NA
Aluminum	6170		43.8	12.4	mg/Kg	4	☼	6010D	Total/NA
Arsenic	8.8		3.3	1.3	mg/Kg	4	☼	6010D	Total/NA
Boron	5.9	J	11.0	3.0	mg/Kg	4	☼	6010D	Total/NA
Barium	16.3	J	43.8	2.4	mg/Kg	4	☼	6010D	Total/NA
Beryllium	0.28	J	0.44	0.098	mg/Kg	4	☼	6010D	Total/NA
Calcium	2200		1100	64.5	mg/Kg	4	☼	6010D	Total/NA
Cobalt	2.4	J	11.0	1.3	mg/Kg	4	☼	6010D	Total/NA
Chromium	8.2		2.2	0.39	mg/Kg	4	☼	6010D	Total/NA
Copper	18.6		5.5	2.9	mg/Kg	4	☼	6010D	Total/NA
Potassium	372	J	1100	68.2	mg/Kg	4	☼	6010D	Total/NA
Magnesium	1200		1100	63.9	mg/Kg	4	☼	6010D	Total/NA
Manganese	85.5		3.3	0.38	mg/Kg	4	☼	6010D	Total/NA
Nickel	4.7	J	8.8	0.81	mg/Kg	4	☼	6010D	Total/NA
Lead	8.2		2.2	0.57	mg/Kg	4	☼	6010D	Total/NA
Strontium	7.9		4.4	0.44	mg/Kg	4	☼	6010D	Total/NA
Titanium	324		4.4	0.66	mg/Kg	4	☼	6010D	Total/NA
Vanadium	12.4		11.0	0.73	mg/Kg	4	☼	6010D	Total/NA
Zinc	18.1		6.6	5.1	mg/Kg	4	☼	6010D	Total/NA
Mercury	0.021		0.019	0.011	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: WSG-C5-COMP-0

Lab Sample ID: 460-196639-45

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
4,4'-DDD	4.7	J	7.8	1.3	ug/Kg	1	☼	8081B	Total/NA
4,4'-DDE	32		7.8	0.92	ug/Kg	1	☼	8081B	Total/NA
4,4'-DDT	44		7.8	1.4	ug/Kg	1	☼	8081B	Total/NA
Dieldrin	5.4		2.3	1.0	ug/Kg	1	☼	8081B	Total/NA
Perfluorodecanoic acid (PFDA)	0.051	J	0.22	0.024	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluoroundecanoic acid (PFUnA)	0.039	J	0.22	0.039	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.29	J B	0.54	0.22	ug/Kg	1	☼	537 (modified)	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Edison

Detection Summary

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196639-1

Client Sample ID: WSG-C5-COMP-0 (Continued)

Lab Sample ID: 460-196639-45

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	8220		33.5	16.4	mg/Kg	4	☼	6010D	Total/NA
Aluminum	6650		44.7	12.6	mg/Kg	4	☼	6010D	Total/NA
Arsenic	9.3		3.4	1.3	mg/Kg	4	☼	6010D	Total/NA
Boron	5.5	J	11.2	3.1	mg/Kg	4	☼	6010D	Total/NA
Barium	16.5	J	44.7	2.5	mg/Kg	4	☼	6010D	Total/NA
Beryllium	0.32	J	0.45	0.099	mg/Kg	4	☼	6010D	Total/NA
Calcium	547	J	1120	65.8	mg/Kg	4	☼	6010D	Total/NA
Cobalt	2.3	J	11.2	1.4	mg/Kg	4	☼	6010D	Total/NA
Chromium	8.3		2.2	0.40	mg/Kg	4	☼	6010D	Total/NA
Copper	19.9		5.6	3.0	mg/Kg	4	☼	6010D	Total/NA
Potassium	411	J	1120	69.5	mg/Kg	4	☼	6010D	Total/NA
Magnesium	1100	J	1120	65.1	mg/Kg	4	☼	6010D	Total/NA
Manganese	91.6		3.4	0.39	mg/Kg	4	☼	6010D	Total/NA
Nickel	5.0	J	8.9	0.82	mg/Kg	4	☼	6010D	Total/NA
Lead	9.1		2.2	0.58	mg/Kg	4	☼	6010D	Total/NA
Strontium	3.1	J	4.5	0.45	mg/Kg	4	☼	6010D	Total/NA
Titanium	331		4.5	0.67	mg/Kg	4	☼	6010D	Total/NA
Vanadium	13.0		11.2	0.74	mg/Kg	4	☼	6010D	Total/NA
Zinc	15.2		6.7	5.2	mg/Kg	4	☼	6010D	Total/NA
Mercury	0.028		0.017	0.010	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: WSG-GS1-0.5-2.0-0

Lab Sample ID: 460-196639-46

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	1.3		1.1	0.50	ug/Kg	1	☼	8260C	Total/NA
Perfluorononanoic acid (PFNA)	0.047	J	0.20	0.037	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	0.040	J	0.20	0.023	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluoroundecanoic acid (PFUnA)	0.049	J Z	0.20	0.037	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.45	J B	0.51	0.20	ug/Kg	1	☼	537 (modified)	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: New York State D.E.C.

Job ID: 460-196639-1

Project/Site: DEC - WAINSCOTT SAND & GRAVEL

SITE:15225

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL EDI
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL EDI
8270D SIM	Semivolatile Organic Compounds (GC/MS SIM)	SW846	TAL EDI
608.3	Organochlorine Pesticides/PCBs in Water	40CFR136A	TAL EDI
8081B	Organochlorine Pesticides (GC)	SW846	TAL EDI
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL EDI
8151A	Herbicides (GC)	SW846	TAL EDI
537 (modified)	Fluorinated Alkyl Substances	EPA	TAL SAC
6010D	Metals (ICP)	SW846	TAL EDI
7470A	Mercury (CVAA)	SW846	TAL EDI
7471B	Mercury (CVAA)	SW846	TAL EDI
D 2216	Percent Moisture	ASTM	TAL SAC
Moisture	Percent Moisture	EPA	TAL EDI
3010A	Preparation, Total Metals	SW846	TAL EDI
3050B	Preparation, Metals	SW846	TAL EDI
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL EDI
3535	Solid-Phase Extraction (SPE)	SW846	TAL SAC
3546	Microwave Extraction	SW846	TAL EDI
5030C	Purge and Trap	SW846	TAL EDI
5035	Closed System Purge and Trap	SW846	TAL EDI
608	Liquid-Liquid Extraction (Separatory Funnel)	40CFR136A	TAL EDI
7470A	Preparation, Mercury	SW846	TAL EDI
7471B	Preparation, Mercury	SW846	TAL EDI
8151A	Extraction (Herbicides)	SW846	TAL EDI
SHAKE	Shake Extraction with Ultrasonic Bath Extraction	SW846	TAL SAC

Protocol References:

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL EDI = Eurofins TestAmerica, Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

TAL SAC = Eurofins TestAmerica, Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196639-1

Client Sample ID: WSG-GS6-0.0-0.2-0

Lab Sample ID: 460-196639-1

Date Collected: 11/11/19 08:00

Matrix: Solid

Date Received: 11/15/19 21:07

Percent Solids: 83.5

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.1	U	1.1	0.26	ug/Kg	☼	11/19/19 01:55	11/24/19 08:44	1
1,1,2,2-Tetrachloroethane	1.1	U	1.1	0.24	ug/Kg	☼	11/19/19 01:55	11/24/19 08:44	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.1	U	1.1	0.34	ug/Kg	☼	11/19/19 01:55	11/24/19 08:44	1
1,1,2-Trichloroethane	1.1	U	1.1	0.20	ug/Kg	☼	11/19/19 01:55	11/24/19 08:44	1
1,1-Dichloroethane	1.1	U	1.1	0.23	ug/Kg	☼	11/19/19 01:55	11/24/19 08:44	1
1,1-Dichloroethene	1.1	U	1.1	0.25	ug/Kg	☼	11/19/19 01:55	11/24/19 08:44	1
1,2,4-Trichlorobenzene	1.1	U	1.1	0.40	ug/Kg	☼	11/19/19 01:55	11/24/19 08:44	1
1,2-Dibromo-3-Chloropropane	1.1	U	1.1	0.51	ug/Kg	☼	11/19/19 01:55	11/24/19 08:44	1
1,2-Dichlorobenzene	1.1	U	1.1	0.16	ug/Kg	☼	11/19/19 01:55	11/24/19 08:44	1
1,2-Dichloroethane	1.1	U	1.1	0.33	ug/Kg	☼	11/19/19 01:55	11/24/19 08:44	1
1,2-Dichloropropane	1.1	U	1.1	0.47	ug/Kg	☼	11/19/19 01:55	11/24/19 08:44	1
1,3-Dichlorobenzene	1.1	U	1.1	0.18	ug/Kg	☼	11/19/19 01:55	11/24/19 08:44	1
1,4-Dichlorobenzene	1.1	U	1.1	0.25	ug/Kg	☼	11/19/19 01:55	11/24/19 08:44	1
2-Butanone (MEK)	5.6	U	5.6	3.0	ug/Kg	☼	11/19/19 01:55	11/24/19 08:44	1
2-Hexanone	5.6	U	5.6	1.9	ug/Kg	☼	11/19/19 01:55	11/24/19 08:44	1
4-Methyl-2-pentanone (MIBK)	5.6	U	5.6	1.7	ug/Kg	☼	11/19/19 01:55	11/24/19 08:44	1
Acetone	6.7	U	6.7	6.4	ug/Kg	☼	11/19/19 01:55	11/24/19 08:44	1
Benzene	1.1	U	1.1	0.29	ug/Kg	☼	11/19/19 01:55	11/24/19 08:44	1
Bromoform	1.1	U	1.1	0.47	ug/Kg	☼	11/19/19 01:55	11/24/19 08:44	1
Bromomethane	1.1	U	1.1	0.53	ug/Kg	☼	11/19/19 01:55	11/24/19 08:44	1
Carbon disulfide	1.1	U	1.1	0.30	ug/Kg	☼	11/19/19 01:55	11/24/19 08:44	1
Carbon tetrachloride	1.1	U	1.1	0.43	ug/Kg	☼	11/19/19 01:55	11/24/19 08:44	1
Chlorobenzene	1.1	U	1.1	0.20	ug/Kg	☼	11/19/19 01:55	11/24/19 08:44	1
Chlorodibromomethane	1.1	U	1.1	0.22	ug/Kg	☼	11/19/19 01:55	11/24/19 08:44	1
Chloroethane	1.1	U	1.1	0.58	ug/Kg	☼	11/19/19 01:55	11/24/19 08:44	1
Chloroform	1.1	U	1.1	0.36	ug/Kg	☼	11/19/19 01:55	11/24/19 08:44	1
Chloromethane	1.1	U	1.1	0.49	ug/Kg	☼	11/19/19 01:55	11/24/19 08:44	1
cis-1,2-Dichloroethene	1.1	U	1.1	0.17	ug/Kg	☼	11/19/19 01:55	11/24/19 08:44	1
cis-1,3-Dichloropropene	1.1	U	1.1	0.30	ug/Kg	☼	11/19/19 01:55	11/24/19 08:44	1
Cyclohexane	1.1	U	1.1	0.25	ug/Kg	☼	11/19/19 01:55	11/24/19 08:44	1
Dichlorobromomethane	1.1	U	1.1	0.29	ug/Kg	☼	11/19/19 01:55	11/24/19 08:44	1
Dichlorodifluoromethane	1.1	U	1.1	0.38	ug/Kg	☼	11/19/19 01:55	11/24/19 08:44	1
Ethylbenzene	1.1	U	1.1	0.22	ug/Kg	☼	11/19/19 01:55	11/24/19 08:44	1
Ethylene Dibromide	1.1	U	1.1	0.20	ug/Kg	☼	11/19/19 01:55	11/24/19 08:44	1
Isopropylbenzene	1.1	U	1.1	0.14	ug/Kg	☼	11/19/19 01:55	11/24/19 08:44	1
Methyl acetate	5.6	U *	5.6	4.8	ug/Kg	☼	11/19/19 01:55	11/24/19 08:44	1
Methyl tert-butyl ether	1.1	U	1.1	0.14	ug/Kg	☼	11/19/19 01:55	11/24/19 08:44	1
Methylcyclohexane	1.1	U	1.1	0.56	ug/Kg	☼	11/19/19 01:55	11/24/19 08:44	1
Methylene Chloride	1.1	U	1.1	0.52	ug/Kg	☼	11/19/19 01:55	11/24/19 08:44	1
Styrene	1.1	U	1.1	0.31	ug/Kg	☼	11/19/19 01:55	11/24/19 08:44	1
Tetrachloroethene	1.1	U	1.1	0.16	ug/Kg	☼	11/19/19 01:55	11/24/19 08:44	1
Toluene	1.1	U	1.1	0.26	ug/Kg	☼	11/19/19 01:55	11/24/19 08:44	1
trans-1,2-Dichloroethene	1.1	U	1.1	0.27	ug/Kg	☼	11/19/19 01:55	11/24/19 08:44	1
trans-1,3-Dichloropropene	1.1	U	1.1	0.30	ug/Kg	☼	11/19/19 01:55	11/24/19 08:44	1
Trichloroethene	1.1	U	1.1	0.16	ug/Kg	☼	11/19/19 01:55	11/24/19 08:44	1
Trichlorofluoromethane	1.1	U	1.1	0.45	ug/Kg	☼	11/19/19 01:55	11/24/19 08:44	1
Vinyl chloride	1.1	U	1.1	0.61	ug/Kg	☼	11/19/19 01:55	11/24/19 08:44	1
Xylenes, Total	2.2	U	2.2	0.19	ug/Kg	☼	11/19/19 01:55	11/24/19 08:44	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196639-1

Client Sample ID: WSG-GS6-0.0-0.2-0

Lab Sample ID: 460-196639-1

Date Collected: 11/11/19 08:00

Matrix: Solid

Date Received: 11/15/19 21:07

Percent Solids: 83.5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	119		78 - 135	11/19/19 01:55	11/24/19 08:44	1
4-Bromofluorobenzene	96		67 - 126	11/19/19 01:55	11/24/19 08:44	1
Dibromofluoromethane (Surr)	103		61 - 149	11/19/19 01:55	11/24/19 08:44	1
Toluene-d8 (Surr)	91		73 - 121	11/19/19 01:55	11/24/19 08:44	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	390	U	390	5.3	ug/Kg	☼	11/17/19 12:36	11/18/19 08:47	1
2,2'-oxybis[1-chloropropane]	390	U	390	7.2	ug/Kg	☼	11/17/19 12:36	11/18/19 08:47	1
2,4,5-Trichlorophenol	390	U	390	40	ug/Kg	☼	11/17/19 12:36	11/18/19 08:47	1
2,4,6-Trichlorophenol	160	U	160	51	ug/Kg	☼	11/17/19 12:36	11/18/19 08:47	1
2,4-Dichlorophenol	160	U	160	25	ug/Kg	☼	11/17/19 12:36	11/18/19 08:47	1
2,4-Dimethylphenol	390	U	390	17	ug/Kg	☼	11/17/19 12:36	11/18/19 08:47	1
2,4-Dinitrophenol	320	U	320	190	ug/Kg	☼	11/17/19 12:36	11/18/19 08:47	1
2,4-Dinitrotoluene	80	U	80	43	ug/Kg	☼	11/17/19 12:36	11/18/19 08:47	1
2,6-Dinitrotoluene	80	U	80	29	ug/Kg	☼	11/17/19 12:36	11/18/19 08:47	1
2-Chloronaphthalene	390	U	390	18	ug/Kg	☼	11/17/19 12:36	11/18/19 08:47	1
2-Chlorophenol	390	U	390	14	ug/Kg	☼	11/17/19 12:36	11/18/19 08:47	1
2-Methylnaphthalene	390	U	390	11	ug/Kg	☼	11/17/19 12:36	11/18/19 08:47	1
2-Methylphenol	390	U	390	15	ug/Kg	☼	11/17/19 12:36	11/18/19 08:47	1
2-Nitroaniline	390	U	390	15	ug/Kg	☼	11/17/19 12:36	11/18/19 08:47	1
2-Nitrophenol	390	U	390	40	ug/Kg	☼	11/17/19 12:36	11/18/19 08:47	1
3,3'-Dichlorobenzidine	160	U	160	60	ug/Kg	☼	11/17/19 12:36	11/18/19 08:47	1
3-Nitroaniline	390	U	390	45	ug/Kg	☼	11/17/19 12:36	11/18/19 08:47	1
4,6-Dinitro-2-methylphenol	320	U	320	64	ug/Kg	☼	11/17/19 12:36	11/18/19 08:47	1
4-Bromophenyl phenyl ether	390	U	390	16	ug/Kg	☼	11/17/19 12:36	11/18/19 08:47	1
4-Chloro-3-methylphenol	390	U	390	22	ug/Kg	☼	11/17/19 12:36	11/18/19 08:47	1
4-Chloroaniline	390	U	390	28	ug/Kg	☼	11/17/19 12:36	11/18/19 08:47	1
4-Chlorophenyl phenyl ether	390	U	390	14	ug/Kg	☼	11/17/19 12:36	11/18/19 08:47	1
4-Methylphenol	390	U	390	25	ug/Kg	☼	11/17/19 12:36	11/18/19 08:47	1
4-Nitroaniline	390	U	390	45	ug/Kg	☼	11/17/19 12:36	11/18/19 08:47	1
4-Nitrophenol	800	U	800	65	ug/Kg	☼	11/17/19 12:36	11/18/19 08:47	1
Acenaphthene	390	U	390	29	ug/Kg	☼	11/17/19 12:36	11/18/19 08:47	1
Acenaphthylene	390	U	390	4.1	ug/Kg	☼	11/17/19 12:36	11/18/19 08:47	1
Acetophenone	390	U	390	19	ug/Kg	☼	11/17/19 12:36	11/18/19 08:47	1
Anthracene	390	U	390	12	ug/Kg	☼	11/17/19 12:36	11/18/19 08:47	1
Atrazine	160	U	160	10	ug/Kg	☼	11/17/19 12:36	11/18/19 08:47	1
Benzaldehyde	28	J	390	17	ug/Kg	☼	11/17/19 12:36	11/18/19 08:47	1
Benzo[a]anthracene	18	J	39	14	ug/Kg	☼	11/17/19 12:36	11/18/19 08:47	1
Benzo[a]pyrene	39	U	39	11	ug/Kg	☼	11/17/19 12:36	11/18/19 08:47	1
Benzo[b]fluoranthene	19	J	39	10	ug/Kg	☼	11/17/19 12:36	11/18/19 08:47	1
Benzo[g,h,i]perylene	390	U	390	12	ug/Kg	☼	11/17/19 12:36	11/18/19 08:47	1
Benzo[k]fluoranthene	39	U	39	7.8	ug/Kg	☼	11/17/19 12:36	11/18/19 08:47	1
Bis(2-chloroethoxy)methane	390	U	390	31	ug/Kg	☼	11/17/19 12:36	11/18/19 08:47	1
Bis(2-chloroethyl)ether	39	U	39	14	ug/Kg	☼	11/17/19 12:36	11/18/19 08:47	1
Bis(2-ethylhexyl) phthalate	390	U	390	21	ug/Kg	☼	11/17/19 12:36	11/18/19 08:47	1
Butyl benzyl phthalate	80	J	390	19	ug/Kg	☼	11/17/19 12:36	11/18/19 08:47	1
Caprolactam	390	U	390	62	ug/Kg	☼	11/17/19 12:36	11/18/19 08:47	1
Carbazole	390	U	390	15	ug/Kg	☼	11/17/19 12:36	11/18/19 08:47	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196639-1

Client Sample ID: WSG-GS6-0.0-0.2-0

Lab Sample ID: 460-196639-1

Date Collected: 11/11/19 08:00

Matrix: Solid

Date Received: 11/15/19 21:07

Percent Solids: 83.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	13	J	390	6.7	ug/Kg	☼	11/17/19 12:36	11/18/19 08:47	1
Dibenz(a,h)anthracene	39	U	39	17	ug/Kg	☼	11/17/19 12:36	11/18/19 08:47	1
Dibenzofuran	390	U	390	5.6	ug/Kg	☼	11/17/19 12:36	11/18/19 08:47	1
Diethyl phthalate	390	U	390	5.7	ug/Kg	☼	11/17/19 12:36	11/18/19 08:47	1
Dimethyl phthalate	390	U	390	90	ug/Kg	☼	11/17/19 12:36	11/18/19 08:47	1
Di-n-butyl phthalate	390	U	390	70	ug/Kg	☼	11/17/19 12:36	11/18/19 08:47	1
Di-n-octyl phthalate	390	U	390	21	ug/Kg	☼	11/17/19 12:36	11/18/19 08:47	1
Fluoranthene	15	J	390	14	ug/Kg	☼	11/17/19 12:36	11/18/19 08:47	1
Fluorene	390	U	390	5.4	ug/Kg	☼	11/17/19 12:36	11/18/19 08:47	1
Hexachlorobenzene	39	U	39	19	ug/Kg	☼	11/17/19 12:36	11/18/19 08:47	1
Hexachlorobutadiene	80	U	80	8.4	ug/Kg	☼	11/17/19 12:36	11/18/19 08:47	1
Hexachlorocyclopentadiene	390	U	390	35	ug/Kg	☼	11/17/19 12:36	11/18/19 08:47	1
Hexachloroethane	39	U	39	14	ug/Kg	☼	11/17/19 12:36	11/18/19 08:47	1
Indeno[1,2,3-cd]pyrene	39	U	39	15	ug/Kg	☼	11/17/19 12:36	11/18/19 08:47	1
Isophorone	160	U	160	110	ug/Kg	☼	11/17/19 12:36	11/18/19 08:47	1
Naphthalene	12	J	390	6.8	ug/Kg	☼	11/17/19 12:36	11/18/19 08:47	1
Nitrobenzene	39	U	39	9.5	ug/Kg	☼	11/17/19 12:36	11/18/19 08:47	1
N-Nitrosodi-n-propylamine	39	U	39	29	ug/Kg	☼	11/17/19 12:36	11/18/19 08:47	1
N-Nitrosodiphenylamine	390	U	390	7.6	ug/Kg	☼	11/17/19 12:36	11/18/19 08:47	1
Pentachlorophenol	320	U	320	81	ug/Kg	☼	11/17/19 12:36	11/18/19 08:47	1
Phenanthrene	11	J	390	7.0	ug/Kg	☼	11/17/19 12:36	11/18/19 08:47	1
Phenol	390	U	390	15	ug/Kg	☼	11/17/19 12:36	11/18/19 08:47	1
Pyrene	19	J	390	9.8	ug/Kg	☼	11/17/19 12:36	11/18/19 08:47	1
1,4-Dioxane	120	U	120	11	ug/Kg	☼	11/17/19 12:36	11/18/19 08:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	53		10 - 137	11/17/19 12:36	11/18/19 08:47	1
2-Fluorophenol (Surr)	60		20 - 115	11/17/19 12:36	11/18/19 08:47	1
Nitrobenzene-d5 (Surr)	59		25 - 113	11/17/19 12:36	11/18/19 08:47	1
Terphenyl-d14 (Surr)	63		27 - 123	11/17/19 12:36	11/18/19 08:47	1
Phenol-d5 (Surr)	56		28 - 109	11/17/19 12:36	11/18/19 08:47	1
2-Fluorobiphenyl	56		29 - 107	11/17/19 12:36	11/18/19 08:47	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	8.0	U	8.0	1.4	ug/Kg	☼	11/17/19 08:26	11/19/19 10:19	1
4,4'-DDE	8.0	U	8.0	0.95	ug/Kg	☼	11/17/19 08:26	11/19/19 10:19	1
4,4'-DDT	8.0	U	8.0	1.5	ug/Kg	☼	11/17/19 08:26	11/19/19 10:19	1
Aldrin	8.0	U	8.0	1.2	ug/Kg	☼	11/17/19 08:26	11/19/19 10:19	1
alpha-BHC	2.4	U	2.4	0.81	ug/Kg	☼	11/17/19 08:26	11/19/19 10:19	1
beta-BHC	2.4	U	2.4	0.90	ug/Kg	☼	11/17/19 08:26	11/19/19 10:19	1
Chlordane (technical)	80	U	80	19	ug/Kg	☼	11/17/19 08:26	11/19/19 10:19	1
delta-BHC	2.4	U	2.4	0.49	ug/Kg	☼	11/17/19 08:26	11/19/19 10:19	1
Dieldrin	2.4	U	2.4	1.0	ug/Kg	☼	11/17/19 08:26	11/19/19 10:19	1
Endosulfan I	8.0	U	8.0	1.2	ug/Kg	☼	11/17/19 08:26	11/19/19 10:19	1
Endosulfan II	8.0	U	8.0	2.1	ug/Kg	☼	11/17/19 08:26	11/19/19 10:19	1
Endosulfan sulfate	8.0	U	8.0	1.0	ug/Kg	☼	11/17/19 08:26	11/19/19 10:19	1
Endrin	8.0	U	8.0	1.1	ug/Kg	☼	11/17/19 08:26	11/19/19 10:19	1
Endrin aldehyde	8.0	U	8.0	1.9	ug/Kg	☼	11/17/19 08:26	11/19/19 10:19	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196639-1

Client Sample ID: WSG-GS6-0.0-0.2-0

Lab Sample ID: 460-196639-1

Date Collected: 11/11/19 08:00

Matrix: Solid

Date Received: 11/15/19 21:07

Percent Solids: 83.5

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endrin ketone	8.0	U	8.0	1.6	ug/Kg	☼	11/17/19 08:26	11/19/19 10:19	1
gamma-BHC (Lindane)	2.4	U	2.4	0.74	ug/Kg	☼	11/17/19 08:26	11/19/19 10:19	1
Heptachlor	8.0	U	8.0	0.95	ug/Kg	☼	11/17/19 08:26	11/19/19 10:19	1
Heptachlor epoxide	8.0	U	8.0	1.2	ug/Kg	☼	11/17/19 08:26	11/19/19 10:19	1
Methoxychlor	8.0	U	8.0	1.8	ug/Kg	☼	11/17/19 08:26	11/19/19 10:19	1
Toxaphene	80	U	80	29	ug/Kg	☼	11/17/19 08:26	11/19/19 10:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	79		49 - 150	11/17/19 08:26	11/19/19 10:19	1
DCB Decachlorobiphenyl	84		49 - 150	11/17/19 08:26	11/19/19 10:19	1
Tetrachloro-m-xylene	91		47 - 150	11/17/19 08:26	11/19/19 10:19	1
Tetrachloro-m-xylene	85		47 - 150	11/17/19 08:26	11/19/19 10:19	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	80	U	80	11	ug/Kg	☼	11/17/19 08:18	11/18/19 11:50	1
Aroclor 1221	80	U	80	11	ug/Kg	☼	11/17/19 08:18	11/18/19 11:50	1
Aroclor 1232	80	U	80	11	ug/Kg	☼	11/17/19 08:18	11/18/19 11:50	1
Aroclor 1242	80	U	80	11	ug/Kg	☼	11/17/19 08:18	11/18/19 11:50	1
Aroclor 1248	80	U	80	11	ug/Kg	☼	11/17/19 08:18	11/18/19 11:50	1
Aroclor 1254	80	U	80	11	ug/Kg	☼	11/17/19 08:18	11/18/19 11:50	1
Aroclor 1260	80	U	80	11	ug/Kg	☼	11/17/19 08:18	11/18/19 11:50	1
Aroclor-1262	80	U	80	11	ug/Kg	☼	11/17/19 08:18	11/18/19 11:50	1
Aroclor 1268	80	U	80	11	ug/Kg	☼	11/17/19 08:18	11/18/19 11:50	1
Polychlorinated biphenyls, Total	80	U	80	11	ug/Kg	☼	11/17/19 08:18	11/18/19 11:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	91		53 - 150	11/17/19 08:18	11/18/19 11:50	1
DCB Decachlorobiphenyl	105		53 - 150	11/17/19 08:18	11/18/19 11:50	1

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	40	U	40	14	ug/Kg	☼	11/20/19 02:56	11/20/19 15:29	1
Silvex (2,4,5-TP)	40	U	40	4.2	ug/Kg	☼	11/20/19 02:56	11/20/19 15:29	1
2,4,5-T	40	U	40	8.5	ug/Kg	☼	11/20/19 02:56	11/20/19 15:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	134		30 - 150	11/20/19 02:56	11/20/19 15:29	1
2,4-Dichlorophenylacetic acid	132		30 - 150	11/20/19 02:56	11/20/19 15:29	1

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	0.24	U	0.24	0.050	ug/Kg	☼	11/21/19 08:24	11/25/19 07:52	1
Perfluoroheptanoic acid (PFHpA)	0.24	U	0.24	0.034	ug/Kg	☼	11/21/19 08:24	11/25/19 07:52	1
Perfluorooctanoic acid (PFOA)	0.24	U	0.24	0.10	ug/Kg	☼	11/21/19 08:24	11/25/19 07:52	1
Perfluorononanoic acid (PFNA)	0.049	J	0.24	0.043	ug/Kg	☼	11/21/19 08:24	11/25/19 07:52	1
Perfluorodecanoic acid (PFDA)	0.083	J	0.24	0.026	ug/Kg	☼	11/21/19 08:24	11/25/19 07:52	1
Perfluoroundecanoic acid (PFUnA)	0.066	J	0.24	0.043	ug/Kg	☼	11/21/19 08:24	11/25/19 07:52	1
Perfluorododecanoic acid (PFDoA)	0.24	U	0.24	0.079	ug/Kg	☼	11/21/19 08:24	11/25/19 07:52	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196639-1

Client Sample ID: WSG-GS6-0.0-0.2-0

Lab Sample ID: 460-196639-1

Date Collected: 11/11/19 08:00

Matrix: Solid

Date Received: 11/15/19 21:07

Percent Solids: 83.5

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorotridecanoic acid (PFTriA)	0.24	U	0.24	0.060	ug/Kg	☼	11/21/19 08:24	11/25/19 07:52	1
Perfluorotetradecanoic acid (PFTeA)	0.24	U	0.24	0.064	ug/Kg	☼	11/21/19 08:24	11/25/19 07:52	1
Perfluorobutanesulfonic acid (PFBS)	0.24	U	0.24	0.030	ug/Kg	☼	11/21/19 08:24	11/25/19 07:52	1
Perfluorohexanesulfonic acid (PFHxS)	0.24	U	0.24	0.037	ug/Kg	☼	11/21/19 08:24	11/25/19 07:52	1
Perfluorooctanesulfonic acid (PFOS)	0.95		0.59	0.24	ug/Kg	☼	11/21/19 08:24	11/25/19 07:52	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.37	U	2.37	0.44	ug/Kg	☼	11/21/19 08:24	11/25/19 07:52	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.37	U	2.37	0.46	ug/Kg	☼	11/21/19 08:24	11/25/19 07:52	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C2 PFHxA	95		25 - 150				11/21/19 08:24	11/25/19 07:52	1
13C4 PFHpA	99		25 - 150				11/21/19 08:24	11/25/19 07:52	1
13C4 PFOA	98		25 - 150				11/21/19 08:24	11/25/19 07:52	1
13C5 PFNA	93		25 - 150				11/21/19 08:24	11/25/19 07:52	1
13C2 PFDA	89		25 - 150				11/21/19 08:24	11/25/19 07:52	1
13C2 PFUnA	95		25 - 150				11/21/19 08:24	11/25/19 07:52	1
13C2 PFDoA	89		25 - 150				11/21/19 08:24	11/25/19 07:52	1
13C2 PFTeDA	80		25 - 150				11/21/19 08:24	11/25/19 07:52	1
18O2 PFHxS	106		25 - 150				11/21/19 08:24	11/25/19 07:52	1
13C4 PFOS	87		25 - 150				11/21/19 08:24	11/25/19 07:52	1
d3-NMeFOSAA	75		25 - 150				11/21/19 08:24	11/25/19 07:52	1
d5-NEtFOSAA	88		25 - 150				11/21/19 08:24	11/25/19 07:52	1

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	4990		35.2	17.3	mg/Kg	☼	11/26/19 04:30	11/26/19 17:44	4
Silver	2.3	U	2.3	0.22	mg/Kg	☼	11/26/19 04:30	11/26/19 17:44	4
Aluminum	5140		47.0	13.3	mg/Kg	☼	11/26/19 04:30	11/26/19 17:44	4
Arsenic	3.6		3.5	1.4	mg/Kg	☼	11/26/19 04:30	11/26/19 17:44	4
Boron	5.7	J	11.7	3.3	mg/Kg	☼	11/26/19 04:30	11/26/19 17:44	4
Barium	12.2	J	47.0	2.6	mg/Kg	☼	11/26/19 04:30	11/26/19 17:44	4
Beryllium	0.18	J	0.47	0.10	mg/Kg	☼	11/26/19 04:30	11/26/19 17:44	4
Calcium	1020	J	1170	69.1	mg/Kg	☼	11/26/19 04:30	11/26/19 17:44	4
Cadmium	0.94	U	0.94	0.16	mg/Kg	☼	11/26/19 04:30	11/26/19 17:44	4
Cobalt	11.7	U	11.7	1.4	mg/Kg	☼	11/26/19 04:30	11/26/19 17:44	4
Chromium	5.2		2.3	0.42	mg/Kg	☼	11/26/19 04:30	11/26/19 17:44	4
Copper	6.5		5.9	3.1	mg/Kg	☼	11/26/19 04:30	11/26/19 17:44	4
Potassium	201	J	1170	73.0	mg/Kg	☼	11/26/19 04:30	11/26/19 17:44	4
Magnesium	492	J	1170	68.4	mg/Kg	☼	11/26/19 04:30	11/26/19 17:44	4
Manganese	69.1		3.5	0.41	mg/Kg	☼	11/26/19 04:30	11/26/19 17:44	4
Molybdenum	4.7	U	4.7	1.1	mg/Kg	☼	11/26/19 04:30	11/26/19 17:44	4
Sodium	1170	U	1170	94.4	mg/Kg	☼	11/26/19 04:30	11/26/19 17:44	4
Nickel	3.0	J	9.4	0.86	mg/Kg	☼	11/26/19 04:30	11/26/19 17:44	4
Lead	7.8		2.3	0.61	mg/Kg	☼	11/26/19 04:30	11/26/19 17:44	4
Antimony	4.7	U	4.7	1.2	mg/Kg	☼	11/26/19 04:30	11/26/19 17:44	4
Selenium	4.7	U	4.7	2.8	mg/Kg	☼	11/26/19 04:30	11/26/19 17:44	4
Tin	11.7	U	11.7	7.6	mg/Kg	☼	11/26/19 04:30	11/26/19 17:44	4
Strontium	4.3	J	4.7	0.47	mg/Kg	☼	11/26/19 04:30	11/26/19 17:44	4

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196639-1

Client Sample ID: WSG-GS6-0.0-0.2-0

Lab Sample ID: 460-196639-1

Date Collected: 11/11/19 08:00

Matrix: Solid

Date Received: 11/15/19 21:07

Percent Solids: 83.5

Method: 6010D - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Titanium	195		4.7	0.71	mg/Kg	☼	11/26/19 04:30	11/26/19 17:44	4
Thallium	4.7	U	4.7	0.75	mg/Kg	☼	11/26/19 04:30	11/26/19 17:44	4
Vanadium	8.6	J	11.7	0.78	mg/Kg	☼	11/26/19 04:30	11/26/19 17:44	4
Zinc	16.4		7.0	5.5	mg/Kg	☼	11/26/19 04:30	11/26/19 17:44	4

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.034		0.020	0.012	mg/Kg	☼	11/25/19 04:00	11/25/19 08:22	1

Client Sample ID: WSG-GS6-0.5-2.0-0

Lab Sample ID: 460-196639-2

Date Collected: 11/11/19 08:10

Matrix: Solid

Date Received: 11/15/19 21:07

Percent Solids: 94.0

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.97	U	0.97	0.23	ug/Kg	☼	11/19/19 01:54	11/24/19 09:07	1
1,1,2,2-Tetrachloroethane	0.97	U	0.97	0.21	ug/Kg	☼	11/19/19 01:54	11/24/19 09:07	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.97	U	0.97	0.29	ug/Kg	☼	11/19/19 01:54	11/24/19 09:07	1
1,1,2-Trichloroethane	0.97	U	0.97	0.17	ug/Kg	☼	11/19/19 01:54	11/24/19 09:07	1
1,1-Dichloroethane	0.97	U	0.97	0.20	ug/Kg	☼	11/19/19 01:54	11/24/19 09:07	1
1,1-Dichloroethene	0.97	U	0.97	0.22	ug/Kg	☼	11/19/19 01:54	11/24/19 09:07	1
1,2,4-Trichlorobenzene	0.97	U	0.97	0.35	ug/Kg	☼	11/19/19 01:54	11/24/19 09:07	1
1,2-Dibromo-3-Chloropropane	0.97	U	0.97	0.45	ug/Kg	☼	11/19/19 01:54	11/24/19 09:07	1
1,2-Dichlorobenzene	0.97	U	0.97	0.14	ug/Kg	☼	11/19/19 01:54	11/24/19 09:07	1
1,2-Dichloroethane	0.97	U	0.97	0.29	ug/Kg	☼	11/19/19 01:54	11/24/19 09:07	1
1,2-Dichloropropane	0.97	U	0.97	0.41	ug/Kg	☼	11/19/19 01:54	11/24/19 09:07	1
1,3-Dichlorobenzene	0.97	U	0.97	0.15	ug/Kg	☼	11/19/19 01:54	11/24/19 09:07	1
1,4-Dichlorobenzene	0.97	U	0.97	0.22	ug/Kg	☼	11/19/19 01:54	11/24/19 09:07	1
2-Butanone (MEK)	4.8	U	4.8	2.6	ug/Kg	☼	11/19/19 01:54	11/24/19 09:07	1
2-Hexanone	4.8	U	4.8	1.7	ug/Kg	☼	11/19/19 01:54	11/24/19 09:07	1
4-Methyl-2-pentanone (MIBK)	4.8	U	4.8	1.5	ug/Kg	☼	11/19/19 01:54	11/24/19 09:07	1
Acetone	5.8	U	5.8	5.5	ug/Kg	☼	11/19/19 01:54	11/24/19 09:07	1
Benzene	0.97	U	0.97	0.25	ug/Kg	☼	11/19/19 01:54	11/24/19 09:07	1
Bromoform	0.97	U	0.97	0.41	ug/Kg	☼	11/19/19 01:54	11/24/19 09:07	1
Bromomethane	0.97	U	0.97	0.46	ug/Kg	☼	11/19/19 01:54	11/24/19 09:07	1
Carbon disulfide	0.97	U	0.97	0.26	ug/Kg	☼	11/19/19 01:54	11/24/19 09:07	1
Carbon tetrachloride	0.97	U	0.97	0.37	ug/Kg	☼	11/19/19 01:54	11/24/19 09:07	1
Chlorobenzene	0.97	U	0.97	0.17	ug/Kg	☼	11/19/19 01:54	11/24/19 09:07	1
Chlorodibromomethane	0.97	U	0.97	0.19	ug/Kg	☼	11/19/19 01:54	11/24/19 09:07	1
Chloroethane	0.97	U	0.97	0.51	ug/Kg	☼	11/19/19 01:54	11/24/19 09:07	1
Chloroform	0.97	U	0.97	0.31	ug/Kg	☼	11/19/19 01:54	11/24/19 09:07	1
Chloromethane	0.97	U	0.97	0.42	ug/Kg	☼	11/19/19 01:54	11/24/19 09:07	1
cis-1,2-Dichloroethene	0.97	U	0.97	0.15	ug/Kg	☼	11/19/19 01:54	11/24/19 09:07	1
cis-1,3-Dichloropropene	0.97	U	0.97	0.26	ug/Kg	☼	11/19/19 01:54	11/24/19 09:07	1
Cyclohexane	0.97	U	0.97	0.21	ug/Kg	☼	11/19/19 01:54	11/24/19 09:07	1
Dichlorobromomethane	0.97	U	0.97	0.25	ug/Kg	☼	11/19/19 01:54	11/24/19 09:07	1
Dichlorodifluoromethane	0.97	U	0.97	0.33	ug/Kg	☼	11/19/19 01:54	11/24/19 09:07	1
Ethylbenzene	0.97	U	0.97	0.19	ug/Kg	☼	11/19/19 01:54	11/24/19 09:07	1
Ethylene Dibromide	0.97	U	0.97	0.17	ug/Kg	☼	11/19/19 01:54	11/24/19 09:07	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196639-1

Client Sample ID: WSG-GS6-0.5-2.0-0

Lab Sample ID: 460-196639-2

Date Collected: 11/11/19 08:10

Matrix: Solid

Date Received: 11/15/19 21:07

Percent Solids: 94.0

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	0.97	U	0.97	0.12	ug/Kg	☼	11/19/19 01:54	11/24/19 09:07	1
Methyl acetate	4.8	U *	4.8	4.2	ug/Kg	☼	11/19/19 01:54	11/24/19 09:07	1
Methyl tert-butyl ether	0.97	U	0.97	0.12	ug/Kg	☼	11/19/19 01:54	11/24/19 09:07	1
Methylcyclohexane	0.97	U	0.97	0.48	ug/Kg	☼	11/19/19 01:54	11/24/19 09:07	1
Methylene Chloride	0.97	U	0.97	0.45	ug/Kg	☼	11/19/19 01:54	11/24/19 09:07	1
Styrene	0.97	U	0.97	0.27	ug/Kg	☼	11/19/19 01:54	11/24/19 09:07	1
Tetrachloroethene	0.97	U	0.97	0.14	ug/Kg	☼	11/19/19 01:54	11/24/19 09:07	1
Toluene	0.97	U	0.97	0.23	ug/Kg	☼	11/19/19 01:54	11/24/19 09:07	1
trans-1,2-Dichloroethene	0.97	U	0.97	0.24	ug/Kg	☼	11/19/19 01:54	11/24/19 09:07	1
trans-1,3-Dichloropropene	0.97	U	0.97	0.26	ug/Kg	☼	11/19/19 01:54	11/24/19 09:07	1
Trichloroethene	0.97	U	0.97	0.14	ug/Kg	☼	11/19/19 01:54	11/24/19 09:07	1
Trichlorofluoromethane	0.97	U	0.97	0.39	ug/Kg	☼	11/19/19 01:54	11/24/19 09:07	1
Vinyl chloride	0.97	U	0.97	0.53	ug/Kg	☼	11/19/19 01:54	11/24/19 09:07	1
Xylenes, Total	1.9	U	1.9	0.17	ug/Kg	☼	11/19/19 01:54	11/24/19 09:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		78 - 135	11/19/19 01:54	11/24/19 09:07	1
4-Bromofluorobenzene	108		67 - 126	11/19/19 01:54	11/24/19 09:07	1
Dibromofluoromethane (Surr)	95		61 - 149	11/19/19 01:54	11/24/19 09:07	1
Toluene-d8 (Surr)	91		73 - 121	11/19/19 01:54	11/24/19 09:07	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	350	U	350	4.7	ug/Kg	☼	11/17/19 12:36	11/18/19 03:27	1
2,2'-oxybis[1-chloropropane]	350	U	350	6.4	ug/Kg	☼	11/17/19 12:36	11/18/19 03:27	1
2,4,5-Trichlorophenol	350	U	350	36	ug/Kg	☼	11/17/19 12:36	11/18/19 03:27	1
2,4,6-Trichlorophenol	140	U	140	45	ug/Kg	☼	11/17/19 12:36	11/18/19 03:27	1
2,4-Dichlorophenol	140	U	140	23	ug/Kg	☼	11/17/19 12:36	11/18/19 03:27	1
2,4-Dimethylphenol	350	U	350	15	ug/Kg	☼	11/17/19 12:36	11/18/19 03:27	1
2,4-Dinitrophenol	280	U	280	170	ug/Kg	☼	11/17/19 12:36	11/18/19 03:27	1
2,4-Dinitrotoluene	71	U	71	38	ug/Kg	☼	11/17/19 12:36	11/18/19 03:27	1
2,6-Dinitrotoluene	71	U	71	25	ug/Kg	☼	11/17/19 12:36	11/18/19 03:27	1
2-Chloronaphthalene	350	U	350	16	ug/Kg	☼	11/17/19 12:36	11/18/19 03:27	1
2-Chlorophenol	350	U	350	13	ug/Kg	☼	11/17/19 12:36	11/18/19 03:27	1
2-Methylnaphthalene	350	U	350	9.8	ug/Kg	☼	11/17/19 12:36	11/18/19 03:27	1
2-Methylphenol	350	U	350	13	ug/Kg	☼	11/17/19 12:36	11/18/19 03:27	1
2-Nitroaniline	350	U	350	13	ug/Kg	☼	11/17/19 12:36	11/18/19 03:27	1
2-Nitrophenol	350	U	350	35	ug/Kg	☼	11/17/19 12:36	11/18/19 03:27	1
3,3'-Dichlorobenzidine	140	U	140	53	ug/Kg	☼	11/17/19 12:36	11/18/19 03:27	1
3-Nitroaniline	350	U	350	40	ug/Kg	☼	11/17/19 12:36	11/18/19 03:27	1
4,6-Dinitro-2-methylphenol	280	U	280	57	ug/Kg	☼	11/17/19 12:36	11/18/19 03:27	1
4-Bromophenyl phenyl ether	350	U	350	14	ug/Kg	☼	11/17/19 12:36	11/18/19 03:27	1
4-Chloro-3-methylphenol	350	U	350	20	ug/Kg	☼	11/17/19 12:36	11/18/19 03:27	1
4-Chloroaniline	350	U	350	25	ug/Kg	☼	11/17/19 12:36	11/18/19 03:27	1
4-Chlorophenyl phenyl ether	350	U	350	12	ug/Kg	☼	11/17/19 12:36	11/18/19 03:27	1
4-Methylphenol	350	U	350	22	ug/Kg	☼	11/17/19 12:36	11/18/19 03:27	1
4-Nitroaniline	350	U	350	40	ug/Kg	☼	11/17/19 12:36	11/18/19 03:27	1
4-Nitrophenol	710	U	710	57	ug/Kg	☼	11/17/19 12:36	11/18/19 03:27	1
Acenaphthene	350	U	350	26	ug/Kg	☼	11/17/19 12:36	11/18/19 03:27	1

Eurofins TestAmerica, Edison

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196639-1

Client Sample ID: WSG-GS6-0.5-2.0-0

Lab Sample ID: 460-196639-2

Date Collected: 11/11/19 08:10

Matrix: Solid

Date Received: 11/15/19 21:07

Percent Solids: 94.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthylene	350	U	350	3.6	ug/Kg	☒	11/17/19 12:36	11/18/19 03:27	1
Acetophenone	350	U	350	17	ug/Kg	☒	11/17/19 12:36	11/18/19 03:27	1
Anthracene	350	U	350	11	ug/Kg	☒	11/17/19 12:36	11/18/19 03:27	1
Atrazine	140	U	140	8.9	ug/Kg	☒	11/17/19 12:36	11/18/19 03:27	1
Benzaldehyde	350	U	350	15	ug/Kg	☒	11/17/19 12:36	11/18/19 03:27	1
Benzo[a]anthracene	17	J	35	12	ug/Kg	☒	11/17/19 12:36	11/18/19 03:27	1
Benzo[a]pyrene	11	J	35	9.4	ug/Kg	☒	11/17/19 12:36	11/18/19 03:27	1
Benzo[b]fluoranthene	15	J	35	9.1	ug/Kg	☒	11/17/19 12:36	11/18/19 03:27	1
Benzo[g,h,i]perylene	350	U	350	10	ug/Kg	☒	11/17/19 12:36	11/18/19 03:27	1
Benzo[k]fluoranthene	6.9	J	35	6.9	ug/Kg	☒	11/17/19 12:36	11/18/19 03:27	1
Bis(2-chloroethoxy)methane	350	U	350	27	ug/Kg	☒	11/17/19 12:36	11/18/19 03:27	1
Bis(2-chloroethyl)ether	35	U	35	12	ug/Kg	☒	11/17/19 12:36	11/18/19 03:27	1
Bis(2-ethylhexyl) phthalate	350	U	350	19	ug/Kg	☒	11/17/19 12:36	11/18/19 03:27	1
Butyl benzyl phthalate	350	U	350	16	ug/Kg	☒	11/17/19 12:36	11/18/19 03:27	1
Caprolactam	350	U	350	55	ug/Kg	☒	11/17/19 12:36	11/18/19 03:27	1
Carbazole	350	U	350	13	ug/Kg	☒	11/17/19 12:36	11/18/19 03:27	1
Chrysene	14	J	350	5.9	ug/Kg	☒	11/17/19 12:36	11/18/19 03:27	1
Dibenz(a,h)anthracene	35	U	35	15	ug/Kg	☒	11/17/19 12:36	11/18/19 03:27	1
Dibenzofuran	350	U	350	4.9	ug/Kg	☒	11/17/19 12:36	11/18/19 03:27	1
Diethyl phthalate	350	U	350	5.1	ug/Kg	☒	11/17/19 12:36	11/18/19 03:27	1
Dimethyl phthalate	350	U	350	80	ug/Kg	☒	11/17/19 12:36	11/18/19 03:27	1
Di-n-butyl phthalate	350	U	350	62	ug/Kg	☒	11/17/19 12:36	11/18/19 03:27	1
Di-n-octyl phthalate	350	U	350	19	ug/Kg	☒	11/17/19 12:36	11/18/19 03:27	1
Fluoranthene	18	J	350	12	ug/Kg	☒	11/17/19 12:36	11/18/19 03:27	1
Fluorene	350	U	350	4.8	ug/Kg	☒	11/17/19 12:36	11/18/19 03:27	1
Hexachlorobenzene	35	U	35	17	ug/Kg	☒	11/17/19 12:36	11/18/19 03:27	1
Hexachlorobutadiene	71	U	71	7.5	ug/Kg	☒	11/17/19 12:36	11/18/19 03:27	1
Hexachlorocyclopentadiene	350	U	350	31	ug/Kg	☒	11/17/19 12:36	11/18/19 03:27	1
Hexachloroethane	35	U	35	12	ug/Kg	☒	11/17/19 12:36	11/18/19 03:27	1
Indeno[1,2,3-cd]pyrene	35	U	35	14	ug/Kg	☒	11/17/19 12:36	11/18/19 03:27	1
Isophorone	140	U	140	100	ug/Kg	☒	11/17/19 12:36	11/18/19 03:27	1
Naphthalene	350	U	350	6.1	ug/Kg	☒	11/17/19 12:36	11/18/19 03:27	1
Nitrobenzene	35	U	35	8.4	ug/Kg	☒	11/17/19 12:36	11/18/19 03:27	1
N-Nitrosodi-n-propylamine	35	U	35	26	ug/Kg	☒	11/17/19 12:36	11/18/19 03:27	1
N-Nitrosodiphenylamine	350	U	350	6.7	ug/Kg	☒	11/17/19 12:36	11/18/19 03:27	1
Pentachlorophenol	280	U	280	72	ug/Kg	☒	11/17/19 12:36	11/18/19 03:27	1
Phenanthrene	350	U	350	6.2	ug/Kg	☒	11/17/19 12:36	11/18/19 03:27	1
Phenol	350	U	350	13	ug/Kg	☒	11/17/19 12:36	11/18/19 03:27	1
Pyrene	17	J	350	8.7	ug/Kg	☒	11/17/19 12:36	11/18/19 03:27	1
1,4-Dioxane	110	U	110	9.7	ug/Kg	☒	11/17/19 12:36	11/18/19 03:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	65		10 - 137	11/17/19 12:36	11/18/19 03:27	1
2-Fluorophenol (Surr)	66		20 - 115	11/17/19 12:36	11/18/19 03:27	1
Nitrobenzene-d5 (Surr)	67		25 - 113	11/17/19 12:36	11/18/19 03:27	1
Terphenyl-d14 (Surr)	74		27 - 123	11/17/19 12:36	11/18/19 03:27	1
Phenol-d5 (Surr)	60		28 - 109	11/17/19 12:36	11/18/19 03:27	1
2-Fluorobiphenyl	61		29 - 107	11/17/19 12:36	11/18/19 03:27	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196639-1

Client Sample ID: WSG-GS6-0.5-2.0-0

Lab Sample ID: 460-196639-2

Date Collected: 11/11/19 08:10

Matrix: Solid

Date Received: 11/15/19 21:07

Percent Solids: 94.0

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	7.1	U	7.1	1.2	ug/Kg	☒	11/17/19 08:26	11/19/19 10:34	1
4,4'-DDE	7.1	U	7.1	0.84	ug/Kg	☒	11/17/19 08:26	11/19/19 10:34	1
4,4'-DDT	7.1	U	7.1	1.3	ug/Kg	☒	11/17/19 08:26	11/19/19 10:34	1
Aldrin	7.1	U	7.1	1.1	ug/Kg	☒	11/17/19 08:26	11/19/19 10:34	1
alpha-BHC	2.1	U	2.1	0.72	ug/Kg	☒	11/17/19 08:26	11/19/19 10:34	1
beta-BHC	2.1	U	2.1	0.80	ug/Kg	☒	11/17/19 08:26	11/19/19 10:34	1
Chlordane (technical)	71	U	71	17	ug/Kg	☒	11/17/19 08:26	11/19/19 10:34	1
delta-BHC	2.1	U	2.1	0.44	ug/Kg	☒	11/17/19 08:26	11/19/19 10:34	1
Dieldrin	2.1	U	2.1	0.93	ug/Kg	☒	11/17/19 08:26	11/19/19 10:34	1
Endosulfan I	7.1	U	7.1	1.1	ug/Kg	☒	11/17/19 08:26	11/19/19 10:34	1
Endosulfan II	7.1	U	7.1	1.8	ug/Kg	☒	11/17/19 08:26	11/19/19 10:34	1
Endosulfan sulfate	7.1	U	7.1	0.89	ug/Kg	☒	11/17/19 08:26	11/19/19 10:34	1
Endrin	7.1	U	7.1	1.0	ug/Kg	☒	11/17/19 08:26	11/19/19 10:34	1
Endrin aldehyde	7.1	U	7.1	1.7	ug/Kg	☒	11/17/19 08:26	11/19/19 10:34	1
Endrin ketone	7.1	U	7.1	1.4	ug/Kg	☒	11/17/19 08:26	11/19/19 10:34	1
gamma-BHC (Lindane)	2.1	U	2.1	0.66	ug/Kg	☒	11/17/19 08:26	11/19/19 10:34	1
Heptachlor	7.1	U	7.1	0.84	ug/Kg	☒	11/17/19 08:26	11/19/19 10:34	1
Heptachlor epoxide	7.1	U	7.1	1.1	ug/Kg	☒	11/17/19 08:26	11/19/19 10:34	1
Methoxychlor	7.1	U	7.1	1.6	ug/Kg	☒	11/17/19 08:26	11/19/19 10:34	1
Toxaphene	71	U	71	26	ug/Kg	☒	11/17/19 08:26	11/19/19 10:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	69		49 - 150	11/17/19 08:26	11/19/19 10:34	1
DCB Decachlorobiphenyl	82		49 - 150	11/17/19 08:26	11/19/19 10:34	1
Tetrachloro-m-xylene	80		47 - 150	11/17/19 08:26	11/19/19 10:34	1
Tetrachloro-m-xylene	74		47 - 150	11/17/19 08:26	11/19/19 10:34	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	71	U	71	9.5	ug/Kg	☒	11/17/19 08:18	11/18/19 12:07	1
Aroclor 1221	71	U	71	9.5	ug/Kg	☒	11/17/19 08:18	11/18/19 12:07	1
Aroclor 1232	71	U	71	9.5	ug/Kg	☒	11/17/19 08:18	11/18/19 12:07	1
Aroclor 1242	71	U	71	9.5	ug/Kg	☒	11/17/19 08:18	11/18/19 12:07	1
Aroclor 1248	71	U	71	9.5	ug/Kg	☒	11/17/19 08:18	11/18/19 12:07	1
Aroclor 1254	71	U	71	9.8	ug/Kg	☒	11/17/19 08:18	11/18/19 12:07	1
Aroclor 1260	71	U	71	9.8	ug/Kg	☒	11/17/19 08:18	11/18/19 12:07	1
Aroclor-1262	71	U	71	9.8	ug/Kg	☒	11/17/19 08:18	11/18/19 12:07	1
Aroclor 1268	71	U	71	9.8	ug/Kg	☒	11/17/19 08:18	11/18/19 12:07	1
Polychlorinated biphenyls, Total	71	U	71	9.8	ug/Kg	☒	11/17/19 08:18	11/18/19 12:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	101		53 - 150	11/17/19 08:18	11/18/19 12:07	1
DCB Decachlorobiphenyl	111		53 - 150	11/17/19 08:18	11/18/19 12:07	1

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	35	U	35	13	ug/Kg	☒	11/20/19 02:56	11/20/19 15:43	1
Silvex (2,4,5-TP)	35	U	35	3.7	ug/Kg	☒	11/20/19 02:56	11/20/19 15:43	1
2,4,5-T	35	U	35	7.5	ug/Kg	☒	11/20/19 02:56	11/20/19 15:43	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196639-1

Client Sample ID: WSG-GS6-0.5-2.0-0

Lab Sample ID: 460-196639-2

Date Collected: 11/11/19 08:10

Matrix: Solid

Date Received: 11/15/19 21:07

Percent Solids: 94.0

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	118		30 - 150	11/20/19 02:56	11/20/19 15:43	1
2,4-Dichlorophenylacetic acid	126		30 - 150	11/20/19 02:56	11/20/19 15:43	1

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	0.20	U	0.20	0.042	ug/Kg	☼	11/21/19 08:24	11/25/19 08:02	1
Perfluoroheptanoic acid (PFHpA)	0.20	U	0.20	0.029	ug/Kg	☼	11/21/19 08:24	11/25/19 08:02	1
Perfluorooctanoic acid (PFOA)	0.20	U	0.20	0.086	ug/Kg	☼	11/21/19 08:24	11/25/19 08:02	1
Perfluorononanoic acid (PFNA)	0.061	J	0.20	0.036	ug/Kg	☼	11/21/19 08:24	11/25/19 08:02	1
Perfluorodecanoic acid (PFDA)	0.059	J	0.20	0.022	ug/Kg	☼	11/21/19 08:24	11/25/19 08:02	1
Perfluoroundecanoic acid (PFUnA)	0.039	J	0.20	0.036	ug/Kg	☼	11/21/19 08:24	11/25/19 08:02	1
Perfluorododecanoic acid (PFDoA)	0.20	U	0.20	0.067	ug/Kg	☼	11/21/19 08:24	11/25/19 08:02	1
Perfluorotridecanoic acid (PFTriA)	0.20	U	0.20	0.051	ug/Kg	☼	11/21/19 08:24	11/25/19 08:02	1
Perfluorotetradecanoic acid (PFTeA)	0.20	U	0.20	0.054	ug/Kg	☼	11/21/19 08:24	11/25/19 08:02	1
Perfluorobutanesulfonic acid (PFBS)	0.20	U	0.20	0.025	ug/Kg	☼	11/21/19 08:24	11/25/19 08:02	1
Perfluorohexanesulfonic acid (PFHxS)	0.20	U	0.20	0.031	ug/Kg	☼	11/21/19 08:24	11/25/19 08:02	1
Perfluorooctanesulfonic acid (PFOS)	0.92		0.50	0.20	ug/Kg	☼	11/21/19 08:24	11/25/19 08:02	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.00	U	2.00	0.37	ug/Kg	☼	11/21/19 08:24	11/25/19 08:02	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.00	U	2.00	0.39	ug/Kg	☼	11/21/19 08:24	11/25/19 08:02	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFHxA	93		25 - 150	11/21/19 08:24	11/25/19 08:02	1
13C4 PFHpA	98		25 - 150	11/21/19 08:24	11/25/19 08:02	1
13C4 PFOA	95		25 - 150	11/21/19 08:24	11/25/19 08:02	1
13C5 PFNA	82		25 - 150	11/21/19 08:24	11/25/19 08:02	1
13C2 PFDA	89		25 - 150	11/21/19 08:24	11/25/19 08:02	1
13C2 PFUnA	99		25 - 150	11/21/19 08:24	11/25/19 08:02	1
13C2 PFDoA	98		25 - 150	11/21/19 08:24	11/25/19 08:02	1
13C2 PFTeDA	87		25 - 150	11/21/19 08:24	11/25/19 08:02	1
18O2 PFHxS	108		25 - 150	11/21/19 08:24	11/25/19 08:02	1
13C4 PFOS	81		25 - 150	11/21/19 08:24	11/25/19 08:02	1
d3-NMeFOSAA	87		25 - 150	11/21/19 08:24	11/25/19 08:02	1
d5-NEtFOSAA	101		25 - 150	11/21/19 08:24	11/25/19 08:02	1

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	3600		30.4	14.9	mg/Kg	☼	11/26/19 04:30	11/26/19 17:47	4
Silver	2.0	U	2.0	0.19	mg/Kg	☼	11/26/19 04:30	11/26/19 17:47	4
Aluminum	4140		40.5	11.4	mg/Kg	☼	11/26/19 04:30	11/26/19 17:47	4
Arsenic	1.2	J	3.0	1.2	mg/Kg	☼	11/26/19 04:30	11/26/19 17:47	4
Boron	3.7	J	10.1	2.8	mg/Kg	☼	11/26/19 04:30	11/26/19 17:47	4
Barium	6.6	J	40.5	2.2	mg/Kg	☼	11/26/19 04:30	11/26/19 17:47	4
Beryllium	0.13	J	0.41	0.090	mg/Kg	☼	11/26/19 04:30	11/26/19 17:47	4
Calcium	546	J	1010	59.7	mg/Kg	☼	11/26/19 04:30	11/26/19 17:47	4
Cadmium	0.81	U	0.81	0.14	mg/Kg	☼	11/26/19 04:30	11/26/19 17:47	4
Cobalt	10.1	U	10.1	1.2	mg/Kg	☼	11/26/19 04:30	11/26/19 17:47	4
Chromium	3.5		2.0	0.36	mg/Kg	☼	11/26/19 04:30	11/26/19 17:47	4

Eurofins TestAmerica, Edison

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196639-1

Client Sample ID: WSG-GS6-0.5-2.0-0

Lab Sample ID: 460-196639-2

Date Collected: 11/11/19 08:10

Matrix: Solid

Date Received: 11/15/19 21:07

Percent Solids: 94.0

Method: 6010D - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	2.8	J	5.1	2.7	mg/Kg	☼	11/26/19 04:30	11/26/19 17:47	4
Potassium	143	J	1010	63.0	mg/Kg	☼	11/26/19 04:30	11/26/19 17:47	4
Magnesium	342	J	1010	59.1	mg/Kg	☼	11/26/19 04:30	11/26/19 17:47	4
Manganese	26.5		3.0	0.35	mg/Kg	☼	11/26/19 04:30	11/26/19 17:47	4
Molybdenum	4.1	U	4.1	0.96	mg/Kg	☼	11/26/19 04:30	11/26/19 17:47	4
Sodium	1010	U	1010	81.5	mg/Kg	☼	11/26/19 04:30	11/26/19 17:47	4
Nickel	2.1	J	8.1	0.74	mg/Kg	☼	11/26/19 04:30	11/26/19 17:47	4
Lead	5.2		2.0	0.53	mg/Kg	☼	11/26/19 04:30	11/26/19 17:47	4
Antimony	4.1	U	4.1	1.1	mg/Kg	☼	11/26/19 04:30	11/26/19 17:47	4
Selenium	4.1	U	4.1	2.4	mg/Kg	☼	11/26/19 04:30	11/26/19 17:47	4
Tin	10.1	U	10.1	6.5	mg/Kg	☼	11/26/19 04:30	11/26/19 17:47	4
Strontium	2.2	J	4.1	0.40	mg/Kg	☼	11/26/19 04:30	11/26/19 17:47	4
Titanium	134		4.1	0.61	mg/Kg	☼	11/26/19 04:30	11/26/19 17:47	4
Thallium	4.1	U	4.1	0.65	mg/Kg	☼	11/26/19 04:30	11/26/19 17:47	4
Vanadium	6.8	J	10.1	0.67	mg/Kg	☼	11/26/19 04:30	11/26/19 17:47	4
Zinc	6.9		6.1	4.7	mg/Kg	☼	11/26/19 04:30	11/26/19 17:47	4

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.019		0.017	0.010	mg/Kg	☼	11/25/19 04:00	11/25/19 08:24	1

Client Sample ID: WSG-GS6-6-8-0

Lab Sample ID: 460-196639-3

Date Collected: 11/11/19 08:20

Matrix: Solid

Date Received: 11/15/19 21:07

Percent Solids: 91.0

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	0.20	U	0.20	0.043	ug/Kg	☼	11/21/19 08:24	11/25/19 08:12	1
Perfluoroheptanoic acid (PFHpA)	0.20	U	0.20	0.029	ug/Kg	☼	11/21/19 08:24	11/25/19 08:12	1
Perfluorooctanoic acid (PFOA)	0.20	U	0.20	0.087	ug/Kg	☼	11/21/19 08:24	11/25/19 08:12	1
Perfluorononanoic acid (PFNA)	0.20	U	0.20	0.037	ug/Kg	☼	11/21/19 08:24	11/25/19 08:12	1
Perfluorodecanoic acid (PFDA)	0.20	U	0.20	0.022	ug/Kg	☼	11/21/19 08:24	11/25/19 08:12	1
Perfluoroundecanoic acid (PFUnA)	0.20	U	0.20	0.037	ug/Kg	☼	11/21/19 08:24	11/25/19 08:12	1
Perfluorododecanoic acid (PFDoA)	0.20	U	0.20	0.068	ug/Kg	☼	11/21/19 08:24	11/25/19 08:12	1
Perfluorotridecanoic acid (PFTriA)	0.20	U	0.20	0.052	ug/Kg	☼	11/21/19 08:24	11/25/19 08:12	1
Perfluorotetradecanoic acid (PFTeA)	0.20	U	0.20	0.055	ug/Kg	☼	11/21/19 08:24	11/25/19 08:12	1
Perfluorobutanesulfonic acid (PFBS)	0.20	U	0.20	0.025	ug/Kg	☼	11/21/19 08:24	11/25/19 08:12	1
Perfluorohexanesulfonic acid (PFHxS)	0.20	U	0.20	0.032	ug/Kg	☼	11/21/19 08:24	11/25/19 08:12	1
Perfluorooctanesulfonic acid (PFOS)	0.21	J	0.51	0.20	ug/Kg	☼	11/21/19 08:24	11/25/19 08:12	1
N-ethylperfluorooctanesulfonamidoacetic acid (NETFOSAA)	2.03	U	2.03	0.38	ug/Kg	☼	11/21/19 08:24	11/25/19 08:12	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.03	U	2.03	0.40	ug/Kg	☼	11/21/19 08:24	11/25/19 08:12	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C2 PFHxA	96		25 - 150				11/21/19 08:24	11/25/19 08:12	1
13C4 PFHpA	105		25 - 150				11/21/19 08:24	11/25/19 08:12	1
13C4 PFOA	102		25 - 150				11/21/19 08:24	11/25/19 08:12	1
13C5 PFNA	96		25 - 150				11/21/19 08:24	11/25/19 08:12	1
13C2 PFDA	93		25 - 150				11/21/19 08:24	11/25/19 08:12	1

Eurofins TestAmerica, Edison

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196639-1

Client Sample ID: WSG-GS6-6-8-0

Lab Sample ID: 460-196639-3

Date Collected: 11/11/19 08:20

Matrix: Solid

Date Received: 11/15/19 21:07

Percent Solids: 91.0

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFUnA	103		25 - 150	11/21/19 08:24	11/25/19 08:12	1
13C2 PFDoA	95		25 - 150	11/21/19 08:24	11/25/19 08:12	1
13C2 PFTeDA	87		25 - 150	11/21/19 08:24	11/25/19 08:12	1
18O2 PFHxS	110		25 - 150	11/21/19 08:24	11/25/19 08:12	1
13C4 PFOS	90		25 - 150	11/21/19 08:24	11/25/19 08:12	1
d3-NMeFOSAA	88		25 - 150	11/21/19 08:24	11/25/19 08:12	1
d5-NEtFOSAA	93		25 - 150	11/21/19 08:24	11/25/19 08:12	1

Client Sample ID: WSG-GS6-6-8-1

Lab Sample ID: 460-196639-4

Date Collected: 11/11/19 08:20

Matrix: Solid

Date Received: 11/15/19 21:07

Percent Solids: 91.6

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	0.21	U	0.21	0.044	ug/Kg	☼	11/21/19 08:24	11/25/19 08:21	1
Perfluoroheptanoic acid (PFHpA)	0.21	U	0.21	0.030	ug/Kg	☼	11/21/19 08:24	11/25/19 08:21	1
Perfluorooctanoic acid (PFOA)	0.21	U	0.21	0.090	ug/Kg	☼	11/21/19 08:24	11/25/19 08:21	1
Perfluorononanoic acid (PFNA)	0.21	U	0.21	0.038	ug/Kg	☼	11/21/19 08:24	11/25/19 08:21	1
Perfluorodecanoic acid (PFDA)	0.21	U	0.21	0.023	ug/Kg	☼	11/21/19 08:24	11/25/19 08:21	1
Perfluoroundecanoic acid (PFUnA)	0.21	U	0.21	0.038	ug/Kg	☼	11/21/19 08:24	11/25/19 08:21	1
Perfluorododecanoic acid (PFDoA)	0.21	U	0.21	0.070	ug/Kg	☼	11/21/19 08:24	11/25/19 08:21	1
Perfluorotridecanoic acid (PFTriA)	0.21	U	0.21	0.053	ug/Kg	☼	11/21/19 08:24	11/25/19 08:21	1
Perfluorotetradecanoic acid (PFTeA)	0.21	U	0.21	0.057	ug/Kg	☼	11/21/19 08:24	11/25/19 08:21	1
Perfluorobutanesulfonic acid (PFBS)	0.21	U	0.21	0.026	ug/Kg	☼	11/21/19 08:24	11/25/19 08:21	1
Perfluorohexanesulfonic acid (PFHxS)	0.21	U	0.21	0.032	ug/Kg	☼	11/21/19 08:24	11/25/19 08:21	1
Perfluorooctanesulfonic acid (PFOS)	0.26	J	0.52	0.21	ug/Kg	☼	11/21/19 08:24	11/25/19 08:21	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.09	U	2.09	0.39	ug/Kg	☼	11/21/19 08:24	11/25/19 08:21	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.09	U	2.09	0.41	ug/Kg	☼	11/21/19 08:24	11/25/19 08:21	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFHxA	100		25 - 150	11/21/19 08:24	11/25/19 08:21	1
13C4 PFHpA	110		25 - 150	11/21/19 08:24	11/25/19 08:21	1
13C4 PFOA	103		25 - 150	11/21/19 08:24	11/25/19 08:21	1
13C5 PFNA	94		25 - 150	11/21/19 08:24	11/25/19 08:21	1
13C2 PFDA	94		25 - 150	11/21/19 08:24	11/25/19 08:21	1
13C2 PFUnA	98		25 - 150	11/21/19 08:24	11/25/19 08:21	1
13C2 PFDoA	98		25 - 150	11/21/19 08:24	11/25/19 08:21	1
13C2 PFTeDA	89		25 - 150	11/21/19 08:24	11/25/19 08:21	1
18O2 PFHxS	116		25 - 150	11/21/19 08:24	11/25/19 08:21	1
13C4 PFOS	93		25 - 150	11/21/19 08:24	11/25/19 08:21	1
d3-NMeFOSAA	73		25 - 150	11/21/19 08:24	11/25/19 08:21	1
d5-NEtFOSAA	75		25 - 150	11/21/19 08:24	11/25/19 08:21	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196639-1

Client Sample ID: WSG-S6-0.0-0.2-0

Lab Sample ID: 460-196639-5

Date Collected: 11/11/19 09:35

Matrix: Solid

Date Received: 11/15/19 21:07

Percent Solids: 69.1

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	0.28	U	0.28	0.060	ug/Kg	☼	11/21/19 08:24	11/25/19 08:31	1
Perfluoroheptanoic acid (PFHpA)	0.28	U	0.28	0.041	ug/Kg	☼	11/21/19 08:24	11/25/19 08:31	1
Perfluorooctanoic acid (PFOA)	0.16	J Z	0.28	0.12	ug/Kg	☼	11/21/19 08:24	11/25/19 08:31	1
Perfluorononanoic acid (PFNA)	0.11	J	0.28	0.051	ug/Kg	☼	11/21/19 08:24	11/25/19 08:31	1
Perfluorodecanoic acid (PFDA)	0.23	J	0.28	0.031	ug/Kg	☼	11/21/19 08:24	11/25/19 08:31	1
Perfluoroundecanoic acid (PFUnA)	0.45		0.28	0.051	ug/Kg	☼	11/21/19 08:24	11/25/19 08:31	1
Perfluorododecanoic acid (PFDoA)	0.11	J	0.28	0.095	ug/Kg	☼	11/21/19 08:24	11/25/19 08:31	1
Perfluorotridecanoic acid (PFTriA)	0.20	J	0.28	0.072	ug/Kg	☼	11/21/19 08:24	11/25/19 08:31	1
Perfluorotetradecanoic acid (PFTeA)	0.28	U	0.28	0.077	ug/Kg	☼	11/21/19 08:24	11/25/19 08:31	1
Perfluorobutanesulfonic acid (PFBS)	0.28	U	0.28	0.036	ug/Kg	☼	11/21/19 08:24	11/25/19 08:31	1
Perfluorohexanesulfonic acid (PFHxS)	0.072	J	0.28	0.044	ug/Kg	☼	11/21/19 08:24	11/25/19 08:31	1
Perfluorooctanesulfonic acid (PFOS)	2.35		0.71	0.28	ug/Kg	☼	11/21/19 08:24	11/25/19 08:31	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.84	U	2.84	0.53	ug/Kg	☼	11/21/19 08:24	11/25/19 08:31	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.84	U	2.84	0.55	ug/Kg	☼	11/21/19 08:24	11/25/19 08:31	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFHxA	92		25 - 150	11/21/19 08:24	11/25/19 08:31	1
13C4 PFHpA	97		25 - 150	11/21/19 08:24	11/25/19 08:31	1
13C4 PFOA	98		25 - 150	11/21/19 08:24	11/25/19 08:31	1
13C5 PFNA	90		25 - 150	11/21/19 08:24	11/25/19 08:31	1
13C2 PFDA	87		25 - 150	11/21/19 08:24	11/25/19 08:31	1
13C2 PFUnA	90		25 - 150	11/21/19 08:24	11/25/19 08:31	1
13C2 PFDoA	85		25 - 150	11/21/19 08:24	11/25/19 08:31	1
13C2 PFTeDA	78		25 - 150	11/21/19 08:24	11/25/19 08:31	1
18O2 PFHxS	112		25 - 150	11/21/19 08:24	11/25/19 08:31	1
13C4 PFOS	91		25 - 150	11/21/19 08:24	11/25/19 08:31	1
d3-NMeFOSAA	85		25 - 150	11/21/19 08:24	11/25/19 08:31	1
d5-NEtFOSAA	96		25 - 150	11/21/19 08:24	11/25/19 08:31	1

Client Sample ID: WSG-S6-0.5-2.0-0

Lab Sample ID: 460-196639-6

Date Collected: 11/11/19 09:45

Matrix: Solid

Date Received: 11/15/19 21:07

Percent Solids: 75.8

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	0.26	U	0.26	0.055	ug/Kg	☼	11/21/19 08:24	11/25/19 09:01	1
Perfluoroheptanoic acid (PFHpA)	0.039	J Z	0.26	0.038	ug/Kg	☼	11/21/19 08:24	11/25/19 09:01	1
Perfluorooctanoic acid (PFOA)	0.12	J	0.26	0.11	ug/Kg	☼	11/21/19 08:24	11/25/19 09:01	1
Perfluorononanoic acid (PFNA)	0.10	J	0.26	0.048	ug/Kg	☼	11/21/19 08:24	11/25/19 09:01	1
Perfluorodecanoic acid (PFDA)	0.079	J	0.26	0.029	ug/Kg	☼	11/21/19 08:24	11/25/19 09:01	1
Perfluoroundecanoic acid (PFUnA)	0.11	J	0.26	0.048	ug/Kg	☼	11/21/19 08:24	11/25/19 09:01	1
Perfluorododecanoic acid (PFDoA)	0.26	U	0.26	0.088	ug/Kg	☼	11/21/19 08:24	11/25/19 09:01	1
Perfluorotridecanoic acid (PFTriA)	0.26	U	0.26	0.067	ug/Kg	☼	11/21/19 08:24	11/25/19 09:01	1
Perfluorotetradecanoic acid (PFTeA)	0.26	U	0.26	0.071	ug/Kg	☼	11/21/19 08:24	11/25/19 09:01	1

Eurofins TestAmerica, Edison

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196639-1

Client Sample ID: WSG-S6-0.5-2.0-0

Lab Sample ID: 460-196639-6

Date Collected: 11/11/19 09:45

Matrix: Solid

Date Received: 11/15/19 21:07

Percent Solids: 75.8

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanesulfonic acid (PFBS)	0.26	U	0.26	0.033	ug/Kg	☼	11/21/19 08:24	11/25/19 09:01	1
Perfluorohexanesulfonic acid (PFHxS)	0.26	U	0.26	0.041	ug/Kg	☼	11/21/19 08:24	11/25/19 09:01	1
Perfluorooctanesulfonic acid (PFOS)	1.53		0.66	0.26	ug/Kg	☼	11/21/19 08:24	11/25/19 09:01	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.64	U	2.64	0.49	ug/Kg	☼	11/21/19 08:24	11/25/19 09:01	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.64	U	2.64	0.51	ug/Kg	☼	11/21/19 08:24	11/25/19 09:01	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C2 PFHxA	101		25 - 150				11/21/19 08:24	11/25/19 09:01	1
13C4 PFHpA	102		25 - 150				11/21/19 08:24	11/25/19 09:01	1
13C4 PFOA	100		25 - 150				11/21/19 08:24	11/25/19 09:01	1
13C5 PFNA	92		25 - 150				11/21/19 08:24	11/25/19 09:01	1
13C2 PFDA	89		25 - 150				11/21/19 08:24	11/25/19 09:01	1
13C2 PFUnA	96		25 - 150				11/21/19 08:24	11/25/19 09:01	1
13C2 PFDoA	93		25 - 150				11/21/19 08:24	11/25/19 09:01	1
13C2 PFTeDA	80		25 - 150				11/21/19 08:24	11/25/19 09:01	1
18O2 PFHxS	111		25 - 150				11/21/19 08:24	11/25/19 09:01	1
13C4 PFOS	89		25 - 150				11/21/19 08:24	11/25/19 09:01	1
d3-NMeFOSAA	86		25 - 150				11/21/19 08:24	11/25/19 09:01	1
d5-NEtFOSAA	93		25 - 150				11/21/19 08:24	11/25/19 09:01	1

Client Sample ID: WSG-S2-0.0-0.2-0

Lab Sample ID: 460-196639-7

Date Collected: 11/11/19 09:55

Matrix: Solid

Date Received: 11/15/19 21:07

Percent Solids: 77.1

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	0.098	J	0.25	0.052	ug/Kg	☼	11/21/19 08:24	11/25/19 09:30	1
Perfluoroheptanoic acid (PFHpA)	0.12	J	0.25	0.036	ug/Kg	☼	11/21/19 08:24	11/25/19 09:30	1
Perfluorooctanoic acid (PFOA)	0.38		0.25	0.11	ug/Kg	☼	11/21/19 08:24	11/25/19 09:30	1
Perfluorononanoic acid (PFNA)	0.34		0.25	0.045	ug/Kg	☼	11/21/19 08:24	11/25/19 09:30	1
Perfluorodecanoic acid (PFDA)	0.41		0.25	0.027	ug/Kg	☼	11/21/19 08:24	11/25/19 09:30	1
Perfluoroundecanoic acid (PFUnA)	3.84		0.25	0.045	ug/Kg	☼	11/21/19 08:24	11/25/19 09:30	1
Perfluorododecanoic acid (PFDoA)	0.26		0.25	0.084	ug/Kg	☼	11/21/19 08:24	11/25/19 09:30	1
Perfluorotridecanoic acid (PFTriA)	1.82		0.25	0.064	ug/Kg	☼	11/21/19 08:24	11/25/19 09:30	1
Perfluorotetradecanoic acid (PFTeA)	0.068	J	0.25	0.067	ug/Kg	☼	11/21/19 08:24	11/25/19 09:30	1
Perfluorobutanesulfonic acid (PFBS)	0.25	U	0.25	0.031	ug/Kg	☼	11/21/19 08:24	11/25/19 09:30	1
Perfluorohexanesulfonic acid (PFHxS)	0.25	U	0.25	0.039	ug/Kg	☼	11/21/19 08:24	11/25/19 09:30	1
Perfluorooctanesulfonic acid (PFOS)	1.22		0.62	0.25	ug/Kg	☼	11/21/19 08:24	11/25/19 09:30	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.49	U	2.49	0.46	ug/Kg	☼	11/21/19 08:24	11/25/19 09:30	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.49	U	2.49	0.49	ug/Kg	☼	11/21/19 08:24	11/25/19 09:30	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C2 PFHxA	96		25 - 150				11/21/19 08:24	11/25/19 09:30	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196639-1

Client Sample ID: WSG-S2-0.0-0.2-0

Lab Sample ID: 460-196639-7

Date Collected: 11/11/19 09:55

Matrix: Solid

Date Received: 11/15/19 21:07

Percent Solids: 77.1

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFHpA	99		25 - 150	11/21/19 08:24	11/25/19 09:30	1
13C4 PFOA	101		25 - 150	11/21/19 08:24	11/25/19 09:30	1
13C5 PFNA	91		25 - 150	11/21/19 08:24	11/25/19 09:30	1
13C2 PFDA	85		25 - 150	11/21/19 08:24	11/25/19 09:30	1
13C2 PFUnA	94		25 - 150	11/21/19 08:24	11/25/19 09:30	1
13C2 PFDoA	90		25 - 150	11/21/19 08:24	11/25/19 09:30	1
13C2 PFTeDA	82		25 - 150	11/21/19 08:24	11/25/19 09:30	1
18O2 PFHxS	109		25 - 150	11/21/19 08:24	11/25/19 09:30	1
13C4 PFOS	86		25 - 150	11/21/19 08:24	11/25/19 09:30	1
d3-NMeFOSAA	78		25 - 150	11/21/19 08:24	11/25/19 09:30	1
d5-NEtFOSAA	89		25 - 150	11/21/19 08:24	11/25/19 09:30	1

Client Sample ID: WSG-S2-0.5-2.0-0

Lab Sample ID: 460-196639-8

Date Collected: 11/11/19 10:00

Matrix: Solid

Date Received: 11/15/19 21:07

Percent Solids: 90.7

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	0.21	U	0.21	0.045	ug/Kg	☼	11/21/19 08:24	11/25/19 09:40	1
Perfluoroheptanoic acid (PFHpA)	0.21	U	0.21	0.031	ug/Kg	☼	11/21/19 08:24	11/25/19 09:40	1
Perfluorooctanoic acid (PFOA)	0.21	U	0.21	0.092	ug/Kg	☼	11/21/19 08:24	11/25/19 09:40	1
Perfluorononanoic acid (PFNA)	0.096	J	0.21	0.038	ug/Kg	☼	11/21/19 08:24	11/25/19 09:40	1
Perfluorodecanoic acid (PFDA)	0.14	J	0.21	0.023	ug/Kg	☼	11/21/19 08:24	11/25/19 09:40	1
Perfluoroundecanoic acid (PFUnA)	0.95		0.21	0.038	ug/Kg	☼	11/21/19 08:24	11/25/19 09:40	1
Perfluorododecanoic acid (PFDoA)	0.21	U	0.21	0.072	ug/Kg	☼	11/21/19 08:24	11/25/19 09:40	1
Perfluorotridecanoic acid (PFTriA)	0.33		0.21	0.054	ug/Kg	☼	11/21/19 08:24	11/25/19 09:40	1
Perfluorotetradecanoic acid (PFTeA)	0.21	U	0.21	0.058	ug/Kg	☼	11/21/19 08:24	11/25/19 09:40	1
Perfluorobutanesulfonic acid (PFBS)	0.21	U	0.21	0.027	ug/Kg	☼	11/21/19 08:24	11/25/19 09:40	1
Perfluorohexanesulfonic acid (PFHxS)	0.21	U	0.21	0.033	ug/Kg	☼	11/21/19 08:24	11/25/19 09:40	1
Perfluorooctanesulfonic acid (PFOS)	1.13		0.53	0.21	ug/Kg	☼	11/21/19 08:24	11/25/19 09:40	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.14	U	2.14	0.40	ug/Kg	☼	11/21/19 08:24	11/25/19 09:40	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.14	U	2.14	0.42	ug/Kg	☼	11/21/19 08:24	11/25/19 09:40	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFHxA	104		25 - 150	11/21/19 08:24	11/25/19 09:40	1
13C4 PFHpA	108		25 - 150	11/21/19 08:24	11/25/19 09:40	1
13C4 PFOA	107		25 - 150	11/21/19 08:24	11/25/19 09:40	1
13C5 PFNA	95		25 - 150	11/21/19 08:24	11/25/19 09:40	1
13C2 PFDA	97		25 - 150	11/21/19 08:24	11/25/19 09:40	1
13C2 PFUnA	104		25 - 150	11/21/19 08:24	11/25/19 09:40	1
13C2 PFDoA	105		25 - 150	11/21/19 08:24	11/25/19 09:40	1
13C2 PFTeDA	92		25 - 150	11/21/19 08:24	11/25/19 09:40	1
18O2 PFHxS	115		25 - 150	11/21/19 08:24	11/25/19 09:40	1
13C4 PFOS	91		25 - 150	11/21/19 08:24	11/25/19 09:40	1
d3-NMeFOSAA	86		25 - 150	11/21/19 08:24	11/25/19 09:40	1
d5-NEtFOSAA	92		25 - 150	11/21/19 08:24	11/25/19 09:40	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196639-1

Client Sample ID: WSG-S7-0.0-0.2-0

Lab Sample ID: 460-196639-9

Date Collected: 11/11/19 10:15

Matrix: Solid

Date Received: 11/15/19 21:07

Percent Solids: 77.9

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	0.061	J	0.24	0.050	ug/Kg	☼	11/21/19 08:24	11/25/19 09:49	1
Perfluoroheptanoic acid (PFHpA)	0.066	J	0.24	0.035	ug/Kg	☼	11/21/19 08:24	11/25/19 09:49	1
Perfluorooctanoic acid (PFOA)	0.19	J	0.24	0.10	ug/Kg	☼	11/21/19 08:24	11/25/19 09:49	1
Perfluorononanoic acid (PFNA)	0.16	J	0.24	0.043	ug/Kg	☼	11/21/19 08:24	11/25/19 09:49	1
Perfluorodecanoic acid (PFDA)	0.31		0.24	0.026	ug/Kg	☼	11/21/19 08:24	11/25/19 09:49	1
Perfluoroundecanoic acid (PFUnA)	1.06		0.24	0.043	ug/Kg	☼	11/21/19 08:24	11/25/19 09:49	1
Perfluorododecanoic acid (PFDoA)	0.20	J	0.24	0.080	ug/Kg	☼	11/21/19 08:24	11/25/19 09:49	1
Perfluorotridecanoic acid (PFTriA)	0.43		0.24	0.061	ug/Kg	☼	11/21/19 08:24	11/25/19 09:49	1
Perfluorotetradecanoic acid (PFTeA)	0.084	J	0.24	0.065	ug/Kg	☼	11/21/19 08:24	11/25/19 09:49	1
Perfluorobutanesulfonic acid (PFBS)	0.24	U	0.24	0.030	ug/Kg	☼	11/21/19 08:24	11/25/19 09:49	1
Perfluorohexanesulfonic acid (PFHxS)	0.050	J Z	0.24	0.037	ug/Kg	☼	11/21/19 08:24	11/25/19 09:49	1
Perfluorooctanesulfonic acid (PFOS)	2.36		0.60	0.24	ug/Kg	☼	11/21/19 08:24	11/25/19 09:49	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.40	U	2.40	0.44	ug/Kg	☼	11/21/19 08:24	11/25/19 09:49	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.40	U	2.40	0.47	ug/Kg	☼	11/21/19 08:24	11/25/19 09:49	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C2 PFHxA	95		25 - 150				11/21/19 08:24	11/25/19 09:49	1
13C4 PFHpA	98		25 - 150				11/21/19 08:24	11/25/19 09:49	1
13C4 PFOA	99		25 - 150				11/21/19 08:24	11/25/19 09:49	1
13C5 PFNA	94		25 - 150				11/21/19 08:24	11/25/19 09:49	1
13C2 PFDA	88		25 - 150				11/21/19 08:24	11/25/19 09:49	1
13C2 PFUnA	90		25 - 150				11/21/19 08:24	11/25/19 09:49	1
13C2 PFDoA	85		25 - 150				11/21/19 08:24	11/25/19 09:49	1
13C2 PFTeDA	78		25 - 150				11/21/19 08:24	11/25/19 09:49	1
18O2 PFHxS	111		25 - 150				11/21/19 08:24	11/25/19 09:49	1
13C4 PFOS	90		25 - 150				11/21/19 08:24	11/25/19 09:49	1
d3-NMeFOSAA	82		25 - 150				11/21/19 08:24	11/25/19 09:49	1
d5-NEtFOSAA	90		25 - 150				11/21/19 08:24	11/25/19 09:49	1

Client Sample ID: WSG-S7-0.5-2.0-0

Lab Sample ID: 460-196639-10

Date Collected: 11/11/19 10:25

Matrix: Solid

Date Received: 11/15/19 21:07

Percent Solids: 89.5

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	0.079	J	0.22	0.046	ug/Kg	☼	11/21/19 08:24	11/25/19 09:59	1
Perfluoroheptanoic acid (PFHpA)	0.048	J	0.22	0.032	ug/Kg	☼	11/21/19 08:24	11/25/19 09:59	1
Perfluorooctanoic acid (PFOA)	0.16	J	0.22	0.095	ug/Kg	☼	11/21/19 08:24	11/25/19 09:59	1
Perfluorononanoic acid (PFNA)	0.15	J	0.22	0.040	ug/Kg	☼	11/21/19 08:24	11/25/19 09:59	1
Perfluorodecanoic acid (PFDA)	0.097	J	0.22	0.024	ug/Kg	☼	11/21/19 08:24	11/25/19 09:59	1
Perfluoroundecanoic acid (PFUnA)	0.21	J	0.22	0.040	ug/Kg	☼	11/21/19 08:24	11/25/19 09:59	1
Perfluorododecanoic acid (PFDoA)	0.22	U	0.22	0.074	ug/Kg	☼	11/21/19 08:24	11/25/19 09:59	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196639-1

Client Sample ID: WSG-S7-0.5-2.0-0

Lab Sample ID: 460-196639-10

Date Collected: 11/11/19 10:25

Matrix: Solid

Date Received: 11/15/19 21:07

Percent Solids: 89.5

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorotridecanoic acid (PFTriA)	0.073	J	0.22	0.056	ug/Kg	☼	11/21/19 08:24	11/25/19 09:59	1
Perfluorotetradecanoic acid (PFTeA)	0.22	U	0.22	0.060	ug/Kg	☼	11/21/19 08:24	11/25/19 09:59	1
Perfluorobutanesulfonic acid (PFBS)	0.22	U	0.22	0.028	ug/Kg	☼	11/21/19 08:24	11/25/19 09:59	1
Perfluorohexanesulfonic acid (PFHxS)	0.22	U	0.22	0.034	ug/Kg	☼	11/21/19 08:24	11/25/19 09:59	1
Perfluorooctanesulfonic acid (PFOS)	1.59		0.55	0.22	ug/Kg	☼	11/21/19 08:24	11/25/19 09:59	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.21	U	2.21	0.41	ug/Kg	☼	11/21/19 08:24	11/25/19 09:59	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.21	U	2.21	0.43	ug/Kg	☼	11/21/19 08:24	11/25/19 09:59	1
<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C2 PFHxA	98		25 - 150				11/21/19 08:24	11/25/19 09:59	1
13C4 PFHpA	102		25 - 150				11/21/19 08:24	11/25/19 09:59	1
13C4 PFOA	101		25 - 150				11/21/19 08:24	11/25/19 09:59	1
13C5 PFNA	94		25 - 150				11/21/19 08:24	11/25/19 09:59	1
13C2 PFDA	89		25 - 150				11/21/19 08:24	11/25/19 09:59	1
13C2 PFUnA	91		25 - 150				11/21/19 08:24	11/25/19 09:59	1
13C2 PFDoA	91		25 - 150				11/21/19 08:24	11/25/19 09:59	1
13C2 PFTeDA	80		25 - 150				11/21/19 08:24	11/25/19 09:59	1
18O2 PFHxS	109		25 - 150				11/21/19 08:24	11/25/19 09:59	1
13C4 PFOS	89		25 - 150				11/21/19 08:24	11/25/19 09:59	1
d3-NMeFOSAA	78		25 - 150				11/21/19 08:24	11/25/19 09:59	1
d5-NEtFOSAA	80		25 - 150				11/21/19 08:24	11/25/19 09:59	1

Client Sample ID: WSG-S3-0.0-0.2-0

Lab Sample ID: 460-196639-11

Date Collected: 11/11/19 10:35

Matrix: Solid

Date Received: 11/15/19 21:07

Percent Solids: 79.9

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	0.056	J	0.25	0.053	ug/Kg	☼	11/21/19 08:24	11/25/19 10:29	1
Perfluoroheptanoic acid (PFHpA)	0.051	J	0.25	0.036	ug/Kg	☼	11/21/19 08:24	11/25/19 10:29	1
Perfluorooctanoic acid (PFOA)	0.20	J	0.25	0.11	ug/Kg	☼	11/21/19 08:24	11/25/19 10:29	1
Perfluorononanoic acid (PFNA)	0.16	J	0.25	0.045	ug/Kg	☼	11/21/19 08:24	11/25/19 10:29	1
Perfluorodecanoic acid (PFDA)	0.21	J	0.25	0.028	ug/Kg	☼	11/21/19 08:24	11/25/19 10:29	1
Perfluoroundecanoic acid (PFUnA)	0.63		0.25	0.045	ug/Kg	☼	11/21/19 08:24	11/25/19 10:29	1
Perfluorododecanoic acid (PFDoA)	0.095	J	0.25	0.084	ug/Kg	☼	11/21/19 08:24	11/25/19 10:29	1
Perfluorotridecanoic acid (PFTriA)	0.35		0.25	0.064	ug/Kg	☼	11/21/19 08:24	11/25/19 10:29	1
Perfluorotetradecanoic acid (PFTeA)	0.25	U	0.25	0.068	ug/Kg	☼	11/21/19 08:24	11/25/19 10:29	1
Perfluorobutanesulfonic acid (PFBS)	0.25	U	0.25	0.031	ug/Kg	☼	11/21/19 08:24	11/25/19 10:29	1
Perfluorohexanesulfonic acid (PFHxS)	0.048	J	0.25	0.039	ug/Kg	☼	11/21/19 08:24	11/25/19 10:29	1
Perfluorooctanesulfonic acid (PFOS)	2.80		0.63	0.25	ug/Kg	☼	11/21/19 08:24	11/25/19 10:29	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.50	U	2.50	0.46	ug/Kg	☼	11/21/19 08:24	11/25/19 10:29	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196639-1

Client Sample ID: WSG-S3-0.0-0.2-0

Lab Sample ID: 460-196639-11

Date Collected: 11/11/19 10:35

Matrix: Solid

Date Received: 11/15/19 21:07

Percent Solids: 79.9

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.50	U	2.50	0.49	ug/Kg	☼	11/21/19 08:24	11/25/19 10:29	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C2 PFHxA	96		25 - 150				11/21/19 08:24	11/25/19 10:29	1
13C4 PFHpA	101		25 - 150				11/21/19 08:24	11/25/19 10:29	1
13C4 PFOA	102		25 - 150				11/21/19 08:24	11/25/19 10:29	1
13C5 PFNA	96		25 - 150				11/21/19 08:24	11/25/19 10:29	1
13C2 PFDA	93		25 - 150				11/21/19 08:24	11/25/19 10:29	1
13C2 PFUnA	101		25 - 150				11/21/19 08:24	11/25/19 10:29	1
13C2 PFDaA	97		25 - 150				11/21/19 08:24	11/25/19 10:29	1
13C2 PFTeDA	82		25 - 150				11/21/19 08:24	11/25/19 10:29	1
18O2 PFHxS	110		25 - 150				11/21/19 08:24	11/25/19 10:29	1
13C4 PFOS	91		25 - 150				11/21/19 08:24	11/25/19 10:29	1
d3-NMeFOSAA	66		25 - 150				11/21/19 08:24	11/25/19 10:29	1
d5-NEtFOSAA	71		25 - 150				11/21/19 08:24	11/25/19 10:29	1

Client Sample ID: WSG-S3-0.5-2.0-0

Lab Sample ID: 460-196639-12

Date Collected: 11/11/19 10:45

Matrix: Solid

Date Received: 11/15/19 21:07

Percent Solids: 74.0

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	0.057	J	0.25	0.053	ug/Kg	☼	11/21/19 08:24	11/25/19 10:38	1
Perfluoroheptanoic acid (PFHpA)	0.092	J	0.25	0.036	ug/Kg	☼	11/21/19 08:24	11/25/19 10:38	1
Perfluorooctanoic acid (PFOA)	0.34		0.25	0.11	ug/Kg	☼	11/21/19 08:24	11/25/19 10:38	1
Perfluorononanoic acid (PFNA)	0.26		0.25	0.045	ug/Kg	☼	11/21/19 08:24	11/25/19 10:38	1
Perfluorodecanoic acid (PFDA)	0.24	J	0.25	0.028	ug/Kg	☼	11/21/19 08:24	11/25/19 10:38	1
Perfluoroundecanoic acid (PFUnA)	0.48		0.25	0.045	ug/Kg	☼	11/21/19 08:24	11/25/19 10:38	1
Perfluorododecanoic acid (PFDaA)	0.11	J	0.25	0.084	ug/Kg	☼	11/21/19 08:24	11/25/19 10:38	1
Perfluorotridecanoic acid (PFTriA)	0.22	J	0.25	0.064	ug/Kg	☼	11/21/19 08:24	11/25/19 10:38	1
Perfluorotetradecanoic acid (PFTeA)	0.25	U	0.25	0.068	ug/Kg	☼	11/21/19 08:24	11/25/19 10:38	1
Perfluorobutanesulfonic acid (PFBS)	0.25	U	0.25	0.031	ug/Kg	☼	11/21/19 08:24	11/25/19 10:38	1
Perfluorohexanesulfonic acid (PFHxS)	0.056	J	0.25	0.039	ug/Kg	☼	11/21/19 08:24	11/25/19 10:38	1
Perfluorooctanesulfonic acid (PFOS)	3.01		0.63	0.25	ug/Kg	☼	11/21/19 08:24	11/25/19 10:38	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.51	U	2.51	0.46	ug/Kg	☼	11/21/19 08:24	11/25/19 10:38	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.51	U	2.51	0.49	ug/Kg	☼	11/21/19 08:24	11/25/19 10:38	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C2 PFHxA	97		25 - 150				11/21/19 08:24	11/25/19 10:38	1
13C4 PFHpA	103		25 - 150				11/21/19 08:24	11/25/19 10:38	1
13C4 PFOA	100		25 - 150				11/21/19 08:24	11/25/19 10:38	1
13C5 PFNA	90		25 - 150				11/21/19 08:24	11/25/19 10:38	1
13C2 PFDA	87		25 - 150				11/21/19 08:24	11/25/19 10:38	1
13C2 PFUnA	92		25 - 150				11/21/19 08:24	11/25/19 10:38	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196639-1

Client Sample ID: WSG-S3-0.5-2.0-0

Lab Sample ID: 460-196639-12

Date Collected: 11/11/19 10:45

Matrix: Solid

Date Received: 11/15/19 21:07

Percent Solids: 74.0

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFDoA	88		25 - 150	11/21/19 08:24	11/25/19 10:38	1
13C2 PFTeDA	74		25 - 150	11/21/19 08:24	11/25/19 10:38	1
18O2 PFHxS	114		25 - 150	11/21/19 08:24	11/25/19 10:38	1
13C4 PFOS	89		25 - 150	11/21/19 08:24	11/25/19 10:38	1
d3-NMeFOSAA	82		25 - 150	11/21/19 08:24	11/25/19 10:38	1
d5-NEtFOSAA	90		25 - 150	11/21/19 08:24	11/25/19 10:38	1

Client Sample ID: WSG-S4-0.0-0.2-0

Lab Sample ID: 460-196639-13

Date Collected: 11/11/19 10:55

Matrix: Solid

Date Received: 11/15/19 21:07

Percent Solids: 73.9

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	0.25	U	0.25	0.053	ug/Kg	☼	11/21/19 08:24	11/25/19 10:48	1
Perfluoroheptanoic acid (PFHpA)	0.25	U	0.25	0.037	ug/Kg	☼	11/21/19 08:24	11/25/19 10:48	1
Perfluorooctanoic acid (PFOA)	0.13	J	0.25	0.11	ug/Kg	☼	11/21/19 08:24	11/25/19 10:48	1
Perfluorononanoic acid (PFNA)	0.10	J	0.25	0.046	ug/Kg	☼	11/21/19 08:24	11/25/19 10:48	1
Perfluorodecanoic acid (PFDA)	0.17	J	0.25	0.028	ug/Kg	☼	11/21/19 08:24	11/25/19 10:48	1
Perfluoroundecanoic acid (PFUnA)	0.50		0.25	0.046	ug/Kg	☼	11/21/19 08:24	11/25/19 10:48	1
Perfluorododecanoic acid (PFDoA)	0.099	J	0.25	0.085	ug/Kg	☼	11/21/19 08:24	11/25/19 10:48	1
Perfluorotridecanoic acid (PFTriA)	0.66		0.25	0.065	ug/Kg	☼	11/21/19 08:24	11/25/19 10:48	1
Perfluorotetradecanoic acid (PFTeA)	0.25	U	0.25	0.068	ug/Kg	☼	11/21/19 08:24	11/25/19 10:48	1
Perfluorobutanesulfonic acid (PFBS)	0.25	U	0.25	0.032	ug/Kg	☼	11/21/19 08:24	11/25/19 10:48	1
Perfluorohexanesulfonic acid (PFHxS)	0.25	U	0.25	0.039	ug/Kg	☼	11/21/19 08:24	11/25/19 10:48	1
Perfluorooctanesulfonic acid (PFOS)	1.51		0.63	0.25	ug/Kg	☼	11/21/19 08:24	11/25/19 10:48	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.53	U	2.53	0.47	ug/Kg	☼	11/21/19 08:24	11/25/19 10:48	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.53	U	2.53	0.49	ug/Kg	☼	11/21/19 08:24	11/25/19 10:48	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFHxA	92		25 - 150	11/21/19 08:24	11/25/19 10:48	1
13C4 PFHpA	96		25 - 150	11/21/19 08:24	11/25/19 10:48	1
13C4 PFOA	99		25 - 150	11/21/19 08:24	11/25/19 10:48	1
13C5 PFNA	93		25 - 150	11/21/19 08:24	11/25/19 10:48	1
13C2 PFDA	93		25 - 150	11/21/19 08:24	11/25/19 10:48	1
13C2 PFUnA	96		25 - 150	11/21/19 08:24	11/25/19 10:48	1
13C2 PFDoA	93		25 - 150	11/21/19 08:24	11/25/19 10:48	1
13C2 PFTeDA	82		25 - 150	11/21/19 08:24	11/25/19 10:48	1
18O2 PFHxS	117		25 - 150	11/21/19 08:24	11/25/19 10:48	1
13C4 PFOS	99		25 - 150	11/21/19 08:24	11/25/19 10:48	1
d3-NMeFOSAA	84		25 - 150	11/21/19 08:24	11/25/19 10:48	1
d5-NEtFOSAA	96		25 - 150	11/21/19 08:24	11/25/19 10:48	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196639-1

Client Sample ID: WSG-S4-0.5-2.0-0

Lab Sample ID: 460-196639-14

Date Collected: 11/11/19 11:05

Matrix: Solid

Date Received: 11/15/19 21:07

Percent Solids: 88.6

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	0.21	U	0.21	0.045	ug/Kg	☼	11/21/19 08:24	11/25/19 10:58	1
Perfluoroheptanoic acid (PFHpA)	0.21	U	0.21	0.031	ug/Kg	☼	11/21/19 08:24	11/25/19 10:58	1
Perfluorooctanoic acid (PFOA)	0.10	J	0.21	0.091	ug/Kg	☼	11/21/19 08:24	11/25/19 10:58	1
Perfluorononanoic acid (PFNA)	0.086	J	0.21	0.038	ug/Kg	☼	11/21/19 08:24	11/25/19 10:58	1
Perfluorodecanoic acid (PFDA)	0.12	J	0.21	0.023	ug/Kg	☼	11/21/19 08:24	11/25/19 10:58	1
Perfluoroundecanoic acid (PFUnA)	0.20	J	0.21	0.038	ug/Kg	☼	11/21/19 08:24	11/25/19 10:58	1
Perfluorododecanoic acid (PFDoA)	0.21	U	0.21	0.071	ug/Kg	☼	11/21/19 08:24	11/25/19 10:58	1
Perfluorotridecanoic acid (PFTriA)	0.18	J	0.21	0.054	ug/Kg	☼	11/21/19 08:24	11/25/19 10:58	1
Perfluorotetradecanoic acid (PFTeA)	0.21	U	0.21	0.057	ug/Kg	☼	11/21/19 08:24	11/25/19 10:58	1
Perfluorobutanesulfonic acid (PFBS)	0.21	U	0.21	0.027	ug/Kg	☼	11/21/19 08:24	11/25/19 10:58	1
Perfluorohexanesulfonic acid (PFHxS)	0.21	U	0.21	0.033	ug/Kg	☼	11/21/19 08:24	11/25/19 10:58	1
Perfluorooctanesulfonic acid (PFOS)	1.14		0.53	0.21	ug/Kg	☼	11/21/19 08:24	11/25/19 10:58	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.12	U	2.12	0.39	ug/Kg	☼	11/21/19 08:24	11/25/19 10:58	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.12	U	2.12	0.41	ug/Kg	☼	11/21/19 08:24	11/25/19 10:58	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C2 PFHxA	93		25 - 150				11/21/19 08:24	11/25/19 10:58	1
13C4 PFHpA	100		25 - 150				11/21/19 08:24	11/25/19 10:58	1
13C4 PFOA	98		25 - 150				11/21/19 08:24	11/25/19 10:58	1
13C5 PFNA	92		25 - 150				11/21/19 08:24	11/25/19 10:58	1
13C2 PFDA	86		25 - 150				11/21/19 08:24	11/25/19 10:58	1
13C2 PFUnA	94		25 - 150				11/21/19 08:24	11/25/19 10:58	1
13C2 PFDoA	91		25 - 150				11/21/19 08:24	11/25/19 10:58	1
13C2 PFTeDA	78		25 - 150				11/21/19 08:24	11/25/19 10:58	1
18O2 PFHxS	112		25 - 150				11/21/19 08:24	11/25/19 10:58	1
13C4 PFOS	92		25 - 150				11/21/19 08:24	11/25/19 10:58	1
d3-NMeFOSAA	75		25 - 150				11/21/19 08:24	11/25/19 10:58	1
d5-NEtFOSAA	80		25 - 150				11/21/19 08:24	11/25/19 10:58	1

Client Sample ID: WSG-S5-0.0-0.2-0

Lab Sample ID: 460-196639-15

Date Collected: 11/11/19 11:15

Matrix: Solid

Date Received: 11/15/19 21:07

Percent Solids: 73.5

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	0.27	U	0.27	0.056	ug/Kg	☼	11/21/19 08:24	11/25/19 11:27	1
Perfluoroheptanoic acid (PFHpA)	0.27	U	0.27	0.039	ug/Kg	☼	11/21/19 08:24	11/25/19 11:27	1
Perfluorooctanoic acid (PFOA)	0.16	J Z	0.27	0.12	ug/Kg	☼	11/21/19 08:24	11/25/19 11:27	1
Perfluorononanoic acid (PFNA)	0.15	J	0.27	0.048	ug/Kg	☼	11/21/19 08:24	11/25/19 11:27	1
Perfluorodecanoic acid (PFDA)	0.22	J	0.27	0.029	ug/Kg	☼	11/21/19 08:24	11/25/19 11:27	1
Perfluoroundecanoic acid (PFUnA)	0.73		0.27	0.048	ug/Kg	☼	11/21/19 08:24	11/25/19 11:27	1
Perfluorododecanoic acid (PFDoA)	0.12	J	0.27	0.090	ug/Kg	☼	11/21/19 08:24	11/25/19 11:27	1
Perfluorotridecanoic acid (PFTriA)	0.45		0.27	0.068	ug/Kg	☼	11/21/19 08:24	11/25/19 11:27	1
Perfluorotetradecanoic acid (PFTeA)	0.27	U	0.27	0.072	ug/Kg	☼	11/21/19 08:24	11/25/19 11:27	1

Eurofins TestAmerica, Edison

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196639-1

Client Sample ID: WSG-S5-0.0-0.2-0

Lab Sample ID: 460-196639-15

Date Collected: 11/11/19 11:15

Matrix: Solid

Date Received: 11/15/19 21:07

Percent Solids: 73.5

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanesulfonic acid (PFBS)	0.27	U	0.27	0.033	ug/Kg	☼	11/21/19 08:24	11/25/19 11:27	1
Perfluorohexanesulfonic acid (PFHxS)	0.27	U	0.27	0.041	ug/Kg	☼	11/21/19 08:24	11/25/19 11:27	1
Perfluorooctanesulfonic acid (PFOS)	1.58		0.67	0.27	ug/Kg	☼	11/21/19 08:24	11/25/19 11:27	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.67	U	2.67	0.49	ug/Kg	☼	11/21/19 08:24	11/25/19 11:27	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.67	U	2.67	0.52	ug/Kg	☼	11/21/19 08:24	11/25/19 11:27	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C2 PFHxA	93		25 - 150				11/21/19 08:24	11/25/19 11:27	1
13C4 PFHpA	99		25 - 150				11/21/19 08:24	11/25/19 11:27	1
13C4 PFOA	99		25 - 150				11/21/19 08:24	11/25/19 11:27	1
13C5 PFNA	93		25 - 150				11/21/19 08:24	11/25/19 11:27	1
13C2 PFDA	84		25 - 150				11/21/19 08:24	11/25/19 11:27	1
13C2 PFUnA	88		25 - 150				11/21/19 08:24	11/25/19 11:27	1
13C2 PFDoA	82		25 - 150				11/21/19 08:24	11/25/19 11:27	1
13C2 PFTeDA	74		25 - 150				11/21/19 08:24	11/25/19 11:27	1
18O2 PFHxS	110		25 - 150				11/21/19 08:24	11/25/19 11:27	1
13C4 PFOS	88		25 - 150				11/21/19 08:24	11/25/19 11:27	1
d3-NMeFOSAA	81		25 - 150				11/21/19 08:24	11/25/19 11:27	1
d5-NEtFOSAA	87		25 - 150				11/21/19 08:24	11/25/19 11:27	1

Client Sample ID: WSG-S5-0.5-2.0-0

Lab Sample ID: 460-196639-16

Date Collected: 11/11/19 11:25

Matrix: Solid

Date Received: 11/15/19 21:07

Percent Solids: 83.0

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	0.076	J Z	0.22	0.046	ug/Kg	☼	11/21/19 08:24	11/25/19 11:37	1
Perfluoroheptanoic acid (PFHpA)	0.044	J	0.22	0.032	ug/Kg	☼	11/21/19 08:24	11/25/19 11:37	1
Perfluorooctanoic acid (PFOA)	0.13	J	0.22	0.095	ug/Kg	☼	11/21/19 08:24	11/25/19 11:37	1
Perfluorononanoic acid (PFNA)	0.12	J	0.22	0.040	ug/Kg	☼	11/21/19 08:24	11/25/19 11:37	1
Perfluorodecanoic acid (PFDA)	0.13	J	0.22	0.024	ug/Kg	☼	11/21/19 08:24	11/25/19 11:37	1
Perfluoroundecanoic acid (PFUnA)	0.50		0.22	0.040	ug/Kg	☼	11/21/19 08:24	11/25/19 11:37	1
Perfluorododecanoic acid (PFDoA)	0.11	J	0.22	0.074	ug/Kg	☼	11/21/19 08:24	11/25/19 11:37	1
Perfluorotridecanoic acid (PFTriA)	0.72		0.22	0.056	ug/Kg	☼	11/21/19 08:24	11/25/19 11:37	1
Perfluorotetradecanoic acid (PFTeA)	0.075	J	0.22	0.060	ug/Kg	☼	11/21/19 08:24	11/25/19 11:37	1
Perfluorobutanesulfonic acid (PFBS)	0.22	U	0.22	0.028	ug/Kg	☼	11/21/19 08:24	11/25/19 11:37	1
Perfluorohexanesulfonic acid (PFHxS)	0.074	J	0.22	0.034	ug/Kg	☼	11/21/19 08:24	11/25/19 11:37	1
Perfluorooctanesulfonic acid (PFOS)	2.17		0.55	0.22	ug/Kg	☼	11/21/19 08:24	11/25/19 11:37	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.21	U	2.21	0.41	ug/Kg	☼	11/21/19 08:24	11/25/19 11:37	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.21	U	2.21	0.43	ug/Kg	☼	11/21/19 08:24	11/25/19 11:37	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196639-1

Client Sample ID: WSG-S5-0.5-2.0-0

Lab Sample ID: 460-196639-16

Date Collected: 11/11/19 11:25

Matrix: Solid

Date Received: 11/15/19 21:07

Percent Solids: 83.0

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFHxA	102		25 - 150	11/21/19 08:24	11/25/19 11:37	1
13C4 PFHpA	103		25 - 150	11/21/19 08:24	11/25/19 11:37	1
13C4 PFOA	100		25 - 150	11/21/19 08:24	11/25/19 11:37	1
13C5 PFNA	101		25 - 150	11/21/19 08:24	11/25/19 11:37	1
13C2 PFDA	96		25 - 150	11/21/19 08:24	11/25/19 11:37	1
13C2 PFUnA	102		25 - 150	11/21/19 08:24	11/25/19 11:37	1
13C2 PFDoA	103		25 - 150	11/21/19 08:24	11/25/19 11:37	1
13C2 PFTeDA	90		25 - 150	11/21/19 08:24	11/25/19 11:37	1
18O2 PFHxS	116		25 - 150	11/21/19 08:24	11/25/19 11:37	1
13C4 PFOS	98		25 - 150	11/21/19 08:24	11/25/19 11:37	1
d3-NMeFOSAA	86		25 - 150	11/21/19 08:24	11/25/19 11:37	1
d5-NEtFOSAA	109		25 - 150	11/21/19 08:24	11/25/19 11:37	1

Client Sample ID: WSG-S8-0.0-0.2-0

Lab Sample ID: 460-196639-17

Date Collected: 11/11/19 12:50

Matrix: Solid

Date Received: 11/15/19 21:07

Percent Solids: 77.8

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	0.25	U	0.25	0.053	ug/Kg	☼	11/21/19 08:35	11/25/19 02:50	1
Perfluoroheptanoic acid (PFHpA)	0.25	U	0.25	0.036	ug/Kg	☼	11/21/19 08:35	11/25/19 02:50	1
Perfluorooctanoic acid (PFOA)	0.16	J	0.25	0.11	ug/Kg	☼	11/21/19 08:35	11/25/19 02:50	1
Perfluorononanoic acid (PFNA)	0.11	J	0.25	0.045	ug/Kg	☼	11/21/19 08:35	11/25/19 02:50	1
Perfluorodecanoic acid (PFDA)	0.13	J	0.25	0.028	ug/Kg	☼	11/21/19 08:35	11/25/19 02:50	1
Perfluoroundecanoic acid (PFUnA)	0.26		0.25	0.045	ug/Kg	☼	11/21/19 08:35	11/25/19 02:50	1
Perfluorododecanoic acid (PFDoA)	0.25	U	0.25	0.084	ug/Kg	☼	11/21/19 08:35	11/25/19 02:50	1
Perfluorotridecanoic acid (PFTriA)	0.11	J	0.25	0.064	ug/Kg	☼	11/21/19 08:35	11/25/19 02:50	1
Perfluorotetradecanoic acid (PFTeA)	0.25	U	0.25	0.068	ug/Kg	☼	11/21/19 08:35	11/25/19 02:50	1
Perfluorobutanesulfonic acid (PFBS)	0.25	U	0.25	0.031	ug/Kg	☼	11/21/19 08:35	11/25/19 02:50	1
Perfluorohexanesulfonic acid (PFHxS)	0.053	J	0.25	0.039	ug/Kg	☼	11/21/19 08:35	11/25/19 02:50	1
Perfluorooctanesulfonic acid (PFOS)	1.56	B	0.63	0.25	ug/Kg	☼	11/21/19 08:35	11/25/19 02:50	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.51	U	2.51	0.47	ug/Kg	☼	11/21/19 08:35	11/25/19 02:50	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.51	U	2.51	0.49	ug/Kg	☼	11/21/19 08:35	11/25/19 02:50	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFHxA	93		25 - 150	11/21/19 08:35	11/25/19 02:50	1
13C4 PFHpA	101		25 - 150	11/21/19 08:35	11/25/19 02:50	1
13C4 PFOA	98		25 - 150	11/21/19 08:35	11/25/19 02:50	1
13C5 PFNA	93		25 - 150	11/21/19 08:35	11/25/19 02:50	1
13C2 PFDA	92		25 - 150	11/21/19 08:35	11/25/19 02:50	1
13C2 PFUnA	97		25 - 150	11/21/19 08:35	11/25/19 02:50	1
13C2 PFDoA	92		25 - 150	11/21/19 08:35	11/25/19 02:50	1
13C2 PFTeDA	89		25 - 150	11/21/19 08:35	11/25/19 02:50	1
18O2 PFHxS	113		25 - 150	11/21/19 08:35	11/25/19 02:50	1
13C4 PFOS	90		25 - 150	11/21/19 08:35	11/25/19 02:50	1
d3-NMeFOSAA	86		25 - 150	11/21/19 08:35	11/25/19 02:50	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196639-1

Client Sample ID: WSG-S8-0.0-0.2-0

Lab Sample ID: 460-196639-17

Date Collected: 11/11/19 12:50

Matrix: Solid

Date Received: 11/15/19 21:07

Percent Solids: 77.8

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	100		25 - 150	11/21/19 08:35	11/25/19 02:50	1

Client Sample ID: WSG-S8-0.5-2.0-0

Lab Sample ID: 460-196639-18

Date Collected: 11/11/19 12:55

Matrix: Solid

Date Received: 11/15/19 21:07

Percent Solids: 89.5

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	0.21	U	0.21	0.044	ug/Kg	☼	11/21/19 08:35	11/25/19 03:00	1
Perfluoroheptanoic acid (PFHpA)	0.21	U	0.21	0.030	ug/Kg	☼	11/21/19 08:35	11/25/19 03:00	1
Perfluorooctanoic acid (PFOA)	0.21	U	0.21	0.090	ug/Kg	☼	11/21/19 08:35	11/25/19 03:00	1
Perfluorononanoic acid (PFNA)	0.039	J	0.21	0.038	ug/Kg	☼	11/21/19 08:35	11/25/19 03:00	1
Perfluorodecanoic acid (PFDA)	0.21	U	0.21	0.023	ug/Kg	☼	11/21/19 08:35	11/25/19 03:00	1
Perfluoroundecanoic acid (PFUnA)	0.21	U	0.21	0.038	ug/Kg	☼	11/21/19 08:35	11/25/19 03:00	1
Perfluorododecanoic acid (PFDoA)	0.21	U	0.21	0.070	ug/Kg	☼	11/21/19 08:35	11/25/19 03:00	1
Perfluorotridecanoic acid (PFTriA)	0.21	U	0.21	0.053	ug/Kg	☼	11/21/19 08:35	11/25/19 03:00	1
Perfluorotetradecanoic acid (PFTeA)	0.21	U	0.21	0.056	ug/Kg	☼	11/21/19 08:35	11/25/19 03:00	1
Perfluorobutanesulfonic acid (PFBS)	0.21	U	0.21	0.026	ug/Kg	☼	11/21/19 08:35	11/25/19 03:00	1
Perfluorohexanesulfonic acid (PFHxS)	0.21	U	0.21	0.032	ug/Kg	☼	11/21/19 08:35	11/25/19 03:00	1
Perfluorooctanesulfonic acid (PFOS)	0.80	B	0.52	0.21	ug/Kg	☼	11/21/19 08:35	11/25/19 03:00	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.09	U	2.09	0.39	ug/Kg	☼	11/21/19 08:35	11/25/19 03:00	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.09	U	2.09	0.41	ug/Kg	☼	11/21/19 08:35	11/25/19 03:00	1
Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
13C2 PFHxA	101		25 - 150	11/21/19 08:35	11/25/19 03:00	1			
13C4 PFHpA	107		25 - 150	11/21/19 08:35	11/25/19 03:00	1			
13C4 PFOA	103		25 - 150	11/21/19 08:35	11/25/19 03:00	1			
13C5 PFNA	98		25 - 150	11/21/19 08:35	11/25/19 03:00	1			
13C2 PFDA	98		25 - 150	11/21/19 08:35	11/25/19 03:00	1			
13C2 PFUnA	102		25 - 150	11/21/19 08:35	11/25/19 03:00	1			
13C2 PFDoA	100		25 - 150	11/21/19 08:35	11/25/19 03:00	1			
13C2 PFTeDA	93		25 - 150	11/21/19 08:35	11/25/19 03:00	1			
18O2 PFHxS	111		25 - 150	11/21/19 08:35	11/25/19 03:00	1			
13C4 PFOS	91		25 - 150	11/21/19 08:35	11/25/19 03:00	1			
d3-NMeFOSAA	91		25 - 150	11/21/19 08:35	11/25/19 03:00	1			
d5-NEtFOSAA	86		25 - 150	11/21/19 08:35	11/25/19 03:00	1			

Client Sample ID: WSG-S9-0.0-0.2-0

Lab Sample ID: 460-196639-19

Date Collected: 11/11/19 13:15

Matrix: Solid

Date Received: 11/15/19 21:07

Percent Solids: 68.2

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	0.29	U	0.29	0.061	ug/Kg	☼	11/21/19 08:35	11/25/19 03:10	1
Perfluoroheptanoic acid (PFHpA)	0.046	J	0.29	0.042	ug/Kg	☼	11/21/19 08:35	11/25/19 03:10	1
Perfluorooctanoic acid (PFOA)	0.19	J	0.29	0.13	ug/Kg	☼	11/21/19 08:35	11/25/19 03:10	1
Perfluorononanoic acid (PFNA)	0.13	J	0.29	0.052	ug/Kg	☼	11/21/19 08:35	11/25/19 03:10	1
Perfluorodecanoic acid (PFDA)	0.22	J	0.29	0.032	ug/Kg	☼	11/21/19 08:35	11/25/19 03:10	1

Eurofins TestAmerica, Edison

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196639-1

Client Sample ID: WSG-S9-0.0-0.2-0

Lab Sample ID: 460-196639-19

Date Collected: 11/11/19 13:15

Matrix: Solid

Date Received: 11/15/19 21:07

Percent Solids: 68.2

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoroundecanoic acid (PFUnA)	1.07		0.29	0.052	ug/Kg	☼	11/21/19 08:35	11/25/19 03:10	1
Perfluorododecanoic acid (PFDoA)	0.11	J	0.29	0.097	ug/Kg	☼	11/21/19 08:35	11/25/19 03:10	1
Perfluorotridecanoic acid (PFTriA)	0.35		0.29	0.074	ug/Kg	☼	11/21/19 08:35	11/25/19 03:10	1
Perfluorotetradecanoic acid (PFTeA)	0.29	U	0.29	0.079	ug/Kg	☼	11/21/19 08:35	11/25/19 03:10	1
Perfluorobutanesulfonic acid (PFBS)	0.099	J	0.29	0.036	ug/Kg	☼	11/21/19 08:35	11/25/19 03:10	1
Perfluorohexanesulfonic acid (PFHxS)	0.054	J	0.29	0.045	ug/Kg	☼	11/21/19 08:35	11/25/19 03:10	1
Perfluorooctanesulfonic acid (PFOS)	2.49	B	0.73	0.29	ug/Kg	☼	11/21/19 08:35	11/25/19 03:10	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.91	U	2.91	0.54	ug/Kg	☼	11/21/19 08:35	11/25/19 03:10	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.91	U	2.91	0.57	ug/Kg	☼	11/21/19 08:35	11/25/19 03:10	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C2 PFHxA	92		25 - 150				11/21/19 08:35	11/25/19 03:10	1
13C4 PFHpA	97		25 - 150				11/21/19 08:35	11/25/19 03:10	1
13C4 PFOA	96		25 - 150				11/21/19 08:35	11/25/19 03:10	1
13C5 PFNA	92		25 - 150				11/21/19 08:35	11/25/19 03:10	1
13C2 PFDA	90		25 - 150				11/21/19 08:35	11/25/19 03:10	1
13C2 PFUnA	92		25 - 150				11/21/19 08:35	11/25/19 03:10	1
13C2 PFDoA	92		25 - 150				11/21/19 08:35	11/25/19 03:10	1
13C2 PFTeDA	82		25 - 150				11/21/19 08:35	11/25/19 03:10	1
18O2 PFHxS	110		25 - 150				11/21/19 08:35	11/25/19 03:10	1
13C4 PFOS	88		25 - 150				11/21/19 08:35	11/25/19 03:10	1
d3-NMeFOSAA	88		25 - 150				11/21/19 08:35	11/25/19 03:10	1
d5-NEtFOSAA	104		25 - 150				11/21/19 08:35	11/25/19 03:10	1

Client Sample ID: WSG-S9-0.5-2.0-0

Lab Sample ID: 460-196639-20

Date Collected: 11/11/19 13:25

Matrix: Solid

Date Received: 11/15/19 21:07

Percent Solids: 88.3

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	0.22	U	0.22	0.046	ug/Kg	☼	11/21/19 08:35	11/25/19 03:19	1
Perfluoroheptanoic acid (PFHpA)	0.22	U	0.22	0.032	ug/Kg	☼	11/21/19 08:35	11/25/19 03:19	1
Perfluorooctanoic acid (PFOA)	0.13	J	0.22	0.094	ug/Kg	☼	11/21/19 08:35	11/25/19 03:19	1
Perfluorononanoic acid (PFNA)	0.088	J	0.22	0.039	ug/Kg	☼	11/21/19 08:35	11/25/19 03:19	1
Perfluorodecanoic acid (PFDA)	0.044	J	0.22	0.024	ug/Kg	☼	11/21/19 08:35	11/25/19 03:19	1
Perfluoroundecanoic acid (PFUnA)	0.13	J	0.22	0.039	ug/Kg	☼	11/21/19 08:35	11/25/19 03:19	1
Perfluorododecanoic acid (PFDoA)	0.22	U	0.22	0.073	ug/Kg	☼	11/21/19 08:35	11/25/19 03:19	1
Perfluorotridecanoic acid (PFTriA)	0.070	J	0.22	0.056	ug/Kg	☼	11/21/19 08:35	11/25/19 03:19	1
Perfluorotetradecanoic acid (PFTeA)	0.22	U	0.22	0.059	ug/Kg	☼	11/21/19 08:35	11/25/19 03:19	1
Perfluorobutanesulfonic acid (PFBS)	0.22	U	0.22	0.027	ug/Kg	☼	11/21/19 08:35	11/25/19 03:19	1
Perfluorohexanesulfonic acid (PFHxS)	0.22	U	0.22	0.034	ug/Kg	☼	11/21/19 08:35	11/25/19 03:19	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196639-1

Client Sample ID: WSG-S9-0.5-2.0-0

Lab Sample ID: 460-196639-20

Date Collected: 11/11/19 13:25

Matrix: Solid

Date Received: 11/15/19 21:07

Percent Solids: 88.3

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	1.13	B	0.55	0.22	ug/Kg	☼	11/21/19 08:35	11/25/19 03:19	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.19	U	2.19	0.40	ug/Kg	☼	11/21/19 08:35	11/25/19 03:19	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.19	U	2.19	0.43	ug/Kg	☼	11/21/19 08:35	11/25/19 03:19	1
<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C2 PFHxA	93		25 - 150				11/21/19 08:35	11/25/19 03:19	1
13C4 PFHpA	102		25 - 150				11/21/19 08:35	11/25/19 03:19	1
13C4 PFOA	99		25 - 150				11/21/19 08:35	11/25/19 03:19	1
13C5 PFNA	93		25 - 150				11/21/19 08:35	11/25/19 03:19	1
13C2 PFDA	93		25 - 150				11/21/19 08:35	11/25/19 03:19	1
13C2 PFUnA	96		25 - 150				11/21/19 08:35	11/25/19 03:19	1
13C2 PFDoA	92		25 - 150				11/21/19 08:35	11/25/19 03:19	1
13C2 PFTeDA	84		25 - 150				11/21/19 08:35	11/25/19 03:19	1
18O2 PFHxS	107		25 - 150				11/21/19 08:35	11/25/19 03:19	1
13C4 PFOS	89		25 - 150				11/21/19 08:35	11/25/19 03:19	1
d3-NMeFOSAA	85		25 - 150				11/21/19 08:35	11/25/19 03:19	1
d5-NEtFOSAA	89		25 - 150				11/21/19 08:35	11/25/19 03:19	1

Client Sample ID: WSG-GS1-0.0-0.2-0

Lab Sample ID: 460-196639-21

Date Collected: 11/11/19 13:35

Matrix: Solid

Date Received: 11/15/19 21:07

Percent Solids: 80.0

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.1	U	1.1	0.25	ug/Kg	☼	11/19/19 01:56	11/24/19 09:54	1
1,1,2,2-Tetrachloroethane	1.1	U	1.1	0.23	ug/Kg	☼	11/19/19 01:56	11/24/19 09:54	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.1	U	1.1	0.32	ug/Kg	☼	11/19/19 01:56	11/24/19 09:54	1
1,1,2-Trichloroethane	1.1	U	1.1	0.19	ug/Kg	☼	11/19/19 01:56	11/24/19 09:54	1
1,1-Dichloroethane	1.1	U	1.1	0.22	ug/Kg	☼	11/19/19 01:56	11/24/19 09:54	1
1,1-Dichloroethene	1.1	U	1.1	0.24	ug/Kg	☼	11/19/19 01:56	11/24/19 09:54	1
1,2,4-Trichlorobenzene	1.1	U	1.1	0.38	ug/Kg	☼	11/19/19 01:56	11/24/19 09:54	1
1,2-Dibromo-3-Chloropropane	1.1	U	1.1	0.48	ug/Kg	☼	11/19/19 01:56	11/24/19 09:54	1
1,2-Dichlorobenzene	1.1	U	1.1	0.15	ug/Kg	☼	11/19/19 01:56	11/24/19 09:54	1
1,2-Dichloroethane	1.1	U	1.1	0.31	ug/Kg	☼	11/19/19 01:56	11/24/19 09:54	1
1,2-Dichloropropane	1.1	U	1.1	0.45	ug/Kg	☼	11/19/19 01:56	11/24/19 09:54	1
1,3-Dichlorobenzene	1.1	U	1.1	0.17	ug/Kg	☼	11/19/19 01:56	11/24/19 09:54	1
1,4-Dichlorobenzene	1.1	U	1.1	0.24	ug/Kg	☼	11/19/19 01:56	11/24/19 09:54	1
2-Butanone (MEK)	5.3	U	5.3	2.9	ug/Kg	☼	11/19/19 01:56	11/24/19 09:54	1
2-Hexanone	5.3	U	5.3	1.8	ug/Kg	☼	11/19/19 01:56	11/24/19 09:54	1
4-Methyl-2-pentanone (MIBK)	5.3	U	5.3	1.6	ug/Kg	☼	11/19/19 01:56	11/24/19 09:54	1
Acetone	11		6.3	6.0	ug/Kg	☼	11/19/19 01:56	11/24/19 09:54	1
Benzene	1.1	U	1.1	0.27	ug/Kg	☼	11/19/19 01:56	11/24/19 09:54	1
Bromoform	1.1	U	1.1	0.45	ug/Kg	☼	11/19/19 01:56	11/24/19 09:54	1
Bromomethane	1.1	U	1.1	0.50	ug/Kg	☼	11/19/19 01:56	11/24/19 09:54	1
Carbon disulfide	1.1	U	1.1	0.28	ug/Kg	☼	11/19/19 01:56	11/24/19 09:54	1
Carbon tetrachloride	1.1	U	1.1	0.41	ug/Kg	☼	11/19/19 01:56	11/24/19 09:54	1
Chlorobenzene	1.1	U	1.1	0.19	ug/Kg	☼	11/19/19 01:56	11/24/19 09:54	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196639-1

Client Sample ID: WSG-GS1-0.0-0.2-0

Lab Sample ID: 460-196639-21

Date Collected: 11/11/19 13:35

Matrix: Solid

Date Received: 11/15/19 21:07

Percent Solids: 80.0

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorodibromomethane	1.1	U	1.1	0.20	ug/Kg	☒	11/19/19 01:56	11/24/19 09:54	1
Chloroethane	1.1	U	1.1	0.55	ug/Kg	☒	11/19/19 01:56	11/24/19 09:54	1
Chloroform	1.1	U	1.1	0.34	ug/Kg	☒	11/19/19 01:56	11/24/19 09:54	1
Chloromethane	1.1	U	1.1	0.46	ug/Kg	☒	11/19/19 01:56	11/24/19 09:54	1
cis-1,2-Dichloroethene	1.1	U	1.1	0.16	ug/Kg	☒	11/19/19 01:56	11/24/19 09:54	1
cis-1,3-Dichloropropene	1.1	U	1.1	0.29	ug/Kg	☒	11/19/19 01:56	11/24/19 09:54	1
Cyclohexane	1.1	U	1.1	0.23	ug/Kg	☒	11/19/19 01:56	11/24/19 09:54	1
Dichlorobromomethane	1.1	U	1.1	0.27	ug/Kg	☒	11/19/19 01:56	11/24/19 09:54	1
Dichlorodifluoromethane	1.1	U	1.1	0.36	ug/Kg	☒	11/19/19 01:56	11/24/19 09:54	1
Ethylbenzene	1.1	U	1.1	0.21	ug/Kg	☒	11/19/19 01:56	11/24/19 09:54	1
Ethylene Dibromide	1.1	U	1.1	0.19	ug/Kg	☒	11/19/19 01:56	11/24/19 09:54	1
Isopropylbenzene	1.1	U	1.1	0.13	ug/Kg	☒	11/19/19 01:56	11/24/19 09:54	1
Methyl acetate	5.3	U *	5.3	4.5	ug/Kg	☒	11/19/19 01:56	11/24/19 09:54	1
Methyl tert-butyl ether	1.1	U	1.1	0.13	ug/Kg	☒	11/19/19 01:56	11/24/19 09:54	1
Methylcyclohexane	1.1	U	1.1	0.53	ug/Kg	☒	11/19/19 01:56	11/24/19 09:54	1
Methylene Chloride	0.50	J	1.1	0.49	ug/Kg	☒	11/19/19 01:56	11/24/19 09:54	1
Styrene	1.1	U	1.1	0.29	ug/Kg	☒	11/19/19 01:56	11/24/19 09:54	1
Tetrachloroethene	1.1	U	1.1	0.15	ug/Kg	☒	11/19/19 01:56	11/24/19 09:54	1
Toluene	1.1	U	1.1	0.25	ug/Kg	☒	11/19/19 01:56	11/24/19 09:54	1
trans-1,2-Dichloroethene	1.1	U	1.1	0.26	ug/Kg	☒	11/19/19 01:56	11/24/19 09:54	1
trans-1,3-Dichloropropene	1.1	U	1.1	0.28	ug/Kg	☒	11/19/19 01:56	11/24/19 09:54	1
Trichloroethene	1.1	U	1.1	0.15	ug/Kg	☒	11/19/19 01:56	11/24/19 09:54	1
Trichlorofluoromethane	1.1	U	1.1	0.43	ug/Kg	☒	11/19/19 01:56	11/24/19 09:54	1
Vinyl chloride	1.1	U	1.1	0.58	ug/Kg	☒	11/19/19 01:56	11/24/19 09:54	1
Xylenes, Total	2.1	U	2.1	0.18	ug/Kg	☒	11/19/19 01:56	11/24/19 09:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		78 - 135	11/19/19 01:56	11/24/19 09:54	1
4-Bromofluorobenzene	97		67 - 126	11/19/19 01:56	11/24/19 09:54	1
Dibromofluoromethane (Surr)	95		61 - 149	11/19/19 01:56	11/24/19 09:54	1
Toluene-d8 (Surr)	84		73 - 121	11/19/19 01:56	11/24/19 09:54	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	410	U	410	5.5	ug/Kg	☒	11/17/19 12:36	11/18/19 03:50	1
2,2'-oxybis[1-chloropropane]	410	U	410	7.5	ug/Kg	☒	11/17/19 12:36	11/18/19 03:50	1
2,4,5-Trichlorophenol	410	U	410	42	ug/Kg	☒	11/17/19 12:36	11/18/19 03:50	1
2,4,6-Trichlorophenol	170	U	170	53	ug/Kg	☒	11/17/19 12:36	11/18/19 03:50	1
2,4-Dichlorophenol	170	U	170	26	ug/Kg	☒	11/17/19 12:36	11/18/19 03:50	1
2,4-Dimethylphenol	410	U	410	18	ug/Kg	☒	11/17/19 12:36	11/18/19 03:50	1
2,4-Dinitrophenol	330	U	330	200	ug/Kg	☒	11/17/19 12:36	11/18/19 03:50	1
2,4-Dinitrotoluene	84	U	84	44	ug/Kg	☒	11/17/19 12:36	11/18/19 03:50	1
2,6-Dinitrotoluene	84	U	84	30	ug/Kg	☒	11/17/19 12:36	11/18/19 03:50	1
2-Chloronaphthalene	410	U	410	19	ug/Kg	☒	11/17/19 12:36	11/18/19 03:50	1
2-Chlorophenol	410	U	410	15	ug/Kg	☒	11/17/19 12:36	11/18/19 03:50	1
2-Methylnaphthalene	410	U	410	12	ug/Kg	☒	11/17/19 12:36	11/18/19 03:50	1
2-Methylphenol	410	U	410	15	ug/Kg	☒	11/17/19 12:36	11/18/19 03:50	1
2-Nitroaniline	410	U	410	15	ug/Kg	☒	11/17/19 12:36	11/18/19 03:50	1
2-Nitrophenol	410	U	410	41	ug/Kg	☒	11/17/19 12:36	11/18/19 03:50	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196639-1

Client Sample ID: WSG-GS1-0.0-0.2-0

Lab Sample ID: 460-196639-21

Date Collected: 11/11/19 13:35

Matrix: Solid

Date Received: 11/15/19 21:07

Percent Solids: 80.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	170	U	170	62	ug/Kg	☒	11/17/19 12:36	11/18/19 03:50	1
3-Nitroaniline	410	U	410	47	ug/Kg	☒	11/17/19 12:36	11/18/19 03:50	1
4,6-Dinitro-2-methylphenol	330	U	330	67	ug/Kg	☒	11/17/19 12:36	11/18/19 03:50	1
4-Bromophenyl phenyl ether	410	U	410	16	ug/Kg	☒	11/17/19 12:36	11/18/19 03:50	1
4-Chloro-3-methylphenol	410	U	410	23	ug/Kg	☒	11/17/19 12:36	11/18/19 03:50	1
4-Chloroaniline	410	U	410	29	ug/Kg	☒	11/17/19 12:36	11/18/19 03:50	1
4-Chlorophenyl phenyl ether	410	U	410	15	ug/Kg	☒	11/17/19 12:36	11/18/19 03:50	1
4-Methylphenol	410	U	410	26	ug/Kg	☒	11/17/19 12:36	11/18/19 03:50	1
4-Nitroaniline	410	U	410	47	ug/Kg	☒	11/17/19 12:36	11/18/19 03:50	1
4-Nitrophenol	840	U	840	67	ug/Kg	☒	11/17/19 12:36	11/18/19 03:50	1
Acenaphthene	410	U	410	30	ug/Kg	☒	11/17/19 12:36	11/18/19 03:50	1
Acenaphthylene	410	U	410	4.3	ug/Kg	☒	11/17/19 12:36	11/18/19 03:50	1
Acetophenone	410	U	410	20	ug/Kg	☒	11/17/19 12:36	11/18/19 03:50	1
Anthracene	410	U	410	13	ug/Kg	☒	11/17/19 12:36	11/18/19 03:50	1
Atrazine	170	U	170	10	ug/Kg	☒	11/17/19 12:36	11/18/19 03:50	1
Benzaldehyde	410	U	410	18	ug/Kg	☒	11/17/19 12:36	11/18/19 03:50	1
Benzo[a]anthracene	41	U	41	14	ug/Kg	☒	11/17/19 12:36	11/18/19 03:50	1
Benzo[a]pyrene	41	U	41	11	ug/Kg	☒	11/17/19 12:36	11/18/19 03:50	1
Benzo[b]fluoranthene	11	J	41	11	ug/Kg	☒	11/17/19 12:36	11/18/19 03:50	1
Benzo[g,h,i]perylene	410	U	410	12	ug/Kg	☒	11/17/19 12:36	11/18/19 03:50	1
Benzo[k]fluoranthene	41	U	41	8.1	ug/Kg	☒	11/17/19 12:36	11/18/19 03:50	1
Bis(2-chloroethoxy)methane	410	U	410	32	ug/Kg	☒	11/17/19 12:36	11/18/19 03:50	1
Bis(2-chloroethyl)ether	41	U	41	14	ug/Kg	☒	11/17/19 12:36	11/18/19 03:50	1
Bis(2-ethylhexyl) phthalate	410	U	410	22	ug/Kg	☒	11/17/19 12:36	11/18/19 03:50	1
Butyl benzyl phthalate	410	U	410	19	ug/Kg	☒	11/17/19 12:36	11/18/19 03:50	1
Caprolactam	410	U	410	64	ug/Kg	☒	11/17/19 12:36	11/18/19 03:50	1
Carbazole	410	U	410	16	ug/Kg	☒	11/17/19 12:36	11/18/19 03:50	1
Chrysene	410	U	410	7.0	ug/Kg	☒	11/17/19 12:36	11/18/19 03:50	1
Dibenz(a,h)anthracene	41	U	41	18	ug/Kg	☒	11/17/19 12:36	11/18/19 03:50	1
Dibenzofuran	410	U	410	5.8	ug/Kg	☒	11/17/19 12:36	11/18/19 03:50	1
Diethyl phthalate	410	U	410	6.0	ug/Kg	☒	11/17/19 12:36	11/18/19 03:50	1
Dimethyl phthalate	410	U	410	94	ug/Kg	☒	11/17/19 12:36	11/18/19 03:50	1
Di-n-butyl phthalate	410	U	410	73	ug/Kg	☒	11/17/19 12:36	11/18/19 03:50	1
Di-n-octyl phthalate	410	U	410	22	ug/Kg	☒	11/17/19 12:36	11/18/19 03:50	1
Fluoranthene	410	U	410	14	ug/Kg	☒	11/17/19 12:36	11/18/19 03:50	1
Fluorene	410	U	410	5.6	ug/Kg	☒	11/17/19 12:36	11/18/19 03:50	1
Hexachlorobenzene	41	U	41	20	ug/Kg	☒	11/17/19 12:36	11/18/19 03:50	1
Hexachlorobutadiene	84	U	84	8.8	ug/Kg	☒	11/17/19 12:36	11/18/19 03:50	1
Hexachlorocyclopentadiene	410	U	410	36	ug/Kg	☒	11/17/19 12:36	11/18/19 03:50	1
Hexachloroethane	41	U	41	14	ug/Kg	☒	11/17/19 12:36	11/18/19 03:50	1
Indeno[1,2,3-cd]pyrene	41	U	41	16	ug/Kg	☒	11/17/19 12:36	11/18/19 03:50	1
Isophorone	170	U	170	120	ug/Kg	☒	11/17/19 12:36	11/18/19 03:50	1
Naphthalene	410	U	410	7.1	ug/Kg	☒	11/17/19 12:36	11/18/19 03:50	1
Nitrobenzene	41	U	41	9.9	ug/Kg	☒	11/17/19 12:36	11/18/19 03:50	1
N-Nitrosodi-n-propylamine	41	U	41	30	ug/Kg	☒	11/17/19 12:36	11/18/19 03:50	1
N-Nitrosodiphenylamine	410	U	410	7.9	ug/Kg	☒	11/17/19 12:36	11/18/19 03:50	1
Pentachlorophenol	330	U	330	85	ug/Kg	☒	11/17/19 12:36	11/18/19 03:50	1
Phenanthrene	410	U	410	7.3	ug/Kg	☒	11/17/19 12:36	11/18/19 03:50	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196639-1

Client Sample ID: WSG-GS1-0.0-0.2-0

Lab Sample ID: 460-196639-21

Date Collected: 11/11/19 13:35

Matrix: Solid

Date Received: 11/15/19 21:07

Percent Solids: 80.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	410	U	410	15	ug/Kg	☼	11/17/19 12:36	11/18/19 03:50	1
Pyrene	410	U	410	10	ug/Kg	☼	11/17/19 12:36	11/18/19 03:50	1
1,4-Dioxane	120	U	120	11	ug/Kg	☼	11/17/19 12:36	11/18/19 03:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	52		10 - 137	11/17/19 12:36	11/18/19 03:50	1
2-Fluorophenol (Surr)	51		20 - 115	11/17/19 12:36	11/18/19 03:50	1
Nitrobenzene-d5 (Surr)	52		25 - 113	11/17/19 12:36	11/18/19 03:50	1
Terphenyl-d14 (Surr)	62		27 - 123	11/17/19 12:36	11/18/19 03:50	1
Phenol-d5 (Surr)	51		28 - 109	11/17/19 12:36	11/18/19 03:50	1
2-Fluorobiphenyl	49		29 - 107	11/17/19 12:36	11/18/19 03:50	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	8.4	U	8.4	1.4	ug/Kg	☼	11/17/19 08:26	11/19/19 10:50	1
4,4'-DDE	8.4	U	8.4	0.99	ug/Kg	☼	11/17/19 08:26	11/19/19 10:50	1
4,4'-DDT	7.3	J	8.4	1.5	ug/Kg	☼	11/17/19 08:26	11/19/19 10:50	1
Aldrin	8.4	U	8.4	1.3	ug/Kg	☼	11/17/19 08:26	11/19/19 10:50	1
alpha-BHC	2.5	U	2.5	0.85	ug/Kg	☼	11/17/19 08:26	11/19/19 10:50	1
beta-BHC	2.5	U	2.5	0.94	ug/Kg	☼	11/17/19 08:26	11/19/19 10:50	1
Chlordane (technical)	84	U	84	20	ug/Kg	☼	11/17/19 08:26	11/19/19 10:50	1
delta-BHC	2.5	U	2.5	0.51	ug/Kg	☼	11/17/19 08:26	11/19/19 10:50	1
Dieldrin	4.1		2.5	1.1	ug/Kg	☼	11/17/19 08:26	11/19/19 10:50	1
Endosulfan I	8.4	U	8.4	1.3	ug/Kg	☼	11/17/19 08:26	11/19/19 10:50	1
Endosulfan II	8.4	U	8.4	2.2	ug/Kg	☼	11/17/19 08:26	11/19/19 10:50	1
Endosulfan sulfate	8.4	U	8.4	1.1	ug/Kg	☼	11/17/19 08:26	11/19/19 10:50	1
Endrin	8.4	U	8.4	1.2	ug/Kg	☼	11/17/19 08:26	11/19/19 10:50	1
Endrin aldehyde	8.4	U	8.4	2.0	ug/Kg	☼	11/17/19 08:26	11/19/19 10:50	1
Endrin ketone	8.4	U	8.4	1.6	ug/Kg	☼	11/17/19 08:26	11/19/19 10:50	1
gamma-BHC (Lindane)	2.5	U	2.5	0.78	ug/Kg	☼	11/17/19 08:26	11/19/19 10:50	1
Heptachlor	8.4	U	8.4	0.99	ug/Kg	☼	11/17/19 08:26	11/19/19 10:50	1
Heptachlor epoxide	8.4	U	8.4	1.3	ug/Kg	☼	11/17/19 08:26	11/19/19 10:50	1
Methoxychlor	8.4	U	8.4	1.9	ug/Kg	☼	11/17/19 08:26	11/19/19 10:50	1
Toxaphene	84	U	84	30	ug/Kg	☼	11/17/19 08:26	11/19/19 10:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	86		49 - 150	11/17/19 08:26	11/19/19 10:50	1
DCB Decachlorobiphenyl	110		49 - 150	11/17/19 08:26	11/19/19 10:50	1
Tetrachloro-m-xylene	95		47 - 150	11/17/19 08:26	11/19/19 10:50	1
Tetrachloro-m-xylene	96		47 - 150	11/17/19 08:26	11/19/19 10:50	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	84	U	84	11	ug/Kg	☼	11/17/19 08:18	11/18/19 12:24	1
Aroclor 1221	84	U	84	11	ug/Kg	☼	11/17/19 08:18	11/18/19 12:24	1
Aroclor 1232	84	U	84	11	ug/Kg	☼	11/17/19 08:18	11/18/19 12:24	1
Aroclor 1242	84	U	84	11	ug/Kg	☼	11/17/19 08:18	11/18/19 12:24	1
Aroclor 1248	84	U	84	11	ug/Kg	☼	11/17/19 08:18	11/18/19 12:24	1
Aroclor 1254	84	U	84	12	ug/Kg	☼	11/17/19 08:18	11/18/19 12:24	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196639-1

Client Sample ID: WSG-GS1-0.0-0.2-0

Lab Sample ID: 460-196639-21

Date Collected: 11/11/19 13:35

Matrix: Solid

Date Received: 11/15/19 21:07

Percent Solids: 80.0

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1260	84	U	84	12	ug/Kg	☼	11/17/19 08:18	11/18/19 12:24	1
Aroclor-1262	84	U	84	12	ug/Kg	☼	11/17/19 08:18	11/18/19 12:24	1
Aroclor 1268	84	U	84	12	ug/Kg	☼	11/17/19 08:18	11/18/19 12:24	1
Polychlorinated biphenyls, Total	84	U	84	12	ug/Kg	☼	11/17/19 08:18	11/18/19 12:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	123		53 - 150	11/17/19 08:18	11/18/19 12:24	1
DCB Decachlorobiphenyl	144		53 - 150	11/17/19 08:18	11/18/19 12:24	1

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	42	U	42	15	ug/Kg	☼	11/20/19 02:56	11/20/19 15:57	1
Silvex (2,4,5-TP)	42	U	42	4.3	ug/Kg	☼	11/20/19 02:56	11/20/19 15:57	1
2,4,5-T	42	U	42	8.9	ug/Kg	☼	11/20/19 02:56	11/20/19 15:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	115		30 - 150	11/20/19 02:56	11/20/19 15:57	1
2,4-Dichlorophenylacetic acid	122		30 - 150	11/20/19 02:56	11/20/19 15:57	1

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	0.23	U	0.23	0.049	ug/Kg	☼	11/21/19 08:35	11/25/19 03:29	1
Perfluoroheptanoic acid (PFHpA)	0.23	U	0.23	0.034	ug/Kg	☼	11/21/19 08:35	11/25/19 03:29	1
Perfluorooctanoic acid (PFOA)	0.23	U	0.23	0.10	ug/Kg	☼	11/21/19 08:35	11/25/19 03:29	1
Perfluorononanoic acid (PFNA)	0.064	J	0.23	0.042	ug/Kg	☼	11/21/19 08:35	11/25/19 03:29	1
Perfluorodecanoic acid (PFDA)	0.081	J	0.23	0.026	ug/Kg	☼	11/21/19 08:35	11/25/19 03:29	1
Perfluoroundecanoic acid (PFUnA)	0.13	J	0.23	0.042	ug/Kg	☼	11/21/19 08:35	11/25/19 03:29	1
Perfluorododecanoic acid (PFDoA)	0.23	U	0.23	0.078	ug/Kg	☼	11/21/19 08:35	11/25/19 03:29	1
Perfluorotridecanoic acid (PFTriA)	0.23	U	0.23	0.060	ug/Kg	☼	11/21/19 08:35	11/25/19 03:29	1
Perfluorotetradecanoic acid (PFTeA)	0.23	U	0.23	0.063	ug/Kg	☼	11/21/19 08:35	11/25/19 03:29	1
Perfluorobutanesulfonic acid (PFBS)	0.23	U	0.23	0.029	ug/Kg	☼	11/21/19 08:35	11/25/19 03:29	1
Perfluorohexanesulfonic acid (PFHxS)	0.23	U	0.23	0.036	ug/Kg	☼	11/21/19 08:35	11/25/19 03:29	1
Perfluorooctanesulfonic acid (PFOS)	1.38	B	0.59	0.23	ug/Kg	☼	11/21/19 08:35	11/25/19 03:29	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.34	U	2.34	0.43	ug/Kg	☼	11/21/19 08:35	11/25/19 03:29	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.34	U	2.34	0.46	ug/Kg	☼	11/21/19 08:35	11/25/19 03:29	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFHxA	94		25 - 150	11/21/19 08:35	11/25/19 03:29	1
13C4 PFHpA	101		25 - 150	11/21/19 08:35	11/25/19 03:29	1
13C4 PFOA	97		25 - 150	11/21/19 08:35	11/25/19 03:29	1
13C5 PFNA	92		25 - 150	11/21/19 08:35	11/25/19 03:29	1
13C2 PFDA	87		25 - 150	11/21/19 08:35	11/25/19 03:29	1
13C2 PFUnA	93		25 - 150	11/21/19 08:35	11/25/19 03:29	1
13C2 PFDoA	92		25 - 150	11/21/19 08:35	11/25/19 03:29	1
13C2 PFTeA	83		25 - 150	11/21/19 08:35	11/25/19 03:29	1
18O2 PFHxS	111		25 - 150	11/21/19 08:35	11/25/19 03:29	1
13C4 PFOS	86		25 - 150	11/21/19 08:35	11/25/19 03:29	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196639-1

Client Sample ID: WSG-GS1-0.0-0.2-0

Lab Sample ID: 460-196639-21

Date Collected: 11/11/19 13:35

Matrix: Solid

Date Received: 11/15/19 21:07

Percent Solids: 80.0

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d3-NMeFOSAA	75		25 - 150	11/21/19 08:35	11/25/19 03:29	1
d5-NEtFOSAA	87		25 - 150	11/21/19 08:35	11/25/19 03:29	1

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	7320		35.7	17.5	mg/Kg	☼	11/26/19 04:30	11/26/19 17:51	4
Silver	2.4	U	2.4	0.23	mg/Kg	☼	11/26/19 04:30	11/26/19 17:51	4
Aluminum	5380		47.6	13.5	mg/Kg	☼	11/26/19 04:30	11/26/19 17:51	4
Arsenic	6.7		3.6	1.4	mg/Kg	☼	11/26/19 04:30	11/26/19 17:51	4
Boron	5.9	J	11.9	3.3	mg/Kg	☼	11/26/19 04:30	11/26/19 17:51	4
Barium	19.5	J	47.6	2.6	mg/Kg	☼	11/26/19 04:30	11/26/19 17:51	4
Beryllium	0.32	J	0.48	0.11	mg/Kg	☼	11/26/19 04:30	11/26/19 17:51	4
Calcium	1140	J	1190	70.1	mg/Kg	☼	11/26/19 04:30	11/26/19 17:51	4
Cadmium	0.95	U	0.95	0.16	mg/Kg	☼	11/26/19 04:30	11/26/19 17:51	4
Cobalt	2.3	J	11.9	1.5	mg/Kg	☼	11/26/19 04:30	11/26/19 17:51	4
Chromium	8.7		2.4	0.42	mg/Kg	☼	11/26/19 04:30	11/26/19 17:51	4
Copper	17.1		6.0	3.2	mg/Kg	☼	11/26/19 04:30	11/26/19 17:51	4
Potassium	322	J	1190	74.0	mg/Kg	☼	11/26/19 04:30	11/26/19 17:51	4
Magnesium	990	J	1190	69.4	mg/Kg	☼	11/26/19 04:30	11/26/19 17:51	4
Manganese	102		3.6	0.42	mg/Kg	☼	11/26/19 04:30	11/26/19 17:51	4
Molybdenum	4.8	U	4.8	1.1	mg/Kg	☼	11/26/19 04:30	11/26/19 17:51	4
Sodium	1190	U	1190	95.7	mg/Kg	☼	11/26/19 04:30	11/26/19 17:51	4
Nickel	4.7	J	9.5	0.88	mg/Kg	☼	11/26/19 04:30	11/26/19 17:51	4
Lead	16.6		2.4	0.62	mg/Kg	☼	11/26/19 04:30	11/26/19 17:51	4
Antimony	4.8	U	4.8	1.3	mg/Kg	☼	11/26/19 04:30	11/26/19 17:51	4
Selenium	4.8	U	4.8	2.8	mg/Kg	☼	11/26/19 04:30	11/26/19 17:51	4
Tin	11.9	U	11.9	7.7	mg/Kg	☼	11/26/19 04:30	11/26/19 17:51	4
Strontium	5.9		4.8	0.48	mg/Kg	☼	11/26/19 04:30	11/26/19 17:51	4
Titanium	289		4.8	0.72	mg/Kg	☼	11/26/19 04:30	11/26/19 17:51	4
Thallium	4.8	U	4.8	0.76	mg/Kg	☼	11/26/19 04:30	11/26/19 17:51	4
Vanadium	11.5	J	11.9	0.79	mg/Kg	☼	11/26/19 04:30	11/26/19 17:51	4
Zinc	26.9		7.1	5.5	mg/Kg	☼	11/26/19 04:30	11/26/19 17:51	4

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.038		0.020	0.012	mg/Kg	☼	11/25/19 04:00	11/25/19 08:26	1

Client Sample ID: WSG-GS1-0.0-0.2-1

Lab Sample ID: 460-196639-22

Date Collected: 11/11/19 13:35

Matrix: Solid

Date Received: 11/15/19 21:07

Percent Solids: 82.4

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.3	U	1.3	0.30	ug/Kg	☼	11/19/19 01:57	11/24/19 10:18	1
1,1,2,2-Tetrachloroethane	1.3	U	1.3	0.27	ug/Kg	☼	11/19/19 01:57	11/24/19 10:18	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.3	U	1.3	0.38	ug/Kg	☼	11/19/19 01:57	11/24/19 10:18	1
1,1,2-Trichloroethane	1.3	U	1.3	0.23	ug/Kg	☼	11/19/19 01:57	11/24/19 10:18	1
1,1-Dichloroethane	1.3	U	1.3	0.26	ug/Kg	☼	11/19/19 01:57	11/24/19 10:18	1
1,1-Dichloroethene	1.3	U	1.3	0.29	ug/Kg	☼	11/19/19 01:57	11/24/19 10:18	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196639-1

Client Sample ID: WSG-GS1-0.0-0.2-1

Lab Sample ID: 460-196639-22

Date Collected: 11/11/19 13:35

Matrix: Solid

Date Received: 11/15/19 21:07

Percent Solids: 82.4

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	1.3	U	1.3	0.46	ug/Kg	☒	11/19/19 01:57	11/24/19 10:18	1
1,2-Dibromo-3-Chloropropane	1.3	U	1.3	0.59	ug/Kg	☒	11/19/19 01:57	11/24/19 10:18	1
1,2-Dichlorobenzene	1.3	U	1.3	0.18	ug/Kg	☒	11/19/19 01:57	11/24/19 10:18	1
1,2-Dichloroethane	1.3	U	1.3	0.38	ug/Kg	☒	11/19/19 01:57	11/24/19 10:18	1
1,2-Dichloropropane	1.3	U	1.3	0.54	ug/Kg	☒	11/19/19 01:57	11/24/19 10:18	1
1,3-Dichlorobenzene	1.3	U	1.3	0.20	ug/Kg	☒	11/19/19 01:57	11/24/19 10:18	1
1,4-Dichlorobenzene	1.3	U	1.3	0.29	ug/Kg	☒	11/19/19 01:57	11/24/19 10:18	1
2-Butanone (MEK)	6.4	U	6.4	3.5	ug/Kg	☒	11/19/19 01:57	11/24/19 10:18	1
2-Hexanone	6.4	U	6.4	2.2	ug/Kg	☒	11/19/19 01:57	11/24/19 10:18	1
4-Methyl-2-pentanone (MIBK)	6.4	U	6.4	2.0	ug/Kg	☒	11/19/19 01:57	11/24/19 10:18	1
Acetone	17		7.7	7.3	ug/Kg	☒	11/19/19 01:57	11/24/19 10:18	1
Benzene	1.3	U	1.3	0.33	ug/Kg	☒	11/19/19 01:57	11/24/19 10:18	1
Bromoform	1.3	U	1.3	0.54	ug/Kg	☒	11/19/19 01:57	11/24/19 10:18	1
Bromomethane	1.3	U	1.3	0.61	ug/Kg	☒	11/19/19 01:57	11/24/19 10:18	1
Carbon disulfide	1.3	U	1.3	0.34	ug/Kg	☒	11/19/19 01:57	11/24/19 10:18	1
Carbon tetrachloride	1.3	U	1.3	0.49	ug/Kg	☒	11/19/19 01:57	11/24/19 10:18	1
Chlorobenzene	1.3	U	1.3	0.23	ug/Kg	☒	11/19/19 01:57	11/24/19 10:18	1
Chlorodibromomethane	1.3	U	1.3	0.25	ug/Kg	☒	11/19/19 01:57	11/24/19 10:18	1
Chloroethane	1.3	U	1.3	0.67	ug/Kg	☒	11/19/19 01:57	11/24/19 10:18	1
Chloroform	1.3	U	1.3	0.41	ug/Kg	☒	11/19/19 01:57	11/24/19 10:18	1
Chloromethane	1.3	U	1.3	0.56	ug/Kg	☒	11/19/19 01:57	11/24/19 10:18	1
cis-1,2-Dichloroethene	1.3	U	1.3	0.19	ug/Kg	☒	11/19/19 01:57	11/24/19 10:18	1
cis-1,3-Dichloropropene	1.3	U	1.3	0.35	ug/Kg	☒	11/19/19 01:57	11/24/19 10:18	1
Cyclohexane	1.3	U	1.3	0.28	ug/Kg	☒	11/19/19 01:57	11/24/19 10:18	1
Dichlorobromomethane	1.3	U	1.3	0.33	ug/Kg	☒	11/19/19 01:57	11/24/19 10:18	1
Dichlorodifluoromethane	1.3	U	1.3	0.43	ug/Kg	☒	11/19/19 01:57	11/24/19 10:18	1
Ethylbenzene	1.3	U	1.3	0.25	ug/Kg	☒	11/19/19 01:57	11/24/19 10:18	1
Ethylene Dibromide	1.3	U	1.3	0.23	ug/Kg	☒	11/19/19 01:57	11/24/19 10:18	1
Isopropylbenzene	1.3	U	1.3	0.16	ug/Kg	☒	11/19/19 01:57	11/24/19 10:18	1
Methyl acetate	6.4	U *	6.4	5.5	ug/Kg	☒	11/19/19 01:57	11/24/19 10:18	1
Methyl tert-butyl ether	1.3	U	1.3	0.16	ug/Kg	☒	11/19/19 01:57	11/24/19 10:18	1
Methylcyclohexane	1.3	U	1.3	0.64	ug/Kg	☒	11/19/19 01:57	11/24/19 10:18	1
Methylene Chloride	0.67	J	1.3	0.59	ug/Kg	☒	11/19/19 01:57	11/24/19 10:18	1
Styrene	1.3	U	1.3	0.36	ug/Kg	☒	11/19/19 01:57	11/24/19 10:18	1
Tetrachloroethene	1.3	U	1.3	0.18	ug/Kg	☒	11/19/19 01:57	11/24/19 10:18	1
Toluene	1.3	U	1.3	0.30	ug/Kg	☒	11/19/19 01:57	11/24/19 10:18	1
trans-1,2-Dichloroethene	1.3	U	1.3	0.31	ug/Kg	☒	11/19/19 01:57	11/24/19 10:18	1
trans-1,3-Dichloropropene	1.3	U	1.3	0.34	ug/Kg	☒	11/19/19 01:57	11/24/19 10:18	1
Trichloroethene	1.3	U	1.3	0.18	ug/Kg	☒	11/19/19 01:57	11/24/19 10:18	1
Trichlorofluoromethane	1.3	U	1.3	0.52	ug/Kg	☒	11/19/19 01:57	11/24/19 10:18	1
Vinyl chloride	1.3	U	1.3	0.70	ug/Kg	☒	11/19/19 01:57	11/24/19 10:18	1
Xylenes, Total	2.6	U	2.6	0.22	ug/Kg	☒	11/19/19 01:57	11/24/19 10:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93		78 - 135	11/19/19 01:57	11/24/19 10:18	1
4-Bromofluorobenzene	101		67 - 126	11/19/19 01:57	11/24/19 10:18	1
Dibromofluoromethane (Surr)	96		61 - 149	11/19/19 01:57	11/24/19 10:18	1
Toluene-d8 (Surr)	90		73 - 121	11/19/19 01:57	11/24/19 10:18	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196639-1

Client Sample ID: WSG-GS1-0.0-0.2-1

Lab Sample ID: 460-196639-22

Date Collected: 11/11/19 13:35

Matrix: Solid

Date Received: 11/15/19 21:07

Percent Solids: 82.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	400	U	400	5.3	ug/Kg	☒	11/17/19 12:36	11/18/19 04:13	1
2,2'-oxybis[1-chloropropane]	400	U	400	7.3	ug/Kg	☒	11/17/19 12:36	11/18/19 04:13	1
2,4,5-Trichlorophenol	400	U	400	41	ug/Kg	☒	11/17/19 12:36	11/18/19 04:13	1
2,4,6-Trichlorophenol	160	U	160	51	ug/Kg	☒	11/17/19 12:36	11/18/19 04:13	1
2,4-Dichlorophenol	160	U	160	26	ug/Kg	☒	11/17/19 12:36	11/18/19 04:13	1
2,4-Dimethylphenol	400	U	400	18	ug/Kg	☒	11/17/19 12:36	11/18/19 04:13	1
2,4-Dinitrophenol	320	U	320	200	ug/Kg	☒	11/17/19 12:36	11/18/19 04:13	1
2,4-Dinitrotoluene	81	U	81	43	ug/Kg	☒	11/17/19 12:36	11/18/19 04:13	1
2,6-Dinitrotoluene	81	U	81	29	ug/Kg	☒	11/17/19 12:36	11/18/19 04:13	1
2-Chloronaphthalene	400	U	400	19	ug/Kg	☒	11/17/19 12:36	11/18/19 04:13	1
2-Chlorophenol	400	U	400	14	ug/Kg	☒	11/17/19 12:36	11/18/19 04:13	1
2-Methylnaphthalene	400	U	400	11	ug/Kg	☒	11/17/19 12:36	11/18/19 04:13	1
2-Methylphenol	400	U	400	15	ug/Kg	☒	11/17/19 12:36	11/18/19 04:13	1
2-Nitroaniline	400	U	400	15	ug/Kg	☒	11/17/19 12:36	11/18/19 04:13	1
2-Nitrophenol	400	U	400	40	ug/Kg	☒	11/17/19 12:36	11/18/19 04:13	1
3,3'-Dichlorobenzidine	160	U	160	61	ug/Kg	☒	11/17/19 12:36	11/18/19 04:13	1
3-Nitroaniline	400	U	400	45	ug/Kg	☒	11/17/19 12:36	11/18/19 04:13	1
4,6-Dinitro-2-methylphenol	320	U	320	65	ug/Kg	☒	11/17/19 12:36	11/18/19 04:13	1
4-Bromophenyl phenyl ether	400	U	400	16	ug/Kg	☒	11/17/19 12:36	11/18/19 04:13	1
4-Chloro-3-methylphenol	400	U	400	22	ug/Kg	☒	11/17/19 12:36	11/18/19 04:13	1
4-Chloroaniline	400	U	400	28	ug/Kg	☒	11/17/19 12:36	11/18/19 04:13	1
4-Chlorophenyl phenyl ether	400	U	400	14	ug/Kg	☒	11/17/19 12:36	11/18/19 04:13	1
4-Methylphenol	400	U	400	25	ug/Kg	☒	11/17/19 12:36	11/18/19 04:13	1
4-Nitroaniline	400	U	400	46	ug/Kg	☒	11/17/19 12:36	11/18/19 04:13	1
4-Nitrophenol	810	U	810	65	ug/Kg	☒	11/17/19 12:36	11/18/19 04:13	1
Acenaphthene	400	U	400	29	ug/Kg	☒	11/17/19 12:36	11/18/19 04:13	1
Acenaphthylene	400	U	400	4.1	ug/Kg	☒	11/17/19 12:36	11/18/19 04:13	1
Acetophenone	400	U	400	20	ug/Kg	☒	11/17/19 12:36	11/18/19 04:13	1
Anthracene	400	U	400	12	ug/Kg	☒	11/17/19 12:36	11/18/19 04:13	1
Atrazine	160	U	160	10	ug/Kg	☒	11/17/19 12:36	11/18/19 04:13	1
Benzaldehyde	67 J		400	17	ug/Kg	☒	11/17/19 12:36	11/18/19 04:13	1
Benzo[a]anthracene	28 J		40	14	ug/Kg	☒	11/17/19 12:36	11/18/19 04:13	1
Benzo[a]pyrene	25 J		40	11	ug/Kg	☒	11/17/19 12:36	11/18/19 04:13	1
Benzo[b]fluoranthene	45		40	10	ug/Kg	☒	11/17/19 12:36	11/18/19 04:13	1
Benzo[g,h,i]perylene	18 J		400	12	ug/Kg	☒	11/17/19 12:36	11/18/19 04:13	1
Benzo[k]fluoranthene	15 J		40	7.9	ug/Kg	☒	11/17/19 12:36	11/18/19 04:13	1
Bis(2-chloroethoxy)methane	400	U	400	31	ug/Kg	☒	11/17/19 12:36	11/18/19 04:13	1
Bis(2-chloroethyl)ether	40	U	40	14	ug/Kg	☒	11/17/19 12:36	11/18/19 04:13	1
Bis(2-ethylhexyl) phthalate	400	U	400	21	ug/Kg	☒	11/17/19 12:36	11/18/19 04:13	1
Butyl benzyl phthalate	400	U	400	19	ug/Kg	☒	11/17/19 12:36	11/18/19 04:13	1
Caprolactam	400	U	400	62	ug/Kg	☒	11/17/19 12:36	11/18/19 04:13	1
Carbazole	400	U	400	15	ug/Kg	☒	11/17/19 12:36	11/18/19 04:13	1
Chrysene	29 J		400	6.8	ug/Kg	☒	11/17/19 12:36	11/18/19 04:13	1
Dibenz(a,h)anthracene	40	U	40	17	ug/Kg	☒	11/17/19 12:36	11/18/19 04:13	1
Dibenzofuran	400	U	400	5.6	ug/Kg	☒	11/17/19 12:36	11/18/19 04:13	1
Diethyl phthalate	400	U	400	5.8	ug/Kg	☒	11/17/19 12:36	11/18/19 04:13	1
Dimethyl phthalate	400	U	400	91	ug/Kg	☒	11/17/19 12:36	11/18/19 04:13	1
Di-n-butyl phthalate	400	U	400	71	ug/Kg	☒	11/17/19 12:36	11/18/19 04:13	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196639-1

Client Sample ID: WSG-GS1-0.0-0.2-1

Lab Sample ID: 460-196639-22

Date Collected: 11/11/19 13:35

Matrix: Solid

Date Received: 11/15/19 21:07

Percent Solids: 82.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate	400	U	400	21	ug/Kg	☒	11/17/19 12:36	11/18/19 04:13	1
Fluoranthene	23	J	400	14	ug/Kg	☒	11/17/19 12:36	11/18/19 04:13	1
Fluorene	400	U	400	5.4	ug/Kg	☒	11/17/19 12:36	11/18/19 04:13	1
Hexachlorobenzene	40	U	40	19	ug/Kg	☒	11/17/19 12:36	11/18/19 04:13	1
Hexachlorobutadiene	81	U	81	8.5	ug/Kg	☒	11/17/19 12:36	11/18/19 04:13	1
Hexachlorocyclopentadiene	400	U	400	35	ug/Kg	☒	11/17/19 12:36	11/18/19 04:13	1
Hexachloroethane	40	U	40	14	ug/Kg	☒	11/17/19 12:36	11/18/19 04:13	1
Indeno[1,2,3-cd]pyrene	21	J	40	16	ug/Kg	☒	11/17/19 12:36	11/18/19 04:13	1
Isophorone	160	U	160	120	ug/Kg	☒	11/17/19 12:36	11/18/19 04:13	1
Naphthalene	400	U	400	6.9	ug/Kg	☒	11/17/19 12:36	11/18/19 04:13	1
Nitrobenzene	40	U	40	9.6	ug/Kg	☒	11/17/19 12:36	11/18/19 04:13	1
N-Nitrosodi-n-propylamine	40	U	40	29	ug/Kg	☒	11/17/19 12:36	11/18/19 04:13	1
N-Nitrosodiphenylamine	400	U	400	7.7	ug/Kg	☒	11/17/19 12:36	11/18/19 04:13	1
Pentachlorophenol	320	U	320	82	ug/Kg	☒	11/17/19 12:36	11/18/19 04:13	1
Phenanthrene	400	U	400	7.0	ug/Kg	☒	11/17/19 12:36	11/18/19 04:13	1
Phenol	400	U	400	15	ug/Kg	☒	11/17/19 12:36	11/18/19 04:13	1
Pyrene	27	J	400	10	ug/Kg	☒	11/17/19 12:36	11/18/19 04:13	1
1,4-Dioxane	120	U	120	11	ug/Kg	☒	11/17/19 12:36	11/18/19 04:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	48		10 - 137	11/17/19 12:36	11/18/19 04:13	1
2-Fluorophenol (Surr)	89		20 - 115	11/17/19 12:36	11/18/19 04:13	1
Nitrobenzene-d5 (Surr)	54		25 - 113	11/17/19 12:36	11/18/19 04:13	1
Terphenyl-d14 (Surr)	54		27 - 123	11/17/19 12:36	11/18/19 04:13	1
Phenol-d5 (Surr)	82		28 - 109	11/17/19 12:36	11/18/19 04:13	1
2-Fluorobiphenyl	45		29 - 107	11/17/19 12:36	11/18/19 04:13	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	8.1	U	8.1	1.4	ug/Kg	☒	11/17/19 08:26	11/19/19 11:21	1
4,4'-DDE	14		8.1	0.96	ug/Kg	☒	11/17/19 08:26	11/19/19 11:21	1
4,4'-DDT	8.0	J	8.1	1.5	ug/Kg	☒	11/17/19 08:26	11/19/19 11:21	1
Aldrin	8.1	U	8.1	1.2	ug/Kg	☒	11/17/19 08:26	11/19/19 11:21	1
alpha-BHC	2.4	U	2.4	0.83	ug/Kg	☒	11/17/19 08:26	11/19/19 11:21	1
beta-BHC	2.4	U	2.4	0.91	ug/Kg	☒	11/17/19 08:26	11/19/19 11:21	1
Chlordane (technical)	81	U	81	20	ug/Kg	☒	11/17/19 08:26	11/19/19 11:21	1
delta-BHC	2.4	U	2.4	0.50	ug/Kg	☒	11/17/19 08:26	11/19/19 11:21	1
Dieldrin	5.0		2.4	1.1	ug/Kg	☒	11/17/19 08:26	11/19/19 11:21	1
Endosulfan I	8.1	U	8.1	1.2	ug/Kg	☒	11/17/19 08:26	11/19/19 11:21	1
Endosulfan II	8.1	U	8.1	2.1	ug/Kg	☒	11/17/19 08:26	11/19/19 11:21	1
Endosulfan sulfate	8.1	U	8.1	1.0	ug/Kg	☒	11/17/19 08:26	11/19/19 11:21	1
Endrin	8.1	U	8.1	1.2	ug/Kg	☒	11/17/19 08:26	11/19/19 11:21	1
Endrin aldehyde	8.1	U	8.1	1.9	ug/Kg	☒	11/17/19 08:26	11/19/19 11:21	1
Endrin ketone	8.1	U	8.1	1.6	ug/Kg	☒	11/17/19 08:26	11/19/19 11:21	1
gamma-BHC (Lindane)	2.4	U	2.4	0.75	ug/Kg	☒	11/17/19 08:26	11/19/19 11:21	1
Heptachlor	8.1	U	8.1	0.96	ug/Kg	☒	11/17/19 08:26	11/19/19 11:21	1
Heptachlor epoxide	8.1	U	8.1	1.2	ug/Kg	☒	11/17/19 08:26	11/19/19 11:21	1
Methoxychlor	8.1	U	8.1	1.9	ug/Kg	☒	11/17/19 08:26	11/19/19 11:21	1
Toxaphene	81	U	81	29	ug/Kg	☒	11/17/19 08:26	11/19/19 11:21	1

Eurofins TestAmerica, Edison

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196639-1

Client Sample ID: WSG-GS1-0.0-0.2-1

Lab Sample ID: 460-196639-22

Date Collected: 11/11/19 13:35

Matrix: Solid

Date Received: 11/15/19 21:07

Percent Solids: 82.4

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	104		49 - 150	11/17/19 08:26	11/19/19 11:21	1
DCB Decachlorobiphenyl	131		49 - 150	11/17/19 08:26	11/19/19 11:21	1
Tetrachloro-m-xylene	112		47 - 150	11/17/19 08:26	11/19/19 11:21	1
Tetrachloro-m-xylene	113		47 - 150	11/17/19 08:26	11/19/19 11:21	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	81	U	81	11	ug/Kg	☼	11/17/19 08:18	11/18/19 12:41	1
Aroclor 1221	81	U	81	11	ug/Kg	☼	11/17/19 08:18	11/18/19 12:41	1
Aroclor 1232	81	U	81	11	ug/Kg	☼	11/17/19 08:18	11/18/19 12:41	1
Aroclor 1242	81	U	81	11	ug/Kg	☼	11/17/19 08:18	11/18/19 12:41	1
Aroclor 1248	81	U	81	11	ug/Kg	☼	11/17/19 08:18	11/18/19 12:41	1
Aroclor 1254	81	U	81	11	ug/Kg	☼	11/17/19 08:18	11/18/19 12:41	1
Aroclor 1260	81	U	81	11	ug/Kg	☼	11/17/19 08:18	11/18/19 12:41	1
Aroclor-1262	81	U	81	11	ug/Kg	☼	11/17/19 08:18	11/18/19 12:41	1
Aroclor 1268	81	U	81	11	ug/Kg	☼	11/17/19 08:18	11/18/19 12:41	1
Polychlorinated biphenyls, Total	81	U	81	11	ug/Kg	☼	11/17/19 08:18	11/18/19 12:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	137		53 - 150	11/17/19 08:18	11/18/19 12:41	1
DCB Decachlorobiphenyl	154	*	53 - 150	11/17/19 08:18	11/18/19 12:41	1

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	40	U	40	15	ug/Kg	☼	11/20/19 02:56	11/20/19 16:11	1
Silvex (2,4,5-TP)	40	U	40	4.2	ug/Kg	☼	11/20/19 02:56	11/20/19 16:11	1
2,4,5-T	40	U	40	8.6	ug/Kg	☼	11/20/19 02:56	11/20/19 16:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	122		30 - 150	11/20/19 02:56	11/20/19 16:11	1
2,4-Dichlorophenylacetic acid	127		30 - 150	11/20/19 02:56	11/20/19 16:11	1

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	0.23	U	0.23	0.049	ug/Kg	☼	11/21/19 08:35	11/25/19 03:39	1
Perfluoroheptanoic acid (PFHpA)	0.23	U	0.23	0.034	ug/Kg	☼	11/21/19 08:35	11/25/19 03:39	1
Perfluorooctanoic acid (PFOA)	0.23	U	0.23	0.10	ug/Kg	☼	11/21/19 08:35	11/25/19 03:39	1
Perfluorononanoic acid (PFNA)	0.057	J	0.23	0.042	ug/Kg	☼	11/21/19 08:35	11/25/19 03:39	1
Perfluorodecanoic acid (PFDA)	0.087	J	0.23	0.026	ug/Kg	☼	11/21/19 08:35	11/25/19 03:39	1
Perfluoroundecanoic acid (PFUnA)	0.16	J	0.23	0.042	ug/Kg	☼	11/21/19 08:35	11/25/19 03:39	1
Perfluorododecanoic acid (PFDoA)	0.23	U	0.23	0.079	ug/Kg	☼	11/21/19 08:35	11/25/19 03:39	1
Perfluorotridecanoic acid (PFTriA)	0.088	J	0.23	0.060	ug/Kg	☼	11/21/19 08:35	11/25/19 03:39	1
Perfluorotetradecanoic acid (PFTeA)	0.23	U	0.23	0.063	ug/Kg	☼	11/21/19 08:35	11/25/19 03:39	1
Perfluorobutanesulfonic acid (PFBS)	0.23	U	0.23	0.029	ug/Kg	☼	11/21/19 08:35	11/25/19 03:39	1
Perfluorohexanesulfonic acid (PFHxS)	0.036	J	0.23	0.036	ug/Kg	☼	11/21/19 08:35	11/25/19 03:39	1
Perfluorooctanesulfonic acid (PFOS)	1.52	B	0.59	0.23	ug/Kg	☼	11/21/19 08:35	11/25/19 03:39	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196639-1

Client Sample ID: WSG-GS1-0.0-0.2-1

Lab Sample ID: 460-196639-22

Date Collected: 11/11/19 13:35

Matrix: Solid

Date Received: 11/15/19 21:07

Percent Solids: 82.4

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-ethylperfluorooctanesulfonamidoacetic acid (NETFOSAA)	2.35	U	2.35	0.43	ug/Kg	☼	11/21/19 08:35	11/25/19 03:39	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.35	U	2.35	0.46	ug/Kg	☼	11/21/19 08:35	11/25/19 03:39	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C2 PFHxA	97		25 - 150				11/21/19 08:35	11/25/19 03:39	1
13C4 PFHpA	106		25 - 150				11/21/19 08:35	11/25/19 03:39	1
13C4 PFOA	100		25 - 150				11/21/19 08:35	11/25/19 03:39	1
13C5 PFNA	95		25 - 150				11/21/19 08:35	11/25/19 03:39	1
13C2 PFDA	94		25 - 150				11/21/19 08:35	11/25/19 03:39	1
13C2 PFUnA	99		25 - 150				11/21/19 08:35	11/25/19 03:39	1
13C2 PFDoA	95		25 - 150				11/21/19 08:35	11/25/19 03:39	1
13C2 PFTeDA	86		25 - 150				11/21/19 08:35	11/25/19 03:39	1
18O2 PFHxS	112		25 - 150				11/21/19 08:35	11/25/19 03:39	1
13C4 PFOS	91		25 - 150				11/21/19 08:35	11/25/19 03:39	1
d3-NMeFOSAA	74		25 - 150				11/21/19 08:35	11/25/19 03:39	1
d5-NEtFOSAA	89		25 - 150				11/21/19 08:35	11/25/19 03:39	1

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	7050		34.7	17.0	mg/Kg	☼	11/26/19 04:30	11/26/19 17:55	4
Silver	2.3	U	2.3	0.22	mg/Kg	☼	11/26/19 04:30	11/26/19 17:55	4
Aluminum	5280		46.2	13.1	mg/Kg	☼	11/26/19 04:30	11/26/19 17:55	4
Arsenic	6.1		3.5	1.4	mg/Kg	☼	11/26/19 04:30	11/26/19 17:55	4
Boron	5.7	J	11.6	3.2	mg/Kg	☼	11/26/19 04:30	11/26/19 17:55	4
Barium	18.5	J	46.2	2.6	mg/Kg	☼	11/26/19 04:30	11/26/19 17:55	4
Beryllium	0.28	J	0.46	0.10	mg/Kg	☼	11/26/19 04:30	11/26/19 17:55	4
Calcium	1140	J	1160	68.1	mg/Kg	☼	11/26/19 04:30	11/26/19 17:55	4
Cadmium	0.92	U	0.92	0.16	mg/Kg	☼	11/26/19 04:30	11/26/19 17:55	4
Cobalt	2.3	J	11.6	1.4	mg/Kg	☼	11/26/19 04:30	11/26/19 17:55	4
Chromium	8.8		2.3	0.41	mg/Kg	☼	11/26/19 04:30	11/26/19 17:55	4
Copper	16.4		5.8	3.1	mg/Kg	☼	11/26/19 04:30	11/26/19 17:55	4
Potassium	307	J	1160	71.9	mg/Kg	☼	11/26/19 04:30	11/26/19 17:55	4
Magnesium	932	J	1160	67.4	mg/Kg	☼	11/26/19 04:30	11/26/19 17:55	4
Manganese	99.5		3.5	0.40	mg/Kg	☼	11/26/19 04:30	11/26/19 17:55	4
Molybdenum	4.6	U	4.6	1.1	mg/Kg	☼	11/26/19 04:30	11/26/19 17:55	4
Sodium	1160	U	1160	92.9	mg/Kg	☼	11/26/19 04:30	11/26/19 17:55	4
Nickel	4.5	J	9.2	0.85	mg/Kg	☼	11/26/19 04:30	11/26/19 17:55	4
Lead	16.6		2.3	0.60	mg/Kg	☼	11/26/19 04:30	11/26/19 17:55	4
Antimony	4.6	U	4.6	1.2	mg/Kg	☼	11/26/19 04:30	11/26/19 17:55	4
Selenium	4.6	U	4.6	2.8	mg/Kg	☼	11/26/19 04:30	11/26/19 17:55	4
Tin	11.6	U	11.6	7.4	mg/Kg	☼	11/26/19 04:30	11/26/19 17:55	4
Strontium	5.8		4.6	0.46	mg/Kg	☼	11/26/19 04:30	11/26/19 17:55	4
Titanium	291		4.6	0.70	mg/Kg	☼	11/26/19 04:30	11/26/19 17:55	4
Thallium	4.6	U	4.6	0.74	mg/Kg	☼	11/26/19 04:30	11/26/19 17:55	4
Vanadium	11.3	J	11.6	0.77	mg/Kg	☼	11/26/19 04:30	11/26/19 17:55	4
Zinc	26.6		6.9	5.4	mg/Kg	☼	11/26/19 04:30	11/26/19 17:55	4

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196639-1

Client Sample ID: WSG-GS1-0.0-0.2-1

Lab Sample ID: 460-196639-22

Date Collected: 11/11/19 13:35

Matrix: Solid

Date Received: 11/15/19 21:07

Percent Solids: 82.4

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.035		0.021	0.012	mg/Kg	☒	11/25/19 04:00	11/25/19 10:10	1

Client Sample ID: WSG-GS9-0.0-0.2-0

Lab Sample ID: 460-196639-23

Date Collected: 11/11/19 14:20

Matrix: Solid

Date Received: 11/15/19 21:07

Percent Solids: 89.5

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.1	U	1.1	0.27	ug/Kg	☒	11/19/19 01:58	11/25/19 10:38	1
1,1,2,2-Tetrachloroethane	1.1	U	1.1	0.25	ug/Kg	☒	11/19/19 01:58	11/25/19 10:38	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.1	U	1.1	0.35	ug/Kg	☒	11/19/19 01:58	11/25/19 10:38	1
1,1,2-Trichloroethane	1.1	U	1.1	0.20	ug/Kg	☒	11/19/19 01:58	11/25/19 10:38	1
1,1-Dichloroethane	1.1	U	1.1	0.24	ug/Kg	☒	11/19/19 01:58	11/25/19 10:38	1
1,1-Dichloroethene	1.1	U	1.1	0.26	ug/Kg	☒	11/19/19 01:58	11/25/19 10:38	1
1,2,4-Trichlorobenzene	1.1	U	1.1	0.41	ug/Kg	☒	11/19/19 01:58	11/25/19 10:38	1
1,2-Dibromo-3-Chloropropane	1.1	U	1.1	0.53	ug/Kg	☒	11/19/19 01:58	11/25/19 10:38	1
1,2-Dichlorobenzene	1.1	U	1.1	0.17	ug/Kg	☒	11/19/19 01:58	11/25/19 10:38	1
1,2-Dichloroethane	1.1	U	1.1	0.34	ug/Kg	☒	11/19/19 01:58	11/25/19 10:38	1
1,2-Dichloropropane	1.1	U	1.1	0.49	ug/Kg	☒	11/19/19 01:58	11/25/19 10:38	1
1,3-Dichlorobenzene	1.1	U	1.1	0.18	ug/Kg	☒	11/19/19 01:58	11/25/19 10:38	1
1,4-Dichlorobenzene	1.1	U	1.1	0.26	ug/Kg	☒	11/19/19 01:58	11/25/19 10:38	1
2-Butanone (MEK)	5.7	U	5.7	3.1	ug/Kg	☒	11/19/19 01:58	11/25/19 10:38	1
2-Hexanone	5.7	U	5.7	2.0	ug/Kg	☒	11/19/19 01:58	11/25/19 10:38	1
4-Methyl-2-pentanone (MIBK)	5.7	U	5.7	1.8	ug/Kg	☒	11/19/19 01:58	11/25/19 10:38	1
Acetone	6.9	U	6.9	6.6	ug/Kg	☒	11/19/19 01:58	11/25/19 10:38	1
Benzene	1.1	U	1.1	0.30	ug/Kg	☒	11/19/19 01:58	11/25/19 10:38	1
Bromoform	1.1	U	1.1	0.49	ug/Kg	☒	11/19/19 01:58	11/25/19 10:38	1
Bromomethane	1.1	U	1.1	0.54	ug/Kg	☒	11/19/19 01:58	11/25/19 10:38	1
Carbon disulfide	1.1	U	1.1	0.31	ug/Kg	☒	11/19/19 01:58	11/25/19 10:38	1
Carbon tetrachloride	1.1	U	1.1	0.44	ug/Kg	☒	11/19/19 01:58	11/25/19 10:38	1
Chlorobenzene	1.1	U	1.1	0.20	ug/Kg	☒	11/19/19 01:58	11/25/19 10:38	1
Chlorodibromomethane	1.1	U	1.1	0.22	ug/Kg	☒	11/19/19 01:58	11/25/19 10:38	1
Chloroethane	1.1	U	1.1	0.60	ug/Kg	☒	11/19/19 01:58	11/25/19 10:38	1
Chloroform	1.1	U	1.1	0.37	ug/Kg	☒	11/19/19 01:58	11/25/19 10:38	1
Chloromethane	1.1	U	1.1	0.50	ug/Kg	☒	11/19/19 01:58	11/25/19 10:38	1
cis-1,2-Dichloroethene	1.1	U	1.1	0.17	ug/Kg	☒	11/19/19 01:58	11/25/19 10:38	1
cis-1,3-Dichloropropene	1.1	U	1.1	0.31	ug/Kg	☒	11/19/19 01:58	11/25/19 10:38	1
Cyclohexane	1.1	U	1.1	0.25	ug/Kg	☒	11/19/19 01:58	11/25/19 10:38	1
Dichlorobromomethane	1.1	U	1.1	0.29	ug/Kg	☒	11/19/19 01:58	11/25/19 10:38	1
Dichlorodifluoromethane	1.1	U	1.1	0.39	ug/Kg	☒	11/19/19 01:58	11/25/19 10:38	1
Ethylbenzene	1.1	U	1.1	0.23	ug/Kg	☒	11/19/19 01:58	11/25/19 10:38	1
Ethylene Dibromide	1.1	U	1.1	0.21	ug/Kg	☒	11/19/19 01:58	11/25/19 10:38	1
Isopropylbenzene	1.1	U	1.1	0.14	ug/Kg	☒	11/19/19 01:58	11/25/19 10:38	1
Methyl acetate	5.7	U *	5.7	4.9	ug/Kg	☒	11/19/19 01:58	11/25/19 10:38	1
Methyl tert-butyl ether	1.1	U	1.1	0.14	ug/Kg	☒	11/19/19 01:58	11/25/19 10:38	1
Methylcyclohexane	1.1	U	1.1	0.57	ug/Kg	☒	11/19/19 01:58	11/25/19 10:38	1
Methylene Chloride	1.1	U	1.1	0.53	ug/Kg	☒	11/19/19 01:58	11/25/19 10:38	1
Styrene	1.1	U	1.1	0.32	ug/Kg	☒	11/19/19 01:58	11/25/19 10:38	1
Tetrachloroethene	1.1	U	1.1	0.16	ug/Kg	☒	11/19/19 01:58	11/25/19 10:38	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196639-1

Client Sample ID: WSG-GS9-0.0-0.2-0

Lab Sample ID: 460-196639-23

Date Collected: 11/11/19 14:20

Matrix: Solid

Date Received: 11/15/19 21:07

Percent Solids: 89.5

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	1.1	U	1.1	0.27	ug/Kg	☒	11/19/19 01:58	11/25/19 10:38	1
trans-1,2-Dichloroethene	1.1	U	1.1	0.28	ug/Kg	☒	11/19/19 01:58	11/25/19 10:38	1
trans-1,3-Dichloropropene	1.1	U	1.1	0.31	ug/Kg	☒	11/19/19 01:58	11/25/19 10:38	1
Trichloroethene	1.1	U	1.1	0.17	ug/Kg	☒	11/19/19 01:58	11/25/19 10:38	1
Trichlorofluoromethane	1.1	U	1.1	0.47	ug/Kg	☒	11/19/19 01:58	11/25/19 10:38	1
Vinyl chloride	1.1	U	1.1	0.63	ug/Kg	☒	11/19/19 01:58	11/25/19 10:38	1
Xylenes, Total	2.3	U	2.3	0.20	ug/Kg	☒	11/19/19 01:58	11/25/19 10:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	112		78 - 135	11/19/19 01:58	11/25/19 10:38	1
4-Bromofluorobenzene	115		67 - 126	11/19/19 01:58	11/25/19 10:38	1
Dibromofluoromethane (Surr)	116		61 - 149	11/19/19 01:58	11/25/19 10:38	1
Toluene-d8 (Surr)	110		73 - 121	11/19/19 01:58	11/25/19 10:38	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	370	U	370	4.9	ug/Kg	☒	11/17/19 12:36	11/18/19 04:36	1
2,2'-oxybis[1-chloropropane]	370	U	370	6.7	ug/Kg	☒	11/17/19 12:36	11/18/19 04:36	1
2,4,5-Trichlorophenol	370	U	370	38	ug/Kg	☒	11/17/19 12:36	11/18/19 04:36	1
2,4,6-Trichlorophenol	150	U	150	47	ug/Kg	☒	11/17/19 12:36	11/18/19 04:36	1
2,4-Dichlorophenol	150	U	150	24	ug/Kg	☒	11/17/19 12:36	11/18/19 04:36	1
2,4-Dimethylphenol	370	U	370	16	ug/Kg	☒	11/17/19 12:36	11/18/19 04:36	1
2,4-Dinitrophenol	300	U	300	180	ug/Kg	☒	11/17/19 12:36	11/18/19 04:36	1
2,4-Dinitrotoluene	75	U	75	40	ug/Kg	☒	11/17/19 12:36	11/18/19 04:36	1
2,6-Dinitrotoluene	75	U	75	27	ug/Kg	☒	11/17/19 12:36	11/18/19 04:36	1
2-Chloronaphthalene	370	U	370	17	ug/Kg	☒	11/17/19 12:36	11/18/19 04:36	1
2-Chlorophenol	370	U	370	13	ug/Kg	☒	11/17/19 12:36	11/18/19 04:36	1
2-Methylnaphthalene	370	U	370	10	ug/Kg	☒	11/17/19 12:36	11/18/19 04:36	1
2-Methylphenol	370	U	370	14	ug/Kg	☒	11/17/19 12:36	11/18/19 04:36	1
2-Nitroaniline	370	U	370	14	ug/Kg	☒	11/17/19 12:36	11/18/19 04:36	1
2-Nitrophenol	370	U	370	37	ug/Kg	☒	11/17/19 12:36	11/18/19 04:36	1
3,3'-Dichlorobenzidine	150	U	150	56	ug/Kg	☒	11/17/19 12:36	11/18/19 04:36	1
3-Nitroaniline	370	U	370	42	ug/Kg	☒	11/17/19 12:36	11/18/19 04:36	1
4,6-Dinitro-2-methylphenol	300	U	300	60	ug/Kg	☒	11/17/19 12:36	11/18/19 04:36	1
4-Bromophenyl phenyl ether	370	U	370	15	ug/Kg	☒	11/17/19 12:36	11/18/19 04:36	1
4-Chloro-3-methylphenol	370	U	370	21	ug/Kg	☒	11/17/19 12:36	11/18/19 04:36	1
4-Chloroaniline	370	U	370	26	ug/Kg	☒	11/17/19 12:36	11/18/19 04:36	1
4-Chlorophenyl phenyl ether	370	U	370	13	ug/Kg	☒	11/17/19 12:36	11/18/19 04:36	1
4-Methylphenol	370	U	370	23	ug/Kg	☒	11/17/19 12:36	11/18/19 04:36	1
4-Nitroaniline	370	U	370	42	ug/Kg	☒	11/17/19 12:36	11/18/19 04:36	1
4-Nitrophenol	750	U	750	60	ug/Kg	☒	11/17/19 12:36	11/18/19 04:36	1
Acenaphthene	370	U	370	27	ug/Kg	☒	11/17/19 12:36	11/18/19 04:36	1
Acenaphthylene	370	U	370	3.8	ug/Kg	☒	11/17/19 12:36	11/18/19 04:36	1
Acetophenone	370	U	370	18	ug/Kg	☒	11/17/19 12:36	11/18/19 04:36	1
Anthracene	370	U	370	11	ug/Kg	☒	11/17/19 12:36	11/18/19 04:36	1
Atrazine	150	U	150	9.3	ug/Kg	☒	11/17/19 12:36	11/18/19 04:36	1
Benzaldehyde	26	J	370	16	ug/Kg	☒	11/17/19 12:36	11/18/19 04:36	1
Benzo[a]anthracene	22	J	37	13	ug/Kg	☒	11/17/19 12:36	11/18/19 04:36	1
Benzo[a]pyrene	21	J	37	9.8	ug/Kg	☒	11/17/19 12:36	11/18/19 04:36	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196639-1

Client Sample ID: WSG-GS9-0.0-0.2-0

Lab Sample ID: 460-196639-23

Date Collected: 11/11/19 14:20

Matrix: Solid

Date Received: 11/15/19 21:07

Percent Solids: 89.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[b]fluoranthene	43		37	9.6	ug/Kg	☼	11/17/19 12:36	11/18/19 04:36	1
Benzo[g,h,i]perylene	18 J		370	11	ug/Kg	☼	11/17/19 12:36	11/18/19 04:36	1
Benzo[k]fluoranthene	13 J		37	7.2	ug/Kg	☼	11/17/19 12:36	11/18/19 04:36	1
Bis(2-chloroethoxy)methane	370	U	370	29	ug/Kg	☼	11/17/19 12:36	11/18/19 04:36	1
Bis(2-chloroethyl)ether	37	U	37	13	ug/Kg	☼	11/17/19 12:36	11/18/19 04:36	1
Bis(2-ethylhexyl) phthalate	370	U	370	20	ug/Kg	☼	11/17/19 12:36	11/18/19 04:36	1
Butyl benzyl phthalate	370	U	370	17	ug/Kg	☼	11/17/19 12:36	11/18/19 04:36	1
Caprolactam	370	U	370	57	ug/Kg	☼	11/17/19 12:36	11/18/19 04:36	1
Carbazole	370	U	370	14	ug/Kg	☼	11/17/19 12:36	11/18/19 04:36	1
Chrysene	32 J		370	6.2	ug/Kg	☼	11/17/19 12:36	11/18/19 04:36	1
Dibenz(a,h)anthracene	37	U	37	16	ug/Kg	☼	11/17/19 12:36	11/18/19 04:36	1
Dibenzofuran	370	U	370	5.2	ug/Kg	☼	11/17/19 12:36	11/18/19 04:36	1
Diethyl phthalate	370	U	370	5.4	ug/Kg	☼	11/17/19 12:36	11/18/19 04:36	1
Dimethyl phthalate	370	U	370	84	ug/Kg	☼	11/17/19 12:36	11/18/19 04:36	1
Di-n-butyl phthalate	370	U	370	65	ug/Kg	☼	11/17/19 12:36	11/18/19 04:36	1
Di-n-octyl phthalate	370	U	370	20	ug/Kg	☼	11/17/19 12:36	11/18/19 04:36	1
Fluoranthene	21 J		370	13	ug/Kg	☼	11/17/19 12:36	11/18/19 04:36	1
Fluorene	370	U	370	5.0	ug/Kg	☼	11/17/19 12:36	11/18/19 04:36	1
Hexachlorobenzene	37	U	37	18	ug/Kg	☼	11/17/19 12:36	11/18/19 04:36	1
Hexachlorobutadiene	75	U	75	7.9	ug/Kg	☼	11/17/19 12:36	11/18/19 04:36	1
Hexachlorocyclopentadiene	370	U	370	32	ug/Kg	☼	11/17/19 12:36	11/18/19 04:36	1
Hexachloroethane	37	U	37	13	ug/Kg	☼	11/17/19 12:36	11/18/19 04:36	1
Indeno[1,2,3-cd]pyrene	20 J		37	14	ug/Kg	☼	11/17/19 12:36	11/18/19 04:36	1
Isophorone	150	U	150	110	ug/Kg	☼	11/17/19 12:36	11/18/19 04:36	1
Naphthalene	370	U	370	6.4	ug/Kg	☼	11/17/19 12:36	11/18/19 04:36	1
Nitrobenzene	37	U	37	8.9	ug/Kg	☼	11/17/19 12:36	11/18/19 04:36	1
N-Nitrosodi-n-propylamine	37	U	37	27	ug/Kg	☼	11/17/19 12:36	11/18/19 04:36	1
N-Nitrosodiphenylamine	370	U	370	7.1	ug/Kg	☼	11/17/19 12:36	11/18/19 04:36	1
Pentachlorophenol	300	U	300	76	ug/Kg	☼	11/17/19 12:36	11/18/19 04:36	1
Phenanthrene	11 J		370	6.5	ug/Kg	☼	11/17/19 12:36	11/18/19 04:36	1
Phenol	370	U	370	14	ug/Kg	☼	11/17/19 12:36	11/18/19 04:36	1
Pyrene	24 J		370	9.2	ug/Kg	☼	11/17/19 12:36	11/18/19 04:36	1
1,4-Dioxane	110	U	110	10	ug/Kg	☼	11/17/19 12:36	11/18/19 04:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	53		10 - 137	11/17/19 12:36	11/18/19 04:36	1
2-Fluorophenol (Surr)	48		20 - 115	11/17/19 12:36	11/18/19 04:36	1
Nitrobenzene-d5 (Surr)	49		25 - 113	11/17/19 12:36	11/18/19 04:36	1
Terphenyl-d14 (Surr)	61		27 - 123	11/17/19 12:36	11/18/19 04:36	1
Phenol-d5 (Surr)	46		28 - 109	11/17/19 12:36	11/18/19 04:36	1
2-Fluorobiphenyl	47		29 - 107	11/17/19 12:36	11/18/19 04:36	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	7.5	U	7.5	1.3	ug/Kg	☼	11/17/19 08:26	11/19/19 11:37	1
4,4'-DDE	7.5	U	7.5	0.88	ug/Kg	☼	11/17/19 08:26	11/19/19 11:37	1
4,4'-DDT	7.5	U	7.5	1.4	ug/Kg	☼	11/17/19 08:26	11/19/19 11:37	1
Aldrin	7.5	U	7.5	1.1	ug/Kg	☼	11/17/19 08:26	11/19/19 11:37	1
alpha-BHC	2.2	U	2.2	0.76	ug/Kg	☼	11/17/19 08:26	11/19/19 11:37	1

Eurofins TestAmerica, Edison

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196639-1

Client Sample ID: WSG-GS9-0.0-0.2-0

Lab Sample ID: 460-196639-23

Date Collected: 11/11/19 14:20

Matrix: Solid

Date Received: 11/15/19 21:07

Percent Solids: 89.5

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
beta-BHC	2.2	U	2.2	0.84	ug/Kg	☒	11/17/19 08:26	11/19/19 11:37	1
Chlordane (technical)	75	U	75	18	ug/Kg	☒	11/17/19 08:26	11/19/19 11:37	1
delta-BHC	2.2	U	2.2	0.46	ug/Kg	☒	11/17/19 08:26	11/19/19 11:37	1
Dieldrin	2.2	U	2.2	0.97	ug/Kg	☒	11/17/19 08:26	11/19/19 11:37	1
Endosulfan I	7.5	U	7.5	1.1	ug/Kg	☒	11/17/19 08:26	11/19/19 11:37	1
Endosulfan II	7.5	U	7.5	1.9	ug/Kg	☒	11/17/19 08:26	11/19/19 11:37	1
Endosulfan sulfate	7.5	U	7.5	0.94	ug/Kg	☒	11/17/19 08:26	11/19/19 11:37	1
Endrin	7.5	U	7.5	1.1	ug/Kg	☒	11/17/19 08:26	11/19/19 11:37	1
Endrin aldehyde	7.5	U	7.5	1.8	ug/Kg	☒	11/17/19 08:26	11/19/19 11:37	1
Endrin ketone	7.5	U	7.5	1.5	ug/Kg	☒	11/17/19 08:26	11/19/19 11:37	1
gamma-BHC (Lindane)	2.2	U	2.2	0.69	ug/Kg	☒	11/17/19 08:26	11/19/19 11:37	1
Heptachlor	7.5	U	7.5	0.88	ug/Kg	☒	11/17/19 08:26	11/19/19 11:37	1
Heptachlor epoxide	7.5	U	7.5	1.1	ug/Kg	☒	11/17/19 08:26	11/19/19 11:37	1
Methoxychlor	7.5	U	7.5	1.7	ug/Kg	☒	11/17/19 08:26	11/19/19 11:37	1
Toxaphene	75	U	75	27	ug/Kg	☒	11/17/19 08:26	11/19/19 11:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	94		49 - 150	11/17/19 08:26	11/19/19 11:37	1
DCB Decachlorobiphenyl	112		49 - 150	11/17/19 08:26	11/19/19 11:37	1
Tetrachloro-m-xylene	99		47 - 150	11/17/19 08:26	11/19/19 11:37	1
Tetrachloro-m-xylene	97		47 - 150	11/17/19 08:26	11/19/19 11:37	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	75	U	75	9.9	ug/Kg	☒	11/17/19 08:18	11/18/19 12:58	1
Aroclor 1221	75	U	75	9.9	ug/Kg	☒	11/17/19 08:18	11/18/19 12:58	1
Aroclor 1232	75	U	75	9.9	ug/Kg	☒	11/17/19 08:18	11/18/19 12:58	1
Aroclor 1242	75	U	75	9.9	ug/Kg	☒	11/17/19 08:18	11/18/19 12:58	1
Aroclor 1248	75	U	75	9.9	ug/Kg	☒	11/17/19 08:18	11/18/19 12:58	1
Aroclor 1254	75	U	75	10	ug/Kg	☒	11/17/19 08:18	11/18/19 12:58	1
Aroclor 1260	75	U	75	10	ug/Kg	☒	11/17/19 08:18	11/18/19 12:58	1
Aroclor-1262	75	U	75	10	ug/Kg	☒	11/17/19 08:18	11/18/19 12:58	1
Aroclor 1268	75	U	75	10	ug/Kg	☒	11/17/19 08:18	11/18/19 12:58	1
Polychlorinated biphenyls, Total	75	U	75	10	ug/Kg	☒	11/17/19 08:18	11/18/19 12:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	117		53 - 150	11/17/19 08:18	11/18/19 12:58	1
DCB Decachlorobiphenyl	126		53 - 150	11/17/19 08:18	11/18/19 12:58	1

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	37	U	37	14	ug/Kg	☒	11/20/19 02:56	11/20/19 16:25	1
Silvex (2,4,5-TP)	37	U	37	3.9	ug/Kg	☒	11/20/19 02:56	11/20/19 16:25	1
2,4,5-T	37	U	37	7.9	ug/Kg	☒	11/20/19 02:56	11/20/19 16:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	115		30 - 150	11/20/19 02:56	11/20/19 16:25	1
2,4-Dichlorophenylacetic acid	122		30 - 150	11/20/19 02:56	11/20/19 16:25	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196639-1

Client Sample ID: WSG-GS9-0.0-0.2-0

Lab Sample ID: 460-196639-23

Date Collected: 11/11/19 14:20

Matrix: Solid

Date Received: 11/15/19 21:07

Percent Solids: 89.5

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	0.21	U	0.21	0.043	ug/Kg	☼	11/21/19 08:35	11/25/19 03:49	1
Perfluoroheptanoic acid (PFHpA)	0.21	U	0.21	0.030	ug/Kg	☼	11/21/19 08:35	11/25/19 03:49	1
Perfluorooctanoic acid (PFOA)	0.21	U	0.21	0.089	ug/Kg	☼	11/21/19 08:35	11/25/19 03:49	1
Perfluorononanoic acid (PFNA)	0.21	U	0.21	0.037	ug/Kg	☼	11/21/19 08:35	11/25/19 03:49	1
Perfluorodecanoic acid (PFDA)	0.037	J	0.21	0.023	ug/Kg	☼	11/21/19 08:35	11/25/19 03:49	1
Perfluoroundecanoic acid (PFUnA)	0.21	U	0.21	0.037	ug/Kg	☼	11/21/19 08:35	11/25/19 03:49	1
Perfluorododecanoic acid (PFDoA)	0.21	U	0.21	0.069	ug/Kg	☼	11/21/19 08:35	11/25/19 03:49	1
Perfluorotridecanoic acid (PFTriA)	0.21	U	0.21	0.053	ug/Kg	☼	11/21/19 08:35	11/25/19 03:49	1
Perfluorotetradecanoic acid (PFTeA)	0.21	U	0.21	0.056	ug/Kg	☼	11/21/19 08:35	11/25/19 03:49	1
Perfluorobutanesulfonic acid (PFBS)	0.21	U	0.21	0.026	ug/Kg	☼	11/21/19 08:35	11/25/19 03:49	1
Perfluorohexanesulfonic acid (PFHxS)	0.21	U	0.21	0.032	ug/Kg	☼	11/21/19 08:35	11/25/19 03:49	1
Perfluorooctanesulfonic acid (PFOS)	0.39	J B	0.52	0.21	ug/Kg	☼	11/21/19 08:35	11/25/19 03:49	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.06	U	2.06	0.38	ug/Kg	☼	11/21/19 08:35	11/25/19 03:49	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.06	U	2.06	0.40	ug/Kg	☼	11/21/19 08:35	11/25/19 03:49	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C2 PFHxA	96		25 - 150				11/21/19 08:35	11/25/19 03:49	1
13C4 PFHpA	103		25 - 150				11/21/19 08:35	11/25/19 03:49	1
13C4 PFOA	99		25 - 150				11/21/19 08:35	11/25/19 03:49	1
13C5 PFNA	93		25 - 150				11/21/19 08:35	11/25/19 03:49	1
13C2 PFDA	95		25 - 150				11/21/19 08:35	11/25/19 03:49	1
13C2 PFUnA	101		25 - 150				11/21/19 08:35	11/25/19 03:49	1
13C2 PFDoA	96		25 - 150				11/21/19 08:35	11/25/19 03:49	1
13C2 PFTeA	95		25 - 150				11/21/19 08:35	11/25/19 03:49	1
18O2 PFHxS	108		25 - 150				11/21/19 08:35	11/25/19 03:49	1
13C4 PFOS	87		25 - 150				11/21/19 08:35	11/25/19 03:49	1
d3-NMeFOSAA	98		25 - 150				11/21/19 08:35	11/25/19 03:49	1
d5-NEtFOSAA	85		25 - 150				11/21/19 08:35	11/25/19 03:49	1

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	2790		32.9	16.1	mg/Kg	☼	11/26/19 04:30	11/26/19 17:59	4
Silver	2.2	U	2.2	0.21	mg/Kg	☼	11/26/19 04:30	11/26/19 17:59	4
Aluminum	1540		43.8	12.4	mg/Kg	☼	11/26/19 04:30	11/26/19 17:59	4
Arsenic	1.6	J	3.3	1.3	mg/Kg	☼	11/26/19 04:30	11/26/19 17:59	4
Boron	4.4	J	11.0	3.0	mg/Kg	☼	11/26/19 04:30	11/26/19 17:59	4
Barium	9.8	J	43.8	2.4	mg/Kg	☼	11/26/19 04:30	11/26/19 17:59	4
Beryllium	0.44	U	0.44	0.097	mg/Kg	☼	11/26/19 04:30	11/26/19 17:59	4
Calcium	931	J	1100	64.5	mg/Kg	☼	11/26/19 04:30	11/26/19 17:59	4
Cadmium	0.88	U	0.88	0.15	mg/Kg	☼	11/26/19 04:30	11/26/19 17:59	4
Cobalt	11.0	U	11.0	1.3	mg/Kg	☼	11/26/19 04:30	11/26/19 17:59	4
Chromium	3.2		2.2	0.39	mg/Kg	☼	11/26/19 04:30	11/26/19 17:59	4
Copper	5.5	U	5.5	2.9	mg/Kg	☼	11/26/19 04:30	11/26/19 17:59	4
Potassium	174	J	1100	68.1	mg/Kg	☼	11/26/19 04:30	11/26/19 17:59	4
Magnesium	714	J	1100	63.8	mg/Kg	☼	11/26/19 04:30	11/26/19 17:59	4
Manganese	54.9		3.3	0.38	mg/Kg	☼	11/26/19 04:30	11/26/19 17:59	4
Molybdenum	4.4	U	4.4	1.0	mg/Kg	☼	11/26/19 04:30	11/26/19 17:59	4

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196639-1

Client Sample ID: WSG-GS9-0.0-0.2-0

Lab Sample ID: 460-196639-23

Date Collected: 11/11/19 14:20

Matrix: Solid

Date Received: 11/15/19 21:07

Percent Solids: 89.5

Method: 6010D - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	1100	U	1100	88.0	mg/Kg	☼	11/26/19 04:30	11/26/19 17:59	4
Nickel	2.1	J	8.8	0.80	mg/Kg	☼	11/26/19 04:30	11/26/19 17:59	4
Lead	2.8		2.2	0.57	mg/Kg	☼	11/26/19 04:30	11/26/19 17:59	4
Antimony	4.4	U	4.4	1.2	mg/Kg	☼	11/26/19 04:30	11/26/19 17:59	4
Selenium	4.4	U	4.4	2.6	mg/Kg	☼	11/26/19 04:30	11/26/19 17:59	4
Tin	11.0	U	11.0	7.1	mg/Kg	☼	11/26/19 04:30	11/26/19 17:59	4
Strontium	2.5	J	4.4	0.44	mg/Kg	☼	11/26/19 04:30	11/26/19 17:59	4
Titanium	97.3		4.4	0.66	mg/Kg	☼	11/26/19 04:30	11/26/19 17:59	4
Thallium	4.4	U	4.4	0.70	mg/Kg	☼	11/26/19 04:30	11/26/19 17:59	4
Vanadium	4.9	J	11.0	0.73	mg/Kg	☼	11/26/19 04:30	11/26/19 17:59	4
Zinc	6.7		6.6	5.1	mg/Kg	☼	11/26/19 04:30	11/26/19 17:59	4

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.018	U	0.018	0.011	mg/Kg	☼	11/25/19 04:23	11/25/19 08:43	1

Client Sample ID: WSG-GS9-0.5-2.0-0

Lab Sample ID: 460-196639-24

Date Collected: 11/11/19 14:30

Matrix: Solid

Date Received: 11/15/19 21:07

Percent Solids: 89.9

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.1	U	1.1	0.26	ug/Kg	☼	11/19/19 01:58	11/24/19 09:31	1
1,1,2,2-Tetrachloroethane	1.1	U	1.1	0.24	ug/Kg	☼	11/19/19 01:58	11/24/19 09:31	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.1	U	1.1	0.34	ug/Kg	☼	11/19/19 01:58	11/24/19 09:31	1
1,1,2-Trichloroethane	1.1	U	1.1	0.20	ug/Kg	☼	11/19/19 01:58	11/24/19 09:31	1
1,1-Dichloroethane	1.1	U	1.1	0.23	ug/Kg	☼	11/19/19 01:58	11/24/19 09:31	1
1,1-Dichloroethene	1.1	U	1.1	0.25	ug/Kg	☼	11/19/19 01:58	11/24/19 09:31	1
1,2,4-Trichlorobenzene	1.1	U	1.1	0.40	ug/Kg	☼	11/19/19 01:58	11/24/19 09:31	1
1,2-Dibromo-3-Chloropropane	1.1	U	1.1	0.51	ug/Kg	☼	11/19/19 01:58	11/24/19 09:31	1
1,2-Dichlorobenzene	1.1	U	1.1	0.16	ug/Kg	☼	11/19/19 01:58	11/24/19 09:31	1
1,2-Dichloroethane	1.1	U	1.1	0.33	ug/Kg	☼	11/19/19 01:58	11/24/19 09:31	1
1,2-Dichloropropane	1.1	U	1.1	0.47	ug/Kg	☼	11/19/19 01:58	11/24/19 09:31	1
1,3-Dichlorobenzene	1.1	U	1.1	0.18	ug/Kg	☼	11/19/19 01:58	11/24/19 09:31	1
1,4-Dichlorobenzene	1.1	U	1.1	0.25	ug/Kg	☼	11/19/19 01:58	11/24/19 09:31	1
2-Butanone (MEK)	5.6	U	5.6	3.0	ug/Kg	☼	11/19/19 01:58	11/24/19 09:31	1
2-Hexanone	5.6	U	5.6	1.9	ug/Kg	☼	11/19/19 01:58	11/24/19 09:31	1
4-Methyl-2-pentanone (MIBK)	5.6	U	5.6	1.7	ug/Kg	☼	11/19/19 01:58	11/24/19 09:31	1
Acetone	6.7	U	6.7	6.4	ug/Kg	☼	11/19/19 01:58	11/24/19 09:31	1
Benzene	1.1	U	1.1	0.29	ug/Kg	☼	11/19/19 01:58	11/24/19 09:31	1
Bromoform	1.1	U	1.1	0.47	ug/Kg	☼	11/19/19 01:58	11/24/19 09:31	1
Bromomethane	1.1	U	1.1	0.53	ug/Kg	☼	11/19/19 01:58	11/24/19 09:31	1
Carbon disulfide	1.1	U	1.1	0.30	ug/Kg	☼	11/19/19 01:58	11/24/19 09:31	1
Carbon tetrachloride	1.1	U	1.1	0.43	ug/Kg	☼	11/19/19 01:58	11/24/19 09:31	1
Chlorobenzene	1.1	U	1.1	0.20	ug/Kg	☼	11/19/19 01:58	11/24/19 09:31	1
Chlorodibromomethane	1.1	U	1.1	0.22	ug/Kg	☼	11/19/19 01:58	11/24/19 09:31	1
Chloroethane	1.1	U	1.1	0.58	ug/Kg	☼	11/19/19 01:58	11/24/19 09:31	1
Chloroform	1.1	U	1.1	0.36	ug/Kg	☼	11/19/19 01:58	11/24/19 09:31	1
Chloromethane	1.1	U	1.1	0.49	ug/Kg	☼	11/19/19 01:58	11/24/19 09:31	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196639-1

Client Sample ID: WSG-GS9-0.5-2.0-0

Lab Sample ID: 460-196639-24

Date Collected: 11/11/19 14:30

Matrix: Solid

Date Received: 11/15/19 21:07

Percent Solids: 89.9

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	1.1	U	1.1	0.17	ug/Kg	☒	11/19/19 01:58	11/24/19 09:31	1
cis-1,3-Dichloropropene	1.1	U	1.1	0.30	ug/Kg	☒	11/19/19 01:58	11/24/19 09:31	1
Cyclohexane	1.1	U	1.1	0.25	ug/Kg	☒	11/19/19 01:58	11/24/19 09:31	1
Dichlorobromomethane	1.1	U	1.1	0.29	ug/Kg	☒	11/19/19 01:58	11/24/19 09:31	1
Dichlorodifluoromethane	1.1	U	1.1	0.38	ug/Kg	☒	11/19/19 01:58	11/24/19 09:31	1
Ethylbenzene	1.1	U	1.1	0.22	ug/Kg	☒	11/19/19 01:58	11/24/19 09:31	1
Ethylene Dibromide	1.1	U	1.1	0.20	ug/Kg	☒	11/19/19 01:58	11/24/19 09:31	1
Isopropylbenzene	1.1	U	1.1	0.14	ug/Kg	☒	11/19/19 01:58	11/24/19 09:31	1
Methyl acetate	5.6	U *	5.6	4.8	ug/Kg	☒	11/19/19 01:58	11/24/19 09:31	1
Methyl tert-butyl ether	1.1	U	1.1	0.14	ug/Kg	☒	11/19/19 01:58	11/24/19 09:31	1
Methylcyclohexane	1.1	U	1.1	0.56	ug/Kg	☒	11/19/19 01:58	11/24/19 09:31	1
Methylene Chloride	1.1	U	1.1	0.52	ug/Kg	☒	11/19/19 01:58	11/24/19 09:31	1
Styrene	1.1	U	1.1	0.31	ug/Kg	☒	11/19/19 01:58	11/24/19 09:31	1
Tetrachloroethene	1.1	U	1.1	0.16	ug/Kg	☒	11/19/19 01:58	11/24/19 09:31	1
Toluene	1.1	U	1.1	0.26	ug/Kg	☒	11/19/19 01:58	11/24/19 09:31	1
trans-1,2-Dichloroethene	1.1	U	1.1	0.27	ug/Kg	☒	11/19/19 01:58	11/24/19 09:31	1
trans-1,3-Dichloropropene	1.1	U	1.1	0.30	ug/Kg	☒	11/19/19 01:58	11/24/19 09:31	1
Trichloroethene	1.1	U	1.1	0.16	ug/Kg	☒	11/19/19 01:58	11/24/19 09:31	1
Trichlorofluoromethane	1.1	U	1.1	0.45	ug/Kg	☒	11/19/19 01:58	11/24/19 09:31	1
Vinyl chloride	1.1	U	1.1	0.61	ug/Kg	☒	11/19/19 01:58	11/24/19 09:31	1
Xylenes, Total	2.2	U	2.2	0.19	ug/Kg	☒	11/19/19 01:58	11/24/19 09:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93		78 - 135	11/19/19 01:58	11/24/19 09:31	1
4-Bromofluorobenzene	101		67 - 126	11/19/19 01:58	11/24/19 09:31	1
Dibromofluoromethane (Surr)	99		61 - 149	11/19/19 01:58	11/24/19 09:31	1
Toluene-d8 (Surr)	93		73 - 121	11/19/19 01:58	11/24/19 09:31	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	370	U	370	4.9	ug/Kg	☒	11/17/19 12:36	11/18/19 01:10	1
2,2'-oxybis[1-chloropropane]	370	U	370	6.7	ug/Kg	☒	11/17/19 12:36	11/18/19 01:10	1
2,4,5-Trichlorophenol	370	U	370	37	ug/Kg	☒	11/17/19 12:36	11/18/19 01:10	1
2,4,6-Trichlorophenol	150	U	150	47	ug/Kg	☒	11/17/19 12:36	11/18/19 01:10	1
2,4-Dichlorophenol	150	U	150	24	ug/Kg	☒	11/17/19 12:36	11/18/19 01:10	1
2,4-Dimethylphenol	370	U	370	16	ug/Kg	☒	11/17/19 12:36	11/18/19 01:10	1
2,4-Dinitrophenol	300	U	300	180	ug/Kg	☒	11/17/19 12:36	11/18/19 01:10	1
2,4-Dinitrotoluene	74	U	74	40	ug/Kg	☒	11/17/19 12:36	11/18/19 01:10	1
2,6-Dinitrotoluene	74	U	74	27	ug/Kg	☒	11/17/19 12:36	11/18/19 01:10	1
2-Chloronaphthalene	370	U	370	17	ug/Kg	☒	11/17/19 12:36	11/18/19 01:10	1
2-Chlorophenol	370	U	370	13	ug/Kg	☒	11/17/19 12:36	11/18/19 01:10	1
2-Methylnaphthalene	370	U	370	10	ug/Kg	☒	11/17/19 12:36	11/18/19 01:10	1
2-Methylphenol	370	U	370	14	ug/Kg	☒	11/17/19 12:36	11/18/19 01:10	1
2-Nitroaniline	370	U	370	14	ug/Kg	☒	11/17/19 12:36	11/18/19 01:10	1
2-Nitrophenol	370	U	370	37	ug/Kg	☒	11/17/19 12:36	11/18/19 01:10	1
3,3'-Dichlorobenzidine	150	U	150	56	ug/Kg	☒	11/17/19 12:36	11/18/19 01:10	1
3-Nitroaniline	370	U	370	41	ug/Kg	☒	11/17/19 12:36	11/18/19 01:10	1
4,6-Dinitro-2-methylphenol	300	U	300	60	ug/Kg	☒	11/17/19 12:36	11/18/19 01:10	1
4-Bromophenyl phenyl ether	370	U	370	15	ug/Kg	☒	11/17/19 12:36	11/18/19 01:10	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196639-1

Client Sample ID: WSG-GS9-0.5-2.0-0

Lab Sample ID: 460-196639-24

Date Collected: 11/11/19 14:30

Matrix: Solid

Date Received: 11/15/19 21:07

Percent Solids: 89.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chloro-3-methylphenol	370	U	370	21	ug/Kg	☒	11/17/19 12:36	11/18/19 01:10	1
4-Chloroaniline	370	U	370	26	ug/Kg	☒	11/17/19 12:36	11/18/19 01:10	1
4-Chlorophenyl phenyl ether	370	U	370	13	ug/Kg	☒	11/17/19 12:36	11/18/19 01:10	1
4-Methylphenol	370	U	370	23	ug/Kg	☒	11/17/19 12:36	11/18/19 01:10	1
4-Nitroaniline	370	U	370	42	ug/Kg	☒	11/17/19 12:36	11/18/19 01:10	1
4-Nitrophenol	740	U	740	60	ug/Kg	☒	11/17/19 12:36	11/18/19 01:10	1
Acenaphthene	370	U	370	27	ug/Kg	☒	11/17/19 12:36	11/18/19 01:10	1
Acenaphthylene	370	U	370	3.8	ug/Kg	☒	11/17/19 12:36	11/18/19 01:10	1
Acetophenone	370	U	370	18	ug/Kg	☒	11/17/19 12:36	11/18/19 01:10	1
Anthracene	370	U	370	11	ug/Kg	☒	11/17/19 12:36	11/18/19 01:10	1
Atrazine	150	U	150	9.3	ug/Kg	☒	11/17/19 12:36	11/18/19 01:10	1
Benzaldehyde	370	U	370	16	ug/Kg	☒	11/17/19 12:36	11/18/19 01:10	1
Benzo[a]anthracene	13	J	37	13	ug/Kg	☒	11/17/19 12:36	11/18/19 01:10	1
Benzo[a]pyrene	37	U	37	9.8	ug/Kg	☒	11/17/19 12:36	11/18/19 01:10	1
Benzo[b]fluoranthene	11	J	37	9.5	ug/Kg	☒	11/17/19 12:36	11/18/19 01:10	1
Benzo[g,h,i]perylene	370	U	370	11	ug/Kg	☒	11/17/19 12:36	11/18/19 01:10	1
Benzo[k]fluoranthene	37	U	37	7.2	ug/Kg	☒	11/17/19 12:36	11/18/19 01:10	1
Bis(2-chloroethoxy)methane	370	U	370	29	ug/Kg	☒	11/17/19 12:36	11/18/19 01:10	1
Bis(2-chloroethyl)ether	37	U	37	13	ug/Kg	☒	11/17/19 12:36	11/18/19 01:10	1
Bis(2-ethylhexyl) phthalate	370	U	370	19	ug/Kg	☒	11/17/19 12:36	11/18/19 01:10	1
Butyl benzyl phthalate	370	U	370	17	ug/Kg	☒	11/17/19 12:36	11/18/19 01:10	1
Caprolactam	370	U	370	57	ug/Kg	☒	11/17/19 12:36	11/18/19 01:10	1
Carbazole	370	U	370	14	ug/Kg	☒	11/17/19 12:36	11/18/19 01:10	1
Chrysene	370	U	370	6.2	ug/Kg	☒	11/17/19 12:36	11/18/19 01:10	1
Dibenz(a,h)anthracene	37	U	37	16	ug/Kg	☒	11/17/19 12:36	11/18/19 01:10	1
Dibenzofuran	370	U	370	5.2	ug/Kg	☒	11/17/19 12:36	11/18/19 01:10	1
Diethyl phthalate	370	U	370	5.3	ug/Kg	☒	11/17/19 12:36	11/18/19 01:10	1
Dimethyl phthalate	370	U	370	84	ug/Kg	☒	11/17/19 12:36	11/18/19 01:10	1
Di-n-butyl phthalate	370	U	370	65	ug/Kg	☒	11/17/19 12:36	11/18/19 01:10	1
Di-n-octyl phthalate	370	U	370	19	ug/Kg	☒	11/17/19 12:36	11/18/19 01:10	1
Fluoranthene	13	J	370	13	ug/Kg	☒	11/17/19 12:36	11/18/19 01:10	1
Fluorene	370	U	370	5.0	ug/Kg	☒	11/17/19 12:36	11/18/19 01:10	1
Hexachlorobenzene	37	U	37	17	ug/Kg	☒	11/17/19 12:36	11/18/19 01:10	1
Hexachlorobutadiene	74	U	74	7.8	ug/Kg	☒	11/17/19 12:36	11/18/19 01:10	1
Hexachlorocyclopentadiene	370	U	370	32	ug/Kg	☒	11/17/19 12:36	11/18/19 01:10	1
Hexachloroethane	37	U	37	13	ug/Kg	☒	11/17/19 12:36	11/18/19 01:10	1
Indeno[1,2,3-cd]pyrene	37	U	37	14	ug/Kg	☒	11/17/19 12:36	11/18/19 01:10	1
Isophorone	150	U	150	110	ug/Kg	☒	11/17/19 12:36	11/18/19 01:10	1
Naphthalene	370	U	370	6.4	ug/Kg	☒	11/17/19 12:36	11/18/19 01:10	1
Nitrobenzene	37	U	37	8.8	ug/Kg	☒	11/17/19 12:36	11/18/19 01:10	1
N-Nitrosodi-n-propylamine	37	U	37	27	ug/Kg	☒	11/17/19 12:36	11/18/19 01:10	1
N-Nitrosodiphenylamine	370	U	370	7.0	ug/Kg	☒	11/17/19 12:36	11/18/19 01:10	1
Pentachlorophenol	300	U	300	75	ug/Kg	☒	11/17/19 12:36	11/18/19 01:10	1
Phenanthrene	370	U	370	6.5	ug/Kg	☒	11/17/19 12:36	11/18/19 01:10	1
Phenol	370	U	370	14	ug/Kg	☒	11/17/19 12:36	11/18/19 01:10	1
Pyrene	370	U	370	9.1	ug/Kg	☒	11/17/19 12:36	11/18/19 01:10	1
1,4-Dioxane	110	U	110	10	ug/Kg	☒	11/17/19 12:36	11/18/19 01:10	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196639-1

Client Sample ID: WSG-GS9-0.5-2.0-0

Lab Sample ID: 460-196639-24

Date Collected: 11/11/19 14:30

Matrix: Solid

Date Received: 11/15/19 21:07

Percent Solids: 89.9

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	51		10 - 137	11/17/19 12:36	11/18/19 01:10	1
2-Fluorophenol (Surr)	44		20 - 115	11/17/19 12:36	11/18/19 01:10	1
Nitrobenzene-d5 (Surr)	43		25 - 113	11/17/19 12:36	11/18/19 01:10	1
Terphenyl-d14 (Surr)	57		27 - 123	11/17/19 12:36	11/18/19 01:10	1
Phenol-d5 (Surr)	44		28 - 109	11/17/19 12:36	11/18/19 01:10	1
2-Fluorobiphenyl	41		29 - 107	11/17/19 12:36	11/18/19 01:10	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	7.5	U	7.5	1.3	ug/Kg	☼	11/17/19 08:26	11/19/19 15:15	1
4,4'-DDE	7.5	U	7.5	0.88	ug/Kg	☼	11/17/19 08:26	11/19/19 15:15	1
4,4'-DDT	7.5	U	7.5	1.4	ug/Kg	☼	11/17/19 08:26	11/19/19 15:15	1
Aldrin	7.5	U	7.5	1.1	ug/Kg	☼	11/17/19 08:26	11/19/19 15:15	1
alpha-BHC	2.2	U	2.2	0.76	ug/Kg	☼	11/17/19 08:26	11/19/19 15:15	1
beta-BHC	2.2	U	2.2	0.83	ug/Kg	☼	11/17/19 08:26	11/19/19 15:15	1
Chlordane (technical)	75	U	75	18	ug/Kg	☼	11/17/19 08:26	11/19/19 15:15	1
delta-BHC	2.2	U	2.2	0.46	ug/Kg	☼	11/17/19 08:26	11/19/19 15:15	1
Dieldrin	2.2	U	2.2	0.97	ug/Kg	☼	11/17/19 08:26	11/19/19 15:15	1
Endosulfan I	7.5	U	7.5	1.1	ug/Kg	☼	11/17/19 08:26	11/19/19 15:15	1
Endosulfan II	7.5	U	7.5	1.9	ug/Kg	☼	11/17/19 08:26	11/19/19 15:15	1
Endosulfan sulfate	7.5	U	7.5	0.93	ug/Kg	☼	11/17/19 08:26	11/19/19 15:15	1
Endrin	7.5	U	7.5	1.1	ug/Kg	☼	11/17/19 08:26	11/19/19 15:15	1
Endrin aldehyde	7.5	U	7.5	1.8	ug/Kg	☼	11/17/19 08:26	11/19/19 15:15	1
Endrin ketone	7.5	U	7.5	1.4	ug/Kg	☼	11/17/19 08:26	11/19/19 15:15	1
gamma-BHC (Lindane)	2.2	U	2.2	0.69	ug/Kg	☼	11/17/19 08:26	11/19/19 15:15	1
Heptachlor	7.5	U	7.5	0.88	ug/Kg	☼	11/17/19 08:26	11/19/19 15:15	1
Heptachlor epoxide	7.5	U	7.5	1.1	ug/Kg	☼	11/17/19 08:26	11/19/19 15:15	1
Methoxychlor	7.5	U	7.5	1.7	ug/Kg	☼	11/17/19 08:26	11/19/19 15:15	1
Toxaphene	75	U	75	27	ug/Kg	☼	11/17/19 08:26	11/19/19 15:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	86		49 - 150	11/17/19 08:26	11/19/19 15:15	1
DCB Decachlorobiphenyl	103		49 - 150	11/17/19 08:26	11/19/19 15:15	1
Tetrachloro-m-xylene	95		47 - 150	11/17/19 08:26	11/19/19 15:15	1
Tetrachloro-m-xylene	95		47 - 150	11/17/19 08:26	11/19/19 15:15	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	75	U	75	9.9	ug/Kg	☼	11/17/19 08:18	11/18/19 10:40	1
Aroclor 1221	75	U	75	9.9	ug/Kg	☼	11/17/19 08:18	11/18/19 10:40	1
Aroclor 1232	75	U	75	9.9	ug/Kg	☼	11/17/19 08:18	11/18/19 10:40	1
Aroclor 1242	75	U	75	9.9	ug/Kg	☼	11/17/19 08:18	11/18/19 10:40	1
Aroclor 1248	75	U	75	9.9	ug/Kg	☼	11/17/19 08:18	11/18/19 10:40	1
Aroclor 1254	75	U	75	10	ug/Kg	☼	11/17/19 08:18	11/18/19 10:40	1
Aroclor 1260	75	U	75	10	ug/Kg	☼	11/17/19 08:18	11/18/19 10:40	1
Aroclor-1262	75	U	75	10	ug/Kg	☼	11/17/19 08:18	11/18/19 10:40	1
Aroclor 1268	75	U	75	10	ug/Kg	☼	11/17/19 08:18	11/18/19 10:40	1
Polychlorinated biphenyls, Total	75	U	75	10	ug/Kg	☼	11/17/19 08:18	11/18/19 10:40	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196639-1

Client Sample ID: WSG-GS9-0.5-2.0-0

Lab Sample ID: 460-196639-24

Date Collected: 11/11/19 14:30

Matrix: Solid

Date Received: 11/15/19 21:07

Percent Solids: 89.9

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	136		53 - 150	11/17/19 08:18	11/18/19 10:40	1
DCB Decachlorobiphenyl	137		53 - 150	11/17/19 08:18	11/18/19 10:40	1

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	37	U	37	13	ug/Kg	☼	11/20/19 02:56	11/20/19 15:01	1
Silvex (2,4,5-TP)	37	U	37	3.9	ug/Kg	☼	11/20/19 02:56	11/20/19 15:01	1
2,4,5-T	37	U	37	7.9	ug/Kg	☼	11/20/19 02:56	11/20/19 15:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	115		30 - 150	11/20/19 02:56	11/20/19 15:01	1
2,4-Dichlorophenylacetic acid	120		30 - 150	11/20/19 02:56	11/20/19 15:01	1

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	0.21	U	0.21	0.044	ug/Kg	☼	11/21/19 08:35	11/25/19 04:18	1
Perfluoroheptanoic acid (PFHpA)	0.21	U	0.21	0.030	ug/Kg	☼	11/21/19 08:35	11/25/19 04:18	1
Perfluorooctanoic acid (PFOA)	0.21	U	0.21	0.090	ug/Kg	☼	11/21/19 08:35	11/25/19 04:18	1
Perfluorononanoic acid (PFNA)	0.21	U	0.21	0.038	ug/Kg	☼	11/21/19 08:35	11/25/19 04:18	1
Perfluorodecanoic acid (PFDA)	0.084	J	0.21	0.023	ug/Kg	☼	11/21/19 08:35	11/25/19 04:18	1
Perfluoroundecanoic acid (PFUnA)	0.21	U	0.21	0.038	ug/Kg	☼	11/21/19 08:35	11/25/19 04:18	1
Perfluorododecanoic acid (PFDoA)	0.21	U	0.21	0.070	ug/Kg	☼	11/21/19 08:35	11/25/19 04:18	1
Perfluorotridecanoic acid (PFTriA)	0.21	U	0.21	0.053	ug/Kg	☼	11/21/19 08:35	11/25/19 04:18	1
Perfluorotetradecanoic acid (PFTeA)	0.21	U	0.21	0.056	ug/Kg	☼	11/21/19 08:35	11/25/19 04:18	1
Perfluorobutanesulfonic acid (PFBS)	0.21	U	0.21	0.026	ug/Kg	☼	11/21/19 08:35	11/25/19 04:18	1
Perfluorohexanesulfonic acid (PFHxS)	0.032	J	0.21	0.032	ug/Kg	☼	11/21/19 08:35	11/25/19 04:18	1
Perfluorooctanesulfonic acid (PFOS)	2.67	B	0.52	0.21	ug/Kg	☼	11/21/19 08:35	11/25/19 04:18	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.08	U	2.08	0.39	ug/Kg	☼	11/21/19 08:35	11/25/19 04:18	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.08	U	2.08	0.41	ug/Kg	☼	11/21/19 08:35	11/25/19 04:18	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFHxA	104		25 - 150	11/21/19 08:35	11/25/19 04:18	1
13C4 PFHpA	109		25 - 150	11/21/19 08:35	11/25/19 04:18	1
13C4 PFOA	101		25 - 150	11/21/19 08:35	11/25/19 04:18	1
13C5 PFNA	99		25 - 150	11/21/19 08:35	11/25/19 04:18	1
13C2 PFDA	99		25 - 150	11/21/19 08:35	11/25/19 04:18	1
13C2 PFUnA	107		25 - 150	11/21/19 08:35	11/25/19 04:18	1
13C2 PFDoA	106		25 - 150	11/21/19 08:35	11/25/19 04:18	1
13C2 PFTeA	97		25 - 150	11/21/19 08:35	11/25/19 04:18	1
18O2 PFHxS	114		25 - 150	11/21/19 08:35	11/25/19 04:18	1
13C4 PFOS	94		25 - 150	11/21/19 08:35	11/25/19 04:18	1
d3-NMeFOSAA	43		25 - 150	11/21/19 08:35	11/25/19 04:18	1
d5-NEtFOSAA	32		25 - 150	11/21/19 08:35	11/25/19 04:18	1

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	3070		33.4	16.4	mg/Kg	☼	11/26/19 04:30	11/26/19 17:36	4
Silver	2.2	U	2.2	0.21	mg/Kg	☼	11/26/19 04:30	11/26/19 17:36	4

Eurofins TestAmerica, Edison

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196639-1

Client Sample ID: WSG-GS9-0.5-2.0-0

Lab Sample ID: 460-196639-24

Date Collected: 11/11/19 14:30

Matrix: Solid

Date Received: 11/15/19 21:07

Percent Solids: 89.9

Method: 6010D - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	1630		44.5	12.6	mg/Kg	☼	11/26/19 04:30	11/26/19 17:36	4
Arsenic	1.6	J	3.3	1.3	mg/Kg	☼	11/26/19 04:30	11/26/19 17:36	4
Boron	5.2	J	11.1	3.1	mg/Kg	☼	11/26/19 04:30	11/26/19 17:36	4
Barium	9.6	J	44.5	2.5	mg/Kg	☼	11/26/19 04:30	11/26/19 17:36	4
Beryllium	0.11	J	0.45	0.099	mg/Kg	☼	11/26/19 04:30	11/26/19 17:36	4
Calcium	549	J	1110	65.5	mg/Kg	☼	11/26/19 04:30	11/26/19 17:36	4
Cadmium	0.89	U	0.89	0.15	mg/Kg	☼	11/26/19 04:30	11/26/19 17:36	4
Cobalt	11.1	U	11.1	1.4	mg/Kg	☼	11/26/19 04:30	11/26/19 17:36	4
Chromium	5.2		2.2	0.40	mg/Kg	☼	11/26/19 04:30	11/26/19 17:36	4
Copper	5.6	U	5.6	3.0	mg/Kg	☼	11/26/19 04:30	11/26/19 17:36	4
Potassium	226	J	1110	69.2	mg/Kg	☼	11/26/19 04:30	11/26/19 17:36	4
Magnesium	561	J	1110	64.9	mg/Kg	☼	11/26/19 04:30	11/26/19 17:36	4
Manganese	38.8		3.3	0.39	mg/Kg	☼	11/26/19 04:30	11/26/19 17:36	4
Molybdenum	4.5	U	4.5	1.1	mg/Kg	☼	11/26/19 04:30	11/26/19 17:36	4
Sodium	1110	U	1110	89.5	mg/Kg	☼	11/26/19 04:30	11/26/19 17:36	4
Nickel	2.3	J	8.9	0.82	mg/Kg	☼	11/26/19 04:30	11/26/19 17:36	4
Lead	3.2		2.2	0.58	mg/Kg	☼	11/26/19 04:30	11/26/19 17:36	4
Antimony	4.5	U	4.5	1.2	mg/Kg	☼	11/26/19 04:30	11/26/19 17:36	4
Selenium	4.5	U	4.5	2.7	mg/Kg	☼	11/26/19 04:30	11/26/19 17:36	4
Tin	11.1	U	11.1	7.2	mg/Kg	☼	11/26/19 04:30	11/26/19 17:36	4
Strontium	2.1	J	4.5	0.44	mg/Kg	☼	11/26/19 04:30	11/26/19 17:36	4
Titanium	98.4		4.5	0.67	mg/Kg	☼	11/26/19 04:30	11/26/19 17:36	4
Thallium	4.5	U	4.5	0.71	mg/Kg	☼	11/26/19 04:30	11/26/19 17:36	4
Vanadium	5.0	J	11.1	0.74	mg/Kg	☼	11/26/19 04:30	11/26/19 17:36	4
Zinc	7.5		6.7	5.2	mg/Kg	☼	11/26/19 04:30	11/26/19 17:36	4

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.017	U	0.017	0.010	mg/Kg	☼	11/25/19 04:23	11/25/19 08:36	1

Client Sample ID: WSG-GS2-0.0-0.2-0

Lab Sample ID: 460-196639-25

Date Collected: 11/12/19 07:30

Matrix: Solid

Date Received: 11/15/19 21:07

Percent Solids: 81.8

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.3	U	1.3	0.30	ug/Kg	☼	11/19/19 02:01	11/24/19 12:38	1
1,1,2,2-Tetrachloroethane	1.3	U	1.3	0.28	ug/Kg	☼	11/19/19 02:01	11/24/19 12:38	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.3	U	1.3	0.39	ug/Kg	☼	11/19/19 02:01	11/24/19 12:38	1
1,1,2-Trichloroethane	1.3	U	1.3	0.23	ug/Kg	☼	11/19/19 02:01	11/24/19 12:38	1
1,1-Dichloroethane	1.3	U	1.3	0.27	ug/Kg	☼	11/19/19 02:01	11/24/19 12:38	1
1,1-Dichloroethene	1.3	U	1.3	0.29	ug/Kg	☼	11/19/19 02:01	11/24/19 12:38	1
1,2,4-Trichlorobenzene	1.3	U	1.3	0.46	ug/Kg	☼	11/19/19 02:01	11/24/19 12:38	1
1,2-Dibromo-3-Chloropropane	1.3	U	1.3	0.60	ug/Kg	☼	11/19/19 02:01	11/24/19 12:38	1
1,2-Dichlorobenzene	1.3	U	1.3	0.19	ug/Kg	☼	11/19/19 02:01	11/24/19 12:38	1
1,2-Dichloroethane	1.3	U	1.3	0.38	ug/Kg	☼	11/19/19 02:01	11/24/19 12:38	1
1,2-Dichloropropane	1.3	U	1.3	0.55	ug/Kg	☼	11/19/19 02:01	11/24/19 12:38	1
1,3-Dichlorobenzene	1.3	U	1.3	0.21	ug/Kg	☼	11/19/19 02:01	11/24/19 12:38	1
1,4-Dichlorobenzene	1.3	U	1.3	0.29	ug/Kg	☼	11/19/19 02:01	11/24/19 12:38	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196639-1

Client Sample ID: WSG-GS2-0.0-0.2-0

Lab Sample ID: 460-196639-25

Date Collected: 11/12/19 07:30

Matrix: Solid

Date Received: 11/15/19 21:07

Percent Solids: 81.8

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	6.5	U	6.5	3.5	ug/Kg	☼	11/19/19 02:01	11/24/19 12:38	1
2-Hexanone	6.5	U	6.5	2.2	ug/Kg	☼	11/19/19 02:01	11/24/19 12:38	1
4-Methyl-2-pentanone (MIBK)	6.5	U	6.5	2.0	ug/Kg	☼	11/19/19 02:01	11/24/19 12:38	1
Acetone	7.4	J	7.8	7.4	ug/Kg	☼	11/19/19 02:01	11/24/19 12:38	1
Benzene	1.3	U	1.3	0.33	ug/Kg	☼	11/19/19 02:01	11/24/19 12:38	1
Bromoform	1.3	U	1.3	0.55	ug/Kg	☼	11/19/19 02:01	11/24/19 12:38	1
Bromomethane	1.3	U	1.3	0.62	ug/Kg	☼	11/19/19 02:01	11/24/19 12:38	1
Carbon disulfide	1.3	U	1.3	0.35	ug/Kg	☼	11/19/19 02:01	11/24/19 12:38	1
Carbon tetrachloride	1.3	U	1.3	0.50	ug/Kg	☼	11/19/19 02:01	11/24/19 12:38	1
Chlorobenzene	1.3	U	1.3	0.23	ug/Kg	☼	11/19/19 02:01	11/24/19 12:38	1
Chlorodibromomethane	1.3	U	1.3	0.25	ug/Kg	☼	11/19/19 02:01	11/24/19 12:38	1
Chloroethane	1.3	U	1.3	0.68	ug/Kg	☼	11/19/19 02:01	11/24/19 12:38	1
Chloroform	1.3	U	1.3	0.41	ug/Kg	☼	11/19/19 02:01	11/24/19 12:38	1
Chloromethane	1.3	U	1.3	0.56	ug/Kg	☼	11/19/19 02:01	11/24/19 12:38	1
cis-1,2-Dichloroethene	1.3	U	1.3	0.20	ug/Kg	☼	11/19/19 02:01	11/24/19 12:38	1
cis-1,3-Dichloropropene	1.3	U	1.3	0.35	ug/Kg	☼	11/19/19 02:01	11/24/19 12:38	1
Cyclohexane	1.3	U	1.3	0.29	ug/Kg	☼	11/19/19 02:01	11/24/19 12:38	1
Dichlorobromomethane	1.3	U	1.3	0.33	ug/Kg	☼	11/19/19 02:01	11/24/19 12:38	1
Dichlorodifluoromethane	1.3	U	1.3	0.44	ug/Kg	☼	11/19/19 02:01	11/24/19 12:38	1
Ethylbenzene	1.3	U	1.3	0.26	ug/Kg	☼	11/19/19 02:01	11/24/19 12:38	1
Ethylene Dibromide	1.3	U	1.3	0.23	ug/Kg	☼	11/19/19 02:01	11/24/19 12:38	1
Isopropylbenzene	1.3	U	1.3	0.16	ug/Kg	☼	11/19/19 02:01	11/24/19 12:38	1
Methyl acetate	6.5	U *	6.5	5.6	ug/Kg	☼	11/19/19 02:01	11/24/19 12:38	1
Methyl tert-butyl ether	1.3	U	1.3	0.16	ug/Kg	☼	11/19/19 02:01	11/24/19 12:38	1
Methylcyclohexane	1.3	U	1.3	0.65	ug/Kg	☼	11/19/19 02:01	11/24/19 12:38	1
Methylene Chloride	1.3	U	1.3	0.60	ug/Kg	☼	11/19/19 02:01	11/24/19 12:38	1
Styrene	1.3	U	1.3	0.36	ug/Kg	☼	11/19/19 02:01	11/24/19 12:38	1
Tetrachloroethene	1.3	U	1.3	0.19	ug/Kg	☼	11/19/19 02:01	11/24/19 12:38	1
Toluene	0.51	J	1.3	0.30	ug/Kg	☼	11/19/19 02:01	11/24/19 12:38	1
trans-1,2-Dichloroethene	1.3	U	1.3	0.32	ug/Kg	☼	11/19/19 02:01	11/24/19 12:38	1
trans-1,3-Dichloropropene	1.3	U	1.3	0.35	ug/Kg	☼	11/19/19 02:01	11/24/19 12:38	1
Trichloroethene	1.3	U	1.3	0.19	ug/Kg	☼	11/19/19 02:01	11/24/19 12:38	1
Trichlorofluoromethane	1.3	U	1.3	0.53	ug/Kg	☼	11/19/19 02:01	11/24/19 12:38	1
Vinyl chloride	1.3	U	1.3	0.71	ug/Kg	☼	11/19/19 02:01	11/24/19 12:38	1
Xylenes, Total	0.43	J	2.6	0.23	ug/Kg	☼	11/19/19 02:01	11/24/19 12:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		78 - 135	11/19/19 02:01	11/24/19 12:38	1
4-Bromofluorobenzene	98		67 - 126	11/19/19 02:01	11/24/19 12:38	1
Dibromofluoromethane (Surr)	97		61 - 149	11/19/19 02:01	11/24/19 12:38	1
Toluene-d8 (Surr)	94		73 - 121	11/19/19 02:01	11/24/19 12:38	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	400	U	400	5.4	ug/Kg	☼	11/17/19 12:36	11/18/19 05:21	1
2,2'-oxybis[1-chloropropane]	400	U	400	7.3	ug/Kg	☼	11/17/19 12:36	11/18/19 05:21	1
2,4,5-Trichlorophenol	400	U	400	41	ug/Kg	☼	11/17/19 12:36	11/18/19 05:21	1
2,4,6-Trichlorophenol	160	U	160	52	ug/Kg	☼	11/17/19 12:36	11/18/19 05:21	1
2,4-Dichlorophenol	160	U	160	26	ug/Kg	☼	11/17/19 12:36	11/18/19 05:21	1

Eurofins TestAmerica, Edison

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196639-1

Client Sample ID: WSG-GS2-0.0-0.2-0

Lab Sample ID: 460-196639-25

Date Collected: 11/12/19 07:30

Matrix: Solid

Date Received: 11/15/19 21:07

Percent Solids: 81.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dimethylphenol	400	U	400	18	ug/Kg	☒	11/17/19 12:36	11/18/19 05:21	1
2,4-Dinitrophenol	330	U	330	200	ug/Kg	☒	11/17/19 12:36	11/18/19 05:21	1
2,4-Dinitrotoluene	82	U	82	44	ug/Kg	☒	11/17/19 12:36	11/18/19 05:21	1
2,6-Dinitrotoluene	82	U	82	29	ug/Kg	☒	11/17/19 12:36	11/18/19 05:21	1
2-Chloronaphthalene	400	U	400	19	ug/Kg	☒	11/17/19 12:36	11/18/19 05:21	1
2-Chlorophenol	400	U	400	14	ug/Kg	☒	11/17/19 12:36	11/18/19 05:21	1
2-Methylnaphthalene	400	U	400	11	ug/Kg	☒	11/17/19 12:36	11/18/19 05:21	1
2-Methylphenol	400	U	400	15	ug/Kg	☒	11/17/19 12:36	11/18/19 05:21	1
2-Nitroaniline	400	U	400	15	ug/Kg	☒	11/17/19 12:36	11/18/19 05:21	1
2-Nitrophenol	400	U	400	40	ug/Kg	☒	11/17/19 12:36	11/18/19 05:21	1
3,3'-Dichlorobenzidine	160	U	160	61	ug/Kg	☒	11/17/19 12:36	11/18/19 05:21	1
3-Nitroaniline	400	U	400	46	ug/Kg	☒	11/17/19 12:36	11/18/19 05:21	1
4,6-Dinitro-2-methylphenol	330	U	330	66	ug/Kg	☒	11/17/19 12:36	11/18/19 05:21	1
4-Bromophenyl phenyl ether	400	U	400	16	ug/Kg	☒	11/17/19 12:36	11/18/19 05:21	1
4-Chloro-3-methylphenol	400	U	400	23	ug/Kg	☒	11/17/19 12:36	11/18/19 05:21	1
4-Chloroaniline	400	U	400	28	ug/Kg	☒	11/17/19 12:36	11/18/19 05:21	1
4-Chlorophenyl phenyl ether	400	U	400	14	ug/Kg	☒	11/17/19 12:36	11/18/19 05:21	1
4-Methylphenol	400	U	400	25	ug/Kg	☒	11/17/19 12:36	11/18/19 05:21	1
4-Nitroaniline	400	U	400	46	ug/Kg	☒	11/17/19 12:36	11/18/19 05:21	1
4-Nitrophenol	820	U	820	66	ug/Kg	☒	11/17/19 12:36	11/18/19 05:21	1
Acenaphthene	400	U	400	29	ug/Kg	☒	11/17/19 12:36	11/18/19 05:21	1
Acenaphthylene	400	U	400	4.2	ug/Kg	☒	11/17/19 12:36	11/18/19 05:21	1
Acetophenone	400	U	400	20	ug/Kg	☒	11/17/19 12:36	11/18/19 05:21	1
Anthracene	400	U	400	12	ug/Kg	☒	11/17/19 12:36	11/18/19 05:21	1
Atrazine	160	U	160	10	ug/Kg	☒	11/17/19 12:36	11/18/19 05:21	1
Benzaldehyde	400	U	400	18	ug/Kg	☒	11/17/19 12:36	11/18/19 05:21	1
Benzo[a]anthracene	40	U	40	14	ug/Kg	☒	11/17/19 12:36	11/18/19 05:21	1
Benzo[a]pyrene	40	U	40	11	ug/Kg	☒	11/17/19 12:36	11/18/19 05:21	1
Benzo[b]fluoranthene	40	U	40	10	ug/Kg	☒	11/17/19 12:36	11/18/19 05:21	1
Benzo[g,h,i]perylene	400	U	400	12	ug/Kg	☒	11/17/19 12:36	11/18/19 05:21	1
Benzo[k]fluoranthene	40	U	40	7.9	ug/Kg	☒	11/17/19 12:36	11/18/19 05:21	1
Bis(2-chloroethoxy)methane	400	U	400	31	ug/Kg	☒	11/17/19 12:36	11/18/19 05:21	1
Bis(2-chloroethyl)ether	40	U	40	14	ug/Kg	☒	11/17/19 12:36	11/18/19 05:21	1
Bis(2-ethylhexyl) phthalate	400	U	400	21	ug/Kg	☒	11/17/19 12:36	11/18/19 05:21	1
Butyl benzyl phthalate	400	U	400	19	ug/Kg	☒	11/17/19 12:36	11/18/19 05:21	1
Caprolactam	400	U	400	63	ug/Kg	☒	11/17/19 12:36	11/18/19 05:21	1
Carbazole	400	U	400	15	ug/Kg	☒	11/17/19 12:36	11/18/19 05:21	1
Chrysene	400	U	400	6.8	ug/Kg	☒	11/17/19 12:36	11/18/19 05:21	1
Dibenz(a,h)anthracene	40	U	40	17	ug/Kg	☒	11/17/19 12:36	11/18/19 05:21	1
Dibenzofuran	400	U	400	5.7	ug/Kg	☒	11/17/19 12:36	11/18/19 05:21	1
Diethyl phthalate	400	U	400	5.9	ug/Kg	☒	11/17/19 12:36	11/18/19 05:21	1
Dimethyl phthalate	400	U	400	92	ug/Kg	☒	11/17/19 12:36	11/18/19 05:21	1
Di-n-butyl phthalate	400	U	400	71	ug/Kg	☒	11/17/19 12:36	11/18/19 05:21	1
Di-n-octyl phthalate	400	U	400	21	ug/Kg	☒	11/17/19 12:36	11/18/19 05:21	1
Fluoranthene	400	U	400	14	ug/Kg	☒	11/17/19 12:36	11/18/19 05:21	1
Fluorene	400	U	400	5.5	ug/Kg	☒	11/17/19 12:36	11/18/19 05:21	1
Hexachlorobenzene	40	U	40	19	ug/Kg	☒	11/17/19 12:36	11/18/19 05:21	1
Hexachlorobutadiene	82	U	82	8.6	ug/Kg	☒	11/17/19 12:36	11/18/19 05:21	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196639-1

Client Sample ID: WSG-GS2-0.0-0.2-0

Lab Sample ID: 460-196639-25

Date Collected: 11/12/19 07:30

Matrix: Solid

Date Received: 11/15/19 21:07

Percent Solids: 81.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	400	U	400	35	ug/Kg	☒	11/17/19 12:36	11/18/19 05:21	1
Hexachloroethane	40	U	40	14	ug/Kg	☒	11/17/19 12:36	11/18/19 05:21	1
Indeno[1,2,3-cd]pyrene	40	U	40	16	ug/Kg	☒	11/17/19 12:36	11/18/19 05:21	1
Isophorone	160	U	160	120	ug/Kg	☒	11/17/19 12:36	11/18/19 05:21	1
Naphthalene	400	U	400	7.0	ug/Kg	☒	11/17/19 12:36	11/18/19 05:21	1
Nitrobenzene	40	U	40	9.7	ug/Kg	☒	11/17/19 12:36	11/18/19 05:21	1
N-Nitrosodi-n-propylamine	40	U	40	29	ug/Kg	☒	11/17/19 12:36	11/18/19 05:21	1
N-Nitrosodiphenylamine	400	U	400	7.7	ug/Kg	☒	11/17/19 12:36	11/18/19 05:21	1
Pentachlorophenol	330	U	330	83	ug/Kg	☒	11/17/19 12:36	11/18/19 05:21	1
Phenanthrene	400	U	400	7.1	ug/Kg	☒	11/17/19 12:36	11/18/19 05:21	1
Phenol	400	U	400	15	ug/Kg	☒	11/17/19 12:36	11/18/19 05:21	1
Pyrene	400	U	400	10	ug/Kg	☒	11/17/19 12:36	11/18/19 05:21	1
1,4-Dioxane	120	U	120	11	ug/Kg	☒	11/17/19 12:36	11/18/19 05:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	57		10 - 137	11/17/19 12:36	11/18/19 05:21	1
2-Fluorophenol (Surr)	61		20 - 115	11/17/19 12:36	11/18/19 05:21	1
Nitrobenzene-d5 (Surr)	58		25 - 113	11/17/19 12:36	11/18/19 05:21	1
Terphenyl-d14 (Surr)	65		27 - 123	11/17/19 12:36	11/18/19 05:21	1
Phenol-d5 (Surr)	59		28 - 109	11/17/19 12:36	11/18/19 05:21	1
2-Fluorobiphenyl	56		29 - 107	11/17/19 12:36	11/18/19 05:21	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	8.2	U	8.2	1.4	ug/Kg	☒	11/17/19 08:26	11/19/19 11:52	1
4,4'-DDE	5.4	J	8.2	0.97	ug/Kg	☒	11/17/19 08:26	11/19/19 11:52	1
4,4'-DDT	3.8	J	8.2	1.5	ug/Kg	☒	11/17/19 08:26	11/19/19 11:52	1
Aldrin	8.2	U	8.2	1.2	ug/Kg	☒	11/17/19 08:26	11/19/19 11:52	1
alpha-BHC	2.4	U	2.4	0.83	ug/Kg	☒	11/17/19 08:26	11/19/19 11:52	1
beta-BHC	2.4	U	2.4	0.92	ug/Kg	☒	11/17/19 08:26	11/19/19 11:52	1
Chlordane (technical)	82	U	82	20	ug/Kg	☒	11/17/19 08:26	11/19/19 11:52	1
delta-BHC	2.4	U	2.4	0.50	ug/Kg	☒	11/17/19 08:26	11/19/19 11:52	1
Dieldrin	2.4	U	2.4	1.1	ug/Kg	☒	11/17/19 08:26	11/19/19 11:52	1
Endosulfan I	8.2	U	8.2	1.2	ug/Kg	☒	11/17/19 08:26	11/19/19 11:52	1
Endosulfan II	8.2	U	8.2	2.1	ug/Kg	☒	11/17/19 08:26	11/19/19 11:52	1
Endosulfan sulfate	8.2	U	8.2	1.0	ug/Kg	☒	11/17/19 08:26	11/19/19 11:52	1
Endrin	8.2	U	8.2	1.2	ug/Kg	☒	11/17/19 08:26	11/19/19 11:52	1
Endrin aldehyde	8.2	U	8.2	1.9	ug/Kg	☒	11/17/19 08:26	11/19/19 11:52	1
Endrin ketone	8.2	U	8.2	1.6	ug/Kg	☒	11/17/19 08:26	11/19/19 11:52	1
gamma-BHC (Lindane)	2.4	U	2.4	0.76	ug/Kg	☒	11/17/19 08:26	11/19/19 11:52	1
Heptachlor	8.2	U	8.2	0.97	ug/Kg	☒	11/17/19 08:26	11/19/19 11:52	1
Heptachlor epoxide	8.2	U	8.2	1.2	ug/Kg	☒	11/17/19 08:26	11/19/19 11:52	1
Methoxychlor	8.2	U	8.2	1.9	ug/Kg	☒	11/17/19 08:26	11/19/19 11:52	1
Toxaphene	82	U	82	30	ug/Kg	☒	11/17/19 08:26	11/19/19 11:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	84		49 - 150	11/17/19 08:26	11/19/19 11:52	1
DCB Decachlorobiphenyl	102		49 - 150	11/17/19 08:26	11/19/19 11:52	1
Tetrachloro-m-xylene	88		47 - 150	11/17/19 08:26	11/19/19 11:52	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196639-1

Client Sample ID: WSG-GS2-0.0-0.2-0

Lab Sample ID: 460-196639-25

Date Collected: 11/12/19 07:30

Matrix: Solid

Date Received: 11/15/19 21:07

Percent Solids: 81.8

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	83		47 - 150	11/17/19 08:26	11/19/19 11:52	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	82	U	82	11	ug/Kg	☼	11/17/19 08:18	11/18/19 13:16	1
Aroclor 1221	82	U	82	11	ug/Kg	☼	11/17/19 08:18	11/18/19 13:16	1
Aroclor 1232	82	U	82	11	ug/Kg	☼	11/17/19 08:18	11/18/19 13:16	1
Aroclor 1242	82	U	82	11	ug/Kg	☼	11/17/19 08:18	11/18/19 13:16	1
Aroclor 1248	82	U	82	11	ug/Kg	☼	11/17/19 08:18	11/18/19 13:16	1
Aroclor 1254	82	U	82	11	ug/Kg	☼	11/17/19 08:18	11/18/19 13:16	1
Aroclor 1260	82	U	82	11	ug/Kg	☼	11/17/19 08:18	11/18/19 13:16	1
Aroclor-1262	82	U	82	11	ug/Kg	☼	11/17/19 08:18	11/18/19 13:16	1
Aroclor 1268	82	U	82	11	ug/Kg	☼	11/17/19 08:18	11/18/19 13:16	1
Polychlorinated biphenyls, Total	82	U	82	11	ug/Kg	☼	11/17/19 08:18	11/18/19 13:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	106		53 - 150	11/17/19 08:18	11/18/19 13:16	1
DCB Decachlorobiphenyl	97		53 - 150	11/17/19 08:18	11/18/19 13:16	1

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	41	U	41	15	ug/Kg	☼	11/20/19 02:56	11/20/19 16:38	1
Silvex (2,4,5-TP)	41	U	41	4.2	ug/Kg	☼	11/20/19 02:56	11/20/19 16:38	1
2,4,5-T	41	U	41	8.7	ug/Kg	☼	11/20/19 02:56	11/20/19 16:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	118		30 - 150	11/20/19 02:56	11/20/19 16:38	1
2,4-Dichlorophenylacetic acid	131		30 - 150	11/20/19 02:56	11/20/19 16:38	1

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	0.24	U	0.24	0.050	ug/Kg	☼	11/21/19 08:35	11/25/19 04:47	1
Perfluoroheptanoic acid (PFHpA)	0.24	U	0.24	0.035	ug/Kg	☼	11/21/19 08:35	11/25/19 04:47	1
Perfluorooctanoic acid (PFOA)	0.24	U	0.24	0.10	ug/Kg	☼	11/21/19 08:35	11/25/19 04:47	1
Perfluorononanoic acid (PFNA)	0.24	U	0.24	0.043	ug/Kg	☼	11/21/19 08:35	11/25/19 04:47	1
Perfluorodecanoic acid (PFDA)	0.039	J	0.24	0.026	ug/Kg	☼	11/21/19 08:35	11/25/19 04:47	1
Perfluoroundecanoic acid (PFUnA)	0.24	U	0.24	0.043	ug/Kg	☼	11/21/19 08:35	11/25/19 04:47	1
Perfluorododecanoic acid (PFDoA)	0.24	U	0.24	0.080	ug/Kg	☼	11/21/19 08:35	11/25/19 04:47	1
Perfluorotridecanoic acid (PFTriA)	0.24	U	0.24	0.061	ug/Kg	☼	11/21/19 08:35	11/25/19 04:47	1
Perfluorotetradecanoic acid (PFTeA)	0.24	U	0.24	0.065	ug/Kg	☼	11/21/19 08:35	11/25/19 04:47	1
Perfluorobutanesulfonic acid (PFBS)	0.24	U	0.24	0.030	ug/Kg	☼	11/21/19 08:35	11/25/19 04:47	1
Perfluorohexanesulfonic acid (PFHxS)	0.24	U	0.24	0.037	ug/Kg	☼	11/21/19 08:35	11/25/19 04:47	1
Perfluorooctanesulfonic acid (PFOS)	0.36	J B	0.60	0.24	ug/Kg	☼	11/21/19 08:35	11/25/19 04:47	1
N-ethylperfluorooctanesulfonamidoacetic acid (NETFOSAA)	2.39	U	2.39	0.44	ug/Kg	☼	11/21/19 08:35	11/25/19 04:47	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.39	U	2.39	0.47	ug/Kg	☼	11/21/19 08:35	11/25/19 04:47	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
¹³ C ₂ PFHxA	99		25 - 150	11/21/19 08:35	11/25/19 04:47	1

Eurofins TestAmerica, Edison

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196639-1

Client Sample ID: WSG-GS2-0.0-0.2-0

Lab Sample ID: 460-196639-25

Date Collected: 11/12/19 07:30

Matrix: Solid

Date Received: 11/15/19 21:07

Percent Solids: 81.8

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
¹³ C4 PFHpA	104		25 - 150	11/21/19 08:35	11/25/19 04:47	1
¹³ C4 PFOA	101		25 - 150	11/21/19 08:35	11/25/19 04:47	1
¹³ C5 PFNA	96		25 - 150	11/21/19 08:35	11/25/19 04:47	1
¹³ C2 PFDA	92		25 - 150	11/21/19 08:35	11/25/19 04:47	1
¹³ C2 PFUnA	98		25 - 150	11/21/19 08:35	11/25/19 04:47	1
¹³ C2 PFDoA	97		25 - 150	11/21/19 08:35	11/25/19 04:47	1
¹³ C2 PFTeDA	85		25 - 150	11/21/19 08:35	11/25/19 04:47	1
¹⁸ O2 PFHxS	112		25 - 150	11/21/19 08:35	11/25/19 04:47	1
¹³ C4 PFOS	93		25 - 150	11/21/19 08:35	11/25/19 04:47	1
d3-NMeFOSAA	82		25 - 150	11/21/19 08:35	11/25/19 04:47	1
d5-NEtFOSAA	88		25 - 150	11/21/19 08:35	11/25/19 04:47	1

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	6930		34.6	17.0	mg/Kg	☼	11/26/19 04:30	11/26/19 18:03	4
Silver	2.3	U	2.3	0.22	mg/Kg	☼	11/26/19 04:30	11/26/19 18:03	4
Aluminum	5300		46.2	13.0	mg/Kg	☼	11/26/19 04:30	11/26/19 18:03	4
Arsenic	5.2		3.5	1.3	mg/Kg	☼	11/26/19 04:30	11/26/19 18:03	4
Boron	5.9	J	11.5	3.2	mg/Kg	☼	11/26/19 04:30	11/26/19 18:03	4
Barium	14.3	J	46.2	2.6	mg/Kg	☼	11/26/19 04:30	11/26/19 18:03	4
Beryllium	0.25	J	0.46	0.10	mg/Kg	☼	11/26/19 04:30	11/26/19 18:03	4
Calcium	462	J	1150	68.0	mg/Kg	☼	11/26/19 04:30	11/26/19 18:03	4
Cadmium	0.92	U	0.92	0.16	mg/Kg	☼	11/26/19 04:30	11/26/19 18:03	4
Cobalt	2.1	J	11.5	1.4	mg/Kg	☼	11/26/19 04:30	11/26/19 18:03	4
Chromium	7.4		2.3	0.41	mg/Kg	☼	11/26/19 04:30	11/26/19 18:03	4
Copper	9.7		5.8	3.1	mg/Kg	☼	11/26/19 04:30	11/26/19 18:03	4
Potassium	276	J	1150	71.8	mg/Kg	☼	11/26/19 04:30	11/26/19 18:03	4
Magnesium	936	J	1150	67.3	mg/Kg	☼	11/26/19 04:30	11/26/19 18:03	4
Manganese	63.1		3.5	0.40	mg/Kg	☼	11/26/19 04:30	11/26/19 18:03	4
Molybdenum	4.6	U	4.6	1.1	mg/Kg	☼	11/26/19 04:30	11/26/19 18:03	4
Sodium	1150	U	1150	92.8	mg/Kg	☼	11/26/19 04:30	11/26/19 18:03	4
Nickel	4.2	J	9.2	0.85	mg/Kg	☼	11/26/19 04:30	11/26/19 18:03	4
Lead	7.0		2.3	0.60	mg/Kg	☼	11/26/19 04:30	11/26/19 18:03	4
Antimony	4.6	U	4.6	1.2	mg/Kg	☼	11/26/19 04:30	11/26/19 18:03	4
Selenium	4.6	U	4.6	2.8	mg/Kg	☼	11/26/19 04:30	11/26/19 18:03	4
Tin	11.5	U	11.5	7.4	mg/Kg	☼	11/26/19 04:30	11/26/19 18:03	4
Strontium	2.8	J	4.6	0.46	mg/Kg	☼	11/26/19 04:30	11/26/19 18:03	4
Titanium	291		4.6	0.69	mg/Kg	☼	11/26/19 04:30	11/26/19 18:03	4
Thallium	4.6	U	4.6	0.74	mg/Kg	☼	11/26/19 04:30	11/26/19 18:03	4
Vanadium	10.8	J	11.5	0.77	mg/Kg	☼	11/26/19 04:30	11/26/19 18:03	4
Zinc	13.4		6.9	5.4	mg/Kg	☼	11/26/19 04:30	11/26/19 18:03	4

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.017	J	0.019	0.011	mg/Kg	☼	11/25/19 04:23	11/25/19 08:45	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196639-1

Client Sample ID: WSG-GS9-3.5-0

Lab Sample ID: 460-196639-26

Date Collected: 11/12/19 08:15

Matrix: Solid

Date Received: 11/15/19 21:07

Percent Solids: 95.8

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	0.21	U	0.21	0.043	ug/Kg	☼	11/21/19 08:35	11/25/19 04:57	1
Perfluoroheptanoic acid (PFHpA)	0.21	U	0.21	0.030	ug/Kg	☼	11/21/19 08:35	11/25/19 04:57	1
Perfluorooctanoic acid (PFOA)	0.21	U	0.21	0.089	ug/Kg	☼	11/21/19 08:35	11/25/19 04:57	1
Perfluorononanoic acid (PFNA)	0.041	J	0.21	0.037	ug/Kg	☼	11/21/19 08:35	11/25/19 04:57	1
Perfluorodecanoic acid (PFDA)	0.21	U	0.21	0.023	ug/Kg	☼	11/21/19 08:35	11/25/19 04:57	1
Perfluoroundecanoic acid (PFUnA)	0.21	U	0.21	0.037	ug/Kg	☼	11/21/19 08:35	11/25/19 04:57	1
Perfluorododecanoic acid (PFDoA)	0.21	U	0.21	0.069	ug/Kg	☼	11/21/19 08:35	11/25/19 04:57	1
Perfluorotridecanoic acid (PFTriA)	0.21	U	0.21	0.053	ug/Kg	☼	11/21/19 08:35	11/25/19 04:57	1
Perfluorotetradecanoic acid (PFTeA)	0.21	U	0.21	0.056	ug/Kg	☼	11/21/19 08:35	11/25/19 04:57	1
Perfluorobutanesulfonic acid (PFBS)	0.21	U	0.21	0.026	ug/Kg	☼	11/21/19 08:35	11/25/19 04:57	1
Perfluorohexanesulfonic acid (PFHxS)	0.033	J	0.21	0.032	ug/Kg	☼	11/21/19 08:35	11/25/19 04:57	1
Perfluorooctanesulfonic acid (PFOS)	0.34	J B	0.52	0.21	ug/Kg	☼	11/21/19 08:35	11/25/19 04:57	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.06	U	2.06	0.38	ug/Kg	☼	11/21/19 08:35	11/25/19 04:57	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.06	U	2.06	0.40	ug/Kg	☼	11/21/19 08:35	11/25/19 04:57	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C2 PFHxA	104		25 - 150				11/21/19 08:35	11/25/19 04:57	1
13C4 PFHpA	112		25 - 150				11/21/19 08:35	11/25/19 04:57	1
13C4 PFOA	104		25 - 150				11/21/19 08:35	11/25/19 04:57	1
13C5 PFNA	100		25 - 150				11/21/19 08:35	11/25/19 04:57	1
13C2 PFDA	97		25 - 150				11/21/19 08:35	11/25/19 04:57	1
13C2 PFUnA	101		25 - 150				11/21/19 08:35	11/25/19 04:57	1
13C2 PFDoA	107		25 - 150				11/21/19 08:35	11/25/19 04:57	1
13C2 PFTeA	96		25 - 150				11/21/19 08:35	11/25/19 04:57	1
18O2 PFHxS	116		25 - 150				11/21/19 08:35	11/25/19 04:57	1
13C4 PFOS	94		25 - 150				11/21/19 08:35	11/25/19 04:57	1
d3-NMeFOSAA	94		25 - 150				11/21/19 08:35	11/25/19 04:57	1
d5-NEtFOSAA	98		25 - 150				11/21/19 08:35	11/25/19 04:57	1

Client Sample ID: WSG-C10-COMP-0

Lab Sample ID: 460-196639-27

Date Collected: 11/12/19 08:50

Matrix: Solid

Date Received: 11/15/19 21:07

Percent Solids: 86.4

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.1	U	1.1	0.25	ug/Kg	☼	11/19/19 02:02	11/24/19 11:04	1
1,1,2,2-Tetrachloroethane	1.1	U	1.1	0.23	ug/Kg	☼	11/19/19 02:02	11/24/19 11:04	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.1	U	1.1	0.32	ug/Kg	☼	11/19/19 02:02	11/24/19 11:04	1
1,1,2-Trichloroethane	1.1	U	1.1	0.19	ug/Kg	☼	11/19/19 02:02	11/24/19 11:04	1
1,1-Dichloroethane	1.1	U	1.1	0.22	ug/Kg	☼	11/19/19 02:02	11/24/19 11:04	1
1,1-Dichloroethene	1.1	U	1.1	0.24	ug/Kg	☼	11/19/19 02:02	11/24/19 11:04	1
1,2,4-Trichlorobenzene	1.1	U	1.1	0.38	ug/Kg	☼	11/19/19 02:02	11/24/19 11:04	1
1,2-Dibromo-3-Chloropropane	1.1	U	1.1	0.49	ug/Kg	☼	11/19/19 02:02	11/24/19 11:04	1
1,2-Dichlorobenzene	1.1	U	1.1	0.15	ug/Kg	☼	11/19/19 02:02	11/24/19 11:04	1
1,2-Dichloroethane	1.1	U	1.1	0.31	ug/Kg	☼	11/19/19 02:02	11/24/19 11:04	1
1,2-Dichloropropane	1.1	U	1.1	0.45	ug/Kg	☼	11/19/19 02:02	11/24/19 11:04	1
1,3-Dichlorobenzene	1.1	U	1.1	0.17	ug/Kg	☼	11/19/19 02:02	11/24/19 11:04	1

Eurofins TestAmerica, Edison

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196639-1

Client Sample ID: WSG-C10-COMP-0

Lab Sample ID: 460-196639-27

Date Collected: 11/12/19 08:50

Matrix: Solid

Date Received: 11/15/19 21:07

Percent Solids: 86.4

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	1.1	U	1.1	0.24	ug/Kg	☼	11/19/19 02:02	11/24/19 11:04	1
2-Butanone (MEK)	5.3	U	5.3	2.9	ug/Kg	☼	11/19/19 02:02	11/24/19 11:04	1
2-Hexanone	5.3	U	5.3	1.8	ug/Kg	☼	11/19/19 02:02	11/24/19 11:04	1
4-Methyl-2-pentanone (MIBK)	5.3	U	5.3	1.6	ug/Kg	☼	11/19/19 02:02	11/24/19 11:04	1
Acetone	6.3	U	6.3	6.0	ug/Kg	☼	11/19/19 02:02	11/24/19 11:04	1
Benzene	1.1	U	1.1	0.27	ug/Kg	☼	11/19/19 02:02	11/24/19 11:04	1
Bromoform	1.1	U	1.1	0.45	ug/Kg	☼	11/19/19 02:02	11/24/19 11:04	1
Bromomethane	1.1	U	1.1	0.50	ug/Kg	☼	11/19/19 02:02	11/24/19 11:04	1
Carbon disulfide	1.1	U	1.1	0.28	ug/Kg	☼	11/19/19 02:02	11/24/19 11:04	1
Carbon tetrachloride	1.1	U	1.1	0.41	ug/Kg	☼	11/19/19 02:02	11/24/19 11:04	1
Chlorobenzene	1.1	U	1.1	0.19	ug/Kg	☼	11/19/19 02:02	11/24/19 11:04	1
Chlorodibromomethane	1.1	U	1.1	0.20	ug/Kg	☼	11/19/19 02:02	11/24/19 11:04	1
Chloroethane	1.1	U	1.1	0.55	ug/Kg	☼	11/19/19 02:02	11/24/19 11:04	1
Chloroform	1.1	U	1.1	0.34	ug/Kg	☼	11/19/19 02:02	11/24/19 11:04	1
Chloromethane	1.1	U	1.1	0.46	ug/Kg	☼	11/19/19 02:02	11/24/19 11:04	1
cis-1,2-Dichloroethene	1.1	U	1.1	0.16	ug/Kg	☼	11/19/19 02:02	11/24/19 11:04	1
cis-1,3-Dichloropropene	1.1	U	1.1	0.29	ug/Kg	☼	11/19/19 02:02	11/24/19 11:04	1
Cyclohexane	1.1	U	1.1	0.23	ug/Kg	☼	11/19/19 02:02	11/24/19 11:04	1
Dichlorobromomethane	1.1	U	1.1	0.27	ug/Kg	☼	11/19/19 02:02	11/24/19 11:04	1
Dichlorodifluoromethane	1.1	U	1.1	0.36	ug/Kg	☼	11/19/19 02:02	11/24/19 11:04	1
Ethylbenzene	1.1	U	1.1	0.21	ug/Kg	☼	11/19/19 02:02	11/24/19 11:04	1
Ethylene Dibromide	1.1	U	1.1	0.19	ug/Kg	☼	11/19/19 02:02	11/24/19 11:04	1
Isopropylbenzene	1.1	U	1.1	0.13	ug/Kg	☼	11/19/19 02:02	11/24/19 11:04	1
Methyl acetate	5.3	U *	5.3	4.5	ug/Kg	☼	11/19/19 02:02	11/24/19 11:04	1
Methyl tert-butyl ether	1.1	U	1.1	0.13	ug/Kg	☼	11/19/19 02:02	11/24/19 11:04	1
Methylcyclohexane	1.1	U	1.1	0.53	ug/Kg	☼	11/19/19 02:02	11/24/19 11:04	1
Methylene Chloride	1.2		1.1	0.49	ug/Kg	☼	11/19/19 02:02	11/24/19 11:04	1
Styrene	1.1	U	1.1	0.29	ug/Kg	☼	11/19/19 02:02	11/24/19 11:04	1
Tetrachloroethene	1.1	U	1.1	0.15	ug/Kg	☼	11/19/19 02:02	11/24/19 11:04	1
Toluene	1.1	U	1.1	0.25	ug/Kg	☼	11/19/19 02:02	11/24/19 11:04	1
trans-1,2-Dichloroethene	1.1	U	1.1	0.26	ug/Kg	☼	11/19/19 02:02	11/24/19 11:04	1
trans-1,3-Dichloropropene	1.1	U	1.1	0.28	ug/Kg	☼	11/19/19 02:02	11/24/19 11:04	1
Trichloroethene	1.1	U	1.1	0.15	ug/Kg	☼	11/19/19 02:02	11/24/19 11:04	1
Trichlorofluoromethane	1.1	U	1.1	0.43	ug/Kg	☼	11/19/19 02:02	11/24/19 11:04	1
Vinyl chloride	1.1	U	1.1	0.58	ug/Kg	☼	11/19/19 02:02	11/24/19 11:04	1
Xylenes, Total	2.1	U	2.1	0.18	ug/Kg	☼	11/19/19 02:02	11/24/19 11:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	111		78 - 135	11/19/19 02:02	11/24/19 11:04	1
4-Bromofluorobenzene	113		67 - 126	11/19/19 02:02	11/24/19 11:04	1
Dibromofluoromethane (Surr)	113		61 - 149	11/19/19 02:02	11/24/19 11:04	1
Toluene-d8 (Surr)	100		73 - 121	11/19/19 02:02	11/24/19 11:04	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	380	U	380	5.1	ug/Kg	☼	11/17/19 12:36	11/18/19 05:44	1
2,2'-oxybis[1-chloropropane]	380	U	380	6.9	ug/Kg	☼	11/17/19 12:36	11/18/19 05:44	1
2,4,5-Trichlorophenol	380	U	380	39	ug/Kg	☼	11/17/19 12:36	11/18/19 05:44	1
2,4,6-Trichlorophenol	150	U	150	49	ug/Kg	☼	11/17/19 12:36	11/18/19 05:44	1

Eurofins TestAmerica, Edison

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196639-1

Client Sample ID: WSG-C10-COMP-0

Lab Sample ID: 460-196639-27

Date Collected: 11/12/19 08:50

Matrix: Solid

Date Received: 11/15/19 21:07

Percent Solids: 86.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenol	150	U	150	25	ug/Kg	☼	11/17/19 12:36	11/18/19 05:44	1
2,4-Dimethylphenol	380	U	380	17	ug/Kg	☼	11/17/19 12:36	11/18/19 05:44	1
2,4-Dinitrophenol	310	U	310	190	ug/Kg	☼	11/17/19 12:36	11/18/19 05:44	1
2,4-Dinitrotoluene	78	U	78	41	ug/Kg	☼	11/17/19 12:36	11/18/19 05:44	1
2,6-Dinitrotoluene	78	U	78	28	ug/Kg	☼	11/17/19 12:36	11/18/19 05:44	1
2-Chloronaphthalene	380	U	380	18	ug/Kg	☼	11/17/19 12:36	11/18/19 05:44	1
2-Chlorophenol	380	U	380	14	ug/Kg	☼	11/17/19 12:36	11/18/19 05:44	1
2-Methylnaphthalene	380	U	380	11	ug/Kg	☼	11/17/19 12:36	11/18/19 05:44	1
2-Methylphenol	380	U	380	14	ug/Kg	☼	11/17/19 12:36	11/18/19 05:44	1
2-Nitroaniline	380	U	380	14	ug/Kg	☼	11/17/19 12:36	11/18/19 05:44	1
2-Nitrophenol	380	U	380	38	ug/Kg	☼	11/17/19 12:36	11/18/19 05:44	1
3,3'-Dichlorobenzidine	150	U	150	58	ug/Kg	☼	11/17/19 12:36	11/18/19 05:44	1
3-Nitroaniline	380	U	380	43	ug/Kg	☼	11/17/19 12:36	11/18/19 05:44	1
4,6-Dinitro-2-methylphenol	310	U	310	62	ug/Kg	☼	11/17/19 12:36	11/18/19 05:44	1
4-Bromophenyl phenyl ether	380	U	380	15	ug/Kg	☼	11/17/19 12:36	11/18/19 05:44	1
4-Chloro-3-methylphenol	380	U	380	21	ug/Kg	☼	11/17/19 12:36	11/18/19 05:44	1
4-Chloroaniline	380	U	380	27	ug/Kg	☼	11/17/19 12:36	11/18/19 05:44	1
4-Chlorophenyl phenyl ether	380	U	380	14	ug/Kg	☼	11/17/19 12:36	11/18/19 05:44	1
4-Methylphenol	380	U	380	24	ug/Kg	☼	11/17/19 12:36	11/18/19 05:44	1
4-Nitroaniline	380	U	380	44	ug/Kg	☼	11/17/19 12:36	11/18/19 05:44	1
4-Nitrophenol	780	U	780	62	ug/Kg	☼	11/17/19 12:36	11/18/19 05:44	1
Acenaphthene	380	U	380	28	ug/Kg	☼	11/17/19 12:36	11/18/19 05:44	1
Acenaphthylene	380	U	380	4.0	ug/Kg	☼	11/17/19 12:36	11/18/19 05:44	1
Acetophenone	380	U	380	19	ug/Kg	☼	11/17/19 12:36	11/18/19 05:44	1
Anthracene	380	U	380	12	ug/Kg	☼	11/17/19 12:36	11/18/19 05:44	1
Atrazine	150	U	150	9.7	ug/Kg	☼	11/17/19 12:36	11/18/19 05:44	1
Benzaldehyde	380	U	380	17	ug/Kg	☼	11/17/19 12:36	11/18/19 05:44	1
Benzo[a]anthracene	38	U	38	13	ug/Kg	☼	11/17/19 12:36	11/18/19 05:44	1
Benzo[a]pyrene	38	U	38	10	ug/Kg	☼	11/17/19 12:36	11/18/19 05:44	1
Benzo[b]fluoranthene	38	U	38	9.9	ug/Kg	☼	11/17/19 12:36	11/18/19 05:44	1
Benzo[g,h,i]perylene	380	U	380	11	ug/Kg	☼	11/17/19 12:36	11/18/19 05:44	1
Benzo[k]fluoranthene	38	U	38	7.5	ug/Kg	☼	11/17/19 12:36	11/18/19 05:44	1
Bis(2-chloroethoxy)methane	380	U	380	30	ug/Kg	☼	11/17/19 12:36	11/18/19 05:44	1
Bis(2-chloroethyl)ether	38	U	38	13	ug/Kg	☼	11/17/19 12:36	11/18/19 05:44	1
Bis(2-ethylhexyl) phthalate	380	U	380	20	ug/Kg	☼	11/17/19 12:36	11/18/19 05:44	1
Butyl benzyl phthalate	380	U	380	18	ug/Kg	☼	11/17/19 12:36	11/18/19 05:44	1
Caprolactam	380	U	380	60	ug/Kg	☼	11/17/19 12:36	11/18/19 05:44	1
Carbazole	380	U	380	15	ug/Kg	☼	11/17/19 12:36	11/18/19 05:44	1
Chrysene	380	U	380	6.5	ug/Kg	☼	11/17/19 12:36	11/18/19 05:44	1
Dibenz(a,h)anthracene	38	U	38	17	ug/Kg	☼	11/17/19 12:36	11/18/19 05:44	1
Dibenzofuran	380	U	380	5.4	ug/Kg	☼	11/17/19 12:36	11/18/19 05:44	1
Diethyl phthalate	380	U	380	5.5	ug/Kg	☼	11/17/19 12:36	11/18/19 05:44	1
Dimethyl phthalate	380	U	380	87	ug/Kg	☼	11/17/19 12:36	11/18/19 05:44	1
Di-n-butyl phthalate	380	U	380	68	ug/Kg	☼	11/17/19 12:36	11/18/19 05:44	1
Di-n-octyl phthalate	380	U	380	20	ug/Kg	☼	11/17/19 12:36	11/18/19 05:44	1
Fluoranthene	380	U	380	13	ug/Kg	☼	11/17/19 12:36	11/18/19 05:44	1
Fluorene	380	U	380	5.2	ug/Kg	☼	11/17/19 12:36	11/18/19 05:44	1
Hexachlorobenzene	38	U	38	18	ug/Kg	☼	11/17/19 12:36	11/18/19 05:44	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196639-1

Client Sample ID: WSG-C10-COMP-0

Lab Sample ID: 460-196639-27

Date Collected: 11/12/19 08:50

Matrix: Solid

Date Received: 11/15/19 21:07

Percent Solids: 86.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobutadiene	78	U	78	8.1	ug/Kg	☒	11/17/19 12:36	11/18/19 05:44	1
Hexachlorocyclopentadiene	380	U	380	34	ug/Kg	☒	11/17/19 12:36	11/18/19 05:44	1
Hexachloroethane	38	U	38	13	ug/Kg	☒	11/17/19 12:36	11/18/19 05:44	1
Indeno[1,2,3-cd]pyrene	38	U	38	15	ug/Kg	☒	11/17/19 12:36	11/18/19 05:44	1
Isophorone	150	U	150	110	ug/Kg	☒	11/17/19 12:36	11/18/19 05:44	1
Naphthalene	380	U	380	6.6	ug/Kg	☒	11/17/19 12:36	11/18/19 05:44	1
Nitrobenzene	38	U	38	9.2	ug/Kg	☒	11/17/19 12:36	11/18/19 05:44	1
N-Nitrosodi-n-propylamine	38	U	38	28	ug/Kg	☒	11/17/19 12:36	11/18/19 05:44	1
N-Nitrosodiphenylamine	380	U	380	7.3	ug/Kg	☒	11/17/19 12:36	11/18/19 05:44	1
Pentachlorophenol	310	U	310	78	ug/Kg	☒	11/17/19 12:36	11/18/19 05:44	1
Phenanthrene	380	U	380	6.7	ug/Kg	☒	11/17/19 12:36	11/18/19 05:44	1
Phenol	380	U	380	14	ug/Kg	☒	11/17/19 12:36	11/18/19 05:44	1
Pyrene	380	U	380	9.5	ug/Kg	☒	11/17/19 12:36	11/18/19 05:44	1
1,4-Dioxane	120	U	120	11	ug/Kg	☒	11/17/19 12:36	11/18/19 05:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	53		10 - 137				11/17/19 12:36	11/18/19 05:44	1
2-Fluorophenol (Surr)	53		20 - 115				11/17/19 12:36	11/18/19 05:44	1
Nitrobenzene-d5 (Surr)	59		25 - 113				11/17/19 12:36	11/18/19 05:44	1
Terphenyl-d14 (Surr)	57		27 - 123				11/17/19 12:36	11/18/19 05:44	1
Phenol-d5 (Surr)	49		28 - 109				11/17/19 12:36	11/18/19 05:44	1
2-Fluorobiphenyl	49		29 - 107				11/17/19 12:36	11/18/19 05:44	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	3.4	J p	7.8	1.3	ug/Kg	☒	11/17/19 08:26	11/19/19 12:08	1
4,4'-DDE	25		7.8	0.91	ug/Kg	☒	11/17/19 08:26	11/19/19 12:08	1
4,4'-DDT	49		7.8	1.4	ug/Kg	☒	11/17/19 08:26	11/19/19 12:08	1
Aldrin	7.8	U	7.8	1.2	ug/Kg	☒	11/17/19 08:26	11/19/19 12:08	1
alpha-BHC	2.3	U	2.3	0.79	ug/Kg	☒	11/17/19 08:26	11/19/19 12:08	1
beta-BHC	2.3	U	2.3	0.87	ug/Kg	☒	11/17/19 08:26	11/19/19 12:08	1
Chlordane (technical)	78	U	78	19	ug/Kg	☒	11/17/19 08:26	11/19/19 12:08	1
delta-BHC	2.3	U	2.3	0.47	ug/Kg	☒	11/17/19 08:26	11/19/19 12:08	1
Dieldrin	2.3	U	2.3	1.0	ug/Kg	☒	11/17/19 08:26	11/19/19 12:08	1
Endosulfan I	7.8	U	7.8	1.2	ug/Kg	☒	11/17/19 08:26	11/19/19 12:08	1
Endosulfan II	7.8	U	7.8	2.0	ug/Kg	☒	11/17/19 08:26	11/19/19 12:08	1
Endosulfan sulfate	7.8	U	7.8	0.97	ug/Kg	☒	11/17/19 08:26	11/19/19 12:08	1
Endrin	7.8	U	7.8	1.1	ug/Kg	☒	11/17/19 08:26	11/19/19 12:08	1
Endrin aldehyde	7.8	U	7.8	1.8	ug/Kg	☒	11/17/19 08:26	11/19/19 12:08	1
Endrin ketone	7.8	U	7.8	1.5	ug/Kg	☒	11/17/19 08:26	11/19/19 12:08	1
gamma-BHC (Lindane)	2.3	U	2.3	0.72	ug/Kg	☒	11/17/19 08:26	11/19/19 12:08	1
Heptachlor	7.8	U	7.8	0.91	ug/Kg	☒	11/17/19 08:26	11/19/19 12:08	1
Heptachlor epoxide	7.8	U	7.8	1.2	ug/Kg	☒	11/17/19 08:26	11/19/19 12:08	1
Methoxychlor	7.8	U	7.8	1.8	ug/Kg	☒	11/17/19 08:26	11/19/19 12:08	1
Toxaphene	78	U	78	28	ug/Kg	☒	11/17/19 08:26	11/19/19 12:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	88		49 - 150				11/17/19 08:26	11/19/19 12:08	1
DCB Decachlorobiphenyl	99		49 - 150				11/17/19 08:26	11/19/19 12:08	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196639-1

Client Sample ID: WSG-C10-COMP-0

Lab Sample ID: 460-196639-27

Date Collected: 11/12/19 08:50

Matrix: Solid

Date Received: 11/15/19 21:07

Percent Solids: 86.4

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	97		47 - 150	11/17/19 08:26	11/19/19 12:08	1
Tetrachloro-m-xylene	91		47 - 150	11/17/19 08:26	11/19/19 12:08	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	78	U	78	10	ug/Kg	☼	11/17/19 08:18	11/18/19 18:51	1
Aroclor 1221	78	U	78	10	ug/Kg	☼	11/17/19 08:18	11/18/19 18:51	1
Aroclor 1232	78	U	78	10	ug/Kg	☼	11/17/19 08:18	11/18/19 18:51	1
Aroclor 1242	78	U	78	10	ug/Kg	☼	11/17/19 08:18	11/18/19 18:51	1
Aroclor 1248	78	U	78	10	ug/Kg	☼	11/17/19 08:18	11/18/19 18:51	1
Aroclor 1254	78	U	78	11	ug/Kg	☼	11/17/19 08:18	11/18/19 18:51	1
Aroclor 1260	78	U	78	11	ug/Kg	☼	11/17/19 08:18	11/18/19 18:51	1
Aroclor-1262	78	U	78	11	ug/Kg	☼	11/17/19 08:18	11/18/19 18:51	1
Aroclor 1268	78	U	78	11	ug/Kg	☼	11/17/19 08:18	11/18/19 18:51	1
Polychlorinated biphenyls, Total	78	U	78	11	ug/Kg	☼	11/17/19 08:18	11/18/19 18:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	139		53 - 150	11/17/19 08:18	11/18/19 18:51	1
DCB Decachlorobiphenyl	130		53 - 150	11/17/19 08:18	11/18/19 18:51	1

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	39	U	39	14	ug/Kg	☼	11/20/19 02:56	11/20/19 16:52	1
Silvex (2,4,5-TP)	39	U	39	4.0	ug/Kg	☼	11/20/19 02:56	11/20/19 16:52	1
2,4,5-T	39	U	39	8.2	ug/Kg	☼	11/20/19 02:56	11/20/19 16:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	122		30 - 150	11/20/19 02:56	11/20/19 16:52	1
2,4-Dichlorophenylacetic acid	126		30 - 150	11/20/19 02:56	11/20/19 16:52	1

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	0.21	U	0.21	0.044	ug/Kg	☼	11/21/19 08:35	11/25/19 05:26	1
Perfluoroheptanoic acid (PFHpA)	0.21	U	0.21	0.031	ug/Kg	☼	11/21/19 08:35	11/25/19 05:26	1
Perfluorooctanoic acid (PFOA)	0.21	U	0.21	0.091	ug/Kg	☼	11/21/19 08:35	11/25/19 05:26	1
Perfluorononanoic acid (PFNA)	0.042	J	0.21	0.038	ug/Kg	☼	11/21/19 08:35	11/25/19 05:26	1
Perfluorodecanoic acid (PFDA)	0.083	J	0.21	0.023	ug/Kg	☼	11/21/19 08:35	11/25/19 05:26	1
Perfluoroundecanoic acid (PFUnA)	0.055	J	0.21	0.038	ug/Kg	☼	11/21/19 08:35	11/25/19 05:26	1
Perfluorododecanoic acid (PFDoA)	0.21	U	0.21	0.071	ug/Kg	☼	11/21/19 08:35	11/25/19 05:26	1
Perfluorotridecanoic acid (PFTriA)	0.21	U	0.21	0.054	ug/Kg	☼	11/21/19 08:35	11/25/19 05:26	1
Perfluorotetradecanoic acid (PFTeA)	0.21	U	0.21	0.057	ug/Kg	☼	11/21/19 08:35	11/25/19 05:26	1
Perfluorobutanesulfonic acid (PFBS)	0.21	U	0.21	0.026	ug/Kg	☼	11/21/19 08:35	11/25/19 05:26	1
Perfluorohexanesulfonic acid (PFHxS)	0.21	U	0.21	0.033	ug/Kg	☼	11/21/19 08:35	11/25/19 05:26	1
Perfluorooctanesulfonic acid (PFOS)	1.16	B	0.53	0.21	ug/Kg	☼	11/21/19 08:35	11/25/19 05:26	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.12	U	2.12	0.39	ug/Kg	☼	11/21/19 08:35	11/25/19 05:26	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.12	U	2.12	0.41	ug/Kg	☼	11/21/19 08:35	11/25/19 05:26	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196639-1

Client Sample ID: WSG-C10-COMP-0

Lab Sample ID: 460-196639-27

Date Collected: 11/12/19 08:50

Matrix: Solid

Date Received: 11/15/19 21:07

Percent Solids: 86.4

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFHxA	97		25 - 150	11/21/19 08:35	11/25/19 05:26	1
13C4 PFHpA	102		25 - 150	11/21/19 08:35	11/25/19 05:26	1
13C4 PFOA	99		25 - 150	11/21/19 08:35	11/25/19 05:26	1
13C5 PFNA	91		25 - 150	11/21/19 08:35	11/25/19 05:26	1
13C2 PFDA	91		25 - 150	11/21/19 08:35	11/25/19 05:26	1
13C2 PFUnA	98		25 - 150	11/21/19 08:35	11/25/19 05:26	1
13C2 PFDoA	98		25 - 150	11/21/19 08:35	11/25/19 05:26	1
13C2 PFTeDA	90		25 - 150	11/21/19 08:35	11/25/19 05:26	1
18O2 PFHxS	107		25 - 150	11/21/19 08:35	11/25/19 05:26	1
13C4 PFOS	89		25 - 150	11/21/19 08:35	11/25/19 05:26	1
d3-NMeFOSAA	87		25 - 150	11/21/19 08:35	11/25/19 05:26	1
d5-NEtFOSAA	95		25 - 150	11/21/19 08:35	11/25/19 05:26	1

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	6390		33.7	16.5	mg/Kg	☼	11/26/19 04:30	11/26/19 18:07	4
Silver	2.2	U	2.2	0.21	mg/Kg	☼	11/26/19 04:30	11/26/19 18:07	4
Aluminum	5520		45.0	12.7	mg/Kg	☼	11/26/19 04:30	11/26/19 18:07	4
Arsenic	4.0		3.4	1.3	mg/Kg	☼	11/26/19 04:30	11/26/19 18:07	4
Boron	5.5	J	11.2	3.1	mg/Kg	☼	11/26/19 04:30	11/26/19 18:07	4
Barium	14.2	J	45.0	2.5	mg/Kg	☼	11/26/19 04:30	11/26/19 18:07	4
Beryllium	0.21	J	0.45	0.10	mg/Kg	☼	11/26/19 04:30	11/26/19 18:07	4
Calcium	1290		1120	66.2	mg/Kg	☼	11/26/19 04:30	11/26/19 18:07	4
Cadmium	0.90	U	0.90	0.15	mg/Kg	☼	11/26/19 04:30	11/26/19 18:07	4
Cobalt	1.5	J	11.2	1.4	mg/Kg	☼	11/26/19 04:30	11/26/19 18:07	4
Chromium	6.5		2.2	0.40	mg/Kg	☼	11/26/19 04:30	11/26/19 18:07	4
Copper	8.9		5.6	3.0	mg/Kg	☼	11/26/19 04:30	11/26/19 18:07	4
Potassium	308	J	1120	69.9	mg/Kg	☼	11/26/19 04:30	11/26/19 18:07	4
Magnesium	776	J	1120	65.5	mg/Kg	☼	11/26/19 04:30	11/26/19 18:07	4
Manganese	70.4		3.4	0.39	mg/Kg	☼	11/26/19 04:30	11/26/19 18:07	4
Molybdenum	4.5	U	4.5	1.1	mg/Kg	☼	11/26/19 04:30	11/26/19 18:07	4
Sodium	1120	U	1120	90.4	mg/Kg	☼	11/26/19 04:30	11/26/19 18:07	4
Nickel	3.5	J	9.0	0.83	mg/Kg	☼	11/26/19 04:30	11/26/19 18:07	4
Lead	10.2		2.2	0.59	mg/Kg	☼	11/26/19 04:30	11/26/19 18:07	4
Antimony	4.5	U	4.5	1.2	mg/Kg	☼	11/26/19 04:30	11/26/19 18:07	4
Selenium	4.5	U	4.5	2.7	mg/Kg	☼	11/26/19 04:30	11/26/19 18:07	4
Tin	11.2	U	11.2	7.2	mg/Kg	☼	11/26/19 04:30	11/26/19 18:07	4
Strontium	5.8		4.5	0.45	mg/Kg	☼	11/26/19 04:30	11/26/19 18:07	4
Titanium	246		4.5	0.68	mg/Kg	☼	11/26/19 04:30	11/26/19 18:07	4
Thallium	4.5	U	4.5	0.72	mg/Kg	☼	11/26/19 04:30	11/26/19 18:07	4
Vanadium	9.9	J	11.2	0.75	mg/Kg	☼	11/26/19 04:30	11/26/19 18:07	4
Zinc	21.0		6.7	5.2	mg/Kg	☼	11/26/19 04:30	11/26/19 18:07	4

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.024		0.019	0.011	mg/Kg	☼	11/25/19 04:23	11/25/19 08:46	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196639-1

Client Sample ID: WSG-C9-COMP-0

Lab Sample ID: 460-196639-28

Date Collected: 11/12/19 09:10

Matrix: Solid

Date Received: 11/15/19 21:07

Percent Solids: 87.8

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.1	U	1.1	0.26	ug/Kg	☒	11/19/19 02:02	11/25/19 23:26	1
1,1,2,2-Tetrachloroethane	1.1	U	1.1	0.24	ug/Kg	☒	11/19/19 02:02	11/25/19 23:26	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.1	U	1.1	0.33	ug/Kg	☒	11/19/19 02:02	11/25/19 23:26	1
1,1,2-Trichloroethane	1.1	U	1.1	0.20	ug/Kg	☒	11/19/19 02:02	11/25/19 23:26	1
1,1-Dichloroethane	1.1	U	1.1	0.23	ug/Kg	☒	11/19/19 02:02	11/25/19 23:26	1
1,1-Dichloroethene	1.1	U	1.1	0.25	ug/Kg	☒	11/19/19 02:02	11/25/19 23:26	1
1,2,4-Trichlorobenzene	1.1	U	1.1	0.39	ug/Kg	☒	11/19/19 02:02	11/25/19 23:26	1
1,2-Dibromo-3-Chloropropane	1.1	U	1.1	0.51	ug/Kg	☒	11/19/19 02:02	11/25/19 23:26	1
1,2-Dichlorobenzene	1.1	U	1.1	0.16	ug/Kg	☒	11/19/19 02:02	11/25/19 23:26	1
1,2-Dichloroethane	1.1	U	1.1	0.33	ug/Kg	☒	11/19/19 02:02	11/25/19 23:26	1
1,2-Dichloropropane	1.1	U	1.1	0.47	ug/Kg	☒	11/19/19 02:02	11/25/19 23:26	1
1,3-Dichlorobenzene	1.1	U	1.1	0.17	ug/Kg	☒	11/19/19 02:02	11/25/19 23:26	1
1,4-Dichlorobenzene	1.1	U	1.1	0.25	ug/Kg	☒	11/19/19 02:02	11/25/19 23:26	1
2-Butanone (MEK)	5.5	U	5.5	3.0	ug/Kg	☒	11/19/19 02:02	11/25/19 23:26	1
2-Hexanone	5.5	U	5.5	1.9	ug/Kg	☒	11/19/19 02:02	11/25/19 23:26	1
4-Methyl-2-pentanone (MIBK)	5.5	U	5.5	1.7	ug/Kg	☒	11/19/19 02:02	11/25/19 23:26	1
Acetone	6.6	U	6.6	6.3	ug/Kg	☒	11/19/19 02:02	11/25/19 23:26	1
Benzene	1.1	U	1.1	0.28	ug/Kg	☒	11/19/19 02:02	11/25/19 23:26	1
Bromoform	1.1	U	1.1	0.47	ug/Kg	☒	11/19/19 02:02	11/25/19 23:26	1
Bromomethane	1.1	U	1.1	0.52	ug/Kg	☒	11/19/19 02:02	11/25/19 23:26	1
Carbon disulfide	1.1	U	1.1	0.29	ug/Kg	☒	11/19/19 02:02	11/25/19 23:26	1
Carbon tetrachloride	1.1	U	1.1	0.43	ug/Kg	☒	11/19/19 02:02	11/25/19 23:26	1
Chlorobenzene	1.1	U	1.1	0.19	ug/Kg	☒	11/19/19 02:02	11/25/19 23:26	1
Chlorodibromomethane	1.1	U	1.1	0.21	ug/Kg	☒	11/19/19 02:02	11/25/19 23:26	1
Chloroethane	1.1	U	1.1	0.57	ug/Kg	☒	11/19/19 02:02	11/25/19 23:26	1
Chloroform	1.1	U	1.1	0.35	ug/Kg	☒	11/19/19 02:02	11/25/19 23:26	1
Chloromethane	1.1	U	1.1	0.48	ug/Kg	☒	11/19/19 02:02	11/25/19 23:26	1
cis-1,2-Dichloroethene	1.1	U	1.1	0.17	ug/Kg	☒	11/19/19 02:02	11/25/19 23:26	1
cis-1,3-Dichloropropene	1.1	U	1.1	0.30	ug/Kg	☒	11/19/19 02:02	11/25/19 23:26	1
Cyclohexane	1.1	U	1.1	0.24	ug/Kg	☒	11/19/19 02:02	11/25/19 23:26	1
Dichlorobromomethane	1.1	U	1.1	0.28	ug/Kg	☒	11/19/19 02:02	11/25/19 23:26	1
Dichlorodifluoromethane	1.1	U	1.1	0.37	ug/Kg	☒	11/19/19 02:02	11/25/19 23:26	1
Ethylbenzene	1.1	U	1.1	0.22	ug/Kg	☒	11/19/19 02:02	11/25/19 23:26	1
Ethylene Dibromide	1.1	U	1.1	0.20	ug/Kg	☒	11/19/19 02:02	11/25/19 23:26	1
Isopropylbenzene	1.1	U	1.1	0.14	ug/Kg	☒	11/19/19 02:02	11/25/19 23:26	1
Methyl acetate	5.5	U *	5.5	4.7	ug/Kg	☒	11/19/19 02:02	11/25/19 23:26	1
Methyl tert-butyl ether	1.1	U	1.1	0.14	ug/Kg	☒	11/19/19 02:02	11/25/19 23:26	1
Methylcyclohexane	1.1	U	1.1	0.55	ug/Kg	☒	11/19/19 02:02	11/25/19 23:26	1
Methylene Chloride	0.57	J	1.1	0.51	ug/Kg	☒	11/19/19 02:02	11/25/19 23:26	1
Styrene	1.1	U	1.1	0.31	ug/Kg	☒	11/19/19 02:02	11/25/19 23:26	1
Tetrachloroethene	1.1	U	1.1	0.16	ug/Kg	☒	11/19/19 02:02	11/25/19 23:26	1
Toluene	1.1	U	1.1	0.26	ug/Kg	☒	11/19/19 02:02	11/25/19 23:26	1
trans-1,2-Dichloroethene	1.1	U	1.1	0.27	ug/Kg	☒	11/19/19 02:02	11/25/19 23:26	1
trans-1,3-Dichloropropene	1.1	U	1.1	0.29	ug/Kg	☒	11/19/19 02:02	11/25/19 23:26	1
Trichloroethene	1.1	U	1.1	0.16	ug/Kg	☒	11/19/19 02:02	11/25/19 23:26	1
Trichlorofluoromethane	1.1	U	1.1	0.45	ug/Kg	☒	11/19/19 02:02	11/25/19 23:26	1
Vinyl chloride	1.1	U	1.1	0.60	ug/Kg	☒	11/19/19 02:02	11/25/19 23:26	1
Xylenes, Total	2.2	U	2.2	0.19	ug/Kg	☒	11/19/19 02:02	11/25/19 23:26	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196639-1

Client Sample ID: WSG-C9-COMP-0

Lab Sample ID: 460-196639-28

Date Collected: 11/12/19 09:10

Matrix: Solid

Date Received: 11/15/19 21:07

Percent Solids: 87.8

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	116		78 - 135	11/19/19 02:02	11/25/19 23:26	1
4-Bromofluorobenzene	94		67 - 126	11/19/19 02:02	11/25/19 23:26	1
Dibromofluoromethane (Surr)	91		61 - 149	11/19/19 02:02	11/25/19 23:26	1
Toluene-d8 (Surr)	99		73 - 121	11/19/19 02:02	11/25/19 23:26	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	380	U	380	5.0	ug/Kg	☼	11/17/19 12:36	11/18/19 06:07	1
2,2'-oxybis[1-chloropropane]	380	U	380	6.8	ug/Kg	☼	11/17/19 12:36	11/18/19 06:07	1
2,4,5-Trichlorophenol	380	U	380	38	ug/Kg	☼	11/17/19 12:36	11/18/19 06:07	1
2,4,6-Trichlorophenol	150	U	150	48	ug/Kg	☼	11/17/19 12:36	11/18/19 06:07	1
2,4-Dichlorophenol	150	U	150	24	ug/Kg	☼	11/17/19 12:36	11/18/19 06:07	1
2,4-Dimethylphenol	380	U	380	17	ug/Kg	☼	11/17/19 12:36	11/18/19 06:07	1
2,4-Dinitrophenol	300	U	300	180	ug/Kg	☼	11/17/19 12:36	11/18/19 06:07	1
2,4-Dinitrotoluene	76	U	76	41	ug/Kg	☼	11/17/19 12:36	11/18/19 06:07	1
2,6-Dinitrotoluene	76	U	76	27	ug/Kg	☼	11/17/19 12:36	11/18/19 06:07	1
2-Chloronaphthalene	380	U	380	17	ug/Kg	☼	11/17/19 12:36	11/18/19 06:07	1
2-Chlorophenol	380	U	380	13	ug/Kg	☼	11/17/19 12:36	11/18/19 06:07	1
2-Methylnaphthalene	380	U	380	11	ug/Kg	☼	11/17/19 12:36	11/18/19 06:07	1
2-Methylphenol	380	U	380	14	ug/Kg	☼	11/17/19 12:36	11/18/19 06:07	1
2-Nitroaniline	380	U	380	14	ug/Kg	☼	11/17/19 12:36	11/18/19 06:07	1
2-Nitrophenol	380	U	380	38	ug/Kg	☼	11/17/19 12:36	11/18/19 06:07	1
3,3'-Dichlorobenzidine	150	U	150	57	ug/Kg	☼	11/17/19 12:36	11/18/19 06:07	1
3-Nitroaniline	380	U	380	42	ug/Kg	☼	11/17/19 12:36	11/18/19 06:07	1
4,6-Dinitro-2-methylphenol	300	U	300	61	ug/Kg	☼	11/17/19 12:36	11/18/19 06:07	1
4-Bromophenyl phenyl ether	380	U	380	15	ug/Kg	☼	11/17/19 12:36	11/18/19 06:07	1
4-Chloro-3-methylphenol	380	U	380	21	ug/Kg	☼	11/17/19 12:36	11/18/19 06:07	1
4-Chloroaniline	380	U	380	26	ug/Kg	☼	11/17/19 12:36	11/18/19 06:07	1
4-Chlorophenyl phenyl ether	380	U	380	13	ug/Kg	☼	11/17/19 12:36	11/18/19 06:07	1
4-Methylphenol	380	U	380	24	ug/Kg	☼	11/17/19 12:36	11/18/19 06:07	1
4-Nitroaniline	380	U	380	43	ug/Kg	☼	11/17/19 12:36	11/18/19 06:07	1
4-Nitrophenol	760	U	760	61	ug/Kg	☼	11/17/19 12:36	11/18/19 06:07	1
Acenaphthene	380	U	380	27	ug/Kg	☼	11/17/19 12:36	11/18/19 06:07	1
Acenaphthylene	380	U	380	3.9	ug/Kg	☼	11/17/19 12:36	11/18/19 06:07	1
Acetophenone	380	U	380	18	ug/Kg	☼	11/17/19 12:36	11/18/19 06:07	1
Anthracene	380	U	380	11	ug/Kg	☼	11/17/19 12:36	11/18/19 06:07	1
Atrazine	150	U	150	9.5	ug/Kg	☼	11/17/19 12:36	11/18/19 06:07	1
Benzaldehyde	380	U	380	16	ug/Kg	☼	11/17/19 12:36	11/18/19 06:07	1
Benzo[a]anthracene	38	U	38	13	ug/Kg	☼	11/17/19 12:36	11/18/19 06:07	1
Benzo[a]pyrene	38	U	38	10	ug/Kg	☼	11/17/19 12:36	11/18/19 06:07	1
Benzo[b]fluoranthene	38	U	38	9.7	ug/Kg	☼	11/17/19 12:36	11/18/19 06:07	1
Benzo[g,h,i]perylene	380	U	380	11	ug/Kg	☼	11/17/19 12:36	11/18/19 06:07	1
Benzo[k]fluoranthene	38	U	38	7.4	ug/Kg	☼	11/17/19 12:36	11/18/19 06:07	1
Bis(2-chloroethoxy)methane	380	U	380	29	ug/Kg	☼	11/17/19 12:36	11/18/19 06:07	1
Bis(2-chloroethyl)ether	38	U	38	13	ug/Kg	☼	11/17/19 12:36	11/18/19 06:07	1
Bis(2-ethylhexyl) phthalate	380	U	380	20	ug/Kg	☼	11/17/19 12:36	11/18/19 06:07	1
Butyl benzyl phthalate	380	U	380	18	ug/Kg	☼	11/17/19 12:36	11/18/19 06:07	1
Caprolactam	380	U	380	59	ug/Kg	☼	11/17/19 12:36	11/18/19 06:07	1
Carbazole	380	U	380	14	ug/Kg	☼	11/17/19 12:36	11/18/19 06:07	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196639-1

Client Sample ID: WSG-C9-COMP-0

Lab Sample ID: 460-196639-28

Date Collected: 11/12/19 09:10

Matrix: Solid

Date Received: 11/15/19 21:07

Percent Solids: 87.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	380	U	380	6.4	ug/Kg	☼	11/17/19 12:36	11/18/19 06:07	1
Dibenz(a,h)anthracene	38	U	38	16	ug/Kg	☼	11/17/19 12:36	11/18/19 06:07	1
Dibenzofuran	380	U	380	5.3	ug/Kg	☼	11/17/19 12:36	11/18/19 06:07	1
Diethyl phthalate	380	U	380	5.5	ug/Kg	☼	11/17/19 12:36	11/18/19 06:07	1
Dimethyl phthalate	380	U	380	86	ug/Kg	☼	11/17/19 12:36	11/18/19 06:07	1
Di-n-butyl phthalate	380	U	380	66	ug/Kg	☼	11/17/19 12:36	11/18/19 06:07	1
Di-n-octyl phthalate	380	U	380	20	ug/Kg	☼	11/17/19 12:36	11/18/19 06:07	1
Fluoranthene	380	U	380	13	ug/Kg	☼	11/17/19 12:36	11/18/19 06:07	1
Fluorene	380	U	380	5.1	ug/Kg	☼	11/17/19 12:36	11/18/19 06:07	1
Hexachlorobenzene	38	U	38	18	ug/Kg	☼	11/17/19 12:36	11/18/19 06:07	1
Hexachlorobutadiene	76	U	76	8.0	ug/Kg	☼	11/17/19 12:36	11/18/19 06:07	1
Hexachlorocyclopentadiene	380	U	380	33	ug/Kg	☼	11/17/19 12:36	11/18/19 06:07	1
Hexachloroethane	38	U	38	13	ug/Kg	☼	11/17/19 12:36	11/18/19 06:07	1
Indeno[1,2,3-cd]pyrene	38	U	38	15	ug/Kg	☼	11/17/19 12:36	11/18/19 06:07	1
Isophorone	150	U	150	110	ug/Kg	☼	11/17/19 12:36	11/18/19 06:07	1
Naphthalene	380	U	380	6.5	ug/Kg	☼	11/17/19 12:36	11/18/19 06:07	1
Nitrobenzene	38	U	38	9.0	ug/Kg	☼	11/17/19 12:36	11/18/19 06:07	1
N-Nitrosodi-n-propylamine	38	U	38	27	ug/Kg	☼	11/17/19 12:36	11/18/19 06:07	1
N-Nitrosodiphenylamine	380	U	380	7.2	ug/Kg	☼	11/17/19 12:36	11/18/19 06:07	1
Pentachlorophenol	300	U	300	77	ug/Kg	☼	11/17/19 12:36	11/18/19 06:07	1
Phenanthrene	380	U	380	6.6	ug/Kg	☼	11/17/19 12:36	11/18/19 06:07	1
Phenol	380	U	380	14	ug/Kg	☼	11/17/19 12:36	11/18/19 06:07	1
Pyrene	380	U	380	9.4	ug/Kg	☼	11/17/19 12:36	11/18/19 06:07	1
1,4-Dioxane	110	U	110	10	ug/Kg	☼	11/17/19 12:36	11/18/19 06:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	50		10 - 137	11/17/19 12:36	11/18/19 06:07	1
2-Fluorophenol (Surr)	56		20 - 115	11/17/19 12:36	11/18/19 06:07	1
Nitrobenzene-d5 (Surr)	57		25 - 113	11/17/19 12:36	11/18/19 06:07	1
Terphenyl-d14 (Surr)	61		27 - 123	11/17/19 12:36	11/18/19 06:07	1
Phenol-d5 (Surr)	52		28 - 109	11/17/19 12:36	11/18/19 06:07	1
2-Fluorobiphenyl	49		29 - 107	11/17/19 12:36	11/18/19 06:07	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	7.6	U	7.6	1.3	ug/Kg	☼	11/17/19 08:26	11/19/19 12:23	1
4,4'-DDE	5.3	J	7.6	0.90	ug/Kg	☼	11/17/19 08:26	11/19/19 12:23	1
4,4'-DDT	6.9	J	7.6	1.4	ug/Kg	☼	11/17/19 08:26	11/19/19 12:23	1
Aldrin	7.6	U	7.6	1.2	ug/Kg	☼	11/17/19 08:26	11/19/19 12:23	1
alpha-BHC	2.3	U	2.3	0.77	ug/Kg	☼	11/17/19 08:26	11/19/19 12:23	1
beta-BHC	2.3	U	2.3	0.85	ug/Kg	☼	11/17/19 08:26	11/19/19 12:23	1
Chlordane (technical)	76	U	76	18	ug/Kg	☼	11/17/19 08:26	11/19/19 12:23	1
delta-BHC	2.3	U	2.3	0.47	ug/Kg	☼	11/17/19 08:26	11/19/19 12:23	1
Dieldrin	2.3	U	2.3	0.99	ug/Kg	☼	11/17/19 08:26	11/19/19 12:23	1
Endosulfan I	7.6	U	7.6	1.2	ug/Kg	☼	11/17/19 08:26	11/19/19 12:23	1
Endosulfan II	7.6	U	7.6	2.0	ug/Kg	☼	11/17/19 08:26	11/19/19 12:23	1
Endosulfan sulfate	7.6	U	7.6	0.96	ug/Kg	☼	11/17/19 08:26	11/19/19 12:23	1
Endrin	7.6	U	7.6	1.1	ug/Kg	☼	11/17/19 08:26	11/19/19 12:23	1
Endrin aldehyde	7.6	U	7.6	1.8	ug/Kg	☼	11/17/19 08:26	11/19/19 12:23	1

Eurofins TestAmerica, Edison

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196639-1

Client Sample ID: WSG-C9-COMP-0

Lab Sample ID: 460-196639-28

Date Collected: 11/12/19 09:10

Matrix: Solid

Date Received: 11/15/19 21:07

Percent Solids: 87.8

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endrin ketone	7.6	U	7.6	1.5	ug/Kg	☒	11/17/19 08:26	11/19/19 12:23	1
gamma-BHC (Lindane)	2.3	U	2.3	0.71	ug/Kg	☒	11/17/19 08:26	11/19/19 12:23	1
Heptachlor	7.6	U	7.6	0.90	ug/Kg	☒	11/17/19 08:26	11/19/19 12:23	1
Heptachlor epoxide	7.6	U	7.6	1.1	ug/Kg	☒	11/17/19 08:26	11/19/19 12:23	1
Methoxychlor	7.6	U	7.6	1.7	ug/Kg	☒	11/17/19 08:26	11/19/19 12:23	1
Toxaphene	76	U	76	28	ug/Kg	☒	11/17/19 08:26	11/19/19 12:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	80		49 - 150	11/17/19 08:26	11/19/19 12:23	1
DCB Decachlorobiphenyl	97		49 - 150	11/17/19 08:26	11/19/19 12:23	1
Tetrachloro-m-xylene	83		47 - 150	11/17/19 08:26	11/19/19 12:23	1
Tetrachloro-m-xylene	82		47 - 150	11/17/19 08:26	11/19/19 12:23	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	76	U	76	10	ug/Kg	☒	11/17/19 08:18	11/18/19 15:24	1
Aroclor 1221	76	U	76	10	ug/Kg	☒	11/17/19 08:18	11/18/19 15:24	1
Aroclor 1232	76	U	76	10	ug/Kg	☒	11/17/19 08:18	11/18/19 15:24	1
Aroclor 1242	76	U	76	10	ug/Kg	☒	11/17/19 08:18	11/18/19 15:24	1
Aroclor 1248	76	U	76	10	ug/Kg	☒	11/17/19 08:18	11/18/19 15:24	1
Aroclor 1254	76	U	76	10	ug/Kg	☒	11/17/19 08:18	11/18/19 15:24	1
Aroclor 1260	76	U	76	10	ug/Kg	☒	11/17/19 08:18	11/18/19 15:24	1
Aroclor-1262	76	U	76	10	ug/Kg	☒	11/17/19 08:18	11/18/19 15:24	1
Aroclor 1268	76	U	76	10	ug/Kg	☒	11/17/19 08:18	11/18/19 15:24	1
Polychlorinated biphenyls, Total	76	U	76	10	ug/Kg	☒	11/17/19 08:18	11/18/19 15:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	91		53 - 150	11/17/19 08:18	11/18/19 15:24	1
DCB Decachlorobiphenyl	107		53 - 150	11/17/19 08:18	11/18/19 15:24	1

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	38	U	38	14	ug/Kg	☒	11/20/19 02:56	11/20/19 17:06	1
Silvex (2,4,5-TP)	38	U	38	4.0	ug/Kg	☒	11/20/19 02:56	11/20/19 17:06	1
2,4,5-T	38	U	38	8.1	ug/Kg	☒	11/20/19 02:56	11/20/19 17:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	123		30 - 150	11/20/19 02:56	11/20/19 17:06	1
2,4-Dichlorophenylacetic acid	129		30 - 150	11/20/19 02:56	11/20/19 17:06	1

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	0.22	U	0.22	0.045	ug/Kg	☒	11/21/19 08:35	11/25/19 05:36	1
Perfluoroheptanoic acid (PFHpA)	0.22	U	0.22	0.031	ug/Kg	☒	11/21/19 08:35	11/25/19 05:36	1
Perfluorooctanoic acid (PFOA)	0.22	U	0.22	0.093	ug/Kg	☒	11/21/19 08:35	11/25/19 05:36	1
Perfluorononanoic acid (PFNA)	0.22	U	0.22	0.039	ug/Kg	☒	11/21/19 08:35	11/25/19 05:36	1
Perfluorodecanoic acid (PFDA)	0.22	U	0.22	0.024	ug/Kg	☒	11/21/19 08:35	11/25/19 05:36	1
Perfluoroundecanoic acid (PFUnA)	0.22	U	0.22	0.039	ug/Kg	☒	11/21/19 08:35	11/25/19 05:36	1
Perfluorododecanoic acid (PFDoA)	0.22	U	0.22	0.072	ug/Kg	☒	11/21/19 08:35	11/25/19 05:36	1
Perfluorotridecanoic acid (PFTriA)	0.22	U	0.22	0.055	ug/Kg	☒	11/21/19 08:35	11/25/19 05:36	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196639-1

Client Sample ID: WSG-C9-COMP-0

Lab Sample ID: 460-196639-28

Date Collected: 11/12/19 09:10

Matrix: Solid

Date Received: 11/15/19 21:07

Percent Solids: 87.8

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorotetradecanoic acid (PFTeA)	0.22	U	0.22	0.058	ug/Kg	☼	11/21/19 08:35	11/25/19 05:36	1
Perfluorobutanesulfonic acid (PFBS)	0.22	U	0.22	0.027	ug/Kg	☼	11/21/19 08:35	11/25/19 05:36	1
Perfluorohexanesulfonic acid (PFHxS)	0.22	U	0.22	0.033	ug/Kg	☼	11/21/19 08:35	11/25/19 05:36	1
Perfluorooctanesulfonic acid (PFOS)	0.75	B	0.54	0.22	ug/Kg	☼	11/21/19 08:35	11/25/19 05:36	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.16	U	2.16	0.40	ug/Kg	☼	11/21/19 08:35	11/25/19 05:36	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.16	U	2.16	0.42	ug/Kg	☼	11/21/19 08:35	11/25/19 05:36	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C2 PFHxA	100		25 - 150				11/21/19 08:35	11/25/19 05:36	1
13C4 PFHpA	106		25 - 150				11/21/19 08:35	11/25/19 05:36	1
13C4 PFOA	99		25 - 150				11/21/19 08:35	11/25/19 05:36	1
13C5 PFNA	100		25 - 150				11/21/19 08:35	11/25/19 05:36	1
13C2 PFDA	99		25 - 150				11/21/19 08:35	11/25/19 05:36	1
13C2 PFUnA	107		25 - 150				11/21/19 08:35	11/25/19 05:36	1
13C2 PFDoA	111		25 - 150				11/21/19 08:35	11/25/19 05:36	1
13C2 PFTeDA	102		25 - 150				11/21/19 08:35	11/25/19 05:36	1
18O2 PFHxS	111		25 - 150				11/21/19 08:35	11/25/19 05:36	1
13C4 PFOS	93		25 - 150				11/21/19 08:35	11/25/19 05:36	1
d3-NMeFOSAA	95		25 - 150				11/21/19 08:35	11/25/19 05:36	1
d5-NEtFOSAA	81		25 - 150				11/21/19 08:35	11/25/19 05:36	1

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	13500		32.9	16.1	mg/Kg	☼	11/26/19 04:30	11/26/19 18:20	4
Silver	2.2	U	2.2	0.21	mg/Kg	☼	11/26/19 04:30	11/26/19 18:20	4
Aluminum	10600		43.8	12.4	mg/Kg	☼	11/26/19 04:30	11/26/19 18:20	4
Arsenic	7.5		3.3	1.3	mg/Kg	☼	11/26/19 04:30	11/26/19 18:20	4
Boron	6.0	J	11.0	3.0	mg/Kg	☼	11/26/19 04:30	11/26/19 18:20	4
Barium	25.4	J	43.8	2.4	mg/Kg	☼	11/26/19 04:30	11/26/19 18:20	4
Beryllium	0.53		0.44	0.097	mg/Kg	☼	11/26/19 04:30	11/26/19 18:20	4
Calcium	547	J	1100	64.5	mg/Kg	☼	11/26/19 04:30	11/26/19 18:20	4
Cadmium	0.88	U	0.88	0.15	mg/Kg	☼	11/26/19 04:30	11/26/19 18:20	4
Cobalt	4.1	J	11.0	1.3	mg/Kg	☼	11/26/19 04:30	11/26/19 18:20	4
Chromium	13.6		2.2	0.39	mg/Kg	☼	11/26/19 04:30	11/26/19 18:20	4
Copper	14.2		5.5	2.9	mg/Kg	☼	11/26/19 04:30	11/26/19 18:20	4
Potassium	514	J	1100	68.1	mg/Kg	☼	11/26/19 04:30	11/26/19 18:20	4
Magnesium	1910		1100	63.9	mg/Kg	☼	11/26/19 04:30	11/26/19 18:20	4
Manganese	135		3.3	0.38	mg/Kg	☼	11/26/19 04:30	11/26/19 18:20	4
Molybdenum	4.4	U	4.4	1.0	mg/Kg	☼	11/26/19 04:30	11/26/19 18:20	4
Sodium	1100	U	1100	88.1	mg/Kg	☼	11/26/19 04:30	11/26/19 18:20	4
Nickel	8.4	J	8.8	0.81	mg/Kg	☼	11/26/19 04:30	11/26/19 18:20	4
Lead	14.3		2.2	0.57	mg/Kg	☼	11/26/19 04:30	11/26/19 18:20	4
Antimony	4.4	U	4.4	1.2	mg/Kg	☼	11/26/19 04:30	11/26/19 18:20	4
Selenium	4.4	U	4.4	2.6	mg/Kg	☼	11/26/19 04:30	11/26/19 18:20	4
Tin	11.0	U	11.0	7.1	mg/Kg	☼	11/26/19 04:30	11/26/19 18:20	4
Strontium	3.7	J	4.4	0.44	mg/Kg	☼	11/26/19 04:30	11/26/19 18:20	4
Titanium	560		4.4	0.66	mg/Kg	☼	11/26/19 04:30	11/26/19 18:20	4

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196639-1

Client Sample ID: WSG-C9-COMP-0

Lab Sample ID: 460-196639-28

Date Collected: 11/12/19 09:10

Matrix: Solid

Date Received: 11/15/19 21:07

Percent Solids: 87.8

Method: 6010D - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	4.4	U	4.4	0.70	mg/Kg	☼	11/26/19 04:30	11/26/19 18:20	4
Vanadium	20.5		11.0	0.73	mg/Kg	☼	11/26/19 04:30	11/26/19 18:20	4
Zinc	27.6		6.6	5.1	mg/Kg	☼	11/26/19 04:30	11/26/19 18:20	4

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.016	J	0.018	0.011	mg/Kg	☼	11/25/19 04:23	11/25/19 08:48	1

Client Sample ID: WSG-C12-COMP-0

Lab Sample ID: 460-196639-29

Date Collected: 11/12/19 09:25

Matrix: Solid

Date Received: 11/15/19 21:07

Percent Solids: 84.9

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.1	U	1.1	0.25	ug/Kg	☼	11/19/19 02:03	11/24/19 13:01	1
1,1,2,2-Tetrachloroethane	1.1	U	1.1	0.23	ug/Kg	☼	11/19/19 02:03	11/24/19 13:01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.1	U	1.1	0.32	ug/Kg	☼	11/19/19 02:03	11/24/19 13:01	1
1,1,2-Trichloroethane	1.1	U	1.1	0.19	ug/Kg	☼	11/19/19 02:03	11/24/19 13:01	1
1,1-Dichloroethane	1.1	U	1.1	0.22	ug/Kg	☼	11/19/19 02:03	11/24/19 13:01	1
1,1-Dichloroethene	1.1	U	1.1	0.24	ug/Kg	☼	11/19/19 02:03	11/24/19 13:01	1
1,2,4-Trichlorobenzene	1.1	U	1.1	0.38	ug/Kg	☼	11/19/19 02:03	11/24/19 13:01	1
1,2-Dibromo-3-Chloropropane	1.1	U	1.1	0.49	ug/Kg	☼	11/19/19 02:03	11/24/19 13:01	1
1,2-Dichlorobenzene	1.1	U	1.1	0.15	ug/Kg	☼	11/19/19 02:03	11/24/19 13:01	1
1,2-Dichloroethane	1.1	U	1.1	0.31	ug/Kg	☼	11/19/19 02:03	11/24/19 13:01	1
1,2-Dichloropropane	1.1	U	1.1	0.45	ug/Kg	☼	11/19/19 02:03	11/24/19 13:01	1
1,3-Dichlorobenzene	1.1	U	1.1	0.17	ug/Kg	☼	11/19/19 02:03	11/24/19 13:01	1
1,4-Dichlorobenzene	1.1	U	1.1	0.24	ug/Kg	☼	11/19/19 02:03	11/24/19 13:01	1
2-Butanone (MEK)	5.3	U	5.3	2.9	ug/Kg	☼	11/19/19 02:03	11/24/19 13:01	1
2-Hexanone	5.3	U	5.3	1.8	ug/Kg	☼	11/19/19 02:03	11/24/19 13:01	1
4-Methyl-2-pentanone (MIBK)	5.3	U	5.3	1.6	ug/Kg	☼	11/19/19 02:03	11/24/19 13:01	1
Acetone	6.3	U	6.3	6.0	ug/Kg	☼	11/19/19 02:03	11/24/19 13:01	1
Benzene	1.1	U	1.1	0.27	ug/Kg	☼	11/19/19 02:03	11/24/19 13:01	1
Bromoform	1.1	U	1.1	0.45	ug/Kg	☼	11/19/19 02:03	11/24/19 13:01	1
Bromomethane	1.1	U	1.1	0.50	ug/Kg	☼	11/19/19 02:03	11/24/19 13:01	1
Carbon disulfide	1.1	U	1.1	0.28	ug/Kg	☼	11/19/19 02:03	11/24/19 13:01	1
Carbon tetrachloride	1.1	U	1.1	0.41	ug/Kg	☼	11/19/19 02:03	11/24/19 13:01	1
Chlorobenzene	1.1	U	1.1	0.19	ug/Kg	☼	11/19/19 02:03	11/24/19 13:01	1
Chlorodibromomethane	1.1	U	1.1	0.21	ug/Kg	☼	11/19/19 02:03	11/24/19 13:01	1
Chloroethane	1.1	U	1.1	0.55	ug/Kg	☼	11/19/19 02:03	11/24/19 13:01	1
Chloroform	1.1	U	1.1	0.34	ug/Kg	☼	11/19/19 02:03	11/24/19 13:01	1
Chloromethane	1.1	U	1.1	0.46	ug/Kg	☼	11/19/19 02:03	11/24/19 13:01	1
cis-1,2-Dichloroethene	1.1	U	1.1	0.16	ug/Kg	☼	11/19/19 02:03	11/24/19 13:01	1
cis-1,3-Dichloropropene	1.1	U	1.1	0.29	ug/Kg	☼	11/19/19 02:03	11/24/19 13:01	1
Cyclohexane	1.1	U	1.1	0.23	ug/Kg	☼	11/19/19 02:03	11/24/19 13:01	1
Dichlorobromomethane	1.1	U	1.1	0.27	ug/Kg	☼	11/19/19 02:03	11/24/19 13:01	1
Dichlorodifluoromethane	1.1	U	1.1	0.36	ug/Kg	☼	11/19/19 02:03	11/24/19 13:01	1
Ethylbenzene	1.1	U	1.1	0.21	ug/Kg	☼	11/19/19 02:03	11/24/19 13:01	1
Ethylene Dibromide	1.1	U	1.1	0.19	ug/Kg	☼	11/19/19 02:03	11/24/19 13:01	1
Isopropylbenzene	1.1	U	1.1	0.13	ug/Kg	☼	11/19/19 02:03	11/24/19 13:01	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196639-1

Client Sample ID: WSG-C12-COMP-0

Lab Sample ID: 460-196639-29

Date Collected: 11/12/19 09:25

Matrix: Solid

Date Received: 11/15/19 21:07

Percent Solids: 84.9

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl acetate	5.3	U *	5.3	4.5	ug/Kg	☼	11/19/19 02:03	11/24/19 13:01	1
Methyl tert-butyl ether	1.1	U	1.1	0.13	ug/Kg	☼	11/19/19 02:03	11/24/19 13:01	1
Methylcyclohexane	1.1	U	1.1	0.53	ug/Kg	☼	11/19/19 02:03	11/24/19 13:01	1
Methylene Chloride	1.1		1.1	0.49	ug/Kg	☼	11/19/19 02:03	11/24/19 13:01	1
Styrene	1.1	U	1.1	0.29	ug/Kg	☼	11/19/19 02:03	11/24/19 13:01	1
Tetrachloroethene	1.1	U	1.1	0.15	ug/Kg	☼	11/19/19 02:03	11/24/19 13:01	1
Toluene	1.1	U	1.1	0.25	ug/Kg	☼	11/19/19 02:03	11/24/19 13:01	1
trans-1,2-Dichloroethene	1.1	U	1.1	0.26	ug/Kg	☼	11/19/19 02:03	11/24/19 13:01	1
trans-1,3-Dichloropropene	1.1	U	1.1	0.28	ug/Kg	☼	11/19/19 02:03	11/24/19 13:01	1
Trichloroethene	1.1	U	1.1	0.15	ug/Kg	☼	11/19/19 02:03	11/24/19 13:01	1
Trichlorofluoromethane	1.1	U	1.1	0.43	ug/Kg	☼	11/19/19 02:03	11/24/19 13:01	1
Vinyl chloride	1.1	U	1.1	0.58	ug/Kg	☼	11/19/19 02:03	11/24/19 13:01	1
Xylenes, Total	2.1	U	2.1	0.18	ug/Kg	☼	11/19/19 02:03	11/24/19 13:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		78 - 135	11/19/19 02:03	11/24/19 13:01	1
4-Bromofluorobenzene	99		67 - 126	11/19/19 02:03	11/24/19 13:01	1
Dibromofluoromethane (Surr)	103		61 - 149	11/19/19 02:03	11/24/19 13:01	1
Toluene-d8 (Surr)	98		73 - 121	11/19/19 02:03	11/24/19 13:01	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	390	U	390	5.2	ug/Kg	☼	11/17/19 12:36	11/18/19 06:29	1
2,2'-oxybis[1-chloropropane]	390	U	390	7.0	ug/Kg	☼	11/17/19 12:36	11/18/19 06:29	1
2,4,5-Trichlorophenol	390	U	390	40	ug/Kg	☼	11/17/19 12:36	11/18/19 06:29	1
2,4,6-Trichlorophenol	160	U	160	50	ug/Kg	☼	11/17/19 12:36	11/18/19 06:29	1
2,4-Dichlorophenol	160	U	160	25	ug/Kg	☼	11/17/19 12:36	11/18/19 06:29	1
2,4-Dimethylphenol	390	U	390	17	ug/Kg	☼	11/17/19 12:36	11/18/19 06:29	1
2,4-Dinitrophenol	310	U	310	190	ug/Kg	☼	11/17/19 12:36	11/18/19 06:29	1
2,4-Dinitrotoluene	79	U	79	42	ug/Kg	☼	11/17/19 12:36	11/18/19 06:29	1
2,6-Dinitrotoluene	79	U	79	28	ug/Kg	☼	11/17/19 12:36	11/18/19 06:29	1
2-Chloronaphthalene	390	U	390	18	ug/Kg	☼	11/17/19 12:36	11/18/19 06:29	1
2-Chlorophenol	390	U	390	14	ug/Kg	☼	11/17/19 12:36	11/18/19 06:29	1
2-Methylnaphthalene	390	U	390	11	ug/Kg	☼	11/17/19 12:36	11/18/19 06:29	1
2-Methylphenol	390	U	390	15	ug/Kg	☼	11/17/19 12:36	11/18/19 06:29	1
2-Nitroaniline	390	U	390	15	ug/Kg	☼	11/17/19 12:36	11/18/19 06:29	1
2-Nitrophenol	390	U	390	39	ug/Kg	☼	11/17/19 12:36	11/18/19 06:29	1
3,3'-Dichlorobenzidine	160	U	160	59	ug/Kg	☼	11/17/19 12:36	11/18/19 06:29	1
3-Nitroaniline	390	U	390	44	ug/Kg	☼	11/17/19 12:36	11/18/19 06:29	1
4,6-Dinitro-2-methylphenol	310	U	310	63	ug/Kg	☼	11/17/19 12:36	11/18/19 06:29	1
4-Bromophenyl phenyl ether	390	U	390	15	ug/Kg	☼	11/17/19 12:36	11/18/19 06:29	1
4-Chloro-3-methylphenol	390	U	390	22	ug/Kg	☼	11/17/19 12:36	11/18/19 06:29	1
4-Chloroaniline	390	U	390	27	ug/Kg	☼	11/17/19 12:36	11/18/19 06:29	1
4-Chlorophenyl phenyl ether	390	U	390	14	ug/Kg	☼	11/17/19 12:36	11/18/19 06:29	1
4-Methylphenol	390	U	390	24	ug/Kg	☼	11/17/19 12:36	11/18/19 06:29	1
4-Nitroaniline	390	U	390	45	ug/Kg	☼	11/17/19 12:36	11/18/19 06:29	1
4-Nitrophenol	790	U	790	63	ug/Kg	☼	11/17/19 12:36	11/18/19 06:29	1
Acenaphthene	390	U	390	28	ug/Kg	☼	11/17/19 12:36	11/18/19 06:29	1
Acenaphthylene	390	U	390	4.0	ug/Kg	☼	11/17/19 12:36	11/18/19 06:29	1

Eurofins TestAmerica, Edison

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196639-1

Client Sample ID: WSG-C12-COMP-0

Lab Sample ID: 460-196639-29

Date Collected: 11/12/19 09:25

Matrix: Solid

Date Received: 11/15/19 21:07

Percent Solids: 84.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetophenone	390	U	390	19	ug/Kg	☼	11/17/19 12:36	11/18/19 06:29	1
Anthracene	390	U	390	12	ug/Kg	☼	11/17/19 12:36	11/18/19 06:29	1
Atrazine	160	U	160	9.8	ug/Kg	☼	11/17/19 12:36	11/18/19 06:29	1
Benzaldehyde	390	U	390	17	ug/Kg	☼	11/17/19 12:36	11/18/19 06:29	1
Benzo[a]anthracene	14	J	39	14	ug/Kg	☼	11/17/19 12:36	11/18/19 06:29	1
Benzo[a]pyrene	39	U	39	10	ug/Kg	☼	11/17/19 12:36	11/18/19 06:29	1
Benzo[b]fluoranthene	39	U	39	10	ug/Kg	☼	11/17/19 12:36	11/18/19 06:29	1
Benzo[g,h,i]perylene	390	U	390	11	ug/Kg	☼	11/17/19 12:36	11/18/19 06:29	1
Benzo[k]fluoranthene	39	U	39	7.6	ug/Kg	☼	11/17/19 12:36	11/18/19 06:29	1
Bis(2-chloroethoxy)methane	390	U	390	30	ug/Kg	☼	11/17/19 12:36	11/18/19 06:29	1
Bis(2-chloroethyl)ether	39	U	39	14	ug/Kg	☼	11/17/19 12:36	11/18/19 06:29	1
Bis(2-ethylhexyl) phthalate	390	U	390	21	ug/Kg	☼	11/17/19 12:36	11/18/19 06:29	1
Butyl benzyl phthalate	390	U	390	18	ug/Kg	☼	11/17/19 12:36	11/18/19 06:29	1
Caprolactam	390	U	390	61	ug/Kg	☼	11/17/19 12:36	11/18/19 06:29	1
Carbazole	390	U	390	15	ug/Kg	☼	11/17/19 12:36	11/18/19 06:29	1
Chrysene	390	U	390	6.6	ug/Kg	☼	11/17/19 12:36	11/18/19 06:29	1
Dibenz(a,h)anthracene	39	U	39	17	ug/Kg	☼	11/17/19 12:36	11/18/19 06:29	1
Dibenzofuran	390	U	390	5.5	ug/Kg	☼	11/17/19 12:36	11/18/19 06:29	1
Diethyl phthalate	390	U	390	5.6	ug/Kg	☼	11/17/19 12:36	11/18/19 06:29	1
Dimethyl phthalate	390	U	390	88	ug/Kg	☼	11/17/19 12:36	11/18/19 06:29	1
Di-n-butyl phthalate	390	U	390	69	ug/Kg	☼	11/17/19 12:36	11/18/19 06:29	1
Di-n-octyl phthalate	390	U	390	21	ug/Kg	☼	11/17/19 12:36	11/18/19 06:29	1
Fluoranthene	390	U	390	14	ug/Kg	☼	11/17/19 12:36	11/18/19 06:29	1
Fluorene	390	U	390	5.3	ug/Kg	☼	11/17/19 12:36	11/18/19 06:29	1
Hexachlorobenzene	39	U	39	18	ug/Kg	☼	11/17/19 12:36	11/18/19 06:29	1
Hexachlorobutadiene	79	U	79	8.3	ug/Kg	☼	11/17/19 12:36	11/18/19 06:29	1
Hexachlorocyclopentadiene	390	U	390	34	ug/Kg	☼	11/17/19 12:36	11/18/19 06:29	1
Hexachloroethane	39	U	39	13	ug/Kg	☼	11/17/19 12:36	11/18/19 06:29	1
Indeno[1,2,3-cd]pyrene	39	U	39	15	ug/Kg	☼	11/17/19 12:36	11/18/19 06:29	1
Isophorone	160	U	160	110	ug/Kg	☼	11/17/19 12:36	11/18/19 06:29	1
Naphthalene	390	U	390	6.7	ug/Kg	☼	11/17/19 12:36	11/18/19 06:29	1
Nitrobenzene	39	U	39	9.3	ug/Kg	☼	11/17/19 12:36	11/18/19 06:29	1
N-Nitrosodi-n-propylamine	39	U	39	28	ug/Kg	☼	11/17/19 12:36	11/18/19 06:29	1
N-Nitrosodiphenylamine	390	U	390	7.4	ug/Kg	☼	11/17/19 12:36	11/18/19 06:29	1
Pentachlorophenol	310	U	310	80	ug/Kg	☼	11/17/19 12:36	11/18/19 06:29	1
Phenanthrene	390	U	390	6.8	ug/Kg	☼	11/17/19 12:36	11/18/19 06:29	1
Phenol	390	U	390	14	ug/Kg	☼	11/17/19 12:36	11/18/19 06:29	1
Pyrene	390	U	390	9.7	ug/Kg	☼	11/17/19 12:36	11/18/19 06:29	1
1,4-Dioxane	120	U	120	11	ug/Kg	☼	11/17/19 12:36	11/18/19 06:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	54		10 - 137	11/17/19 12:36	11/18/19 06:29	1
2-Fluorophenol (Surr)	58		20 - 115	11/17/19 12:36	11/18/19 06:29	1
Nitrobenzene-d5 (Surr)	57		25 - 113	11/17/19 12:36	11/18/19 06:29	1
Terphenyl-d14 (Surr)	66		27 - 123	11/17/19 12:36	11/18/19 06:29	1
Phenol-d5 (Surr)	54		28 - 109	11/17/19 12:36	11/18/19 06:29	1
2-Fluorobiphenyl	53		29 - 107	11/17/19 12:36	11/18/19 06:29	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196639-1

Client Sample ID: WSG-C12-COMP-0

Lab Sample ID: 460-196639-29

Date Collected: 11/12/19 09:25

Matrix: Solid

Date Received: 11/15/19 21:07

Percent Solids: 84.9

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	7.9	U	7.9	1.3	ug/Kg	☒	11/17/19 08:26	11/20/19 05:40	1
4,4'-DDE	30		7.9	0.93	ug/Kg	☒	11/17/19 08:26	11/20/19 05:40	1
4,4'-DDT	26		7.9	1.4	ug/Kg	☒	11/17/19 08:26	11/20/19 05:40	1
Aldrin	7.9	U	7.9	1.2	ug/Kg	☒	11/17/19 08:26	11/20/19 05:40	1
alpha-BHC	2.4	U	2.4	0.80	ug/Kg	☒	11/17/19 08:26	11/20/19 05:40	1
beta-BHC	2.4	U	2.4	0.88	ug/Kg	☒	11/17/19 08:26	11/20/19 05:40	1
Chlordane (technical)	79	U	79	19	ug/Kg	☒	11/17/19 08:26	11/20/19 05:40	1
delta-BHC	2.4	U	2.4	0.48	ug/Kg	☒	11/17/19 08:26	11/20/19 05:40	1
Dieldrin	5.2		2.4	1.0	ug/Kg	☒	11/17/19 08:26	11/20/19 05:40	1
Endosulfan I	7.9	U	7.9	1.2	ug/Kg	☒	11/17/19 08:26	11/20/19 05:40	1
Endosulfan II	7.9	U	7.9	2.0	ug/Kg	☒	11/17/19 08:26	11/20/19 05:40	1
Endosulfan sulfate	7.9	U	7.9	0.99	ug/Kg	☒	11/17/19 08:26	11/20/19 05:40	1
Endrin	7.9	U	7.9	1.1	ug/Kg	☒	11/17/19 08:26	11/20/19 05:40	1
Endrin aldehyde	7.9	U	7.9	1.9	ug/Kg	☒	11/17/19 08:26	11/20/19 05:40	1
Endrin ketone	7.9	U	7.9	1.5	ug/Kg	☒	11/17/19 08:26	11/20/19 05:40	1
gamma-BHC (Lindane)	2.4	U	2.4	0.73	ug/Kg	☒	11/17/19 08:26	11/20/19 05:40	1
Heptachlor	7.9	U	7.9	0.93	ug/Kg	☒	11/17/19 08:26	11/20/19 05:40	1
Heptachlor epoxide	7.9	U	7.9	1.2	ug/Kg	☒	11/17/19 08:26	11/20/19 05:40	1
Methoxychlor	7.9	U	7.9	1.8	ug/Kg	☒	11/17/19 08:26	11/20/19 05:40	1
Toxaphene	79	U	79	28	ug/Kg	☒	11/17/19 08:26	11/20/19 05:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	151	*	49 - 150	11/17/19 08:26	11/20/19 05:40	1
DCB Decachlorobiphenyl	200	*	49 - 150	11/17/19 08:26	11/20/19 05:40	1
Tetrachloro-m-xylene	148		47 - 150	11/17/19 08:26	11/20/19 05:40	1
Tetrachloro-m-xylene	147		47 - 150	11/17/19 08:26	11/20/19 05:40	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	79	U	79	10	ug/Kg	☒	11/17/19 08:18	11/18/19 15:41	1
Aroclor 1221	79	U	79	10	ug/Kg	☒	11/17/19 08:18	11/18/19 15:41	1
Aroclor 1232	79	U	79	10	ug/Kg	☒	11/17/19 08:18	11/18/19 15:41	1
Aroclor 1242	79	U	79	10	ug/Kg	☒	11/17/19 08:18	11/18/19 15:41	1
Aroclor 1248	79	U	79	10	ug/Kg	☒	11/17/19 08:18	11/18/19 15:41	1
Aroclor 1254	79	U	79	11	ug/Kg	☒	11/17/19 08:18	11/18/19 15:41	1
Aroclor 1260	79	U	79	11	ug/Kg	☒	11/17/19 08:18	11/18/19 15:41	1
Aroclor-1262	79	U	79	11	ug/Kg	☒	11/17/19 08:18	11/18/19 15:41	1
Aroclor 1268	79	U	79	11	ug/Kg	☒	11/17/19 08:18	11/18/19 15:41	1
Polychlorinated biphenyls, Total	79	U	79	11	ug/Kg	☒	11/17/19 08:18	11/18/19 15:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	142		53 - 150	11/17/19 08:18	11/18/19 15:41	1
DCB Decachlorobiphenyl	156	*	53 - 150	11/17/19 08:18	11/18/19 15:41	1

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	39	U	39	14	ug/Kg	☒	11/20/19 02:56	11/20/19 17:47	1
Silvex (2,4,5-TP)	39	U	39	4.1	ug/Kg	☒	11/20/19 02:56	11/20/19 17:47	1
2,4,5-T	39	U	39	8.3	ug/Kg	☒	11/20/19 02:56	11/20/19 17:47	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196639-1

Client Sample ID: WSG-C12-COMP-0

Lab Sample ID: 460-196639-29

Date Collected: 11/12/19 09:25

Matrix: Solid

Date Received: 11/15/19 21:07

Percent Solids: 84.9

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	120		30 - 150	11/20/19 02:56	11/20/19 17:47	1
2,4-Dichlorophenylacetic acid	125		30 - 150	11/20/19 02:56	11/20/19 17:47	1

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	0.23	U	0.23	0.048	ug/Kg	☼	11/21/19 08:35	11/25/19 05:45	1
Perfluoroheptanoic acid (PFHpA)	0.23	U	0.23	0.033	ug/Kg	☼	11/21/19 08:35	11/25/19 05:45	1
Perfluorooctanoic acid (PFOA)	0.23	U	0.23	0.099	ug/Kg	☼	11/21/19 08:35	11/25/19 05:45	1
Perfluorononanoic acid (PFNA)	0.048	J	0.23	0.041	ug/Kg	☼	11/21/19 08:35	11/25/19 05:45	1
Perfluorodecanoic acid (PFDA)	0.15	J	0.23	0.025	ug/Kg	☼	11/21/19 08:35	11/25/19 05:45	1
Perfluoroundecanoic acid (PFUnA)	0.043	J	0.23	0.041	ug/Kg	☼	11/21/19 08:35	11/25/19 05:45	1
Perfluorododecanoic acid (PFDoA)	0.23	U	0.23	0.077	ug/Kg	☼	11/21/19 08:35	11/25/19 05:45	1
Perfluorotridecanoic acid (PFTriA)	0.23	U	0.23	0.059	ug/Kg	☼	11/21/19 08:35	11/25/19 05:45	1
Perfluorotetradecanoic acid (PFTeA)	0.23	U	0.23	0.062	ug/Kg	☼	11/21/19 08:35	11/25/19 05:45	1
Perfluorobutanesulfonic acid (PFBS)	0.23	U	0.23	0.029	ug/Kg	☼	11/21/19 08:35	11/25/19 05:45	1
Perfluorohexanesulfonic acid (PFHxS)	0.23	U	0.23	0.036	ug/Kg	☼	11/21/19 08:35	11/25/19 05:45	1
Perfluorooctanesulfonic acid (PFOS)	0.58	B	0.58	0.23	ug/Kg	☼	11/21/19 08:35	11/25/19 05:45	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.30	U	2.30	0.43	ug/Kg	☼	11/21/19 08:35	11/25/19 05:45	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.30	U	2.30	0.45	ug/Kg	☼	11/21/19 08:35	11/25/19 05:45	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFHxA	97		25 - 150	11/21/19 08:35	11/25/19 05:45	1
13C4 PFHpA	101		25 - 150	11/21/19 08:35	11/25/19 05:45	1
13C4 PFOA	101		25 - 150	11/21/19 08:35	11/25/19 05:45	1
13C5 PFNA	95		25 - 150	11/21/19 08:35	11/25/19 05:45	1
13C2 PFDA	96		25 - 150	11/21/19 08:35	11/25/19 05:45	1
13C2 PFUnA	104		25 - 150	11/21/19 08:35	11/25/19 05:45	1
13C2 PFDoA	106		25 - 150	11/21/19 08:35	11/25/19 05:45	1
13C2 PFTeDA	93		25 - 150	11/21/19 08:35	11/25/19 05:45	1
18O2 PFHxS	109		25 - 150	11/21/19 08:35	11/25/19 05:45	1
13C4 PFOS	89		25 - 150	11/21/19 08:35	11/25/19 05:45	1
d3-NMeFOSAA	90		25 - 150	11/21/19 08:35	11/25/19 05:45	1
d5-NEtFOSAA	88		25 - 150	11/21/19 08:35	11/25/19 05:45	1

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	9250		32.4	15.9	mg/Kg	☼	11/26/19 04:30	11/26/19 18:24	4
Silver	2.2	U	2.2	0.20	mg/Kg	☼	11/26/19 04:30	11/26/19 18:24	4
Aluminum	7890		43.2	12.2	mg/Kg	☼	11/26/19 04:30	11/26/19 18:24	4
Arsenic	4.8		3.2	1.3	mg/Kg	☼	11/26/19 04:30	11/26/19 18:24	4
Boron	5.7	J	10.8	3.0	mg/Kg	☼	11/26/19 04:30	11/26/19 18:24	4
Barium	19.6	J	43.2	2.4	mg/Kg	☼	11/26/19 04:30	11/26/19 18:24	4
Beryllium	0.33	J	0.43	0.096	mg/Kg	☼	11/26/19 04:30	11/26/19 18:24	4
Calcium	966	J	1080	63.6	mg/Kg	☼	11/26/19 04:30	11/26/19 18:24	4
Cadmium	0.86	U	0.86	0.15	mg/Kg	☼	11/26/19 04:30	11/26/19 18:24	4
Cobalt	2.5	J	10.8	1.3	mg/Kg	☼	11/26/19 04:30	11/26/19 18:24	4
Chromium	9.4		2.2	0.38	mg/Kg	☼	11/26/19 04:30	11/26/19 18:24	4

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196639-1

Client Sample ID: WSG-C12-COMP-0

Lab Sample ID: 460-196639-29

Date Collected: 11/12/19 09:25

Matrix: Solid

Date Received: 11/15/19 21:07

Percent Solids: 84.9

Method: 6010D - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	10.5		5.4	2.9	mg/Kg	☼	11/26/19 04:30	11/26/19 18:24	4
Potassium	363	J	1080	67.2	mg/Kg	☼	11/26/19 04:30	11/26/19 18:24	4
Magnesium	1310		1080	63.0	mg/Kg	☼	11/26/19 04:30	11/26/19 18:24	4
Manganese	99.7		3.2	0.38	mg/Kg	☼	11/26/19 04:30	11/26/19 18:24	4
Molybdenum	4.3	U	4.3	1.0	mg/Kg	☼	11/26/19 04:30	11/26/19 18:24	4
Sodium	1080	U	1080	86.9	mg/Kg	☼	11/26/19 04:30	11/26/19 18:24	4
Nickel	5.4	J	8.6	0.79	mg/Kg	☼	11/26/19 04:30	11/26/19 18:24	4
Lead	9.6		2.2	0.56	mg/Kg	☼	11/26/19 04:30	11/26/19 18:24	4
Antimony	4.3	U	4.3	1.1	mg/Kg	☼	11/26/19 04:30	11/26/19 18:24	4
Selenium	4.3	U	4.3	2.6	mg/Kg	☼	11/26/19 04:30	11/26/19 18:24	4
Tin	10.8	U	10.8	7.0	mg/Kg	☼	11/26/19 04:30	11/26/19 18:24	4
Strontium	5.2		4.3	0.43	mg/Kg	☼	11/26/19 04:30	11/26/19 18:24	4
Titanium	386		4.3	0.65	mg/Kg	☼	11/26/19 04:30	11/26/19 18:24	4
Thallium	4.3	U	4.3	0.69	mg/Kg	☼	11/26/19 04:30	11/26/19 18:24	4
Vanadium	15.0		10.8	0.72	mg/Kg	☼	11/26/19 04:30	11/26/19 18:24	4
Zinc	20.3		6.5	5.0	mg/Kg	☼	11/26/19 04:30	11/26/19 18:24	4

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.031		0.019	0.011	mg/Kg	☼	11/25/19 04:23	11/25/19 08:53	1

Client Sample ID: WSG-C12-COMP-1

Lab Sample ID: 460-196639-30

Date Collected: 11/12/19 09:25

Matrix: Solid

Date Received: 11/15/19 21:07

Percent Solids: 84.7

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.2	U	1.2	0.29	ug/Kg	☼	11/19/19 02:04	11/24/19 13:25	1
1,1,2,2-Tetrachloroethane	1.2	U	1.2	0.26	ug/Kg	☼	11/19/19 02:04	11/24/19 13:25	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.2	U	1.2	0.37	ug/Kg	☼	11/19/19 02:04	11/24/19 13:25	1
1,1,2-Trichloroethane	1.2	U	1.2	0.22	ug/Kg	☼	11/19/19 02:04	11/24/19 13:25	1
1,1-Dichloroethane	1.2	U	1.2	0.25	ug/Kg	☼	11/19/19 02:04	11/24/19 13:25	1
1,1-Dichloroethene	1.2	U	1.2	0.28	ug/Kg	☼	11/19/19 02:04	11/24/19 13:25	1
1,2,4-Trichlorobenzene	1.2	U	1.2	0.44	ug/Kg	☼	11/19/19 02:04	11/24/19 13:25	1
1,2-Dibromo-3-Chloropropane	1.2	U	1.2	0.57	ug/Kg	☼	11/19/19 02:04	11/24/19 13:25	1
1,2-Dichlorobenzene	1.2	U	1.2	0.18	ug/Kg	☼	11/19/19 02:04	11/24/19 13:25	1
1,2-Dichloroethane	1.2	U	1.2	0.36	ug/Kg	☼	11/19/19 02:04	11/24/19 13:25	1
1,2-Dichloropropane	1.2	U	1.2	0.52	ug/Kg	☼	11/19/19 02:04	11/24/19 13:25	1
1,3-Dichlorobenzene	1.2	U	1.2	0.20	ug/Kg	☼	11/19/19 02:04	11/24/19 13:25	1
1,4-Dichlorobenzene	1.2	U	1.2	0.28	ug/Kg	☼	11/19/19 02:04	11/24/19 13:25	1
2-Butanone (MEK)	6.2	U	6.2	3.3	ug/Kg	☼	11/19/19 02:04	11/24/19 13:25	1
2-Hexanone	6.2	U	6.2	2.1	ug/Kg	☼	11/19/19 02:04	11/24/19 13:25	1
4-Methyl-2-pentanone (MIBK)	6.2	U	6.2	1.9	ug/Kg	☼	11/19/19 02:04	11/24/19 13:25	1
Acetone	7.4	U	7.4	7.0	ug/Kg	☼	11/19/19 02:04	11/24/19 13:25	1
Benzene	1.2	U	1.2	0.32	ug/Kg	☼	11/19/19 02:04	11/24/19 13:25	1
Bromoform	1.2	U	1.2	0.52	ug/Kg	☼	11/19/19 02:04	11/24/19 13:25	1
Bromomethane	1.2	U	1.2	0.58	ug/Kg	☼	11/19/19 02:04	11/24/19 13:25	1
Carbon disulfide	1.2	U	1.2	0.33	ug/Kg	☼	11/19/19 02:04	11/24/19 13:25	1
Carbon tetrachloride	1.2	U	1.2	0.48	ug/Kg	☼	11/19/19 02:04	11/24/19 13:25	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196639-1

Client Sample ID: WSG-C12-COMP-1

Lab Sample ID: 460-196639-30

Date Collected: 11/12/19 09:25

Matrix: Solid

Date Received: 11/15/19 21:07

Percent Solids: 84.7

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	1.2	U	1.2	0.22	ug/Kg	☼	11/19/19 02:04	11/24/19 13:25	1
Chlorodibromomethane	1.2	U	1.2	0.24	ug/Kg	☼	11/19/19 02:04	11/24/19 13:25	1
Chloroethane	1.2	U	1.2	0.64	ug/Kg	☼	11/19/19 02:04	11/24/19 13:25	1
Chloroform	1.2	U	1.2	0.39	ug/Kg	☼	11/19/19 02:04	11/24/19 13:25	1
Chloromethane	1.2	U	1.2	0.54	ug/Kg	☼	11/19/19 02:04	11/24/19 13:25	1
cis-1,2-Dichloroethene	1.2	U	1.2	0.19	ug/Kg	☼	11/19/19 02:04	11/24/19 13:25	1
cis-1,3-Dichloropropene	1.2	U	1.2	0.34	ug/Kg	☼	11/19/19 02:04	11/24/19 13:25	1
Cyclohexane	1.2	U	1.2	0.27	ug/Kg	☼	11/19/19 02:04	11/24/19 13:25	1
Dichlorobromomethane	1.2	U	1.2	0.32	ug/Kg	☼	11/19/19 02:04	11/24/19 13:25	1
Dichlorodifluoromethane	1.2	U	1.2	0.42	ug/Kg	☼	11/19/19 02:04	11/24/19 13:25	1
Ethylbenzene	1.2	U	1.2	0.25	ug/Kg	☼	11/19/19 02:04	11/24/19 13:25	1
Ethylene Dibromide	1.2	U	1.2	0.22	ug/Kg	☼	11/19/19 02:04	11/24/19 13:25	1
Isopropylbenzene	1.2	U	1.2	0.16	ug/Kg	☼	11/19/19 02:04	11/24/19 13:25	1
Methyl acetate	6.2	U *	6.2	5.3	ug/Kg	☼	11/19/19 02:04	11/24/19 13:25	1
Methyl tert-butyl ether	1.2	U	1.2	0.15	ug/Kg	☼	11/19/19 02:04	11/24/19 13:25	1
Methylcyclohexane	1.2	U	1.2	0.62	ug/Kg	☼	11/19/19 02:04	11/24/19 13:25	1
Methylene Chloride	0.78	J	1.2	0.57	ug/Kg	☼	11/19/19 02:04	11/24/19 13:25	1
Styrene	1.2	U	1.2	0.34	ug/Kg	☼	11/19/19 02:04	11/24/19 13:25	1
Tetrachloroethene	1.2	U	1.2	0.18	ug/Kg	☼	11/19/19 02:04	11/24/19 13:25	1
Toluene	1.2	U	1.2	0.29	ug/Kg	☼	11/19/19 02:04	11/24/19 13:25	1
trans-1,2-Dichloroethene	1.2	U	1.2	0.30	ug/Kg	☼	11/19/19 02:04	11/24/19 13:25	1
trans-1,3-Dichloropropene	1.2	U	1.2	0.33	ug/Kg	☼	11/19/19 02:04	11/24/19 13:25	1
Trichloroethene	1.2	U	1.2	0.18	ug/Kg	☼	11/19/19 02:04	11/24/19 13:25	1
Trichlorofluoromethane	1.2	U	1.2	0.50	ug/Kg	☼	11/19/19 02:04	11/24/19 13:25	1
Vinyl chloride	1.2	U	1.2	0.67	ug/Kg	☼	11/19/19 02:04	11/24/19 13:25	1
Xylenes, Total	2.5	U	2.5	0.21	ug/Kg	☼	11/19/19 02:04	11/24/19 13:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	116		78 - 135	11/19/19 02:04	11/24/19 13:25	1
4-Bromofluorobenzene	94		67 - 126	11/19/19 02:04	11/24/19 13:25	1
Dibromofluoromethane (Surr)	108		61 - 149	11/19/19 02:04	11/24/19 13:25	1
Toluene-d8 (Surr)	101		73 - 121	11/19/19 02:04	11/24/19 13:25	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	390	U	390	5.2	ug/Kg	☼	11/17/19 12:36	11/18/19 06:53	1
2,2'-oxybis[1-chloropropane]	390	U	390	7.1	ug/Kg	☼	11/17/19 12:36	11/18/19 06:53	1
2,4,5-Trichlorophenol	390	U	390	40	ug/Kg	☼	11/17/19 12:36	11/18/19 06:53	1
2,4,6-Trichlorophenol	160	U	160	50	ug/Kg	☼	11/17/19 12:36	11/18/19 06:53	1
2,4-Dichlorophenol	160	U	160	25	ug/Kg	☼	11/17/19 12:36	11/18/19 06:53	1
2,4-Dimethylphenol	390	U	390	17	ug/Kg	☼	11/17/19 12:36	11/18/19 06:53	1
2,4-Dinitrophenol	310	U	310	190	ug/Kg	☼	11/17/19 12:36	11/18/19 06:53	1
2,4-Dinitrotoluene	79	U	79	42	ug/Kg	☼	11/17/19 12:36	11/18/19 06:53	1
2,6-Dinitrotoluene	79	U	79	28	ug/Kg	☼	11/17/19 12:36	11/18/19 06:53	1
2-Chloronaphthalene	390	U	390	18	ug/Kg	☼	11/17/19 12:36	11/18/19 06:53	1
2-Chlorophenol	390	U	390	14	ug/Kg	☼	11/17/19 12:36	11/18/19 06:53	1
2-Methylnaphthalene	390	U	390	11	ug/Kg	☼	11/17/19 12:36	11/18/19 06:53	1
2-Methylphenol	390	U	390	15	ug/Kg	☼	11/17/19 12:36	11/18/19 06:53	1
2-Nitroaniline	390	U	390	15	ug/Kg	☼	11/17/19 12:36	11/18/19 06:53	1

Eurofins TestAmerica, Edison

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196639-1

Client Sample ID: WSG-C12-COMP-1

Lab Sample ID: 460-196639-30

Date Collected: 11/12/19 09:25

Matrix: Solid

Date Received: 11/15/19 21:07

Percent Solids: 84.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Nitrophenol	390	U	390	39	ug/Kg	☒	11/17/19 12:36	11/18/19 06:53	1
3,3'-Dichlorobenzidine	160	U	160	59	ug/Kg	☒	11/17/19 12:36	11/18/19 06:53	1
3-Nitroaniline	390	U	390	44	ug/Kg	☒	11/17/19 12:36	11/18/19 06:53	1
4,6-Dinitro-2-methylphenol	310	U	310	63	ug/Kg	☒	11/17/19 12:36	11/18/19 06:53	1
4-Bromophenyl phenyl ether	390	U	390	15	ug/Kg	☒	11/17/19 12:36	11/18/19 06:53	1
4-Chloro-3-methylphenol	390	U	390	22	ug/Kg	☒	11/17/19 12:36	11/18/19 06:53	1
4-Chloroaniline	390	U	390	27	ug/Kg	☒	11/17/19 12:36	11/18/19 06:53	1
4-Chlorophenyl phenyl ether	390	U	390	14	ug/Kg	☒	11/17/19 12:36	11/18/19 06:53	1
4-Methylphenol	390	U	390	24	ug/Kg	☒	11/17/19 12:36	11/18/19 06:53	1
4-Nitroaniline	390	U	390	45	ug/Kg	☒	11/17/19 12:36	11/18/19 06:53	1
4-Nitrophenol	790	U	790	64	ug/Kg	☒	11/17/19 12:36	11/18/19 06:53	1
Acenaphthene	390	U	390	28	ug/Kg	☒	11/17/19 12:36	11/18/19 06:53	1
Acenaphthylene	390	U	390	4.0	ug/Kg	☒	11/17/19 12:36	11/18/19 06:53	1
Acetophenone	390	U	390	19	ug/Kg	☒	11/17/19 12:36	11/18/19 06:53	1
Anthracene	390	U	390	12	ug/Kg	☒	11/17/19 12:36	11/18/19 06:53	1
Atrazine	160	U	160	9.8	ug/Kg	☒	11/17/19 12:36	11/18/19 06:53	1
Benzaldehyde	390	U	390	17	ug/Kg	☒	11/17/19 12:36	11/18/19 06:53	1
Benzo[a]anthracene	39	U	39	14	ug/Kg	☒	11/17/19 12:36	11/18/19 06:53	1
Benzo[a]pyrene	39	U	39	10	ug/Kg	☒	11/17/19 12:36	11/18/19 06:53	1
Benzo[b]fluoranthene	39	U	39	10	ug/Kg	☒	11/17/19 12:36	11/18/19 06:53	1
Benzo[g,h,i]perylene	390	U	390	12	ug/Kg	☒	11/17/19 12:36	11/18/19 06:53	1
Benzo[k]fluoranthene	39	U	39	7.7	ug/Kg	☒	11/17/19 12:36	11/18/19 06:53	1
Bis(2-chloroethoxy)methane	390	U	390	30	ug/Kg	☒	11/17/19 12:36	11/18/19 06:53	1
Bis(2-chloroethyl)ether	39	U	39	14	ug/Kg	☒	11/17/19 12:36	11/18/19 06:53	1
Bis(2-ethylhexyl) phthalate	390	U	390	21	ug/Kg	☒	11/17/19 12:36	11/18/19 06:53	1
Butyl benzyl phthalate	390	U	390	18	ug/Kg	☒	11/17/19 12:36	11/18/19 06:53	1
Caprolactam	390	U	390	61	ug/Kg	☒	11/17/19 12:36	11/18/19 06:53	1
Carbazole	390	U	390	15	ug/Kg	☒	11/17/19 12:36	11/18/19 06:53	1
Chrysene	390	U	390	6.6	ug/Kg	☒	11/17/19 12:36	11/18/19 06:53	1
Dibenz(a,h)anthracene	39	U	39	17	ug/Kg	☒	11/17/19 12:36	11/18/19 06:53	1
Dibenzofuran	390	U	390	5.5	ug/Kg	☒	11/17/19 12:36	11/18/19 06:53	1
Diethyl phthalate	390	U	390	5.7	ug/Kg	☒	11/17/19 12:36	11/18/19 06:53	1
Dimethyl phthalate	390	U	390	89	ug/Kg	☒	11/17/19 12:36	11/18/19 06:53	1
Di-n-butyl phthalate	390	U	390	69	ug/Kg	☒	11/17/19 12:36	11/18/19 06:53	1
Di-n-octyl phthalate	390	U	390	21	ug/Kg	☒	11/17/19 12:36	11/18/19 06:53	1
Fluoranthene	390	U	390	14	ug/Kg	☒	11/17/19 12:36	11/18/19 06:53	1
Fluorene	390	U	390	5.3	ug/Kg	☒	11/17/19 12:36	11/18/19 06:53	1
Hexachlorobenzene	39	U	39	19	ug/Kg	☒	11/17/19 12:36	11/18/19 06:53	1
Hexachlorobutadiene	79	U	79	8.3	ug/Kg	☒	11/17/19 12:36	11/18/19 06:53	1
Hexachlorocyclopentadiene	390	U	390	34	ug/Kg	☒	11/17/19 12:36	11/18/19 06:53	1
Hexachloroethane	39	U	39	13	ug/Kg	☒	11/17/19 12:36	11/18/19 06:53	1
Indeno[1,2,3-cd]pyrene	39	U	39	15	ug/Kg	☒	11/17/19 12:36	11/18/19 06:53	1
Isophorone	160	U	160	110	ug/Kg	☒	11/17/19 12:36	11/18/19 06:53	1
Naphthalene	390	U	390	6.7	ug/Kg	☒	11/17/19 12:36	11/18/19 06:53	1
Nitrobenzene	39	U	39	9.4	ug/Kg	☒	11/17/19 12:36	11/18/19 06:53	1
N-Nitrosodi-n-propylamine	39	U	39	28	ug/Kg	☒	11/17/19 12:36	11/18/19 06:53	1
N-Nitrosodiphenylamine	390	U	390	7.5	ug/Kg	☒	11/17/19 12:36	11/18/19 06:53	1
Pentachlorophenol	310	U	310	80	ug/Kg	☒	11/17/19 12:36	11/18/19 06:53	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196639-1

Client Sample ID: WSG-C12-COMP-1

Lab Sample ID: 460-196639-30

Date Collected: 11/12/19 09:25

Matrix: Solid

Date Received: 11/15/19 21:07

Percent Solids: 84.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenanthrene	390	U	390	6.9	ug/Kg	☒	11/17/19 12:36	11/18/19 06:53	1
Phenol	390	U	390	14	ug/Kg	☒	11/17/19 12:36	11/18/19 06:53	1
Pyrene	390	U	390	9.7	ug/Kg	☒	11/17/19 12:36	11/18/19 06:53	1
1,4-Dioxane	120	U	120	11	ug/Kg	☒	11/17/19 12:36	11/18/19 06:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	57		10 - 137	11/17/19 12:36	11/18/19 06:53	1
2-Fluorophenol (Surr)	58		20 - 115	11/17/19 12:36	11/18/19 06:53	1
Nitrobenzene-d5 (Surr)	61		25 - 113	11/17/19 12:36	11/18/19 06:53	1
Terphenyl-d14 (Surr)	72		27 - 123	11/17/19 12:36	11/18/19 06:53	1
Phenol-d5 (Surr)	58		28 - 109	11/17/19 12:36	11/18/19 06:53	1
2-Fluorobiphenyl	60		29 - 107	11/17/19 12:36	11/18/19 06:53	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	7.9	U	7.9	1.3	ug/Kg	☒	11/17/19 08:26	11/19/19 12:39	1
4,4'-DDE	26		7.9	0.93	ug/Kg	☒	11/17/19 08:26	11/19/19 12:39	1
4,4'-DDT	24		7.9	1.5	ug/Kg	☒	11/17/19 08:26	11/19/19 12:39	1
Aldrin	7.9	U	7.9	1.2	ug/Kg	☒	11/17/19 08:26	11/19/19 12:39	1
alpha-BHC	2.4	U	2.4	0.80	ug/Kg	☒	11/17/19 08:26	11/19/19 12:39	1
beta-BHC	2.4	U	2.4	0.89	ug/Kg	☒	11/17/19 08:26	11/19/19 12:39	1
Chlordane (technical)	79	U	79	19	ug/Kg	☒	11/17/19 08:26	11/19/19 12:39	1
delta-BHC	2.4	U	2.4	0.48	ug/Kg	☒	11/17/19 08:26	11/19/19 12:39	1
Dieldrin	4.8		2.4	1.0	ug/Kg	☒	11/17/19 08:26	11/19/19 12:39	1
Endosulfan I	7.9	U	7.9	1.2	ug/Kg	☒	11/17/19 08:26	11/19/19 12:39	1
Endosulfan II	7.9	U	7.9	2.0	ug/Kg	☒	11/17/19 08:26	11/19/19 12:39	1
Endosulfan sulfate	7.9	U	7.9	0.99	ug/Kg	☒	11/17/19 08:26	11/19/19 12:39	1
Endrin	7.9	U	7.9	1.1	ug/Kg	☒	11/17/19 08:26	11/19/19 12:39	1
Endrin aldehyde	7.9	U	7.9	1.9	ug/Kg	☒	11/17/19 08:26	11/19/19 12:39	1
Endrin ketone	7.9	U	7.9	1.5	ug/Kg	☒	11/17/19 08:26	11/19/19 12:39	1
gamma-BHC (Lindane)	2.4	U	2.4	0.73	ug/Kg	☒	11/17/19 08:26	11/19/19 12:39	1
Heptachlor	7.9	U	7.9	0.93	ug/Kg	☒	11/17/19 08:26	11/19/19 12:39	1
Heptachlor epoxide	7.9	U	7.9	1.2	ug/Kg	☒	11/17/19 08:26	11/19/19 12:39	1
Methoxychlor	7.9	U	7.9	1.8	ug/Kg	☒	11/17/19 08:26	11/19/19 12:39	1
Toxaphene	79	U	79	29	ug/Kg	☒	11/17/19 08:26	11/19/19 12:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	122		49 - 150	11/17/19 08:26	11/19/19 12:39	1
DCB Decachlorobiphenyl	146		49 - 150	11/17/19 08:26	11/19/19 12:39	1
Tetrachloro-m-xylene	134		47 - 150	11/17/19 08:26	11/19/19 12:39	1
Tetrachloro-m-xylene	134		47 - 150	11/17/19 08:26	11/19/19 12:39	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	79	U	79	11	ug/Kg	☒	11/17/19 08:18	11/18/19 15:58	1
Aroclor 1221	79	U	79	11	ug/Kg	☒	11/17/19 08:18	11/18/19 15:58	1
Aroclor 1232	79	U	79	11	ug/Kg	☒	11/17/19 08:18	11/18/19 15:58	1
Aroclor 1242	79	U	79	11	ug/Kg	☒	11/17/19 08:18	11/18/19 15:58	1
Aroclor 1248	79	U	79	11	ug/Kg	☒	11/17/19 08:18	11/18/19 15:58	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196639-1

Client Sample ID: WSG-C12-COMP-1

Lab Sample ID: 460-196639-30

Date Collected: 11/12/19 09:25

Matrix: Solid

Date Received: 11/15/19 21:07

Percent Solids: 84.7

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1254	79	U	79	11	ug/Kg	☼	11/17/19 08:18	11/18/19 15:58	1
Aroclor 1260	79	U	79	11	ug/Kg	☼	11/17/19 08:18	11/18/19 15:58	1
Aroclor-1262	79	U	79	11	ug/Kg	☼	11/17/19 08:18	11/18/19 15:58	1
Aroclor 1268	79	U	79	11	ug/Kg	☼	11/17/19 08:18	11/18/19 15:58	1
Polychlorinated biphenyls, Total	79	U	79	11	ug/Kg	☼	11/17/19 08:18	11/18/19 15:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	92		53 - 150	11/17/19 08:18	11/18/19 15:58	1
DCB Decachlorobiphenyl	121		53 - 150	11/17/19 08:18	11/18/19 15:58	1

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	39	U	39	14	ug/Kg	☼	11/20/19 02:56	11/20/19 18:01	1
Silvex (2,4,5-TP)	39	U	39	4.1	ug/Kg	☼	11/20/19 02:56	11/20/19 18:01	1
2,4,5-T	39	U	39	8.4	ug/Kg	☼	11/20/19 02:56	11/20/19 18:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	119		30 - 150	11/20/19 02:56	11/20/19 18:01	1
2,4-Dichlorophenylacetic acid	122		30 - 150	11/20/19 02:56	11/20/19 18:01	1

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	0.23	U	0.23	0.049	ug/Kg	☼	11/21/19 08:35	11/25/19 06:05	1
Perfluoroheptanoic acid (PFHpA)	0.23	U	0.23	0.034	ug/Kg	☼	11/21/19 08:35	11/25/19 06:05	1
Perfluorooctanoic acid (PFOA)	0.10	J	0.23	0.099	ug/Kg	☼	11/21/19 08:35	11/25/19 06:05	1
Perfluorononanoic acid (PFNA)	0.076	J	0.23	0.042	ug/Kg	☼	11/21/19 08:35	11/25/19 06:05	1
Perfluorodecanoic acid (PFDA)	0.081	J	0.23	0.025	ug/Kg	☼	11/21/19 08:35	11/25/19 06:05	1
Perfluoroundecanoic acid (PFUnA)	0.046	J	0.23	0.042	ug/Kg	☼	11/21/19 08:35	11/25/19 06:05	1
Perfluorododecanoic acid (PFDoA)	0.23	U	0.23	0.077	ug/Kg	☼	11/21/19 08:35	11/25/19 06:05	1
Perfluorotridecanoic acid (PFTriA)	0.23	U	0.23	0.059	ug/Kg	☼	11/21/19 08:35	11/25/19 06:05	1
Perfluorotetradecanoic acid (PFTeA)	0.23	U	0.23	0.062	ug/Kg	☼	11/21/19 08:35	11/25/19 06:05	1
Perfluorobutanesulfonic acid (PFBS)	0.23	U	0.23	0.029	ug/Kg	☼	11/21/19 08:35	11/25/19 06:05	1
Perfluorohexanesulfonic acid (PFHxS)	0.23	U	0.23	0.036	ug/Kg	☼	11/21/19 08:35	11/25/19 06:05	1
Perfluorooctanesulfonic acid (PFOS)	1.08	B	0.58	0.23	ug/Kg	☼	11/21/19 08:35	11/25/19 06:05	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.31	U	2.31	0.43	ug/Kg	☼	11/21/19 08:35	11/25/19 06:05	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.31	U	2.31	0.45	ug/Kg	☼	11/21/19 08:35	11/25/19 06:05	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFHxA	100		25 - 150	11/21/19 08:35	11/25/19 06:05	1
13C4 PFHpA	104		25 - 150	11/21/19 08:35	11/25/19 06:05	1
13C4 PFOA	100		25 - 150	11/21/19 08:35	11/25/19 06:05	1
13C5 PFNA	95		25 - 150	11/21/19 08:35	11/25/19 06:05	1
13C2 PFDA	96		25 - 150	11/21/19 08:35	11/25/19 06:05	1
13C2 PFUnA	105		25 - 150	11/21/19 08:35	11/25/19 06:05	1
13C2 PFDoA	106		25 - 150	11/21/19 08:35	11/25/19 06:05	1
13C2 PFTeDA	98		25 - 150	11/21/19 08:35	11/25/19 06:05	1
18O2 PFHxS	110		25 - 150	11/21/19 08:35	11/25/19 06:05	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196639-1

Client Sample ID: WSG-C12-COMP-1

Lab Sample ID: 460-196639-30

Date Collected: 11/12/19 09:25

Matrix: Solid

Date Received: 11/15/19 21:07

Percent Solids: 84.7

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
¹³ C4 PFOS	89		25 - 150	11/21/19 08:35	11/25/19 06:05	1
d3-NMeFOSAA	82		25 - 150	11/21/19 08:35	11/25/19 06:05	1
d5-NEtFOSAA	77		25 - 150	11/21/19 08:35	11/25/19 06:05	1

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	11600		33.4	16.4	mg/Kg	☼	11/26/19 04:30	11/26/19 18:28	4
Silver	2.2	U	2.2	0.21	mg/Kg	☼	11/26/19 04:30	11/26/19 18:28	4
Aluminum	10200		44.6	12.6	mg/Kg	☼	11/26/19 04:30	11/26/19 18:28	4
Arsenic	6.2		3.3	1.3	mg/Kg	☼	11/26/19 04:30	11/26/19 18:28	4
Boron	6.0	J	11.1	3.1	mg/Kg	☼	11/26/19 04:30	11/26/19 18:28	4
Barium	25.2	J	44.6	2.5	mg/Kg	☼	11/26/19 04:30	11/26/19 18:28	4
Beryllium	0.41	J	0.45	0.099	mg/Kg	☼	11/26/19 04:30	11/26/19 18:28	4
Calcium	1050	J	1110	65.6	mg/Kg	☼	11/26/19 04:30	11/26/19 18:28	4
Cadmium	0.89	U	0.89	0.15	mg/Kg	☼	11/26/19 04:30	11/26/19 18:28	4
Cobalt	2.8	J	11.1	1.4	mg/Kg	☼	11/26/19 04:30	11/26/19 18:28	4
Chromium	11.7		2.2	0.40	mg/Kg	☼	11/26/19 04:30	11/26/19 18:28	4
Copper	11.2		5.6	3.0	mg/Kg	☼	11/26/19 04:30	11/26/19 18:28	4
Potassium	380	J	1110	69.3	mg/Kg	☼	11/26/19 04:30	11/26/19 18:28	4
Magnesium	1460		1110	64.9	mg/Kg	☼	11/26/19 04:30	11/26/19 18:28	4
Manganese	125		3.3	0.39	mg/Kg	☼	11/26/19 04:30	11/26/19 18:28	4
Molybdenum	4.5	U	4.5	1.1	mg/Kg	☼	11/26/19 04:30	11/26/19 18:28	4
Sodium	1110	U	1110	89.6	mg/Kg	☼	11/26/19 04:30	11/26/19 18:28	4
Nickel	6.7	J	8.9	0.82	mg/Kg	☼	11/26/19 04:30	11/26/19 18:28	4
Lead	14.3		2.2	0.58	mg/Kg	☼	11/26/19 04:30	11/26/19 18:28	4
Antimony	4.5	U	4.5	1.2	mg/Kg	☼	11/26/19 04:30	11/26/19 18:28	4
Selenium	4.5	U	4.5	2.7	mg/Kg	☼	11/26/19 04:30	11/26/19 18:28	4
Tin	11.1	U	11.1	7.2	mg/Kg	☼	11/26/19 04:30	11/26/19 18:28	4
Strontium	6.2		4.5	0.44	mg/Kg	☼	11/26/19 04:30	11/26/19 18:28	4
Titanium	471		4.5	0.67	mg/Kg	☼	11/26/19 04:30	11/26/19 18:28	4
Thallium	4.5	U	4.5	0.71	mg/Kg	☼	11/26/19 04:30	11/26/19 18:28	4
Vanadium	18.5		11.1	0.74	mg/Kg	☼	11/26/19 04:30	11/26/19 18:28	4
Zinc	26.5		6.7	5.2	mg/Kg	☼	11/26/19 04:30	11/26/19 18:28	4

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.028		0.020	0.012	mg/Kg	☼	11/25/19 04:23	11/25/19 08:55	1

Client Sample ID: WSG-C8-COMP-0

Lab Sample ID: 460-196639-31

Date Collected: 11/12/19 10:00

Matrix: Solid

Date Received: 11/15/19 21:07

Percent Solids: 91.3

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/Kg	☼	11/19/19 02:05	11/24/19 13:48	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22	ug/Kg	☼	11/19/19 02:05	11/24/19 13:48	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/Kg	☼	11/19/19 02:05	11/24/19 13:48	1
1,1,2-Trichloroethane	1.0	U	1.0	0.18	ug/Kg	☼	11/19/19 02:05	11/24/19 13:48	1
1,1-Dichloroethane	1.0	U	1.0	0.21	ug/Kg	☼	11/19/19 02:05	11/24/19 13:48	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196639-1

Client Sample ID: WSG-C8-COMP-0

Lab Sample ID: 460-196639-31

Date Collected: 11/12/19 10:00

Matrix: Solid

Date Received: 11/15/19 21:07

Percent Solids: 91.3

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.23	ug/Kg	☒	11/19/19 02:05	11/24/19 13:48	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.37	ug/Kg	☒	11/19/19 02:05	11/24/19 13:48	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.48	ug/Kg	☒	11/19/19 02:05	11/24/19 13:48	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/Kg	☒	11/19/19 02:05	11/24/19 13:48	1
1,2-Dichloroethane	1.0	U	1.0	0.31	ug/Kg	☒	11/19/19 02:05	11/24/19 13:48	1
1,2-Dichloropropane	1.0	U	1.0	0.44	ug/Kg	☒	11/19/19 02:05	11/24/19 13:48	1
1,3-Dichlorobenzene	1.0	U	1.0	0.16	ug/Kg	☒	11/19/19 02:05	11/24/19 13:48	1
1,4-Dichlorobenzene	1.0	U	1.0	0.23	ug/Kg	☒	11/19/19 02:05	11/24/19 13:48	1
2-Butanone (MEK)	5.2	U	5.2	2.8	ug/Kg	☒	11/19/19 02:05	11/24/19 13:48	1
2-Hexanone	5.2	U	5.2	1.8	ug/Kg	☒	11/19/19 02:05	11/24/19 13:48	1
4-Methyl-2-pentanone (MIBK)	5.2	U	5.2	1.6	ug/Kg	☒	11/19/19 02:05	11/24/19 13:48	1
Acetone	6.2	U	6.2	5.9	ug/Kg	☒	11/19/19 02:05	11/24/19 13:48	1
Benzene	1.0	U	1.0	0.27	ug/Kg	☒	11/19/19 02:05	11/24/19 13:48	1
Bromoform	1.0	U	1.0	0.44	ug/Kg	☒	11/19/19 02:05	11/24/19 13:48	1
Bromomethane	1.0	U	1.0	0.49	ug/Kg	☒	11/19/19 02:05	11/24/19 13:48	1
Carbon disulfide	1.0	U	1.0	0.28	ug/Kg	☒	11/19/19 02:05	11/24/19 13:48	1
Carbon tetrachloride	1.0	U	1.0	0.40	ug/Kg	☒	11/19/19 02:05	11/24/19 13:48	1
Chlorobenzene	1.0	U	1.0	0.18	ug/Kg	☒	11/19/19 02:05	11/24/19 13:48	1
Chlorodibromomethane	1.0	U	1.0	0.20	ug/Kg	☒	11/19/19 02:05	11/24/19 13:48	1
Chloroethane	1.0	U	1.0	0.54	ug/Kg	☒	11/19/19 02:05	11/24/19 13:48	1
Chloroform	1.0	U	1.0	0.33	ug/Kg	☒	11/19/19 02:05	11/24/19 13:48	1
Chloromethane	1.0	U	1.0	0.45	ug/Kg	☒	11/19/19 02:05	11/24/19 13:48	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/Kg	☒	11/19/19 02:05	11/24/19 13:48	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.28	ug/Kg	☒	11/19/19 02:05	11/24/19 13:48	1
Cyclohexane	1.0	U	1.0	0.23	ug/Kg	☒	11/19/19 02:05	11/24/19 13:48	1
Dichlorobromomethane	1.0	U	1.0	0.27	ug/Kg	☒	11/19/19 02:05	11/24/19 13:48	1
Dichlorodifluoromethane	1.0	U	1.0	0.35	ug/Kg	☒	11/19/19 02:05	11/24/19 13:48	1
Ethylbenzene	1.0	U	1.0	0.21	ug/Kg	☒	11/19/19 02:05	11/24/19 13:48	1
Ethylene Dibromide	1.0	U	1.0	0.19	ug/Kg	☒	11/19/19 02:05	11/24/19 13:48	1
Isopropylbenzene	1.0	U	1.0	0.13	ug/Kg	☒	11/19/19 02:05	11/24/19 13:48	1
Methyl acetate	5.2	U *	5.2	4.5	ug/Kg	☒	11/19/19 02:05	11/24/19 13:48	1
Methyl tert-butyl ether	1.0	U	1.0	0.13	ug/Kg	☒	11/19/19 02:05	11/24/19 13:48	1
Methylcyclohexane	1.0	U	1.0	0.52	ug/Kg	☒	11/19/19 02:05	11/24/19 13:48	1
Methylene Chloride	0.82	J	1.0	0.48	ug/Kg	☒	11/19/19 02:05	11/24/19 13:48	1
Styrene	1.0	U	1.0	0.29	ug/Kg	☒	11/19/19 02:05	11/24/19 13:48	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/Kg	☒	11/19/19 02:05	11/24/19 13:48	1
Toluene	1.0	U	1.0	0.24	ug/Kg	☒	11/19/19 02:05	11/24/19 13:48	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.26	ug/Kg	☒	11/19/19 02:05	11/24/19 13:48	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.28	ug/Kg	☒	11/19/19 02:05	11/24/19 13:48	1
Trichloroethene	1.0	U	1.0	0.15	ug/Kg	☒	11/19/19 02:05	11/24/19 13:48	1
Trichlorofluoromethane	1.0	U	1.0	0.42	ug/Kg	☒	11/19/19 02:05	11/24/19 13:48	1
Vinyl chloride	1.0	U	1.0	0.57	ug/Kg	☒	11/19/19 02:05	11/24/19 13:48	1
Xylenes, Total	2.1	U	2.1	0.18	ug/Kg	☒	11/19/19 02:05	11/24/19 13:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		78 - 135	11/19/19 02:05	11/24/19 13:48	1
4-Bromofluorobenzene	109		67 - 126	11/19/19 02:05	11/24/19 13:48	1
Dibromofluoromethane (Surr)	106		61 - 149	11/19/19 02:05	11/24/19 13:48	1
Toluene-d8 (Surr)	107		73 - 121	11/19/19 02:05	11/24/19 13:48	1

Eurofins TestAmerica, Edison

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196639-1

Client Sample ID: WSG-C8-COMP-0

Lab Sample ID: 460-196639-31

Date Collected: 11/12/19 10:00

Matrix: Solid

Date Received: 11/15/19 21:07

Percent Solids: 91.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	360	U	360	4.8	ug/Kg	☼	11/17/19 12:36	11/18/19 07:15	1
2,2'-oxybis[1-chloropropane]	360	U	360	6.6	ug/Kg	☼	11/17/19 12:36	11/18/19 07:15	1
2,4,5-Trichlorophenol	360	U	360	37	ug/Kg	☼	11/17/19 12:36	11/18/19 07:15	1
2,4,6-Trichlorophenol	150	U	150	46	ug/Kg	☼	11/17/19 12:36	11/18/19 07:15	1
2,4-Dichlorophenol	150	U	150	23	ug/Kg	☼	11/17/19 12:36	11/18/19 07:15	1
2,4-Dimethylphenol	360	U	360	16	ug/Kg	☼	11/17/19 12:36	11/18/19 07:15	1
2,4-Dinitrophenol	290	U	290	180	ug/Kg	☼	11/17/19 12:36	11/18/19 07:15	1
2,4-Dinitrotoluene	73	U	73	39	ug/Kg	☼	11/17/19 12:36	11/18/19 07:15	1
2,6-Dinitrotoluene	73	U	73	26	ug/Kg	☼	11/17/19 12:36	11/18/19 07:15	1
2-Chloronaphthalene	360	U	360	17	ug/Kg	☼	11/17/19 12:36	11/18/19 07:15	1
2-Chlorophenol	360	U	360	13	ug/Kg	☼	11/17/19 12:36	11/18/19 07:15	1
2-Methylnaphthalene	360	U	360	10	ug/Kg	☼	11/17/19 12:36	11/18/19 07:15	1
2-Methylphenol	360	U	360	14	ug/Kg	☼	11/17/19 12:36	11/18/19 07:15	1
2-Nitroaniline	360	U	360	14	ug/Kg	☼	11/17/19 12:36	11/18/19 07:15	1
2-Nitrophenol	360	U	360	36	ug/Kg	☼	11/17/19 12:36	11/18/19 07:15	1
3,3'-Dichlorobenzidine	150	U	150	55	ug/Kg	☼	11/17/19 12:36	11/18/19 07:15	1
3-Nitroaniline	360	U	360	41	ug/Kg	☼	11/17/19 12:36	11/18/19 07:15	1
4,6-Dinitro-2-methylphenol	290	U	290	59	ug/Kg	☼	11/17/19 12:36	11/18/19 07:15	1
4-Bromophenyl phenyl ether	360	U	360	14	ug/Kg	☼	11/17/19 12:36	11/18/19 07:15	1
4-Chloro-3-methylphenol	360	U	360	20	ug/Kg	☼	11/17/19 12:36	11/18/19 07:15	1
4-Chloroaniline	360	U	360	25	ug/Kg	☼	11/17/19 12:36	11/18/19 07:15	1
4-Chlorophenyl phenyl ether	360	U	360	13	ug/Kg	☼	11/17/19 12:36	11/18/19 07:15	1
4-Methylphenol	360	U	360	23	ug/Kg	☼	11/17/19 12:36	11/18/19 07:15	1
4-Nitroaniline	360	U	360	42	ug/Kg	☼	11/17/19 12:36	11/18/19 07:15	1
4-Nitrophenol	730	U	730	59	ug/Kg	☼	11/17/19 12:36	11/18/19 07:15	1
Acenaphthene	360	U	360	26	ug/Kg	☼	11/17/19 12:36	11/18/19 07:15	1
Acenaphthylene	360	U	360	3.7	ug/Kg	☼	11/17/19 12:36	11/18/19 07:15	1
Acetophenone	360	U	360	18	ug/Kg	☼	11/17/19 12:36	11/18/19 07:15	1
Anthracene	360	U	360	11	ug/Kg	☼	11/17/19 12:36	11/18/19 07:15	1
Atrazine	150	U	150	9.1	ug/Kg	☼	11/17/19 12:36	11/18/19 07:15	1
Benzaldehyde	360	U	360	16	ug/Kg	☼	11/17/19 12:36	11/18/19 07:15	1
Benzo[a]anthracene	36	U	36	13	ug/Kg	☼	11/17/19 12:36	11/18/19 07:15	1
Benzo[a]pyrene	36	U	36	9.6	ug/Kg	☼	11/17/19 12:36	11/18/19 07:15	1
Benzo[b]fluoranthene	36	U	36	9.4	ug/Kg	☼	11/17/19 12:36	11/18/19 07:15	1
Benzo[g,h,i]perylene	360	U	360	11	ug/Kg	☼	11/17/19 12:36	11/18/19 07:15	1
Benzo[k]fluoranthene	36	U	36	7.1	ug/Kg	☼	11/17/19 12:36	11/18/19 07:15	1
Bis(2-chloroethoxy)methane	360	U	360	28	ug/Kg	☼	11/17/19 12:36	11/18/19 07:15	1
Bis(2-chloroethyl)ether	36	U	36	13	ug/Kg	☼	11/17/19 12:36	11/18/19 07:15	1
Bis(2-ethylhexyl) phthalate	360	U	360	19	ug/Kg	☼	11/17/19 12:36	11/18/19 07:15	1
Butyl benzyl phthalate	360	U	360	17	ug/Kg	☼	11/17/19 12:36	11/18/19 07:15	1
Caprolactam	360	U	360	56	ug/Kg	☼	11/17/19 12:36	11/18/19 07:15	1
Carbazole	360	U	360	14	ug/Kg	☼	11/17/19 12:36	11/18/19 07:15	1
Chrysene	360	U	360	6.1	ug/Kg	☼	11/17/19 12:36	11/18/19 07:15	1
Dibenz(a,h)anthracene	36	U	36	16	ug/Kg	☼	11/17/19 12:36	11/18/19 07:15	1
Dibenzofuran	360	U	360	5.1	ug/Kg	☼	11/17/19 12:36	11/18/19 07:15	1
Diethyl phthalate	360	U	360	5.2	ug/Kg	☼	11/17/19 12:36	11/18/19 07:15	1
Dimethyl phthalate	360	U	360	82	ug/Kg	☼	11/17/19 12:36	11/18/19 07:15	1
Di-n-butyl phthalate	360	U	360	64	ug/Kg	☼	11/17/19 12:36	11/18/19 07:15	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196639-1

Client Sample ID: WSG-C8-COMP-0

Lab Sample ID: 460-196639-31

Date Collected: 11/12/19 10:00

Matrix: Solid

Date Received: 11/15/19 21:07

Percent Solids: 91.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate	360	U	360	19	ug/Kg	☒	11/17/19 12:36	11/18/19 07:15	1
Fluoranthene	360	U	360	13	ug/Kg	☒	11/17/19 12:36	11/18/19 07:15	1
Fluorene	360	U	360	4.9	ug/Kg	☒	11/17/19 12:36	11/18/19 07:15	1
Hexachlorobenzene	36	U	36	17	ug/Kg	☒	11/17/19 12:36	11/18/19 07:15	1
Hexachlorobutadiene	73	U	73	7.7	ug/Kg	☒	11/17/19 12:36	11/18/19 07:15	1
Hexachlorocyclopentadiene	360	U	360	32	ug/Kg	☒	11/17/19 12:36	11/18/19 07:15	1
Hexachloroethane	36	U	36	12	ug/Kg	☒	11/17/19 12:36	11/18/19 07:15	1
Indeno[1,2,3-cd]pyrene	36	U	36	14	ug/Kg	☒	11/17/19 12:36	11/18/19 07:15	1
Isophorone	150	U	150	100	ug/Kg	☒	11/17/19 12:36	11/18/19 07:15	1
Naphthalene	360	U	360	6.3	ug/Kg	☒	11/17/19 12:36	11/18/19 07:15	1
Nitrobenzene	36	U	36	8.7	ug/Kg	☒	11/17/19 12:36	11/18/19 07:15	1
N-Nitrosodi-n-propylamine	36	U	36	26	ug/Kg	☒	11/17/19 12:36	11/18/19 07:15	1
N-Nitrosodiphenylamine	360	U	360	6.9	ug/Kg	☒	11/17/19 12:36	11/18/19 07:15	1
Pentachlorophenol	290	U	290	74	ug/Kg	☒	11/17/19 12:36	11/18/19 07:15	1
Phenanthrene	360	U	360	6.4	ug/Kg	☒	11/17/19 12:36	11/18/19 07:15	1
Phenol	360	U	360	13	ug/Kg	☒	11/17/19 12:36	11/18/19 07:15	1
Pyrene	360	U	360	9.0	ug/Kg	☒	11/17/19 12:36	11/18/19 07:15	1
1,4-Dioxane	110	U	110	10	ug/Kg	☒	11/17/19 12:36	11/18/19 07:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	44		10 - 137	11/17/19 12:36	11/18/19 07:15	1
2-Fluorophenol (Surr)	54		20 - 115	11/17/19 12:36	11/18/19 07:15	1
Nitrobenzene-d5 (Surr)	53		25 - 113	11/17/19 12:36	11/18/19 07:15	1
Terphenyl-d14 (Surr)	57		27 - 123	11/17/19 12:36	11/18/19 07:15	1
Phenol-d5 (Surr)	52		28 - 109	11/17/19 12:36	11/18/19 07:15	1
2-Fluorobiphenyl	52		29 - 107	11/17/19 12:36	11/18/19 07:15	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	7.3	U	7.3	1.2	ug/Kg	☒	11/17/19 08:26	11/19/19 12:54	1
4,4'-DDE	9.2		7.3	0.87	ug/Kg	☒	11/17/19 08:26	11/19/19 12:54	1
4,4'-DDT	8.3		7.3	1.3	ug/Kg	☒	11/17/19 08:26	11/19/19 12:54	1
Aldrin	7.3	U	7.3	1.1	ug/Kg	☒	11/17/19 08:26	11/19/19 12:54	1
alpha-BHC	2.2	U	2.2	0.75	ug/Kg	☒	11/17/19 08:26	11/19/19 12:54	1
beta-BHC	2.2	U	2.2	0.82	ug/Kg	☒	11/17/19 08:26	11/19/19 12:54	1
Chlordane (technical)	73	U	73	18	ug/Kg	☒	11/17/19 08:26	11/19/19 12:54	1
delta-BHC	2.2	U	2.2	0.45	ug/Kg	☒	11/17/19 08:26	11/19/19 12:54	1
Dieldrin	2.2	U	2.2	0.95	ug/Kg	☒	11/17/19 08:26	11/19/19 12:54	1
Endosulfan I	7.3	U	7.3	1.1	ug/Kg	☒	11/17/19 08:26	11/19/19 12:54	1
Endosulfan II	7.3	U	7.3	1.9	ug/Kg	☒	11/17/19 08:26	11/19/19 12:54	1
Endosulfan sulfate	7.3	U	7.3	0.92	ug/Kg	☒	11/17/19 08:26	11/19/19 12:54	1
Endrin	7.3	U	7.3	1.1	ug/Kg	☒	11/17/19 08:26	11/19/19 12:54	1
Endrin aldehyde	7.3	U	7.3	1.7	ug/Kg	☒	11/17/19 08:26	11/19/19 12:54	1
Endrin ketone	7.3	U	7.3	1.4	ug/Kg	☒	11/17/19 08:26	11/19/19 12:54	1
gamma-BHC (Lindane)	2.2	U	2.2	0.68	ug/Kg	☒	11/17/19 08:26	11/19/19 12:54	1
Heptachlor	7.3	U	7.3	0.87	ug/Kg	☒	11/17/19 08:26	11/19/19 12:54	1
Heptachlor epoxide	7.3	U	7.3	1.1	ug/Kg	☒	11/17/19 08:26	11/19/19 12:54	1
Methoxychlor	7.3	U	7.3	1.7	ug/Kg	☒	11/17/19 08:26	11/19/19 12:54	1
Toxaphene	73	U	73	27	ug/Kg	☒	11/17/19 08:26	11/19/19 12:54	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196639-1

Client Sample ID: WSG-C8-COMP-0

Lab Sample ID: 460-196639-31

Date Collected: 11/12/19 10:00

Matrix: Solid

Date Received: 11/15/19 21:07

Percent Solids: 91.3

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	59		49 - 150	11/17/19 08:26	11/19/19 12:54	1
DCB Decachlorobiphenyl	67		49 - 150	11/17/19 08:26	11/19/19 12:54	1
Tetrachloro-m-xylene	65		47 - 150	11/17/19 08:26	11/19/19 12:54	1
Tetrachloro-m-xylene	62		47 - 150	11/17/19 08:26	11/19/19 12:54	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	73	U	73	9.8	ug/Kg	☼	11/17/19 08:18	11/18/19 16:15	1
Aroclor 1221	73	U	73	9.8	ug/Kg	☼	11/17/19 08:18	11/18/19 16:15	1
Aroclor 1232	73	U	73	9.8	ug/Kg	☼	11/17/19 08:18	11/18/19 16:15	1
Aroclor 1242	73	U	73	9.8	ug/Kg	☼	11/17/19 08:18	11/18/19 16:15	1
Aroclor 1248	73	U	73	9.8	ug/Kg	☼	11/17/19 08:18	11/18/19 16:15	1
Aroclor 1254	73	U	73	10	ug/Kg	☼	11/17/19 08:18	11/18/19 16:15	1
Aroclor 1260	73	U	73	10	ug/Kg	☼	11/17/19 08:18	11/18/19 16:15	1
Aroclor-1262	73	U	73	10	ug/Kg	☼	11/17/19 08:18	11/18/19 16:15	1
Aroclor 1268	73	U	73	10	ug/Kg	☼	11/17/19 08:18	11/18/19 16:15	1
Polychlorinated biphenyls, Total	73	U	73	10	ug/Kg	☼	11/17/19 08:18	11/18/19 16:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	84		53 - 150	11/17/19 08:18	11/18/19 16:15	1
DCB Decachlorobiphenyl	91		53 - 150	11/17/19 08:18	11/18/19 16:15	1

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	36	U	36	13	ug/Kg	☼	11/20/19 02:56	11/20/19 18:15	1
Silvex (2,4,5-TP)	36	U	36	3.8	ug/Kg	☼	11/20/19 02:56	11/20/19 18:15	1
2,4,5-T	36	U	36	7.8	ug/Kg	☼	11/20/19 02:56	11/20/19 18:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	120		30 - 150	11/20/19 02:56	11/20/19 18:15	1
2,4-Dichlorophenylacetic acid	128		30 - 150	11/20/19 02:56	11/20/19 18:15	1

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	0.22	U	0.22	0.045	ug/Kg	☼	11/21/19 08:35	11/25/19 06:15	1
Perfluoroheptanoic acid (PFHpA)	0.22	U	0.22	0.031	ug/Kg	☼	11/21/19 08:35	11/25/19 06:15	1
Perfluorooctanoic acid (PFOA)	0.22	U	0.22	0.093	ug/Kg	☼	11/21/19 08:35	11/25/19 06:15	1
Perfluorononanoic acid (PFNA)	0.22	U	0.22	0.039	ug/Kg	☼	11/21/19 08:35	11/25/19 06:15	1
Perfluorodecanoic acid (PFDA)	0.046	J	0.22	0.024	ug/Kg	☼	11/21/19 08:35	11/25/19 06:15	1
Perfluoroundecanoic acid (PFUnA)	0.22	U	0.22	0.039	ug/Kg	☼	11/21/19 08:35	11/25/19 06:15	1
Perfluorododecanoic acid (PFDoA)	0.22	U	0.22	0.072	ug/Kg	☼	11/21/19 08:35	11/25/19 06:15	1
Perfluorotridecanoic acid (PFTriA)	0.22	U	0.22	0.055	ug/Kg	☼	11/21/19 08:35	11/25/19 06:15	1
Perfluorotetradecanoic acid (PFTeA)	0.22	U	0.22	0.058	ug/Kg	☼	11/21/19 08:35	11/25/19 06:15	1
Perfluorobutanesulfonic acid (PFBS)	0.22	U	0.22	0.027	ug/Kg	☼	11/21/19 08:35	11/25/19 06:15	1
Perfluorohexanesulfonic acid (PFHxS)	0.22	U	0.22	0.033	ug/Kg	☼	11/21/19 08:35	11/25/19 06:15	1
Perfluorooctanesulfonic acid (PFOS)	0.69	B	0.54	0.22	ug/Kg	☼	11/21/19 08:35	11/25/19 06:15	1
N-ethylperfluorooctanesulfonamidoacetic acid (NETFOSAA)	2.16	U	2.16	0.40	ug/Kg	☼	11/21/19 08:35	11/25/19 06:15	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.16	U	2.16	0.42	ug/Kg	☼	11/21/19 08:35	11/25/19 06:15	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196639-1

Client Sample ID: WSG-C8-COMP-0

Lab Sample ID: 460-196639-31

Date Collected: 11/12/19 10:00

Matrix: Solid

Date Received: 11/15/19 21:07

Percent Solids: 91.3

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFHxA	101		25 - 150	11/21/19 08:35	11/25/19 06:15	1
13C4 PFHpA	104		25 - 150	11/21/19 08:35	11/25/19 06:15	1
13C4 PFOA	104		25 - 150	11/21/19 08:35	11/25/19 06:15	1
13C5 PFNA	98		25 - 150	11/21/19 08:35	11/25/19 06:15	1
13C2 PFDA	98		25 - 150	11/21/19 08:35	11/25/19 06:15	1
13C2 PFUnA	103		25 - 150	11/21/19 08:35	11/25/19 06:15	1
13C2 PFDoA	103		25 - 150	11/21/19 08:35	11/25/19 06:15	1
13C2 PFTeDA	98		25 - 150	11/21/19 08:35	11/25/19 06:15	1
18O2 PFHxS	113		25 - 150	11/21/19 08:35	11/25/19 06:15	1
13C4 PFOS	94		25 - 150	11/21/19 08:35	11/25/19 06:15	1
d3-NMeFOSAA	118		25 - 150	11/21/19 08:35	11/25/19 06:15	1
d5-NEtFOSAA	100		25 - 150	11/21/19 08:35	11/25/19 06:15	1

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	4900		32.9	16.1	mg/Kg	☼	11/27/19 05:13	11/27/19 12:33	4
Silver	2.2	U	2.2	0.21	mg/Kg	☼	11/27/19 05:13	11/27/19 12:33	4
Aluminum	3510		43.8	12.4	mg/Kg	☼	11/27/19 05:13	11/27/19 12:33	4
Arsenic	4.4		3.3	1.3	mg/Kg	☼	11/27/19 05:13	11/27/19 12:33	4
Boron	11.0	U	11.0	3.0	mg/Kg	☼	11/27/19 05:13	11/27/19 12:33	4
Barium	10.7	J	43.8	2.4	mg/Kg	☼	11/27/19 05:13	11/27/19 12:33	4
Beryllium	0.26	J	0.44	0.098	mg/Kg	☼	11/27/19 05:13	11/27/19 12:33	4
Calcium	719	J	1100	64.5	mg/Kg	☼	11/27/19 05:13	11/27/19 12:33	4
Cadmium	0.88	U	0.88	0.15	mg/Kg	☼	11/27/19 05:13	11/27/19 12:33	4
Cobalt	1.5	J	11.0	1.3	mg/Kg	☼	11/27/19 05:13	11/27/19 12:33	4
Chromium	5.2		2.2	0.39	mg/Kg	☼	11/27/19 05:13	11/27/19 12:33	4
Copper	4.9	J	5.5	2.9	mg/Kg	☼	11/27/19 05:13	11/27/19 12:33	4
Potassium	242	J	1100	68.2	mg/Kg	☼	11/27/19 05:13	11/27/19 12:33	4
Magnesium	706	J	1100	63.9	mg/Kg	☼	11/27/19 05:13	11/27/19 12:33	4
Manganese	62.6		3.3	0.38	mg/Kg	☼	11/27/19 05:13	11/27/19 12:33	4
Molybdenum	4.4	U	4.4	1.0	mg/Kg	☼	11/27/19 05:13	11/27/19 12:33	4
Sodium	1100	U	1100	88.1	mg/Kg	☼	11/27/19 05:13	11/27/19 12:33	4
Nickel	2.8	J	8.8	0.81	mg/Kg	☼	11/27/19 05:13	11/27/19 12:33	4
Lead	8.9		2.2	0.57	mg/Kg	☼	11/27/19 05:13	11/27/19 12:33	4
Antimony	4.4	U	4.4	1.2	mg/Kg	☼	11/27/19 05:13	11/27/19 12:33	4
Selenium	4.4	U	4.4	2.6	mg/Kg	☼	11/27/19 05:13	11/27/19 12:33	4
Tin	11.0	U	11.0	7.1	mg/Kg	☼	11/27/19 05:13	11/27/19 12:33	4
Strontium	3.5	J	4.4	0.44	mg/Kg	☼	11/27/19 05:13	11/27/19 12:33	4
Titanium	196		4.4	0.66	mg/Kg	☼	11/27/19 05:13	11/27/19 12:33	4
Thallium	4.4	U	4.4	0.70	mg/Kg	☼	11/27/19 05:13	11/27/19 12:33	4
Vanadium	7.6	J	11.0	0.73	mg/Kg	☼	11/27/19 05:13	11/27/19 12:33	4
Zinc	13.8		6.6	5.1	mg/Kg	☼	11/27/19 05:13	11/27/19 12:33	4

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.022		0.019	0.011	mg/Kg	☼	11/25/19 04:23	11/25/19 08:57	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196639-1

Client Sample ID: WSG-C11-COMP-0

Lab Sample ID: 460-196639-32

Date Collected: 11/12/19 09:45

Matrix: Solid

Date Received: 11/15/19 21:07

Percent Solids: 91.3

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/Kg	☒	11/19/19 02:06	11/25/19 09:04	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22	ug/Kg	☒	11/19/19 02:06	11/25/19 09:04	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/Kg	☒	11/19/19 02:06	11/25/19 09:04	1
1,1,2-Trichloroethane	1.0	U	1.0	0.19	ug/Kg	☒	11/19/19 02:06	11/25/19 09:04	1
1,1-Dichloroethane	1.0	U	1.0	0.21	ug/Kg	☒	11/19/19 02:06	11/25/19 09:04	1
1,1-Dichloroethene	1.0	U	1.0	0.23	ug/Kg	☒	11/19/19 02:06	11/25/19 09:04	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.37	ug/Kg	☒	11/19/19 02:06	11/25/19 09:04	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.48	ug/Kg	☒	11/19/19 02:06	11/25/19 09:04	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/Kg	☒	11/19/19 02:06	11/25/19 09:04	1
1,2-Dichloroethane	1.0	U	1.0	0.31	ug/Kg	☒	11/19/19 02:06	11/25/19 09:04	1
1,2-Dichloropropane	1.0	U	1.0	0.44	ug/Kg	☒	11/19/19 02:06	11/25/19 09:04	1
1,3-Dichlorobenzene	1.0	U	1.0	0.17	ug/Kg	☒	11/19/19 02:06	11/25/19 09:04	1
1,4-Dichlorobenzene	1.0	U	1.0	0.23	ug/Kg	☒	11/19/19 02:06	11/25/19 09:04	1
2-Butanone (MEK)	5.2	U	5.2	2.8	ug/Kg	☒	11/19/19 02:06	11/25/19 09:04	1
2-Hexanone	5.2	U	5.2	1.8	ug/Kg	☒	11/19/19 02:06	11/25/19 09:04	1
4-Methyl-2-pentanone (MIBK)	5.2	U	5.2	1.6	ug/Kg	☒	11/19/19 02:06	11/25/19 09:04	1
Acetone	6.2	U	6.2	6.0	ug/Kg	☒	11/19/19 02:06	11/25/19 09:04	1
Benzene	1.0	U	1.0	0.27	ug/Kg	☒	11/19/19 02:06	11/25/19 09:04	1
Bromoform	1.0	U	1.0	0.44	ug/Kg	☒	11/19/19 02:06	11/25/19 09:04	1
Bromomethane	1.0	U	1.0	0.49	ug/Kg	☒	11/19/19 02:06	11/25/19 09:04	1
Carbon disulfide	1.0	U	1.0	0.28	ug/Kg	☒	11/19/19 02:06	11/25/19 09:04	1
Carbon tetrachloride	1.0	U	1.0	0.40	ug/Kg	☒	11/19/19 02:06	11/25/19 09:04	1
Chlorobenzene	1.0	U	1.0	0.18	ug/Kg	☒	11/19/19 02:06	11/25/19 09:04	1
Chlorodibromomethane	1.0	U	1.0	0.20	ug/Kg	☒	11/19/19 02:06	11/25/19 09:04	1
Chloroethane	1.0	U	1.0	0.54	ug/Kg	☒	11/19/19 02:06	11/25/19 09:04	1
Chloroform	1.0	U	1.0	0.33	ug/Kg	☒	11/19/19 02:06	11/25/19 09:04	1
Chloromethane	1.0	U	1.0	0.45	ug/Kg	☒	11/19/19 02:06	11/25/19 09:04	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/Kg	☒	11/19/19 02:06	11/25/19 09:04	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.28	ug/Kg	☒	11/19/19 02:06	11/25/19 09:04	1
Cyclohexane	1.0	U	1.0	0.23	ug/Kg	☒	11/19/19 02:06	11/25/19 09:04	1
Dichlorobromomethane	1.0	U	1.0	0.27	ug/Kg	☒	11/19/19 02:06	11/25/19 09:04	1
Dichlorodifluoromethane	1.0	U	1.0	0.35	ug/Kg	☒	11/19/19 02:06	11/25/19 09:04	1
Ethylbenzene	1.0	U	1.0	0.21	ug/Kg	☒	11/19/19 02:06	11/25/19 09:04	1
Ethylene Dibromide	1.0	U	1.0	0.19	ug/Kg	☒	11/19/19 02:06	11/25/19 09:04	1
Isopropylbenzene	1.0	U	1.0	0.13	ug/Kg	☒	11/19/19 02:06	11/25/19 09:04	1
Methyl acetate	5.2	U *	5.2	4.5	ug/Kg	☒	11/19/19 02:06	11/25/19 09:04	1
Methyl tert-butyl ether	1.0	U	1.0	0.13	ug/Kg	☒	11/19/19 02:06	11/25/19 09:04	1
Methylcyclohexane	1.0	U	1.0	0.52	ug/Kg	☒	11/19/19 02:06	11/25/19 09:04	1
Methylene Chloride	1.0	U	1.0	0.48	ug/Kg	☒	11/19/19 02:06	11/25/19 09:04	1
Styrene	1.0	U	1.0	0.29	ug/Kg	☒	11/19/19 02:06	11/25/19 09:04	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/Kg	☒	11/19/19 02:06	11/25/19 09:04	1
Toluene	1.0	U	1.0	0.24	ug/Kg	☒	11/19/19 02:06	11/25/19 09:04	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.26	ug/Kg	☒	11/19/19 02:06	11/25/19 09:04	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.28	ug/Kg	☒	11/19/19 02:06	11/25/19 09:04	1
Trichloroethene	1.0	U	1.0	0.15	ug/Kg	☒	11/19/19 02:06	11/25/19 09:04	1
Trichlorofluoromethane	1.0	U	1.0	0.42	ug/Kg	☒	11/19/19 02:06	11/25/19 09:04	1
Vinyl chloride	1.0	U	1.0	0.57	ug/Kg	☒	11/19/19 02:06	11/25/19 09:04	1
Xylenes, Total	2.1	U	2.1	0.18	ug/Kg	☒	11/19/19 02:06	11/25/19 09:04	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196639-1

Client Sample ID: WSG-C11-COMP-0

Lab Sample ID: 460-196639-32

Date Collected: 11/12/19 09:45

Matrix: Solid

Date Received: 11/15/19 21:07

Percent Solids: 91.3

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		78 - 135	11/19/19 02:06	11/25/19 09:04	1
4-Bromofluorobenzene	100		67 - 126	11/19/19 02:06	11/25/19 09:04	1
Dibromofluoromethane (Surr)	100		61 - 149	11/19/19 02:06	11/25/19 09:04	1
Toluene-d8 (Surr)	93		73 - 121	11/19/19 02:06	11/25/19 09:04	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	360	U	360	4.8	ug/Kg	☼	11/17/19 12:36	11/18/19 02:19	1
2,2'-oxybis[1-chloropropane]	360	U	360	6.5	ug/Kg	☼	11/17/19 12:36	11/18/19 02:19	1
2,4,5-Trichlorophenol	360	U	360	37	ug/Kg	☼	11/17/19 12:36	11/18/19 02:19	1
2,4,6-Trichlorophenol	150	U	150	46	ug/Kg	☼	11/17/19 12:36	11/18/19 02:19	1
2,4-Dichlorophenol	150	U	150	23	ug/Kg	☼	11/17/19 12:36	11/18/19 02:19	1
2,4-Dimethylphenol	360	U	360	16	ug/Kg	☼	11/17/19 12:36	11/18/19 02:19	1
2,4-Dinitrophenol	290	U	290	180	ug/Kg	☼	11/17/19 12:36	11/18/19 02:19	1
2,4-Dinitrotoluene	73	U	73	39	ug/Kg	☼	11/17/19 12:36	11/18/19 02:19	1
2,6-Dinitrotoluene	73	U	73	26	ug/Kg	☼	11/17/19 12:36	11/18/19 02:19	1
2-Chloronaphthalene	360	U	360	17	ug/Kg	☼	11/17/19 12:36	11/18/19 02:19	1
2-Chlorophenol	360	U	360	13	ug/Kg	☼	11/17/19 12:36	11/18/19 02:19	1
2-Methylnaphthalene	360	U	360	10	ug/Kg	☼	11/17/19 12:36	11/18/19 02:19	1
2-Methylphenol	360	U	360	14	ug/Kg	☼	11/17/19 12:36	11/18/19 02:19	1
2-Nitroaniline	360	U	360	14	ug/Kg	☼	11/17/19 12:36	11/18/19 02:19	1
2-Nitrophenol	360	U	360	36	ug/Kg	☼	11/17/19 12:36	11/18/19 02:19	1
3,3'-Dichlorobenzidine	150	U	150	55	ug/Kg	☼	11/17/19 12:36	11/18/19 02:19	1
3-Nitroaniline	360	U	360	41	ug/Kg	☼	11/17/19 12:36	11/18/19 02:19	1
4,6-Dinitro-2-methylphenol	290	U	290	59	ug/Kg	☼	11/17/19 12:36	11/18/19 02:19	1
4-Bromophenyl phenyl ether	360	U	360	14	ug/Kg	☼	11/17/19 12:36	11/18/19 02:19	1
4-Chloro-3-methylphenol	360	U	360	20	ug/Kg	☼	11/17/19 12:36	11/18/19 02:19	1
4-Chloroaniline	360	U	360	25	ug/Kg	☼	11/17/19 12:36	11/18/19 02:19	1
4-Chlorophenyl phenyl ether	360	U	360	13	ug/Kg	☼	11/17/19 12:36	11/18/19 02:19	1
4-Methylphenol	360	U	360	23	ug/Kg	☼	11/17/19 12:36	11/18/19 02:19	1
4-Nitroaniline	360	U	360	42	ug/Kg	☼	11/17/19 12:36	11/18/19 02:19	1
4-Nitrophenol	730	U	730	59	ug/Kg	☼	11/17/19 12:36	11/18/19 02:19	1
Acenaphthene	360	U	360	26	ug/Kg	☼	11/17/19 12:36	11/18/19 02:19	1
Acenaphthylene	360	U	360	3.7	ug/Kg	☼	11/17/19 12:36	11/18/19 02:19	1
Acetophenone	360	U	360	18	ug/Kg	☼	11/17/19 12:36	11/18/19 02:19	1
Anthracene	360	U	360	11	ug/Kg	☼	11/17/19 12:36	11/18/19 02:19	1
Atrazine	150	U	150	9.1	ug/Kg	☼	11/17/19 12:36	11/18/19 02:19	1
Benzaldehyde	360	U	360	16	ug/Kg	☼	11/17/19 12:36	11/18/19 02:19	1
Benzo[a]anthracene	26	J	36	13	ug/Kg	☼	11/17/19 12:36	11/18/19 02:19	1
Benzo[a]pyrene	32	J	36	9.6	ug/Kg	☼	11/17/19 12:36	11/18/19 02:19	1
Benzo[b]fluoranthene	36		36	9.4	ug/Kg	☼	11/17/19 12:36	11/18/19 02:19	1
Benzo[g,h,i]perylene	20	J	360	11	ug/Kg	☼	11/17/19 12:36	11/18/19 02:19	1
Benzo[k]fluoranthene	12	J	36	7.1	ug/Kg	☼	11/17/19 12:36	11/18/19 02:19	1
Bis(2-chloroethoxy)methane	360	U	360	28	ug/Kg	☼	11/17/19 12:36	11/18/19 02:19	1
Bis(2-chloroethyl)ether	36	U	36	13	ug/Kg	☼	11/17/19 12:36	11/18/19 02:19	1
Bis(2-ethylhexyl) phthalate	360	U	360	19	ug/Kg	☼	11/17/19 12:36	11/18/19 02:19	1
Butyl benzyl phthalate	360	U	360	17	ug/Kg	☼	11/17/19 12:36	11/18/19 02:19	1
Caprolactam	360	U	360	56	ug/Kg	☼	11/17/19 12:36	11/18/19 02:19	1
Carbazole	360	U	360	14	ug/Kg	☼	11/17/19 12:36	11/18/19 02:19	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196639-1

Client Sample ID: WSG-C11-COMP-0

Lab Sample ID: 460-196639-32

Date Collected: 11/12/19 09:45

Matrix: Solid

Date Received: 11/15/19 21:07

Percent Solids: 91.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	41	J	360	6.1	ug/Kg	☼	11/17/19 12:36	11/18/19 02:19	1
Dibenz(a,h)anthracene	36	U	36	16	ug/Kg	☼	11/17/19 12:36	11/18/19 02:19	1
Dibenzofuran	360	U	360	5.1	ug/Kg	☼	11/17/19 12:36	11/18/19 02:19	1
Diethyl phthalate	360	U	360	5.2	ug/Kg	☼	11/17/19 12:36	11/18/19 02:19	1
Dimethyl phthalate	360	U	360	82	ug/Kg	☼	11/17/19 12:36	11/18/19 02:19	1
Di-n-butyl phthalate	360	U	360	64	ug/Kg	☼	11/17/19 12:36	11/18/19 02:19	1
Di-n-octyl phthalate	360	U	360	19	ug/Kg	☼	11/17/19 12:36	11/18/19 02:19	1
Fluoranthene	18	J	360	13	ug/Kg	☼	11/17/19 12:36	11/18/19 02:19	1
Fluorene	360	U	360	4.9	ug/Kg	☼	11/17/19 12:36	11/18/19 02:19	1
Hexachlorobenzene	36	U	36	17	ug/Kg	☼	11/17/19 12:36	11/18/19 02:19	1
Hexachlorobutadiene	73	U	73	7.7	ug/Kg	☼	11/17/19 12:36	11/18/19 02:19	1
Hexachlorocyclopentadiene	360	U	360	32	ug/Kg	☼	11/17/19 12:36	11/18/19 02:19	1
Hexachloroethane	36	U	36	12	ug/Kg	☼	11/17/19 12:36	11/18/19 02:19	1
Indeno[1,2,3-cd]pyrene	15	J	36	14	ug/Kg	☼	11/17/19 12:36	11/18/19 02:19	1
Isophorone	150	U	150	100	ug/Kg	☼	11/17/19 12:36	11/18/19 02:19	1
Naphthalene	360	U	360	6.3	ug/Kg	☼	11/17/19 12:36	11/18/19 02:19	1
Nitrobenzene	36	U	36	8.7	ug/Kg	☼	11/17/19 12:36	11/18/19 02:19	1
N-Nitrosodi-n-propylamine	36	U	36	26	ug/Kg	☼	11/17/19 12:36	11/18/19 02:19	1
N-Nitrosodiphenylamine	360	U	360	6.9	ug/Kg	☼	11/17/19 12:36	11/18/19 02:19	1
Pentachlorophenol	290	U	290	74	ug/Kg	☼	11/17/19 12:36	11/18/19 02:19	1
Phenanthrene	10	J	360	6.4	ug/Kg	☼	11/17/19 12:36	11/18/19 02:19	1
Phenol	360	U	360	13	ug/Kg	☼	11/17/19 12:36	11/18/19 02:19	1
Pyrene	23	J	360	9.0	ug/Kg	☼	11/17/19 12:36	11/18/19 02:19	1
1,4-Dioxane	110	U	110	10	ug/Kg	☼	11/17/19 12:36	11/18/19 02:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	55		10 - 137	11/17/19 12:36	11/18/19 02:19	1
2-Fluorophenol (Surr)	60		20 - 115	11/17/19 12:36	11/18/19 02:19	1
Nitrobenzene-d5 (Surr)	59		25 - 113	11/17/19 12:36	11/18/19 02:19	1
Terphenyl-d14 (Surr)	63		27 - 123	11/17/19 12:36	11/18/19 02:19	1
Phenol-d5 (Surr)	56		28 - 109	11/17/19 12:36	11/18/19 02:19	1
2-Fluorobiphenyl	54		29 - 107	11/17/19 12:36	11/18/19 02:19	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	7.3	U	7.3	1.2	ug/Kg	☼	11/17/19 08:26	11/20/19 05:53	1
4,4'-DDE	4.3	J	7.3	0.87	ug/Kg	☼	11/17/19 08:26	11/20/19 05:53	1
4,4'-DDT	2.7	J	7.3	1.3	ug/Kg	☼	11/17/19 08:26	11/20/19 05:53	1
Aldrin	7.3	U	7.3	1.1	ug/Kg	☼	11/17/19 08:26	11/20/19 05:53	1
alpha-BHC	2.2	U	2.2	0.74	ug/Kg	☼	11/17/19 08:26	11/20/19 05:53	1
beta-BHC	2.2	U	2.2	0.82	ug/Kg	☼	11/17/19 08:26	11/20/19 05:53	1
Chlordane (technical)	73	U	73	18	ug/Kg	☼	11/17/19 08:26	11/20/19 05:53	1
delta-BHC	2.2	U	2.2	0.45	ug/Kg	☼	11/17/19 08:26	11/20/19 05:53	1
Dieldrin	2.2	U	2.2	0.95	ug/Kg	☼	11/17/19 08:26	11/20/19 05:53	1
Endosulfan I	7.3	U	7.3	1.1	ug/Kg	☼	11/17/19 08:26	11/20/19 05:53	1
Endosulfan II	7.3	U	7.3	1.9	ug/Kg	☼	11/17/19 08:26	11/20/19 05:53	1
Endosulfan sulfate	7.3	U	7.3	0.92	ug/Kg	☼	11/17/19 08:26	11/20/19 05:53	1
Endrin	7.3	U	7.3	1.1	ug/Kg	☼	11/17/19 08:26	11/20/19 05:53	1
Endrin aldehyde	7.3	U	7.3	1.7	ug/Kg	☼	11/17/19 08:26	11/20/19 05:53	1

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Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196639-1

Client Sample ID: WSG-C11-COMP-0

Lab Sample ID: 460-196639-32

Date Collected: 11/12/19 09:45

Matrix: Solid

Date Received: 11/15/19 21:07

Percent Solids: 91.3

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endrin ketone	7.3	U	7.3	1.4	ug/Kg	☼	11/17/19 08:26	11/20/19 05:53	1
gamma-BHC (Lindane)	2.2	U	2.2	0.68	ug/Kg	☼	11/17/19 08:26	11/20/19 05:53	1
Heptachlor	7.3	U	7.3	0.87	ug/Kg	☼	11/17/19 08:26	11/20/19 05:53	1
Heptachlor epoxide	7.3	U	7.3	1.1	ug/Kg	☼	11/17/19 08:26	11/20/19 05:53	1
Methoxychlor	7.3	U	7.3	1.7	ug/Kg	☼	11/17/19 08:26	11/20/19 05:53	1
Toxaphene	73	U	73	27	ug/Kg	☼	11/17/19 08:26	11/20/19 05:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	95		49 - 150	11/17/19 08:26	11/20/19 05:53	1
DCB Decachlorobiphenyl	122		49 - 150	11/17/19 08:26	11/20/19 05:53	1
Tetrachloro-m-xylene	86		47 - 150	11/17/19 08:26	11/20/19 05:53	1
Tetrachloro-m-xylene	89		47 - 150	11/17/19 08:26	11/20/19 05:53	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	73	U	73	9.7	ug/Kg	☼	11/17/19 08:18	11/18/19 11:32	1
Aroclor 1221	73	U	73	9.7	ug/Kg	☼	11/17/19 08:18	11/18/19 11:32	1
Aroclor 1232	73	U	73	9.7	ug/Kg	☼	11/17/19 08:18	11/18/19 11:32	1
Aroclor 1242	73	U	73	9.7	ug/Kg	☼	11/17/19 08:18	11/18/19 11:32	1
Aroclor 1248	73	U	73	9.7	ug/Kg	☼	11/17/19 08:18	11/18/19 11:32	1
Aroclor 1254	73	U	73	10	ug/Kg	☼	11/17/19 08:18	11/18/19 11:32	1
Aroclor 1260	73	U	73	10	ug/Kg	☼	11/17/19 08:18	11/18/19 11:32	1
Aroclor-1262	73	U	73	10	ug/Kg	☼	11/17/19 08:18	11/18/19 11:32	1
Aroclor 1268	73	U	73	10	ug/Kg	☼	11/17/19 08:18	11/18/19 11:32	1
Polychlorinated biphenyls, Total	73	U	73	10	ug/Kg	☼	11/17/19 08:18	11/18/19 11:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	108		53 - 150	11/17/19 08:18	11/18/19 11:32	1
DCB Decachlorobiphenyl	110		53 - 150	11/17/19 08:18	11/18/19 11:32	1

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	36	U	36	13	ug/Kg	☼	11/20/19 02:56	11/20/19 15:15	1
Silvex (2,4,5-TP)	36	U	36	3.8	ug/Kg	☼	11/20/19 02:56	11/20/19 15:15	1
2,4,5-T	36	U	36	7.8	ug/Kg	☼	11/20/19 02:56	11/20/19 15:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	116		30 - 150	11/20/19 02:56	11/20/19 15:15	1
2,4-Dichlorophenylacetic acid	123		30 - 150	11/20/19 02:56	11/20/19 15:15	1

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	0.20	U	0.20	0.043	ug/Kg	☼	11/21/19 08:43	11/30/19 03:06	1
Perfluoroheptanoic acid (PFHpA)	0.049	J	0.20	0.029	ug/Kg	☼	11/21/19 08:43	11/30/19 03:06	1
Perfluorooctanoic acid (PFOA)	0.15	J	0.20	0.087	ug/Kg	☼	11/21/19 08:43	11/30/19 03:06	1
Perfluorononanoic acid (PFNA)	0.067	J	0.20	0.036	ug/Kg	☼	11/21/19 08:43	11/30/19 03:06	1
Perfluorodecanoic acid (PFDA)	0.056	J	0.20	0.022	ug/Kg	☼	11/21/19 08:43	11/30/19 03:06	1
Perfluoroundecanoic acid (PFUnA)	0.044	J	0.20	0.036	ug/Kg	☼	11/21/19 08:43	11/30/19 03:06	1
Perfluorododecanoic acid (PFDoA)	0.20	U	0.20	0.068	ug/Kg	☼	11/21/19 08:43	11/30/19 03:06	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196639-1

Client Sample ID: WSG-C11-COMP-0

Lab Sample ID: 460-196639-32

Date Collected: 11/12/19 09:45

Matrix: Solid

Date Received: 11/15/19 21:07

Percent Solids: 91.3

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorotridecanoic acid (PFTriA)	0.20	U	0.20	0.052	ug/Kg	☼	11/21/19 08:43	11/30/19 03:06	1
Perfluorotetradecanoic acid (PFTeA)	0.20	U	0.20	0.055	ug/Kg	☼	11/21/19 08:43	11/30/19 03:06	1
Perfluorobutanesulfonic acid (PFBS)	0.20	U	0.20	0.025	ug/Kg	☼	11/21/19 08:43	11/30/19 03:06	1
Perfluorohexanesulfonic acid (PFHxS)	0.038	J	0.20	0.031	ug/Kg	☼	11/21/19 08:43	11/30/19 03:06	1
Perfluorooctanesulfonic acid (PFOS)	0.64	B	0.51	0.20	ug/Kg	☼	11/21/19 08:43	11/30/19 03:06	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.02	U	2.02	0.37	ug/Kg	☼	11/21/19 08:43	11/30/19 03:06	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.02	U	2.02	0.39	ug/Kg	☼	11/21/19 08:43	11/30/19 03:06	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C2 PFHxA	95		25 - 150				11/21/19 08:43	11/30/19 03:06	1
13C4 PFHpA	104		25 - 150				11/21/19 08:43	11/30/19 03:06	1
13C4 PFOA	97		25 - 150				11/21/19 08:43	11/30/19 03:06	1
13C5 PFNA	97		25 - 150				11/21/19 08:43	11/30/19 03:06	1
13C2 PFDA	91		25 - 150				11/21/19 08:43	11/30/19 03:06	1
13C2 PFUnA	94		25 - 150				11/21/19 08:43	11/30/19 03:06	1
13C2 PFDoA	99		25 - 150				11/21/19 08:43	11/30/19 03:06	1
13C2 PFTeDA	95		25 - 150				11/21/19 08:43	11/30/19 03:06	1
18O2 PFHxS	106		25 - 150				11/21/19 08:43	11/30/19 03:06	1
13C4 PFOS	95		25 - 150				11/21/19 08:43	11/30/19 03:06	1
d3-NMeFOSAA	73		25 - 150				11/21/19 08:43	11/30/19 03:06	1
d5-NEtFOSAA	78		25 - 150				11/21/19 08:43	11/30/19 03:06	1

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	4930		32.9	16.1	mg/Kg	☼	11/26/19 04:35	11/26/19 18:51	4
Silver	2.2	U	2.2	0.21	mg/Kg	☼	11/26/19 04:35	11/26/19 18:51	4
Aluminum	3990		43.8	12.4	mg/Kg	☼	11/26/19 04:35	11/26/19 18:51	4
Arsenic	2.8	J	3.3	1.3	mg/Kg	☼	11/26/19 04:35	11/26/19 18:51	4
Boron	5.2	J	11.0	3.0	mg/Kg	☼	11/26/19 04:35	11/26/19 18:51	4
Barium	10.1	J	43.8	2.4	mg/Kg	☼	11/26/19 04:35	11/26/19 18:51	4
Beryllium	0.20	J	0.44	0.097	mg/Kg	☼	11/26/19 04:35	11/26/19 18:51	4
Calcium	685	J	1100	64.5	mg/Kg	☼	11/26/19 04:35	11/26/19 18:51	4
Cadmium	0.88	U	0.88	0.15	mg/Kg	☼	11/26/19 04:35	11/26/19 18:51	4
Cobalt	1.3	J	11.0	1.3	mg/Kg	☼	11/26/19 04:35	11/26/19 18:51	4
Chromium	5.2	J	2.2	0.39	mg/Kg	☼	11/26/19 04:35	11/26/19 18:51	4
Copper	5.9	J	5.5	2.9	mg/Kg	☼	11/26/19 04:35	11/26/19 18:51	4
Potassium	223	J	1100	68.1	mg/Kg	☼	11/26/19 04:35	11/26/19 18:51	4
Magnesium	654	J	1100	63.8	mg/Kg	☼	11/26/19 04:35	11/26/19 18:51	4
Manganese	52.6	J	3.3	0.38	mg/Kg	☼	11/26/19 04:35	11/26/19 18:51	4
Molybdenum	4.4	U	4.4	1.0	mg/Kg	☼	11/26/19 04:35	11/26/19 18:51	4
Sodium	1100	U	1100	88.0	mg/Kg	☼	11/26/19 04:35	11/26/19 18:51	4
Nickel	2.7	J	8.8	0.80	mg/Kg	☼	11/26/19 04:35	11/26/19 18:51	4
Lead	6.0	J	2.2	0.57	mg/Kg	☼	11/26/19 04:35	11/26/19 18:51	4
Antimony	4.4	U	4.4	1.2	mg/Kg	☼	11/26/19 04:35	11/26/19 18:51	4
Selenium	4.4	U	4.4	2.6	mg/Kg	☼	11/26/19 04:35	11/26/19 18:51	4
Tin	11.0	U	11.0	7.1	mg/Kg	☼	11/26/19 04:35	11/26/19 18:51	4

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196639-1

Client Sample ID: WSG-C11-COMP-0

Lab Sample ID: 460-196639-32

Date Collected: 11/12/19 09:45

Matrix: Solid

Date Received: 11/15/19 21:07

Percent Solids: 91.3

Method: 6010D - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Strontium	3.2	J	4.4	0.44	mg/Kg	☼	11/26/19 04:35	11/26/19 18:51	4
Titanium	201		4.4	0.66	mg/Kg	☼	11/26/19 04:35	11/26/19 18:51	4
Thallium	4.4	U	4.4	0.70	mg/Kg	☼	11/26/19 04:35	11/26/19 18:51	4
Vanadium	8.3	J	11.0	0.73	mg/Kg	☼	11/26/19 04:35	11/26/19 18:51	4
Zinc	11.9		6.6	5.1	mg/Kg	☼	11/26/19 04:35	11/26/19 18:51	4

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.042		0.017	0.010	mg/Kg	☼	11/25/19 04:50	11/25/19 09:26	1

Client Sample ID: WSG-C7-COMP-0

Lab Sample ID: 460-196639-33

Date Collected: 11/12/19 10:30

Matrix: Solid

Date Received: 11/15/19 21:07

Percent Solids: 88.7

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.2	U	1.2	0.29	ug/Kg	☼	11/19/19 02:08	11/24/19 14:11	1
1,1,2,2-Tetrachloroethane	1.2	U	1.2	0.26	ug/Kg	☼	11/19/19 02:08	11/24/19 14:11	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.2	U	1.2	0.37	ug/Kg	☼	11/19/19 02:08	11/24/19 14:11	1
1,1,2-Trichloroethane	1.2	U	1.2	0.22	ug/Kg	☼	11/19/19 02:08	11/24/19 14:11	1
1,1-Dichloroethane	1.2	U	1.2	0.25	ug/Kg	☼	11/19/19 02:08	11/24/19 14:11	1
1,1-Dichloroethene	1.2	U	1.2	0.28	ug/Kg	☼	11/19/19 02:08	11/24/19 14:11	1
1,2,4-Trichlorobenzene	1.2	U	1.2	0.44	ug/Kg	☼	11/19/19 02:08	11/24/19 14:11	1
1,2-Dibromo-3-Chloropropane	1.2	U	1.2	0.57	ug/Kg	☼	11/19/19 02:08	11/24/19 14:11	1
1,2-Dichlorobenzene	1.2	U	1.2	0.18	ug/Kg	☼	11/19/19 02:08	11/24/19 14:11	1
1,2-Dichloroethane	1.2	U	1.2	0.37	ug/Kg	☼	11/19/19 02:08	11/24/19 14:11	1
1,2-Dichloropropane	1.2	U	1.2	0.52	ug/Kg	☼	11/19/19 02:08	11/24/19 14:11	1
1,3-Dichlorobenzene	1.2	U	1.2	0.20	ug/Kg	☼	11/19/19 02:08	11/24/19 14:11	1
1,4-Dichlorobenzene	1.2	U	1.2	0.28	ug/Kg	☼	11/19/19 02:08	11/24/19 14:11	1
2-Butanone (MEK)	6.2	U	6.2	3.3	ug/Kg	☼	11/19/19 02:08	11/24/19 14:11	1
2-Hexanone	6.2	U	6.2	2.1	ug/Kg	☼	11/19/19 02:08	11/24/19 14:11	1
4-Methyl-2-pentanone (MIBK)	6.2	U	6.2	1.9	ug/Kg	☼	11/19/19 02:08	11/24/19 14:11	1
Acetone	7.1	J	7.4	7.1	ug/Kg	☼	11/19/19 02:08	11/24/19 14:11	1
Benzene	1.2	U	1.2	0.32	ug/Kg	☼	11/19/19 02:08	11/24/19 14:11	1
Bromoform	1.2	U	1.2	0.52	ug/Kg	☼	11/19/19 02:08	11/24/19 14:11	1
Bromomethane	1.2	U	1.2	0.58	ug/Kg	☼	11/19/19 02:08	11/24/19 14:11	1
Carbon disulfide	1.2	U	1.2	0.33	ug/Kg	☼	11/19/19 02:08	11/24/19 14:11	1
Carbon tetrachloride	1.2	U	1.2	0.48	ug/Kg	☼	11/19/19 02:08	11/24/19 14:11	1
Chlorobenzene	1.2	U	1.2	0.22	ug/Kg	☼	11/19/19 02:08	11/24/19 14:11	1
Chlorodibromomethane	1.2	U	1.2	0.24	ug/Kg	☼	11/19/19 02:08	11/24/19 14:11	1
Chloroethane	1.2	U	1.2	0.64	ug/Kg	☼	11/19/19 02:08	11/24/19 14:11	1
Chloroform	1.2	U	1.2	0.39	ug/Kg	☼	11/19/19 02:08	11/24/19 14:11	1
Chloromethane	1.2	U	1.2	0.54	ug/Kg	☼	11/19/19 02:08	11/24/19 14:11	1
cis-1,2-Dichloroethene	1.2	U	1.2	0.19	ug/Kg	☼	11/19/19 02:08	11/24/19 14:11	1
cis-1,3-Dichloropropene	1.2	U	1.2	0.34	ug/Kg	☼	11/19/19 02:08	11/24/19 14:11	1
Cyclohexane	1.2	U	1.2	0.27	ug/Kg	☼	11/19/19 02:08	11/24/19 14:11	1
Dichlorobromomethane	1.2	U	1.2	0.32	ug/Kg	☼	11/19/19 02:08	11/24/19 14:11	1
Dichlorodifluoromethane	1.2	U	1.2	0.42	ug/Kg	☼	11/19/19 02:08	11/24/19 14:11	1
Ethylbenzene	1.2	U	1.2	0.25	ug/Kg	☼	11/19/19 02:08	11/24/19 14:11	1

Eurofins TestAmerica, Edison

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196639-1

Client Sample ID: WSG-C7-COMP-0

Lab Sample ID: 460-196639-33

Date Collected: 11/12/19 10:30

Matrix: Solid

Date Received: 11/15/19 21:07

Percent Solids: 88.7

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide	1.2	U	1.2	0.22	ug/Kg	☒	11/19/19 02:08	11/24/19 14:11	1
Isopropylbenzene	1.2	U	1.2	0.16	ug/Kg	☒	11/19/19 02:08	11/24/19 14:11	1
Methyl acetate	6.2	U *	6.2	5.3	ug/Kg	☒	11/19/19 02:08	11/24/19 14:11	1
Methyl tert-butyl ether	1.2	U	1.2	0.15	ug/Kg	☒	11/19/19 02:08	11/24/19 14:11	1
Methylcyclohexane	1.2	U	1.2	0.62	ug/Kg	☒	11/19/19 02:08	11/24/19 14:11	1
Methylene Chloride	1.2	U	1.2	0.57	ug/Kg	☒	11/19/19 02:08	11/24/19 14:11	1
Styrene	1.2	U	1.2	0.34	ug/Kg	☒	11/19/19 02:08	11/24/19 14:11	1
Tetrachloroethene	1.2	U	1.2	0.18	ug/Kg	☒	11/19/19 02:08	11/24/19 14:11	1
Toluene	1.2	U	1.2	0.29	ug/Kg	☒	11/19/19 02:08	11/24/19 14:11	1
trans-1,2-Dichloroethene	1.2	U	1.2	0.30	ug/Kg	☒	11/19/19 02:08	11/24/19 14:11	1
trans-1,3-Dichloropropene	1.2	U	1.2	0.33	ug/Kg	☒	11/19/19 02:08	11/24/19 14:11	1
Trichloroethene	1.2	U	1.2	0.18	ug/Kg	☒	11/19/19 02:08	11/24/19 14:11	1
Trichlorofluoromethane	1.2	U	1.2	0.50	ug/Kg	☒	11/19/19 02:08	11/24/19 14:11	1
Vinyl chloride	1.2	U	1.2	0.67	ug/Kg	☒	11/19/19 02:08	11/24/19 14:11	1
Xylenes, Total	2.5	U	2.5	0.21	ug/Kg	☒	11/19/19 02:08	11/24/19 14:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	112		78 - 135	11/19/19 02:08	11/24/19 14:11	1
4-Bromofluorobenzene	114		67 - 126	11/19/19 02:08	11/24/19 14:11	1
Dibromofluoromethane (Surr)	112		61 - 149	11/19/19 02:08	11/24/19 14:11	1
Toluene-d8 (Surr)	109		73 - 121	11/19/19 02:08	11/24/19 14:11	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	370	U	370	4.9	ug/Kg	☒	11/17/19 12:36	11/18/19 07:38	1
2,2'-oxybis[1-chloropropane]	370	U	370	6.7	ug/Kg	☒	11/17/19 12:36	11/18/19 07:38	1
2,4,5-Trichlorophenol	370	U	370	38	ug/Kg	☒	11/17/19 12:36	11/18/19 07:38	1
2,4,6-Trichlorophenol	150	U	150	48	ug/Kg	☒	11/17/19 12:36	11/18/19 07:38	1
2,4-Dichlorophenol	150	U	150	24	ug/Kg	☒	11/17/19 12:36	11/18/19 07:38	1
2,4-Dimethylphenol	370	U	370	16	ug/Kg	☒	11/17/19 12:36	11/18/19 07:38	1
2,4-Dinitrophenol	300	U	300	180	ug/Kg	☒	11/17/19 12:36	11/18/19 07:38	1
2,4-Dinitrotoluene	75	U	75	40	ug/Kg	☒	11/17/19 12:36	11/18/19 07:38	1
2,6-Dinitrotoluene	75	U	75	27	ug/Kg	☒	11/17/19 12:36	11/18/19 07:38	1
2-Chloronaphthalene	370	U	370	17	ug/Kg	☒	11/17/19 12:36	11/18/19 07:38	1
2-Chlorophenol	370	U	370	13	ug/Kg	☒	11/17/19 12:36	11/18/19 07:38	1
2-Methylnaphthalene	370	U	370	10	ug/Kg	☒	11/17/19 12:36	11/18/19 07:38	1
2-Methylphenol	370	U	370	14	ug/Kg	☒	11/17/19 12:36	11/18/19 07:38	1
2-Nitroaniline	370	U	370	14	ug/Kg	☒	11/17/19 12:36	11/18/19 07:38	1
2-Nitrophenol	370	U	370	37	ug/Kg	☒	11/17/19 12:36	11/18/19 07:38	1
3,3'-Dichlorobenzidine	150	U	150	56	ug/Kg	☒	11/17/19 12:36	11/18/19 07:38	1
3-Nitroaniline	370	U	370	42	ug/Kg	☒	11/17/19 12:36	11/18/19 07:38	1
4,6-Dinitro-2-methylphenol	300	U	300	60	ug/Kg	☒	11/17/19 12:36	11/18/19 07:38	1
4-Bromophenyl phenyl ether	370	U	370	15	ug/Kg	☒	11/17/19 12:36	11/18/19 07:38	1
4-Chloro-3-methylphenol	370	U	370	21	ug/Kg	☒	11/17/19 12:36	11/18/19 07:38	1
4-Chloroaniline	370	U	370	26	ug/Kg	☒	11/17/19 12:36	11/18/19 07:38	1
4-Chlorophenyl phenyl ether	370	U	370	13	ug/Kg	☒	11/17/19 12:36	11/18/19 07:38	1
4-Methylphenol	370	U	370	23	ug/Kg	☒	11/17/19 12:36	11/18/19 07:38	1
4-Nitroaniline	370	U	370	43	ug/Kg	☒	11/17/19 12:36	11/18/19 07:38	1
4-Nitrophenol	750	U	750	61	ug/Kg	☒	11/17/19 12:36	11/18/19 07:38	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196639-1

Client Sample ID: WSG-C7-COMP-0

Lab Sample ID: 460-196639-33

Date Collected: 11/12/19 10:30

Matrix: Solid

Date Received: 11/15/19 21:07

Percent Solids: 88.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	370	U	370	27	ug/Kg	☒	11/17/19 12:36	11/18/19 07:38	1
Acenaphthylene	370	U	370	3.9	ug/Kg	☒	11/17/19 12:36	11/18/19 07:38	1
Acetophenone	370	U	370	18	ug/Kg	☒	11/17/19 12:36	11/18/19 07:38	1
Anthracene	370	U	370	11	ug/Kg	☒	11/17/19 12:36	11/18/19 07:38	1
Atrazine	150	U	150	9.4	ug/Kg	☒	11/17/19 12:36	11/18/19 07:38	1
Benzaldehyde	370	U	370	16	ug/Kg	☒	11/17/19 12:36	11/18/19 07:38	1
Benzo[a]anthracene	37	U	37	13	ug/Kg	☒	11/17/19 12:36	11/18/19 07:38	1
Benzo[a]pyrene	37	U	37	9.9	ug/Kg	☒	11/17/19 12:36	11/18/19 07:38	1
Benzo[b]fluoranthene	37	U	37	9.6	ug/Kg	☒	11/17/19 12:36	11/18/19 07:38	1
Benzo[g,h,i]perylene	370	U	370	11	ug/Kg	☒	11/17/19 12:36	11/18/19 07:38	1
Benzo[k]fluoranthene	37	U	37	7.3	ug/Kg	☒	11/17/19 12:36	11/18/19 07:38	1
Bis(2-chloroethoxy)methane	370	U	370	29	ug/Kg	☒	11/17/19 12:36	11/18/19 07:38	1
Bis(2-chloroethyl)ether	37	U	37	13	ug/Kg	☒	11/17/19 12:36	11/18/19 07:38	1
Bis(2-ethylhexyl) phthalate	370	U	370	20	ug/Kg	☒	11/17/19 12:36	11/18/19 07:38	1
Butyl benzyl phthalate	370	U	370	17	ug/Kg	☒	11/17/19 12:36	11/18/19 07:38	1
Caprolactam	370	U	370	58	ug/Kg	☒	11/17/19 12:36	11/18/19 07:38	1
Carbazole	370	U	370	14	ug/Kg	☒	11/17/19 12:36	11/18/19 07:38	1
Chrysene	370	U	370	6.3	ug/Kg	☒	11/17/19 12:36	11/18/19 07:38	1
Dibenz(a,h)anthracene	37	U	37	16	ug/Kg	☒	11/17/19 12:36	11/18/19 07:38	1
Dibenzofuran	370	U	370	5.2	ug/Kg	☒	11/17/19 12:36	11/18/19 07:38	1
Diethyl phthalate	370	U	370	5.4	ug/Kg	☒	11/17/19 12:36	11/18/19 07:38	1
Dimethyl phthalate	370	U	370	85	ug/Kg	☒	11/17/19 12:36	11/18/19 07:38	1
Di-n-butyl phthalate	370	U	370	66	ug/Kg	☒	11/17/19 12:36	11/18/19 07:38	1
Di-n-octyl phthalate	370	U	370	20	ug/Kg	☒	11/17/19 12:36	11/18/19 07:38	1
Fluoranthene	370	U	370	13	ug/Kg	☒	11/17/19 12:36	11/18/19 07:38	1
Fluorene	370	U	370	5.1	ug/Kg	☒	11/17/19 12:36	11/18/19 07:38	1
Hexachlorobenzene	37	U	37	18	ug/Kg	☒	11/17/19 12:36	11/18/19 07:38	1
Hexachlorobutadiene	75	U	75	7.9	ug/Kg	☒	11/17/19 12:36	11/18/19 07:38	1
Hexachlorocyclopentadiene	370	U	370	33	ug/Kg	☒	11/17/19 12:36	11/18/19 07:38	1
Hexachloroethane	37	U	37	13	ug/Kg	☒	11/17/19 12:36	11/18/19 07:38	1
Indeno[1,2,3-cd]pyrene	37	U	37	15	ug/Kg	☒	11/17/19 12:36	11/18/19 07:38	1
Isophorone	150	U	150	110	ug/Kg	☒	11/17/19 12:36	11/18/19 07:38	1
Naphthalene	370	U	370	6.4	ug/Kg	☒	11/17/19 12:36	11/18/19 07:38	1
Nitrobenzene	37	U	37	8.9	ug/Kg	☒	11/17/19 12:36	11/18/19 07:38	1
N-Nitrosodi-n-propylamine	37	U	37	27	ug/Kg	☒	11/17/19 12:36	11/18/19 07:38	1
N-Nitrosodiphenylamine	370	U	370	7.1	ug/Kg	☒	11/17/19 12:36	11/18/19 07:38	1
Pentachlorophenol	300	U	300	76	ug/Kg	☒	11/17/19 12:36	11/18/19 07:38	1
Phenanthrene	370	U	370	6.5	ug/Kg	☒	11/17/19 12:36	11/18/19 07:38	1
Phenol	370	U	370	14	ug/Kg	☒	11/17/19 12:36	11/18/19 07:38	1
Pyrene	370	U	370	9.3	ug/Kg	☒	11/17/19 12:36	11/18/19 07:38	1
1,4-Dioxane	110	U	110	10	ug/Kg	☒	11/17/19 12:36	11/18/19 07:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	52		10 - 137	11/17/19 12:36	11/18/19 07:38	1
2-Fluorophenol (Surr)	58		20 - 115	11/17/19 12:36	11/18/19 07:38	1
Nitrobenzene-d5 (Surr)	55		25 - 113	11/17/19 12:36	11/18/19 07:38	1
Terphenyl-d14 (Surr)	64		27 - 123	11/17/19 12:36	11/18/19 07:38	1
Phenol-d5 (Surr)	54		28 - 109	11/17/19 12:36	11/18/19 07:38	1
2-Fluorobiphenyl	52		29 - 107	11/17/19 12:36	11/18/19 07:38	1

Eurofins TestAmerica, Edison

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196639-1

Client Sample ID: WSG-C7-COMP-0

Lab Sample ID: 460-196639-33

Date Collected: 11/12/19 10:30

Matrix: Solid

Date Received: 11/15/19 21:07

Percent Solids: 88.7

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	7.6	U	7.6	1.3	ug/Kg	☒	11/17/19 08:26	11/19/19 13:26	1
4,4'-DDE	9.3		7.6	0.89	ug/Kg	☒	11/17/19 08:26	11/19/19 13:26	1
4,4'-DDT	9.2		7.6	1.4	ug/Kg	☒	11/17/19 08:26	11/19/19 13:26	1
Aldrin	7.6	U	7.6	1.1	ug/Kg	☒	11/17/19 08:26	11/19/19 13:26	1
alpha-BHC	2.3	U	2.3	0.77	ug/Kg	☒	11/17/19 08:26	11/19/19 13:26	1
beta-BHC	2.3	U	2.3	0.85	ug/Kg	☒	11/17/19 08:26	11/19/19 13:26	1
Chlordane (technical)	76	U	76	18	ug/Kg	☒	11/17/19 08:26	11/19/19 13:26	1
delta-BHC	2.3	U	2.3	0.46	ug/Kg	☒	11/17/19 08:26	11/19/19 13:26	1
Dieldrin	2.3	U	2.3	0.98	ug/Kg	☒	11/17/19 08:26	11/19/19 13:26	1
Endosulfan I	7.6	U	7.6	1.2	ug/Kg	☒	11/17/19 08:26	11/19/19 13:26	1
Endosulfan II	7.6	U	7.6	1.9	ug/Kg	☒	11/17/19 08:26	11/19/19 13:26	1
Endosulfan sulfate	7.6	U	7.6	0.95	ug/Kg	☒	11/17/19 08:26	11/19/19 13:26	1
Endrin	7.6	U	7.6	1.1	ug/Kg	☒	11/17/19 08:26	11/19/19 13:26	1
Endrin aldehyde	7.6	U	7.6	1.8	ug/Kg	☒	11/17/19 08:26	11/19/19 13:26	1
Endrin ketone	7.6	U	7.6	1.5	ug/Kg	☒	11/17/19 08:26	11/19/19 13:26	1
gamma-BHC (Lindane)	2.3	U	2.3	0.70	ug/Kg	☒	11/17/19 08:26	11/19/19 13:26	1
Heptachlor	7.6	U	7.6	0.89	ug/Kg	☒	11/17/19 08:26	11/19/19 13:26	1
Heptachlor epoxide	7.6	U	7.6	1.1	ug/Kg	☒	11/17/19 08:26	11/19/19 13:26	1
Methoxychlor	7.6	U	7.6	1.7	ug/Kg	☒	11/17/19 08:26	11/19/19 13:26	1
Toxaphene	76	U	76	27	ug/Kg	☒	11/17/19 08:26	11/19/19 13:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>DCB Decachlorobiphenyl</i>	62		49 - 150	11/17/19 08:26	11/19/19 13:26	1
<i>DCB Decachlorobiphenyl</i>	69		49 - 150	11/17/19 08:26	11/19/19 13:26	1
<i>Tetrachloro-m-xylene</i>	66		47 - 150	11/17/19 08:26	11/19/19 13:26	1
<i>Tetrachloro-m-xylene</i>	65		47 - 150	11/17/19 08:26	11/19/19 13:26	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	76	U	76	10	ug/Kg	☒	11/17/19 08:18	11/18/19 16:33	1
Aroclor 1221	76	U	76	10	ug/Kg	☒	11/17/19 08:18	11/18/19 16:33	1
Aroclor 1232	76	U	76	10	ug/Kg	☒	11/17/19 08:18	11/18/19 16:33	1
Aroclor 1242	76	U	76	10	ug/Kg	☒	11/17/19 08:18	11/18/19 16:33	1
Aroclor 1248	76	U	76	10	ug/Kg	☒	11/17/19 08:18	11/18/19 16:33	1
Aroclor 1254	76	U	76	10	ug/Kg	☒	11/17/19 08:18	11/18/19 16:33	1
Aroclor 1260	76	U	76	10	ug/Kg	☒	11/17/19 08:18	11/18/19 16:33	1
Aroclor-1262	76	U	76	10	ug/Kg	☒	11/17/19 08:18	11/18/19 16:33	1
Aroclor 1268	76	U	76	10	ug/Kg	☒	11/17/19 08:18	11/18/19 16:33	1
Polychlorinated biphenyls, Total	76	U	76	10	ug/Kg	☒	11/17/19 08:18	11/18/19 16:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>DCB Decachlorobiphenyl</i>	73		53 - 150	11/17/19 08:18	11/18/19 16:33	1
<i>DCB Decachlorobiphenyl</i>	86		53 - 150	11/17/19 08:18	11/18/19 16:33	1

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	38	U	38	14	ug/Kg	☒	11/20/19 02:56	11/20/19 18:29	1
Silvex (2,4,5-TP)	38	U	38	3.9	ug/Kg	☒	11/20/19 02:56	11/20/19 18:29	1
2,4,5-T	38	U	38	8.0	ug/Kg	☒	11/20/19 02:56	11/20/19 18:29	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196639-1

Client Sample ID: WSG-C7-COMP-0

Lab Sample ID: 460-196639-33

Date Collected: 11/12/19 10:30

Matrix: Solid

Date Received: 11/15/19 21:07

Percent Solids: 88.7

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	130		30 - 150	11/20/19 02:56	11/20/19 18:29	1
2,4-Dichlorophenylacetic acid	129		30 - 150	11/20/19 02:56	11/20/19 18:29	1

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	0.22	U	0.22	0.046	ug/Kg	☼	11/21/19 08:43	11/30/19 03:36	1
Perfluoroheptanoic acid (PFHpA)	0.22	U	0.22	0.031	ug/Kg	☼	11/21/19 08:43	11/30/19 03:36	1
Perfluorooctanoic acid (PFOA)	0.22	U	0.22	0.093	ug/Kg	☼	11/21/19 08:43	11/30/19 03:36	1
Perfluorononanoic acid (PFNA)	0.22	U	0.22	0.039	ug/Kg	☼	11/21/19 08:43	11/30/19 03:36	1
Perfluorodecanoic acid (PFDA)	0.040	J	0.22	0.024	ug/Kg	☼	11/21/19 08:43	11/30/19 03:36	1
Perfluoroundecanoic acid (PFUnA)	0.22	U	0.22	0.039	ug/Kg	☼	11/21/19 08:43	11/30/19 03:36	1
Perfluorododecanoic acid (PFDoA)	0.22	U	0.22	0.073	ug/Kg	☼	11/21/19 08:43	11/30/19 03:36	1
Perfluorotridecanoic acid (PFTriA)	0.22	U	0.22	0.055	ug/Kg	☼	11/21/19 08:43	11/30/19 03:36	1
Perfluorotetradecanoic acid (PFTeA)	0.22	U	0.22	0.059	ug/Kg	☼	11/21/19 08:43	11/30/19 03:36	1
Perfluorobutanesulfonic acid (PFBS)	0.22	U	0.22	0.027	ug/Kg	☼	11/21/19 08:43	11/30/19 03:36	1
Perfluorohexanesulfonic acid (PFHxS)	0.22	U	0.22	0.034	ug/Kg	☼	11/21/19 08:43	11/30/19 03:36	1
Perfluorooctanesulfonic acid (PFOS)	0.39	J B	0.54	0.22	ug/Kg	☼	11/21/19 08:43	11/30/19 03:36	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.17	U	2.17	0.40	ug/Kg	☼	11/21/19 08:43	11/30/19 03:36	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.17	U	2.17	0.42	ug/Kg	☼	11/21/19 08:43	11/30/19 03:36	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFHxA	99		25 - 150	11/21/19 08:43	11/30/19 03:36	1
13C4 PFHpA	109		25 - 150	11/21/19 08:43	11/30/19 03:36	1
13C4 PFOA	107		25 - 150	11/21/19 08:43	11/30/19 03:36	1
13C5 PFNA	105		25 - 150	11/21/19 08:43	11/30/19 03:36	1
13C2 PFDA	107		25 - 150	11/21/19 08:43	11/30/19 03:36	1
13C2 PFUnA	112		25 - 150	11/21/19 08:43	11/30/19 03:36	1
13C2 PFDoA	109		25 - 150	11/21/19 08:43	11/30/19 03:36	1
13C2 PFTeDA	116		25 - 150	11/21/19 08:43	11/30/19 03:36	1
18O2 PFHxS	113		25 - 150	11/21/19 08:43	11/30/19 03:36	1
13C4 PFOS	107		25 - 150	11/21/19 08:43	11/30/19 03:36	1
d3-NMeFOSAA	92		25 - 150	11/21/19 08:43	11/30/19 03:36	1
d5-NEtFOSAA	94		25 - 150	11/21/19 08:43	11/30/19 03:36	1

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	7830		33.5	16.4	mg/Kg	☼	11/26/19 04:35	11/26/19 19:15	4
Silver	2.2	U	2.2	0.21	mg/Kg	☼	11/26/19 04:35	11/26/19 19:15	4
Aluminum	5770		44.7	12.6	mg/Kg	☼	11/26/19 04:35	11/26/19 19:15	4
Arsenic	6.3		3.3	1.3	mg/Kg	☼	11/26/19 04:35	11/26/19 19:15	4
Boron	6.6	J	11.2	3.1	mg/Kg	☼	11/26/19 04:35	11/26/19 19:15	4
Barium	15.4	J	44.7	2.5	mg/Kg	☼	11/26/19 04:35	11/26/19 19:15	4
Beryllium	0.26	J	0.45	0.099	mg/Kg	☼	11/26/19 04:35	11/26/19 19:15	4
Calcium	1640		1120	65.8	mg/Kg	☼	11/26/19 04:35	11/26/19 19:15	4
Cadmium	0.89	U	0.89	0.15	mg/Kg	☼	11/26/19 04:35	11/26/19 19:15	4
Cobalt	2.3	J	11.2	1.4	mg/Kg	☼	11/26/19 04:35	11/26/19 19:15	4
Chromium	8.3		2.2	0.40	mg/Kg	☼	11/26/19 04:35	11/26/19 19:15	4
Copper	11.1		5.6	3.0	mg/Kg	☼	11/26/19 04:35	11/26/19 19:15	4

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196639-1

Client Sample ID: WSG-C7-COMP-0

Lab Sample ID: 460-196639-33

Date Collected: 11/12/19 10:30

Matrix: Solid

Date Received: 11/15/19 21:07

Percent Solids: 88.7

Method: 6010D - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	358	J	1120	69.5	mg/Kg	☼	11/26/19 04:35	11/26/19 19:15	4
Magnesium	1320		1120	65.1	mg/Kg	☼	11/26/19 04:35	11/26/19 19:15	4
Manganese	94.5		3.3	0.39	mg/Kg	☼	11/26/19 04:35	11/26/19 19:15	4
Molybdenum	4.5	U	4.5	1.1	mg/Kg	☼	11/26/19 04:35	11/26/19 19:15	4
Sodium	1120	U	1120	89.8	mg/Kg	☼	11/26/19 04:35	11/26/19 19:15	4
Nickel	5.2	J	8.9	0.82	mg/Kg	☼	11/26/19 04:35	11/26/19 19:15	4
Lead	7.3		2.2	0.58	mg/Kg	☼	11/26/19 04:35	11/26/19 19:15	4
Antimony	4.5	U	4.5	1.2	mg/Kg	☼	11/26/19 04:35	11/26/19 19:15	4
Selenium	4.5	U	4.5	2.7	mg/Kg	☼	11/26/19 04:35	11/26/19 19:15	4
Tin	11.2	U	11.2	7.2	mg/Kg	☼	11/26/19 04:35	11/26/19 19:15	4
Strontium	6.2		4.5	0.45	mg/Kg	☼	11/26/19 04:35	11/26/19 19:15	4
Titanium	310		4.5	0.67	mg/Kg	☼	11/26/19 04:35	11/26/19 19:15	4
Thallium	4.5	U	4.5	0.71	mg/Kg	☼	11/26/19 04:35	11/26/19 19:15	4
Vanadium	12.1		11.2	0.74	mg/Kg	☼	11/26/19 04:35	11/26/19 19:15	4
Zinc	17.6		6.7	5.2	mg/Kg	☼	11/26/19 04:35	11/26/19 19:15	4

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.017	J	0.018	0.011	mg/Kg	☼	11/25/19 04:23	11/25/19 08:58	1

Client Sample ID: WSG-EB-LINER-20191111

Lab Sample ID: 460-196639-34

Date Collected: 11/11/19 10:30

Matrix: Water

Date Received: 11/15/19 21:07

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			11/23/19 09:54	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.37	ug/L			11/23/19 09:54	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			11/23/19 09:54	1
1,1,2-Trichloroethane	1.0	U	1.0	0.43	ug/L			11/23/19 09:54	1
1,1-Dichloroethane	1.0	U	1.0	0.26	ug/L			11/23/19 09:54	1
1,1-Dichloroethene	1.0	U	1.0	0.26	ug/L			11/23/19 09:54	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.37	ug/L			11/23/19 09:54	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.38	ug/L			11/23/19 09:54	1
1,2-Dichlorobenzene	1.0	U	1.0	0.43	ug/L			11/23/19 09:54	1
1,2-Dichloroethane	1.0	U	1.0	0.43	ug/L			11/23/19 09:54	1
1,2-Dichloropropane	1.0	U	1.0	0.35	ug/L			11/23/19 09:54	1
1,3-Dichlorobenzene	1.0	U	1.0	0.34	ug/L			11/23/19 09:54	1
1,4-Dichlorobenzene	1.0	U	1.0	0.33	ug/L			11/23/19 09:54	1
2-Butanone (MEK)	5.0	U	5.0	1.9	ug/L			11/23/19 09:54	1
2-Hexanone	5.0	U	5.0	1.1	ug/L			11/23/19 09:54	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	1.3	ug/L			11/23/19 09:54	1
Acetone	5.0	U	5.0	4.4	ug/L			11/23/19 09:54	1
Benzene	1.0	U	1.0	0.20	ug/L			11/23/19 09:54	1
Bromoform	1.0	U	1.0	0.54	ug/L			11/23/19 09:54	1
Bromomethane	1.0	U	1.0	0.55	ug/L			11/23/19 09:54	1
Carbon disulfide	1.0	U	1.0	0.82	ug/L			11/23/19 09:54	1
Carbon tetrachloride	1.0	U	1.0	0.21	ug/L			11/23/19 09:54	1
Chlorobenzene	1.0	U	1.0	0.38	ug/L			11/23/19 09:54	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196639-1

Client Sample ID: WSG-EB-LINER-20191111

Lab Sample ID: 460-196639-34

Date Collected: 11/11/19 10:30

Matrix: Water

Date Received: 11/15/19 21:07

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorodibromomethane	1.0	U	1.0	0.28	ug/L			11/23/19 09:54	1
Chloroethane	1.0	U	1.0	0.32	ug/L			11/23/19 09:54	1
Chloroform	1.0	U	1.0	0.33	ug/L			11/23/19 09:54	1
Chloromethane	1.0	U	1.0	0.40	ug/L			11/23/19 09:54	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.22	ug/L			11/23/19 09:54	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.22	ug/L			11/23/19 09:54	1
Cyclohexane	1.0	U	1.0	0.32	ug/L			11/23/19 09:54	1
Dichlorobromomethane	1.0	U	1.0	0.34	ug/L			11/23/19 09:54	1
Dichlorodifluoromethane	1.0	U	1.0	0.31	ug/L			11/23/19 09:54	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			11/23/19 09:54	1
Ethylene Dibromide	1.0	U	1.0	0.50	ug/L			11/23/19 09:54	1
Isopropylbenzene	1.0	U	1.0	0.34	ug/L			11/23/19 09:54	1
Methyl acetate	5.0	U	5.0	0.79	ug/L			11/23/19 09:54	1
Methyl tert-butyl ether	1.0	U	1.0	0.47	ug/L			11/23/19 09:54	1
Methylcyclohexane	1.0	U	1.0	0.26	ug/L			11/23/19 09:54	1
Methylene Chloride	1.0	U	1.0	0.32	ug/L			11/23/19 09:54	1
Styrene	1.0	U	1.0	0.42	ug/L			11/23/19 09:54	1
Tetrachloroethene	1.0	U	1.0	0.25	ug/L			11/23/19 09:54	1
Toluene	1.0	U	1.0	0.38	ug/L			11/23/19 09:54	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			11/23/19 09:54	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.49	ug/L			11/23/19 09:54	1
Trichloroethene	1.0	U	1.0	0.31	ug/L			11/23/19 09:54	1
Trichlorofluoromethane	1.0	U	1.0	0.32	ug/L			11/23/19 09:54	1
Vinyl chloride	1.0	U	1.0	0.17	ug/L			11/23/19 09:54	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			11/23/19 09:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	88		74 - 132		11/23/19 09:54	1
4-Bromofluorobenzene	86		77 - 124		11/23/19 09:54	1
Dibromofluoromethane (Surr)	97		72 - 131		11/23/19 09:54	1
Toluene-d8 (Surr)	98		80 - 120		11/23/19 09:54	1

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.40	U	0.40	0.17	ug/L		11/17/19 07:36	11/19/19 06:24	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	10	U	10	1.2	ug/L		11/17/19 07:36	11/18/19 01:19	1
2,2'-oxybis[1-chloropropane]	10	U *	10	0.63	ug/L		11/17/19 07:36	11/18/19 01:19	1
2,4,5-Trichlorophenol	10	U	10	0.88	ug/L		11/17/19 07:36	11/18/19 01:19	1
2,4,6-Trichlorophenol	10	U	10	0.86	ug/L		11/17/19 07:36	11/18/19 01:19	1
2,4-Dichlorophenol	10	U	10	1.1	ug/L		11/17/19 07:36	11/18/19 01:19	1
2,4-Dimethylphenol	10	U	10	0.62	ug/L		11/17/19 07:36	11/18/19 01:19	1
2,4-Dinitrophenol	20	U	20	14	ug/L		11/17/19 07:36	11/18/19 01:19	1
2,4-Dinitrotoluene	2.0	U	2.0	1.0	ug/L		11/17/19 07:36	11/18/19 01:19	1
2,6-Dinitrotoluene	2.0	U	2.0	0.83	ug/L		11/17/19 07:36	11/18/19 01:19	1
2-Chloronaphthalene	10	U	10	1.2	ug/L		11/17/19 07:36	11/18/19 01:19	1
2-Chlorophenol	10	U	10	0.38	ug/L		11/17/19 07:36	11/18/19 01:19	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196639-1

Client Sample ID: WSG-EB-LINER-20191111

Lab Sample ID: 460-196639-34

Date Collected: 11/11/19 10:30

Matrix: Water

Date Received: 11/15/19 21:07

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	10	U	10	1.1	ug/L		11/17/19 07:36	11/18/19 01:19	1
2-Methylphenol	10	U	10	0.67	ug/L		11/17/19 07:36	11/18/19 01:19	1
2-Nitroaniline	10	U	10	0.47	ug/L		11/17/19 07:36	11/18/19 01:19	1
2-Nitrophenol	10	U	10	0.75	ug/L		11/17/19 07:36	11/18/19 01:19	1
3,3'-Dichlorobenzidine	10	U	10	1.4	ug/L		11/17/19 07:36	11/18/19 01:19	1
3-Nitroaniline	10	U	10	1.9	ug/L		11/17/19 07:36	11/18/19 01:19	1
4,6-Dinitro-2-methylphenol	20	U	20	13	ug/L		11/17/19 07:36	11/18/19 01:19	1
4-Bromophenyl phenyl ether	10	U	10	0.75	ug/L		11/17/19 07:36	11/18/19 01:19	1
4-Chloro-3-methylphenol	10	U	10	0.58	ug/L		11/17/19 07:36	11/18/19 01:19	1
4-Chloroaniline	10	U	10	1.9	ug/L		11/17/19 07:36	11/18/19 01:19	1
4-Chlorophenyl phenyl ether	10	U	10	1.3	ug/L		11/17/19 07:36	11/18/19 01:19	1
4-Methylphenol	10	U	10	0.65	ug/L		11/17/19 07:36	11/18/19 01:19	1
4-Nitroaniline	10	U	10	1.2	ug/L		11/17/19 07:36	11/18/19 01:19	1
4-Nitrophenol	20	U	20	4.0	ug/L		11/17/19 07:36	11/18/19 01:19	1
Acenaphthene	10	U	10	1.1	ug/L		11/17/19 07:36	11/18/19 01:19	1
Acenaphthylene	10	U	10	0.82	ug/L		11/17/19 07:36	11/18/19 01:19	1
Acetophenone	10	U	10	2.3	ug/L		11/17/19 07:36	11/18/19 01:19	1
Anthracene	10	U	10	0.63	ug/L		11/17/19 07:36	11/18/19 01:19	1
Atrazine	2.0	U *	2.0	1.3	ug/L		11/17/19 07:36	11/18/19 01:19	1
Benzaldehyde	10	U	10	2.1	ug/L		11/17/19 07:36	11/18/19 01:19	1
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		11/17/19 07:36	11/18/19 01:19	1
Benzo[a]pyrene	1.0	U	1.0	0.41	ug/L		11/17/19 07:36	11/18/19 01:19	1
Benzo[b]fluoranthene	2.0	U	2.0	0.68	ug/L		11/17/19 07:36	11/18/19 01:19	1
Benzo[g,h,i]perylene	10	U	10	1.4	ug/L		11/17/19 07:36	11/18/19 01:19	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		11/17/19 07:36	11/18/19 01:19	1
Bis(2-chloroethoxy)methane	10	U *	10	0.59	ug/L		11/17/19 07:36	11/18/19 01:19	1
Bis(2-chloroethyl)ether	1.0	U	1.0	0.63	ug/L		11/17/19 07:36	11/18/19 01:19	1
Bis(2-ethylhexyl) phthalate	2.0	U	2.0	1.7	ug/L		11/17/19 07:36	11/18/19 01:19	1
Butyl benzyl phthalate	10	U	10	0.85	ug/L		11/17/19 07:36	11/18/19 01:19	1
Caprolactam	10	U	10	0.68	ug/L		11/17/19 07:36	11/18/19 01:19	1
Carbazole	10	U	10	0.68	ug/L		11/17/19 07:36	11/18/19 01:19	1
Chrysene	2.0	U	2.0	0.91	ug/L		11/17/19 07:36	11/18/19 01:19	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		11/17/19 07:36	11/18/19 01:19	1
Dibenzofuran	10	U	10	1.1	ug/L		11/17/19 07:36	11/18/19 01:19	1
Diethyl phthalate	10	U	10	0.98	ug/L		11/17/19 07:36	11/18/19 01:19	1
Dimethyl phthalate	10	U	10	0.77	ug/L		11/17/19 07:36	11/18/19 01:19	1
Di-n-butyl phthalate	10	U	10	0.84	ug/L		11/17/19 07:36	11/18/19 01:19	1
Di-n-octyl phthalate	10	U	10	4.8	ug/L		11/17/19 07:36	11/18/19 01:19	1
Fluoranthene	10	U	10	0.84	ug/L		11/17/19 07:36	11/18/19 01:19	1
Fluorene	10	U	10	0.91	ug/L		11/17/19 07:36	11/18/19 01:19	1
Hexachlorobenzene	1.0	U	1.0	0.40	ug/L		11/17/19 07:36	11/18/19 01:19	1
Hexachlorobutadiene	1.0	U	1.0	0.78	ug/L		11/17/19 07:36	11/18/19 01:19	1
Hexachlorocyclopentadiene	10	U	10	3.6	ug/L		11/17/19 07:36	11/18/19 01:19	1
Hexachloroethane	2.0	U	2.0	0.80	ug/L		11/17/19 07:36	11/18/19 01:19	1
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	0.94	ug/L		11/17/19 07:36	11/18/19 01:19	1
Isophorone	10	U *	10	0.80	ug/L		11/17/19 07:36	11/18/19 01:19	1
Naphthalene	10	U	10	1.1	ug/L		11/17/19 07:36	11/18/19 01:19	1
Nitrobenzene	1.0	U	1.0	0.57	ug/L		11/17/19 07:36	11/18/19 01:19	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196639-1

Client Sample ID: WSG-EB-LINER-20191111

Lab Sample ID: 460-196639-34

Date Collected: 11/11/19 10:30

Matrix: Water

Date Received: 11/15/19 21:07

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	1.0	U	1.0	0.43	ug/L		11/17/19 07:36	11/18/19 01:19	1
N-Nitrosodiphenylamine	10	U	10	0.89	ug/L		11/17/19 07:36	11/18/19 01:19	1
Pentachlorophenol	20	U	20	1.4	ug/L		11/17/19 07:36	11/18/19 01:19	1
Phenanthrene	10	U	10	0.58	ug/L		11/17/19 07:36	11/18/19 01:19	1
Phenol	10	U	10	0.29	ug/L		11/17/19 07:36	11/18/19 01:19	1
Pyrene	10	U	10	1.6	ug/L		11/17/19 07:36	11/18/19 01:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	92		26 - 139	11/17/19 07:36	11/18/19 01:19	1
2-Fluorophenol (Surr)	56		25 - 58	11/17/19 07:36	11/18/19 01:19	1
Nitrobenzene-d5 (Surr)	101		51 - 108	11/17/19 07:36	11/18/19 01:19	1
Terphenyl-d14 (Surr)	85		40 - 148	11/17/19 07:36	11/18/19 01:19	1
Phenol-d5 (Surr)	41 *		14 - 39	11/17/19 07:36	11/18/19 01:19	1
2-Fluorobiphenyl	80		45 - 107	11/17/19 07:36	11/18/19 01:19	1

Method: 608.3 - Organochlorine Pesticides/PCBs in Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.020	U	0.020	0.012	ug/L		11/17/19 16:19	11/22/19 08:25	1
alpha-BHC	0.020	U	0.020	0.013	ug/L		11/17/19 16:19	11/22/19 08:25	1
beta-BHC	0.030	U	0.030	0.015	ug/L		11/17/19 16:19	11/22/19 08:25	1
delta-BHC	0.020	U	0.020	0.0090	ug/L		11/17/19 16:19	11/22/19 08:25	1
gamma-BHC (Lindane)	0.030	U	0.030	0.013	ug/L		11/17/19 16:19	11/22/19 08:25	1
Chlordane	0.50	U	0.50	0.093	ug/L		11/17/19 16:19	11/22/19 08:25	1
4,4'-DDD	0.040	U	0.040	0.018	ug/L		11/17/19 16:19	11/22/19 08:25	1
4,4'-DDE	0.030	U	0.030	0.018	ug/L		11/17/19 16:19	11/22/19 08:25	1
4,4'-DDT	0.030	U	0.030	0.025	ug/L		11/17/19 16:19	11/22/19 08:25	1
Dieldrin	0.020	U	0.020	0.016	ug/L		11/17/19 16:19	11/22/19 08:25	1
Endosulfan I	0.030	U	0.030	0.014	ug/L		11/17/19 16:19	11/22/19 08:25	1
Endosulfan II	0.030	U	0.030	0.017	ug/L		11/17/19 16:19	11/22/19 08:25	1
Endosulfan sulfate	0.030	U *	0.030	0.015	ug/L		11/17/19 16:19	11/22/19 08:25	1
Endrin	0.030	U *	0.030	0.021	ug/L		11/17/19 16:19	11/22/19 08:25	1
Endrin aldehyde	0.030	U	0.030	0.024	ug/L		11/17/19 16:19	11/22/19 08:25	1
Endrin ketone	0.030	U *	0.030	0.013	ug/L		11/17/19 16:19	11/22/19 08:25	1
Heptachlor	0.030	U	0.030	0.014	ug/L		11/17/19 16:19	11/22/19 08:25	1
Heptachlor epoxide	0.030	U	0.030	0.014	ug/L		11/17/19 16:19	11/22/19 08:25	1
Methoxychlor	0.030	U	0.030	0.030	ug/L		11/17/19 16:19	11/22/19 08:25	1
Toxaphene	0.50	U	0.50	0.20	ug/L		11/17/19 16:19	11/22/19 08:25	1
Aroclor 1016	1.0	U	1.0	0.030	ug/L		11/17/19 16:19	11/22/19 08:25	1
Aroclor 1221	1.0	U	1.0	0.030	ug/L		11/17/19 16:19	11/22/19 08:25	1
Aroclor 1232	1.0	U	1.0	0.030	ug/L		11/17/19 16:19	11/22/19 08:25	1
Aroclor 1242	1.0	U	1.0	0.030	ug/L		11/17/19 16:19	11/22/19 08:25	1
Aroclor 1248	1.0	U	1.0	0.030	ug/L		11/17/19 16:19	11/22/19 08:25	1
Aroclor 1254	1.0	U	1.0	0.037	ug/L		11/17/19 16:19	11/22/19 08:25	1
Aroclor 1260	1.0	U	1.0	0.037	ug/L		11/17/19 16:19	11/22/19 08:25	1
Aroclor 1262	1.0	U	1.0	0.037	ug/L		11/17/19 16:19	11/22/19 08:25	1
Aroclor 1268	1.0	U	1.0	0.037	ug/L		11/17/19 16:19	11/22/19 08:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	73		10 - 150	11/17/19 16:19	11/22/19 08:25	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196639-1

Client Sample ID: WSG-EB-LINER-20191111

Lab Sample ID: 460-196639-34

Date Collected: 11/11/19 10:30

Matrix: Water

Date Received: 11/15/19 21:07

Method: 608.3 - Organochlorine Pesticides/PCBs in Water (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	94		10 - 150	11/17/19 16:19	11/22/19 08:25	1
DCB Decachlorobiphenyl	44		10 - 150	11/17/19 16:19	11/22/19 08:25	1
DCB Decachlorobiphenyl	64		10 - 150	11/17/19 16:19	11/22/19 08:25	1

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	1.2	U *	1.2	0.13	ug/L		11/18/19 21:23	11/19/19 11:09	1
Silvex (2,4,5-TP)	1.2	U	1.2	0.11	ug/L		11/18/19 21:23	11/19/19 11:09	1
2,4,5-T	1.2	U	1.2	0.12	ug/L		11/18/19 21:23	11/19/19 11:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	81		54 - 150	11/18/19 21:23	11/19/19 11:09	1
2,4-Dichlorophenylacetic acid	85		54 - 150	11/18/19 21:23	11/19/19 11:09	1

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	1.95	U	1.95	0.56	ng/L		11/20/19 06:29	11/22/19 02:22	1
Perfluoroheptanoic acid (PFHpA)	1.95	U	1.95	0.24	ng/L		11/20/19 06:29	11/22/19 02:22	1
Perfluorooctanoic acid (PFOA)	1.95	U	1.95	0.83	ng/L		11/20/19 06:29	11/22/19 02:22	1
Perfluorononanoic acid (PFNA)	1.95	U	1.95	0.26	ng/L		11/20/19 06:29	11/22/19 02:22	1
Perfluorodecanoic acid (PFDA)	1.95	U	1.95	0.30	ng/L		11/20/19 06:29	11/22/19 02:22	1
Perfluoroundecanoic acid (PFUnA)	1.95	U	1.95	1.07	ng/L		11/20/19 06:29	11/22/19 02:22	1
Perfluorododecanoic acid (PFDoA)	1.95	U	1.95	0.54	ng/L		11/20/19 06:29	11/22/19 02:22	1
Perfluorotridecanoic acid (PFTriA)	1.95	U	1.95	1.27	ng/L		11/20/19 06:29	11/22/19 02:22	1
Perfluorotetradecanoic acid (PFTeA)	0.37	J	1.95	0.28	ng/L		11/20/19 06:29	11/22/19 02:22	1
Perfluorobutanesulfonic acid (PFBS)	1.95	U	1.95	0.19	ng/L		11/20/19 06:29	11/22/19 02:22	1
Perfluorohexanesulfonic acid (PFHxS)	0.27	J B	1.95	0.17	ng/L		11/20/19 06:29	11/22/19 02:22	1
Perfluorooctanesulfonic acid (PFOS)	1.95	U	1.95	0.53	ng/L		11/20/19 06:29	11/22/19 02:22	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	19.5	U	19.5	1.85	ng/L		11/20/19 06:29	11/22/19 02:22	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	19.5	U	19.5	3.02	ng/L		11/20/19 06:29	11/22/19 02:22	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFHxA	105		25 - 150	11/20/19 06:29	11/22/19 02:22	1
13C4 PFHpA	111		25 - 150	11/20/19 06:29	11/22/19 02:22	1
13C4 PFOA	107		25 - 150	11/20/19 06:29	11/22/19 02:22	1
13C5 PFNA	102		25 - 150	11/20/19 06:29	11/22/19 02:22	1
13C2 PFDA	99		25 - 150	11/20/19 06:29	11/22/19 02:22	1
13C2 PFUnA	107		25 - 150	11/20/19 06:29	11/22/19 02:22	1
13C2 PFDoA	104		25 - 150	11/20/19 06:29	11/22/19 02:22	1
13C2 PFTeDA	97		25 - 150	11/20/19 06:29	11/22/19 02:22	1
18O2 PFHxS	124		25 - 150	11/20/19 06:29	11/22/19 02:22	1
13C4 PFOS	103		25 - 150	11/20/19 06:29	11/22/19 02:22	1
d3-NMeFOSAA	102		25 - 150	11/20/19 06:29	11/22/19 02:22	1
d5-NEtFOSAA	104		25 - 150	11/20/19 06:29	11/22/19 02:22	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196639-1

Client Sample ID: WSG-EB-LINER-20191111

Lab Sample ID: 460-196639-34

Date Collected: 11/11/19 10:30

Matrix: Water

Date Received: 11/15/19 21:07

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	150	U	150	34.2	ug/L		11/22/19 22:10	11/23/19 16:04	1
Silver	10.0	U	10.0	1.1	ug/L		11/22/19 22:10	11/23/19 16:04	1
Aluminum	200	U	200	28.6	ug/L		11/22/19 22:10	11/23/19 16:04	1
Arsenic	15.0	U	15.0	2.7	ug/L		11/22/19 22:10	11/23/19 16:04	1
Boron	50.0	U	50.0	12.7	ug/L		11/22/19 22:10	11/23/19 16:04	1
Barium	200	U	200	7.7	ug/L		11/22/19 22:10	11/23/19 16:04	1
Beryllium	2.0	U	2.0	0.23	ug/L		11/22/19 22:10	11/23/19 16:04	1
Calcium	5000	U	5000	222	ug/L		11/22/19 22:10	11/23/19 16:04	1
Cadmium	4.0	U	4.0	0.22	ug/L		11/22/19 22:10	11/23/19 16:04	1
Cobalt	50.0	U	50.0	1.7	ug/L		11/22/19 22:10	11/23/19 16:04	1
Chromium	10.0	U	10.0	1.3	ug/L		11/22/19 22:10	11/23/19 16:04	1
Copper	25.0	U	25.0	5.1	ug/L		11/22/19 22:10	11/23/19 16:04	1
Potassium	5000	U	5000	323	ug/L		11/22/19 22:10	11/23/19 16:04	1
Magnesium	5000	U	5000	177	ug/L		11/22/19 22:10	11/23/19 16:04	1
Manganese	1.1	J	15.0	0.99	ug/L		11/22/19 22:10	11/23/19 16:04	1
Molybdenum	20.0	U	20.0	3.3	ug/L		11/22/19 22:10	11/23/19 16:04	1
Sodium	5000	U	5000	460	ug/L		11/22/19 22:10	11/23/19 16:04	1
Nickel	40.0	U	40.0	1.7	ug/L		11/22/19 22:10	11/23/19 16:04	1
Lead	10.0	U	10.0	2.5	ug/L		11/22/19 22:10	11/23/19 16:04	1
Antimony	20.0	U	20.0	2.9	ug/L		11/22/19 22:10	11/23/19 16:04	1
Selenium	20.0	U	20.0	6.6	ug/L		11/22/19 22:10	11/23/19 16:04	1
Tin	50.0	U	50.0	2.4	ug/L		11/22/19 22:10	11/23/19 16:04	1
Strontium	20.0	U	20.0	0.70	ug/L		11/22/19 22:10	11/23/19 16:04	1
Titanium	20.0	U	20.0	2.0	ug/L		11/22/19 22:10	11/23/19 16:04	1
Thallium	20.0	U	20.0	5.4	ug/L		11/22/19 22:10	11/23/19 16:04	1
Vanadium	50.0	U	50.0	2.5	ug/L		11/22/19 22:10	11/23/19 16:04	1
Zinc	7.0	J	30.0	3.6	ug/L		11/22/19 22:10	11/23/19 16:04	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.12	ug/L		11/26/19 03:05	11/26/19 07:28	1

Client Sample ID: WSG-EB-SAMPLER-20191111

Lab Sample ID: 460-196639-35

Date Collected: 11/11/19 13:30

Matrix: Water

Date Received: 11/15/19 21:07

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			11/23/19 10:20	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.37	ug/L			11/23/19 10:20	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			11/23/19 10:20	1
1,1,2-Trichloroethane	1.0	U	1.0	0.43	ug/L			11/23/19 10:20	1
1,1-Dichloroethane	1.0	U	1.0	0.26	ug/L			11/23/19 10:20	1
1,1-Dichloroethene	1.0	U	1.0	0.26	ug/L			11/23/19 10:20	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.37	ug/L			11/23/19 10:20	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.38	ug/L			11/23/19 10:20	1
1,2-Dichlorobenzene	1.0	U	1.0	0.43	ug/L			11/23/19 10:20	1
1,2-Dichloroethane	1.0	U	1.0	0.43	ug/L			11/23/19 10:20	1
1,2-Dichloropropane	1.0	U	1.0	0.35	ug/L			11/23/19 10:20	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196639-1

Client Sample ID: WSG-EB-SAMPLER-20191111

Lab Sample ID: 460-196639-35

Date Collected: 11/11/19 13:30

Matrix: Water

Date Received: 11/15/19 21:07

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	1.0	U	1.0	0.34	ug/L			11/23/19 10:20	1
1,4-Dichlorobenzene	1.0	U	1.0	0.33	ug/L			11/23/19 10:20	1
2-Butanone (MEK)	5.0	U	5.0	1.9	ug/L			11/23/19 10:20	1
2-Hexanone	5.0	U	5.0	1.1	ug/L			11/23/19 10:20	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	1.3	ug/L			11/23/19 10:20	1
Acetone	5.0	U	5.0	4.4	ug/L			11/23/19 10:20	1
Benzene	1.0	U	1.0	0.20	ug/L			11/23/19 10:20	1
Bromoform	1.0	U	1.0	0.54	ug/L			11/23/19 10:20	1
Bromomethane	1.0	U	1.0	0.55	ug/L			11/23/19 10:20	1
Carbon disulfide	1.0	U	1.0	0.82	ug/L			11/23/19 10:20	1
Carbon tetrachloride	1.0	U	1.0	0.21	ug/L			11/23/19 10:20	1
Chlorobenzene	1.0	U	1.0	0.38	ug/L			11/23/19 10:20	1
Chlorodibromomethane	1.0	U	1.0	0.28	ug/L			11/23/19 10:20	1
Chloroethane	1.0	U	1.0	0.32	ug/L			11/23/19 10:20	1
Chloroform	1.0	U	1.0	0.33	ug/L			11/23/19 10:20	1
Chloromethane	1.0	U	1.0	0.40	ug/L			11/23/19 10:20	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.22	ug/L			11/23/19 10:20	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.22	ug/L			11/23/19 10:20	1
Cyclohexane	1.0	U	1.0	0.32	ug/L			11/23/19 10:20	1
Dichlorobromomethane	1.0	U	1.0	0.34	ug/L			11/23/19 10:20	1
Dichlorodifluoromethane	1.0	U	1.0	0.31	ug/L			11/23/19 10:20	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			11/23/19 10:20	1
Ethylene Dibromide	1.0	U	1.0	0.50	ug/L			11/23/19 10:20	1
Isopropylbenzene	1.0	U	1.0	0.34	ug/L			11/23/19 10:20	1
Methyl acetate	5.0	U	5.0	0.79	ug/L			11/23/19 10:20	1
Methyl tert-butyl ether	1.0	U	1.0	0.47	ug/L			11/23/19 10:20	1
Methylcyclohexane	1.0	U	1.0	0.26	ug/L			11/23/19 10:20	1
Methylene Chloride	1.0	U	1.0	0.32	ug/L			11/23/19 10:20	1
Styrene	1.0	U	1.0	0.42	ug/L			11/23/19 10:20	1
Tetrachloroethene	1.0	U	1.0	0.25	ug/L			11/23/19 10:20	1
Toluene	1.0	U	1.0	0.38	ug/L			11/23/19 10:20	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			11/23/19 10:20	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.49	ug/L			11/23/19 10:20	1
Trichloroethene	1.0	U	1.0	0.31	ug/L			11/23/19 10:20	1
Trichlorofluoromethane	1.0	U	1.0	0.32	ug/L			11/23/19 10:20	1
Vinyl chloride	1.0	U	1.0	0.17	ug/L			11/23/19 10:20	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			11/23/19 10:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93		74 - 132		11/23/19 10:20	1
4-Bromofluorobenzene	90		77 - 124		11/23/19 10:20	1
Dibromofluoromethane (Surr)	99		72 - 131		11/23/19 10:20	1
Toluene-d8 (Surr)	102		80 - 120		11/23/19 10:20	1

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.40	U	0.40	0.17	ug/L		11/17/19 07:36	11/19/19 06:45	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196639-1

Client Sample ID: WSG-EB-SAMPLER-20191111

Lab Sample ID: 460-196639-35

Date Collected: 11/11/19 13:30

Matrix: Water

Date Received: 11/15/19 21:07

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	10	U	10	1.2	ug/L		11/17/19 07:36	11/18/19 01:40	1
2,2'-oxybis[1-chloropropane]	10	U *	10	0.63	ug/L		11/17/19 07:36	11/18/19 01:40	1
2,4,5-Trichlorophenol	10	U	10	0.88	ug/L		11/17/19 07:36	11/18/19 01:40	1
2,4,6-Trichlorophenol	10	U	10	0.86	ug/L		11/17/19 07:36	11/18/19 01:40	1
2,4-Dichlorophenol	10	U	10	1.1	ug/L		11/17/19 07:36	11/18/19 01:40	1
2,4-Dimethylphenol	10	U	10	0.62	ug/L		11/17/19 07:36	11/18/19 01:40	1
2,4-Dinitrophenol	20	U	20	14	ug/L		11/17/19 07:36	11/18/19 01:40	1
2,4-Dinitrotoluene	2.0	U	2.0	1.0	ug/L		11/17/19 07:36	11/18/19 01:40	1
2,6-Dinitrotoluene	2.0	U	2.0	0.83	ug/L		11/17/19 07:36	11/18/19 01:40	1
2-Chloronaphthalene	10	U	10	1.2	ug/L		11/17/19 07:36	11/18/19 01:40	1
2-Chlorophenol	10	U	10	0.38	ug/L		11/17/19 07:36	11/18/19 01:40	1
2-Methylnaphthalene	10	U	10	1.1	ug/L		11/17/19 07:36	11/18/19 01:40	1
2-Methylphenol	10	U	10	0.67	ug/L		11/17/19 07:36	11/18/19 01:40	1
2-Nitroaniline	10	U	10	0.47	ug/L		11/17/19 07:36	11/18/19 01:40	1
2-Nitrophenol	10	U	10	0.75	ug/L		11/17/19 07:36	11/18/19 01:40	1
3,3'-Dichlorobenzidine	10	U	10	1.4	ug/L		11/17/19 07:36	11/18/19 01:40	1
3-Nitroaniline	10	U	10	1.9	ug/L		11/17/19 07:36	11/18/19 01:40	1
4,6-Dinitro-2-methylphenol	20	U	20	13	ug/L		11/17/19 07:36	11/18/19 01:40	1
4-Bromophenyl phenyl ether	10	U	10	0.75	ug/L		11/17/19 07:36	11/18/19 01:40	1
4-Chloro-3-methylphenol	10	U	10	0.58	ug/L		11/17/19 07:36	11/18/19 01:40	1
4-Chloroaniline	10	U	10	1.9	ug/L		11/17/19 07:36	11/18/19 01:40	1
4-Chlorophenyl phenyl ether	10	U	10	1.3	ug/L		11/17/19 07:36	11/18/19 01:40	1
4-Methylphenol	10	U	10	0.65	ug/L		11/17/19 07:36	11/18/19 01:40	1
4-Nitroaniline	10	U	10	1.2	ug/L		11/17/19 07:36	11/18/19 01:40	1
4-Nitrophenol	20	U	20	4.0	ug/L		11/17/19 07:36	11/18/19 01:40	1
Acenaphthene	10	U	10	1.1	ug/L		11/17/19 07:36	11/18/19 01:40	1
Acenaphthylene	10	U	10	0.82	ug/L		11/17/19 07:36	11/18/19 01:40	1
Acetophenone	10	U	10	2.3	ug/L		11/17/19 07:36	11/18/19 01:40	1
Anthracene	10	U	10	0.63	ug/L		11/17/19 07:36	11/18/19 01:40	1
Atrazine	2.0	U *	2.0	1.3	ug/L		11/17/19 07:36	11/18/19 01:40	1
Benzaldehyde	10	U	10	2.1	ug/L		11/17/19 07:36	11/18/19 01:40	1
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		11/17/19 07:36	11/18/19 01:40	1
Benzo[a]pyrene	1.0	U	1.0	0.41	ug/L		11/17/19 07:36	11/18/19 01:40	1
Benzo[b]fluoranthene	2.0	U	2.0	0.68	ug/L		11/17/19 07:36	11/18/19 01:40	1
Benzo[g,h,i]perylene	10	U	10	1.4	ug/L		11/17/19 07:36	11/18/19 01:40	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		11/17/19 07:36	11/18/19 01:40	1
Bis(2-chloroethoxy)methane	10	U *	10	0.59	ug/L		11/17/19 07:36	11/18/19 01:40	1
Bis(2-chloroethyl)ether	1.0	U	1.0	0.63	ug/L		11/17/19 07:36	11/18/19 01:40	1
Bis(2-ethylhexyl) phthalate	2.0	U	2.0	1.7	ug/L		11/17/19 07:36	11/18/19 01:40	1
Butyl benzyl phthalate	10	U	10	0.85	ug/L		11/17/19 07:36	11/18/19 01:40	1
Caprolactam	10	U	10	0.68	ug/L		11/17/19 07:36	11/18/19 01:40	1
Carbazole	10	U	10	0.68	ug/L		11/17/19 07:36	11/18/19 01:40	1
Chrysene	2.0	U	2.0	0.91	ug/L		11/17/19 07:36	11/18/19 01:40	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		11/17/19 07:36	11/18/19 01:40	1
Dibenzofuran	10	U	10	1.1	ug/L		11/17/19 07:36	11/18/19 01:40	1
Diethyl phthalate	10	U	10	0.98	ug/L		11/17/19 07:36	11/18/19 01:40	1
Dimethyl phthalate	10	U	10	0.77	ug/L		11/17/19 07:36	11/18/19 01:40	1
Di-n-butyl phthalate	10	U	10	0.84	ug/L		11/17/19 07:36	11/18/19 01:40	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196639-1

Client Sample ID: WSG-EB-SAMPLER-20191111

Lab Sample ID: 460-196639-35

Date Collected: 11/11/19 13:30

Matrix: Water

Date Received: 11/15/19 21:07

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate	10	U	10	4.8	ug/L		11/17/19 07:36	11/18/19 01:40	1
Fluoranthene	10	U	10	0.84	ug/L		11/17/19 07:36	11/18/19 01:40	1
Fluorene	10	U	10	0.91	ug/L		11/17/19 07:36	11/18/19 01:40	1
Hexachlorobenzene	1.0	U	1.0	0.40	ug/L		11/17/19 07:36	11/18/19 01:40	1
Hexachlorobutadiene	1.0	U	1.0	0.78	ug/L		11/17/19 07:36	11/18/19 01:40	1
Hexachlorocyclopentadiene	10	U	10	3.6	ug/L		11/17/19 07:36	11/18/19 01:40	1
Hexachloroethane	2.0	U	2.0	0.80	ug/L		11/17/19 07:36	11/18/19 01:40	1
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	0.94	ug/L		11/17/19 07:36	11/18/19 01:40	1
Isophorone	10	U *	10	0.80	ug/L		11/17/19 07:36	11/18/19 01:40	1
Naphthalene	10	U	10	1.1	ug/L		11/17/19 07:36	11/18/19 01:40	1
Nitrobenzene	1.0	U	1.0	0.57	ug/L		11/17/19 07:36	11/18/19 01:40	1
N-Nitrosodi-n-propylamine	1.0	U	1.0	0.43	ug/L		11/17/19 07:36	11/18/19 01:40	1
N-Nitrosodiphenylamine	10	U	10	0.89	ug/L		11/17/19 07:36	11/18/19 01:40	1
Pentachlorophenol	20	U	20	1.4	ug/L		11/17/19 07:36	11/18/19 01:40	1
Phenanthrene	10	U	10	0.58	ug/L		11/17/19 07:36	11/18/19 01:40	1
Phenol	10	U	10	0.29	ug/L		11/17/19 07:36	11/18/19 01:40	1
Pyrene	10	U	10	1.6	ug/L		11/17/19 07:36	11/18/19 01:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	101		26 - 139	11/17/19 07:36	11/18/19 01:40	1
2-Fluorophenol (Surr)	61	*	25 - 58	11/17/19 07:36	11/18/19 01:40	1
Nitrobenzene-d5 (Surr)	112	*	51 - 108	11/17/19 07:36	11/18/19 01:40	1
Terphenyl-d14 (Surr)	93		40 - 148	11/17/19 07:36	11/18/19 01:40	1
Phenol-d5 (Surr)	44	*	14 - 39	11/17/19 07:36	11/18/19 01:40	1
2-Fluorobiphenyl	88		45 - 107	11/17/19 07:36	11/18/19 01:40	1

Method: 608.3 - Organochlorine Pesticides/PCBs in Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.020	U	0.020	0.012	ug/L		11/17/19 16:19	11/22/19 08:38	1
alpha-BHC	0.020	U	0.020	0.013	ug/L		11/17/19 16:19	11/22/19 08:38	1
beta-BHC	0.030	U	0.030	0.015	ug/L		11/17/19 16:19	11/22/19 08:38	1
delta-BHC	0.020	U	0.020	0.0090	ug/L		11/17/19 16:19	11/22/19 08:38	1
gamma-BHC (Lindane)	0.030	U	0.030	0.013	ug/L		11/17/19 16:19	11/22/19 08:38	1
Chlordane	0.50	U	0.50	0.093	ug/L		11/17/19 16:19	11/22/19 08:38	1
4,4'-DDD	0.040	U	0.040	0.018	ug/L		11/17/19 16:19	11/22/19 08:38	1
4,4'-DDE	0.030	U	0.030	0.018	ug/L		11/17/19 16:19	11/22/19 08:38	1
4,4'-DDT	0.030	U	0.030	0.025	ug/L		11/17/19 16:19	11/22/19 08:38	1
Dieldrin	0.020	U	0.020	0.016	ug/L		11/17/19 16:19	11/22/19 08:38	1
Endosulfan I	0.030	U	0.030	0.014	ug/L		11/17/19 16:19	11/22/19 08:38	1
Endosulfan II	0.030	U	0.030	0.017	ug/L		11/17/19 16:19	11/22/19 08:38	1
Endosulfan sulfate	0.030	U *	0.030	0.015	ug/L		11/17/19 16:19	11/22/19 08:38	1
Endrin	0.030	U *	0.030	0.021	ug/L		11/17/19 16:19	11/22/19 08:38	1
Endrin aldehyde	0.030	U	0.030	0.024	ug/L		11/17/19 16:19	11/22/19 08:38	1
Endrin ketone	0.030	U *	0.030	0.013	ug/L		11/17/19 16:19	11/22/19 08:38	1
Heptachlor	0.030	U	0.030	0.014	ug/L		11/17/19 16:19	11/22/19 08:38	1
Heptachlor epoxide	0.030	U	0.030	0.014	ug/L		11/17/19 16:19	11/22/19 08:38	1
Methoxychlor	0.030	U	0.030	0.030	ug/L		11/17/19 16:19	11/22/19 08:38	1
Toxaphene	0.50	U	0.50	0.20	ug/L		11/17/19 16:19	11/22/19 08:38	1
Aroclor 1016	1.0	U	1.0	0.030	ug/L		11/17/19 16:19	11/22/19 08:38	1

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Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196639-1

Client Sample ID: WSG-EB-SAMPLER-20191111

Lab Sample ID: 460-196639-35

Date Collected: 11/11/19 13:30

Matrix: Water

Date Received: 11/15/19 21:07

Method: 608.3 - Organochlorine Pesticides/PCBs in Water (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1221	1.0	U	1.0	0.030	ug/L		11/17/19 16:19	11/22/19 08:38	1
Aroclor 1232	1.0	U	1.0	0.030	ug/L		11/17/19 16:19	11/22/19 08:38	1
Aroclor 1242	1.0	U	1.0	0.030	ug/L		11/17/19 16:19	11/22/19 08:38	1
Aroclor 1248	1.0	U	1.0	0.030	ug/L		11/17/19 16:19	11/22/19 08:38	1
Aroclor 1254	1.0	U	1.0	0.037	ug/L		11/17/19 16:19	11/22/19 08:38	1
Aroclor 1260	1.0	U	1.0	0.037	ug/L		11/17/19 16:19	11/22/19 08:38	1
Aroclor 1262	1.0	U	1.0	0.037	ug/L		11/17/19 16:19	11/22/19 08:38	1
Aroclor 1268	1.0	U	1.0	0.037	ug/L		11/17/19 16:19	11/22/19 08:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	73		10 - 150				11/17/19 16:19	11/22/19 08:38	1
Tetrachloro-m-xylene	79		10 - 150				11/17/19 16:19	11/22/19 08:38	1
DCB Decachlorobiphenyl	39		10 - 150				11/17/19 16:19	11/22/19 08:38	1
DCB Decachlorobiphenyl	47		10 - 150				11/17/19 16:19	11/22/19 08:38	1

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	1.2	U *	1.2	0.13	ug/L		11/18/19 21:23	11/19/19 11:23	1
Silvex (2,4,5-TP)	1.2	U	1.2	0.11	ug/L		11/18/19 21:23	11/19/19 11:23	1
2,4,5-T	1.2	U	1.2	0.12	ug/L		11/18/19 21:23	11/19/19 11:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	79		54 - 150				11/18/19 21:23	11/19/19 11:23	1
2,4-Dichlorophenylacetic acid	83		54 - 150				11/18/19 21:23	11/19/19 11:23	1

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	1.81	U	1.81	0.52	ng/L		11/20/19 06:29	11/22/19 02:32	1
Perfluoroheptanoic acid (PFHpA)	1.81	U	1.81	0.23	ng/L		11/20/19 06:29	11/22/19 02:32	1
Perfluorooctanoic acid (PFOA)	1.81	U	1.81	0.77	ng/L		11/20/19 06:29	11/22/19 02:32	1
Perfluorononanoic acid (PFNA)	1.81	U	1.81	0.24	ng/L		11/20/19 06:29	11/22/19 02:32	1
Perfluorodecanoic acid (PFDA)	1.81	U	1.81	0.28	ng/L		11/20/19 06:29	11/22/19 02:32	1
Perfluoroundecanoic acid (PFUnA)	1.81	U	1.81	0.99	ng/L		11/20/19 06:29	11/22/19 02:32	1
Perfluorododecanoic acid (PFDoA)	1.81	U	1.81	0.50	ng/L		11/20/19 06:29	11/22/19 02:32	1
Perfluorotridecanoic acid (PFTriA)	1.81	U	1.81	1.18	ng/L		11/20/19 06:29	11/22/19 02:32	1
Perfluorotetradecanoic acid (PFTeA)	1.81	U	1.81	0.26	ng/L		11/20/19 06:29	11/22/19 02:32	1
Perfluorobutanesulfonic acid (PFBS)	0.24	J	1.81	0.18	ng/L		11/20/19 06:29	11/22/19 02:32	1
Perfluorohexanesulfonic acid (PFHxS)	0.25	J B	1.81	0.15	ng/L		11/20/19 06:29	11/22/19 02:32	1
Perfluorooctanesulfonic acid (PFOS)	1.81	U	1.81	0.49	ng/L		11/20/19 06:29	11/22/19 02:32	1
N-ethylperfluorooctanesulfonamidoacetic acid (NETFOSAA)	18.1	U	18.1	1.72	ng/L		11/20/19 06:29	11/22/19 02:32	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	18.1	U	18.1	2.80	ng/L		11/20/19 06:29	11/22/19 02:32	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C2 PFHxA	107		25 - 150				11/20/19 06:29	11/22/19 02:32	1
13C4 PFHpA	110		25 - 150				11/20/19 06:29	11/22/19 02:32	1
13C4 PFOA	105		25 - 150				11/20/19 06:29	11/22/19 02:32	1
13C5 PFNA	103		25 - 150				11/20/19 06:29	11/22/19 02:32	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196639-1

Client Sample ID: WSG-EB-SAMPLER-20191111

Lab Sample ID: 460-196639-35

Date Collected: 11/11/19 13:30

Matrix: Water

Date Received: 11/15/19 21:07

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
¹³ C2 PFDA	100		25 - 150	11/20/19 06:29	11/22/19 02:32	1
¹³ C2 PFUnA	105		25 - 150	11/20/19 06:29	11/22/19 02:32	1
¹³ C2 PFDoA	110		25 - 150	11/20/19 06:29	11/22/19 02:32	1
¹³ C2 PFTeDA	98		25 - 150	11/20/19 06:29	11/22/19 02:32	1
¹⁸ O2 PFHxS	121		25 - 150	11/20/19 06:29	11/22/19 02:32	1
¹³ C4 PFOS	102		25 - 150	11/20/19 06:29	11/22/19 02:32	1
d3-NMeFOSAA	96		25 - 150	11/20/19 06:29	11/22/19 02:32	1
d5-NEtFOSAA	104		25 - 150	11/20/19 06:29	11/22/19 02:32	1

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	150	U	150	34.2	ug/L		11/22/19 22:10	11/23/19 16:08	1
Silver	10.0	U	10.0	1.1	ug/L		11/22/19 22:10	11/23/19 16:08	1
Aluminum	200	U	200	28.6	ug/L		11/22/19 22:10	11/23/19 16:08	1
Arsenic	15.0	U	15.0	2.7	ug/L		11/22/19 22:10	11/23/19 16:08	1
Boron	50.0	U	50.0	12.7	ug/L		11/22/19 22:10	11/23/19 16:08	1
Barium	200	U	200	7.7	ug/L		11/22/19 22:10	11/23/19 16:08	1
Beryllium	2.0	U	2.0	0.23	ug/L		11/22/19 22:10	11/23/19 16:08	1
Calcium	5000	U	5000	222	ug/L		11/22/19 22:10	11/23/19 16:08	1
Cadmium	4.0	U	4.0	0.22	ug/L		11/22/19 22:10	11/23/19 16:08	1
Cobalt	50.0	U	50.0	1.7	ug/L		11/22/19 22:10	11/23/19 16:08	1
Chromium	10.0	U	10.0	1.3	ug/L		11/22/19 22:10	11/23/19 16:08	1
Copper	25.0	U	25.0	5.1	ug/L		11/22/19 22:10	11/23/19 16:08	1
Potassium	5000	U	5000	323	ug/L		11/22/19 22:10	11/23/19 16:08	1
Magnesium	5000	U	5000	177	ug/L		11/22/19 22:10	11/23/19 16:08	1
Manganese	1.5	J	15.0	0.99	ug/L		11/22/19 22:10	11/23/19 16:08	1
Molybdenum	20.0	U	20.0	3.3	ug/L		11/22/19 22:10	11/23/19 16:08	1
Sodium	5000	U	5000	460	ug/L		11/22/19 22:10	11/23/19 16:08	1
Nickel	40.0	U	40.0	1.7	ug/L		11/22/19 22:10	11/23/19 16:08	1
Lead	10.0	U	10.0	2.5	ug/L		11/22/19 22:10	11/23/19 16:08	1
Antimony	20.0	U	20.0	2.9	ug/L		11/22/19 22:10	11/23/19 16:08	1
Selenium	20.0	U	20.0	6.6	ug/L		11/22/19 22:10	11/23/19 16:08	1
Tin	50.0	U	50.0	2.4	ug/L		11/22/19 22:10	11/23/19 16:08	1
Strontium	20.0	U	20.0	0.70	ug/L		11/22/19 22:10	11/23/19 16:08	1
Titanium	20.0	U	20.0	2.0	ug/L		11/22/19 22:10	11/23/19 16:08	1
Thallium	20.0	U	20.0	5.4	ug/L		11/22/19 22:10	11/23/19 16:08	1
Vanadium	50.0	U	50.0	2.5	ug/L		11/22/19 22:10	11/23/19 16:08	1
Zinc	8.0	J	30.0	3.6	ug/L		11/22/19 22:10	11/23/19 16:08	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.12	ug/L		11/26/19 03:05	11/26/19 07:30	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196639-1

Client Sample ID: WSG-GW6-29-0

Lab Sample ID: 460-196639-36

Date Collected: 11/11/19 09:55

Matrix: Water

Date Received: 11/15/19 21:07

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	12.0		1.87	0.54	ng/L		11/20/19 06:29	11/22/19 02:42	1
Perfluoroheptanoic acid (PFHpA)	6.64		1.87	0.23	ng/L		11/20/19 06:29	11/22/19 02:42	1
Perfluorooctanoic acid (PFOA)	14.3		1.87	0.80	ng/L		11/20/19 06:29	11/22/19 02:42	1
Perfluorononanoic acid (PFNA)	8.43		1.87	0.25	ng/L		11/20/19 06:29	11/22/19 02:42	1
Perfluorodecanoic acid (PFDA)	1.87	U	1.87	0.29	ng/L		11/20/19 06:29	11/22/19 02:42	1
Perfluoroundecanoic acid (PFUnA)	1.87	U	1.87	1.03	ng/L		11/20/19 06:29	11/22/19 02:42	1
Perfluorododecanoic acid (PFDoA)	1.87	U	1.87	0.52	ng/L		11/20/19 06:29	11/22/19 02:42	1
Perfluorotridecanoic acid (PFTriA)	1.87	U	1.87	1.22	ng/L		11/20/19 06:29	11/22/19 02:42	1
Perfluorotetradecanoic acid (PFTeA)	1.87	U	1.87	0.27	ng/L		11/20/19 06:29	11/22/19 02:42	1
Perfluorobutanesulfonic acid (PFBS)	2.93		1.87	0.19	ng/L		11/20/19 06:29	11/22/19 02:42	1
Perfluorohexanesulfonic acid (PFHxS)	24.9	B	1.87	0.16	ng/L		11/20/19 06:29	11/22/19 02:42	1
Perfluorooctanesulfonic acid (PFOS)	31.8		1.87	0.51	ng/L		11/20/19 06:29	11/22/19 02:42	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	18.7	U	18.7	1.78	ng/L		11/20/19 06:29	11/22/19 02:42	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	18.7	U	18.7	2.90	ng/L		11/20/19 06:29	11/22/19 02:42	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C2 PFHxA	98		25 - 150				11/20/19 06:29	11/22/19 02:42	1
13C4 PFHpA	106		25 - 150				11/20/19 06:29	11/22/19 02:42	1
13C4 PFOA	109		25 - 150				11/20/19 06:29	11/22/19 02:42	1
13C5 PFNA	105		25 - 150				11/20/19 06:29	11/22/19 02:42	1
13C2 PFDA	105		25 - 150				11/20/19 06:29	11/22/19 02:42	1
13C2 PFUnA	110		25 - 150				11/20/19 06:29	11/22/19 02:42	1
13C2 PFDoA	107		25 - 150				11/20/19 06:29	11/22/19 02:42	1
13C2 PFTeDA	98		25 - 150				11/20/19 06:29	11/22/19 02:42	1
18O2 PFHxS	119		25 - 150				11/20/19 06:29	11/22/19 02:42	1
13C4 PFOS	105		25 - 150				11/20/19 06:29	11/22/19 02:42	1
d3-NMeFOSAA	99		25 - 150				11/20/19 06:29	11/22/19 02:42	1
d5-NEtFOSAA	109		25 - 150				11/20/19 06:29	11/22/19 02:42	1

Client Sample ID: WSG-GW6-19-0

Lab Sample ID: 460-196639-37

Date Collected: 11/11/19 12:00

Matrix: Water

Date Received: 11/15/19 21:07

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	14.0		1.81	0.53	ng/L		11/20/19 06:29	11/22/19 02:52	1
Perfluoroheptanoic acid (PFHpA)	8.65		1.81	0.23	ng/L		11/20/19 06:29	11/22/19 02:52	1
Perfluorooctanoic acid (PFOA)	23.5		1.81	0.77	ng/L		11/20/19 06:29	11/22/19 02:52	1
Perfluorononanoic acid (PFNA)	10.7		1.81	0.24	ng/L		11/20/19 06:29	11/22/19 02:52	1
Perfluorodecanoic acid (PFDA)	0.65	J	1.81	0.28	ng/L		11/20/19 06:29	11/22/19 02:52	1
Perfluoroundecanoic acid (PFUnA)	1.81	U	1.81	1.0	ng/L		11/20/19 06:29	11/22/19 02:52	1
Perfluorododecanoic acid (PFDoA)	1.81	U	1.81	0.50	ng/L		11/20/19 06:29	11/22/19 02:52	1
Perfluorotridecanoic acid (PFTriA)	1.81	U	1.81	1.18	ng/L		11/20/19 06:29	11/22/19 02:52	1
Perfluorotetradecanoic acid (PFTeA)	1.81	U	1.81	0.26	ng/L		11/20/19 06:29	11/22/19 02:52	1
Perfluorobutanesulfonic acid (PFBS)	2.79		1.81	0.18	ng/L		11/20/19 06:29	11/22/19 02:52	1

Eurofins TestAmerica, Edison

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196639-1

Client Sample ID: WSG-GW6-19-0

Lab Sample ID: 460-196639-37

Date Collected: 11/11/19 12:00

Matrix: Water

Date Received: 11/15/19 21:07

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanesulfonic acid (PFHxS)	16.4	B	1.81	0.15	ng/L		11/20/19 06:29	11/22/19 02:52	1
Perfluorooctanesulfonic acid (PFOS)	44.2		1.81	0.49	ng/L		11/20/19 06:29	11/22/19 02:52	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	18.1	U	18.1	1.72	ng/L		11/20/19 06:29	11/22/19 02:52	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	18.1	U	18.1	2.81	ng/L		11/20/19 06:29	11/22/19 02:52	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C2 PFHxA	93		25 - 150				11/20/19 06:29	11/22/19 02:52	1
13C4 PFHpA	104		25 - 150				11/20/19 06:29	11/22/19 02:52	1
13C4 PFOA	105		25 - 150				11/20/19 06:29	11/22/19 02:52	1
13C5 PFNA	101		25 - 150				11/20/19 06:29	11/22/19 02:52	1
13C2 PFDA	105		25 - 150				11/20/19 06:29	11/22/19 02:52	1
13C2 PFUnA	109		25 - 150				11/20/19 06:29	11/22/19 02:52	1
13C2 PFDoA	107		25 - 150				11/20/19 06:29	11/22/19 02:52	1
13C2 PFTeDA	90		25 - 150				11/20/19 06:29	11/22/19 02:52	1
18O2 PFHxS	116		25 - 150				11/20/19 06:29	11/22/19 02:52	1
13C4 PFOS	101		25 - 150				11/20/19 06:29	11/22/19 02:52	1
d3-NMeFOSAA	101		25 - 150				11/20/19 06:29	11/22/19 02:52	1
d5-NEtFOSAA	107		25 - 150				11/20/19 06:29	11/22/19 02:52	1

Client Sample ID: WSG-GW6-9-0

Lab Sample ID: 460-196639-38

Date Collected: 11/11/19 12:45

Matrix: Water

Date Received: 11/15/19 21:07

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			11/24/19 00:08	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.37	ug/L			11/24/19 00:08	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			11/24/19 00:08	1
1,1,2-Trichloroethane	1.0	U	1.0	0.43	ug/L			11/24/19 00:08	1
1,1-Dichloroethane	1.0	U	1.0	0.26	ug/L			11/24/19 00:08	1
1,1-Dichloroethene	1.0	U	1.0	0.26	ug/L			11/24/19 00:08	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.37	ug/L			11/24/19 00:08	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.38	ug/L			11/24/19 00:08	1
1,2-Dichlorobenzene	1.0	U	1.0	0.43	ug/L			11/24/19 00:08	1
1,2-Dichloroethane	1.0	U	1.0	0.43	ug/L			11/24/19 00:08	1
1,2-Dichloropropane	1.0	U	1.0	0.35	ug/L			11/24/19 00:08	1
1,3-Dichlorobenzene	1.0	U	1.0	0.34	ug/L			11/24/19 00:08	1
1,4-Dichlorobenzene	1.0	U	1.0	0.33	ug/L			11/24/19 00:08	1
2-Butanone (MEK)	5.0	U	5.0	1.9	ug/L			11/24/19 00:08	1
2-Hexanone	5.0	U	5.0	1.1	ug/L			11/24/19 00:08	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	1.3	ug/L			11/24/19 00:08	1
Acetone	5.0	U	5.0	4.4	ug/L			11/24/19 00:08	1
Benzene	1.0	U	1.0	0.20	ug/L			11/24/19 00:08	1
Bromoform	1.0	U	1.0	0.54	ug/L			11/24/19 00:08	1
Bromomethane	1.0	U	1.0	0.55	ug/L			11/24/19 00:08	1
Carbon disulfide	1.0	U	1.0	0.82	ug/L			11/24/19 00:08	1
Carbon tetrachloride	1.0	U	1.0	0.21	ug/L			11/24/19 00:08	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196639-1

Client Sample ID: WSG-GW6-9-0

Lab Sample ID: 460-196639-38

Date Collected: 11/11/19 12:45

Matrix: Water

Date Received: 11/15/19 21:07

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	1.0	U	1.0	0.38	ug/L			11/24/19 00:08	1
Chlorodibromomethane	1.0	U	1.0	0.28	ug/L			11/24/19 00:08	1
Chloroethane	1.0	U	1.0	0.32	ug/L			11/24/19 00:08	1
Chloroform	1.0	U	1.0	0.33	ug/L			11/24/19 00:08	1
Chloromethane	1.0	U	1.0	0.40	ug/L			11/24/19 00:08	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.22	ug/L			11/24/19 00:08	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.22	ug/L			11/24/19 00:08	1
Cyclohexane	1.0	U	1.0	0.32	ug/L			11/24/19 00:08	1
Dichlorobromomethane	1.0	U	1.0	0.34	ug/L			11/24/19 00:08	1
Dichlorodifluoromethane	1.0	U	1.0	0.31	ug/L			11/24/19 00:08	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			11/24/19 00:08	1
Ethylene Dibromide	1.0	U	1.0	0.50	ug/L			11/24/19 00:08	1
Isopropylbenzene	1.0	U	1.0	0.34	ug/L			11/24/19 00:08	1
Methyl acetate	5.0	U	5.0	0.79	ug/L			11/24/19 00:08	1
Methyl tert-butyl ether	1.0	U	1.0	0.47	ug/L			11/24/19 00:08	1
Methylcyclohexane	1.0	U	1.0	0.26	ug/L			11/24/19 00:08	1
Methylene Chloride	1.0	U	1.0	0.32	ug/L			11/24/19 00:08	1
Styrene	1.0	U	1.0	0.42	ug/L			11/24/19 00:08	1
Tetrachloroethene	1.0	U	1.0	0.25	ug/L			11/24/19 00:08	1
Toluene	1.0	U	1.0	0.38	ug/L			11/24/19 00:08	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			11/24/19 00:08	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.49	ug/L			11/24/19 00:08	1
Trichloroethene	1.0	U	1.0	0.31	ug/L			11/24/19 00:08	1
Trichlorofluoromethane	1.0	U	1.0	0.32	ug/L			11/24/19 00:08	1
Vinyl chloride	1.0	U	1.0	0.17	ug/L			11/24/19 00:08	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			11/24/19 00:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		74 - 132		11/24/19 00:08	1
4-Bromofluorobenzene	102		77 - 124		11/24/19 00:08	1
Dibromofluoromethane (Surr)	113		72 - 131		11/24/19 00:08	1
Toluene-d8 (Surr)	106		80 - 120		11/24/19 00:08	1

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.40	U	0.40	0.17	ug/L		11/17/19 07:36	11/19/19 07:06	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	10	U	10	1.2	ug/L		11/17/19 07:36	11/18/19 02:01	1
2,2'-oxybis[1-chloropropane]	10	U *	10	0.63	ug/L		11/17/19 07:36	11/18/19 02:01	1
2,4,5-Trichlorophenol	10	U	10	0.88	ug/L		11/17/19 07:36	11/18/19 02:01	1
2,4,6-Trichlorophenol	10	U	10	0.86	ug/L		11/17/19 07:36	11/18/19 02:01	1
2,4-Dichlorophenol	10	U	10	1.1	ug/L		11/17/19 07:36	11/18/19 02:01	1
2,4-Dimethylphenol	10	U	10	0.62	ug/L		11/17/19 07:36	11/18/19 02:01	1
2,4-Dinitrophenol	20	U	20	14	ug/L		11/17/19 07:36	11/18/19 02:01	1
2,4-Dinitrotoluene	2.0	U	2.0	1.0	ug/L		11/17/19 07:36	11/18/19 02:01	1
2,6-Dinitrotoluene	2.0	U	2.0	0.83	ug/L		11/17/19 07:36	11/18/19 02:01	1
2-Chloronaphthalene	10	U	10	1.2	ug/L		11/17/19 07:36	11/18/19 02:01	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196639-1

Client Sample ID: WSG-GW6-9-0

Lab Sample ID: 460-196639-38

Date Collected: 11/11/19 12:45

Matrix: Water

Date Received: 11/15/19 21:07

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chlorophenol	10	U	10	0.38	ug/L		11/17/19 07:36	11/18/19 02:01	1
2-Methylnaphthalene	10	U	10	1.1	ug/L		11/17/19 07:36	11/18/19 02:01	1
2-Methylphenol	10	U	10	0.67	ug/L		11/17/19 07:36	11/18/19 02:01	1
2-Nitroaniline	10	U	10	0.47	ug/L		11/17/19 07:36	11/18/19 02:01	1
2-Nitrophenol	10	U	10	0.75	ug/L		11/17/19 07:36	11/18/19 02:01	1
3,3'-Dichlorobenzidine	10	U	10	1.4	ug/L		11/17/19 07:36	11/18/19 02:01	1
3-Nitroaniline	10	U	10	1.9	ug/L		11/17/19 07:36	11/18/19 02:01	1
4,6-Dinitro-2-methylphenol	20	U	20	13	ug/L		11/17/19 07:36	11/18/19 02:01	1
4-Bromophenyl phenyl ether	10	U	10	0.75	ug/L		11/17/19 07:36	11/18/19 02:01	1
4-Chloro-3-methylphenol	10	U	10	0.58	ug/L		11/17/19 07:36	11/18/19 02:01	1
4-Chloroaniline	10	U	10	1.9	ug/L		11/17/19 07:36	11/18/19 02:01	1
4-Chlorophenyl phenyl ether	10	U	10	1.3	ug/L		11/17/19 07:36	11/18/19 02:01	1
4-Methylphenol	10	U	10	0.65	ug/L		11/17/19 07:36	11/18/19 02:01	1
4-Nitroaniline	10	U	10	1.2	ug/L		11/17/19 07:36	11/18/19 02:01	1
4-Nitrophenol	20	U	20	4.0	ug/L		11/17/19 07:36	11/18/19 02:01	1
Acenaphthene	10	U	10	1.1	ug/L		11/17/19 07:36	11/18/19 02:01	1
Acenaphthylene	10	U	10	0.82	ug/L		11/17/19 07:36	11/18/19 02:01	1
Acetophenone	10	U	10	2.3	ug/L		11/17/19 07:36	11/18/19 02:01	1
Anthracene	10	U	10	0.63	ug/L		11/17/19 07:36	11/18/19 02:01	1
Atrazine	2.0	U *	2.0	1.3	ug/L		11/17/19 07:36	11/18/19 02:01	1
Benzaldehyde	10	U	10	2.1	ug/L		11/17/19 07:36	11/18/19 02:01	1
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		11/17/19 07:36	11/18/19 02:01	1
Benzo[a]pyrene	1.0	U	1.0	0.41	ug/L		11/17/19 07:36	11/18/19 02:01	1
Benzo[b]fluoranthene	2.0	U	2.0	0.68	ug/L		11/17/19 07:36	11/18/19 02:01	1
Benzo[g,h,i]perylene	10	U	10	1.4	ug/L		11/17/19 07:36	11/18/19 02:01	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		11/17/19 07:36	11/18/19 02:01	1
Bis(2-chloroethoxy)methane	10	U *	10	0.59	ug/L		11/17/19 07:36	11/18/19 02:01	1
Bis(2-chloroethyl)ether	1.0	U	1.0	0.63	ug/L		11/17/19 07:36	11/18/19 02:01	1
Bis(2-ethylhexyl) phthalate	2.0	U	2.0	1.7	ug/L		11/17/19 07:36	11/18/19 02:01	1
Butyl benzyl phthalate	10	U	10	0.85	ug/L		11/17/19 07:36	11/18/19 02:01	1
Caprolactam	10	U	10	0.68	ug/L		11/17/19 07:36	11/18/19 02:01	1
Carbazole	10	U	10	0.68	ug/L		11/17/19 07:36	11/18/19 02:01	1
Chrysene	2.0	U	2.0	0.91	ug/L		11/17/19 07:36	11/18/19 02:01	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		11/17/19 07:36	11/18/19 02:01	1
Dibenzofuran	10	U	10	1.1	ug/L		11/17/19 07:36	11/18/19 02:01	1
Diethyl phthalate	10	U	10	0.98	ug/L		11/17/19 07:36	11/18/19 02:01	1
Dimethyl phthalate	10	U	10	0.77	ug/L		11/17/19 07:36	11/18/19 02:01	1
Di-n-butyl phthalate	10	U	10	0.84	ug/L		11/17/19 07:36	11/18/19 02:01	1
Di-n-octyl phthalate	10	U	10	4.8	ug/L		11/17/19 07:36	11/18/19 02:01	1
Fluoranthene	10	U	10	0.84	ug/L		11/17/19 07:36	11/18/19 02:01	1
Fluorene	10	U	10	0.91	ug/L		11/17/19 07:36	11/18/19 02:01	1
Hexachlorobenzene	1.0	U	1.0	0.40	ug/L		11/17/19 07:36	11/18/19 02:01	1
Hexachlorobutadiene	1.0	U	1.0	0.78	ug/L		11/17/19 07:36	11/18/19 02:01	1
Hexachlorocyclopentadiene	10	U	10	3.6	ug/L		11/17/19 07:36	11/18/19 02:01	1
Hexachloroethane	2.0	U	2.0	0.80	ug/L		11/17/19 07:36	11/18/19 02:01	1
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	0.94	ug/L		11/17/19 07:36	11/18/19 02:01	1
Isophorone	10	U *	10	0.80	ug/L		11/17/19 07:36	11/18/19 02:01	1
Naphthalene	10	U	10	1.1	ug/L		11/17/19 07:36	11/18/19 02:01	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196639-1

Client Sample ID: WSG-GW6-9-0

Lab Sample ID: 460-196639-38

Date Collected: 11/11/19 12:45

Matrix: Water

Date Received: 11/15/19 21:07

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrobenzene	1.0	U	1.0	0.57	ug/L		11/17/19 07:36	11/18/19 02:01	1
N-Nitrosodi-n-propylamine	1.0	U	1.0	0.43	ug/L		11/17/19 07:36	11/18/19 02:01	1
N-Nitrosodiphenylamine	10	U	10	0.89	ug/L		11/17/19 07:36	11/18/19 02:01	1
Pentachlorophenol	20	U	20	1.4	ug/L		11/17/19 07:36	11/18/19 02:01	1
Phenanthrene	10	U	10	0.58	ug/L		11/17/19 07:36	11/18/19 02:01	1
Phenol	10	U	10	0.29	ug/L		11/17/19 07:36	11/18/19 02:01	1
Pyrene	10	U	10	1.6	ug/L		11/17/19 07:36	11/18/19 02:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	93		26 - 139	11/17/19 07:36	11/18/19 02:01	1
2-Fluorophenol (Surr)	55		25 - 58	11/17/19 07:36	11/18/19 02:01	1
Nitrobenzene-d5 (Surr)	101		51 - 108	11/17/19 07:36	11/18/19 02:01	1
Terphenyl-d14 (Surr)	86		40 - 148	11/17/19 07:36	11/18/19 02:01	1
Phenol-d5 (Surr)	39		14 - 39	11/17/19 07:36	11/18/19 02:01	1
2-Fluorobiphenyl	80		45 - 107	11/17/19 07:36	11/18/19 02:01	1

Method: 608.3 - Organochlorine Pesticides/PCBs in Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.020	U	0.020	0.012	ug/L		11/17/19 16:19	11/22/19 08:51	1
alpha-BHC	0.020	U	0.020	0.013	ug/L		11/17/19 16:19	11/22/19 08:51	1
beta-BHC	0.030	U	0.030	0.015	ug/L		11/17/19 16:19	11/22/19 08:51	1
delta-BHC	0.020	U	0.020	0.0090	ug/L		11/17/19 16:19	11/22/19 08:51	1
gamma-BHC (Lindane)	0.030	U	0.030	0.013	ug/L		11/17/19 16:19	11/22/19 08:51	1
Chlordane	0.50	U	0.50	0.093	ug/L		11/17/19 16:19	11/22/19 08:51	1
4,4'-DDD	0.040	U	0.040	0.018	ug/L		11/17/19 16:19	11/22/19 08:51	1
4,4'-DDE	0.030	U	0.030	0.018	ug/L		11/17/19 16:19	11/22/19 08:51	1
4,4'-DDT	0.030	U	0.030	0.025	ug/L		11/17/19 16:19	11/22/19 08:51	1
Dieldrin	0.020	U	0.020	0.016	ug/L		11/17/19 16:19	11/22/19 08:51	1
Endosulfan I	0.030	U	0.030	0.014	ug/L		11/17/19 16:19	11/22/19 08:51	1
Endosulfan II	0.030	U	0.030	0.017	ug/L		11/17/19 16:19	11/22/19 08:51	1
Endosulfan sulfate	0.030	U *	0.030	0.015	ug/L		11/17/19 16:19	11/22/19 08:51	1
Endrin	0.030	U *	0.030	0.021	ug/L		11/17/19 16:19	11/22/19 08:51	1
Endrin aldehyde	0.030	U	0.030	0.024	ug/L		11/17/19 16:19	11/22/19 08:51	1
Endrin ketone	0.030	U *	0.030	0.013	ug/L		11/17/19 16:19	11/22/19 08:51	1
Heptachlor	0.030	U	0.030	0.014	ug/L		11/17/19 16:19	11/22/19 08:51	1
Heptachlor epoxide	0.030	U	0.030	0.014	ug/L		11/17/19 16:19	11/22/19 08:51	1
Methoxychlor	0.030	U	0.030	0.030	ug/L		11/17/19 16:19	11/22/19 08:51	1
Toxaphene	0.50	U	0.50	0.20	ug/L		11/17/19 16:19	11/22/19 08:51	1
Aroclor 1016	1.0	U	1.0	0.030	ug/L		11/17/19 16:19	11/22/19 08:51	1
Aroclor 1221	1.0	U	1.0	0.030	ug/L		11/17/19 16:19	11/22/19 08:51	1
Aroclor 1232	1.0	U	1.0	0.030	ug/L		11/17/19 16:19	11/22/19 08:51	1
Aroclor 1242	1.0	U	1.0	0.030	ug/L		11/17/19 16:19	11/22/19 08:51	1
Aroclor 1248	1.0	U	1.0	0.030	ug/L		11/17/19 16:19	11/22/19 08:51	1
Aroclor 1254	1.0	U	1.0	0.037	ug/L		11/17/19 16:19	11/22/19 08:51	1
Aroclor 1260	1.0	U	1.0	0.037	ug/L		11/17/19 16:19	11/22/19 08:51	1
Aroclor 1262	1.0	U	1.0	0.037	ug/L		11/17/19 16:19	11/22/19 08:51	1
Aroclor 1268	1.0	U	1.0	0.037	ug/L		11/17/19 16:19	11/22/19 08:51	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196639-1

Client Sample ID: WSG-GW6-9-0

Lab Sample ID: 460-196639-38

Date Collected: 11/11/19 12:45

Matrix: Water

Date Received: 11/15/19 21:07

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	75		10 - 150	11/17/19 16:19	11/22/19 08:51	1
Tetrachloro-m-xylene	86		10 - 150	11/17/19 16:19	11/22/19 08:51	1
DCB Decachlorobiphenyl	53		10 - 150	11/17/19 16:19	11/22/19 08:51	1
DCB Decachlorobiphenyl	70		10 - 150	11/17/19 16:19	11/22/19 08:51	1

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	1.2	U *	1.2	0.13	ug/L		11/18/19 21:23	11/19/19 11:36	1
Silvex (2,4,5-TP)	1.2	U	1.2	0.11	ug/L		11/18/19 21:23	11/19/19 11:36	1
2,4,5-T	1.2	U	1.2	0.12	ug/L		11/18/19 21:23	11/19/19 11:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	79		54 - 150	11/18/19 21:23	11/19/19 11:36	1
2,4-Dichlorophenylacetic acid	83		54 - 150	11/18/19 21:23	11/19/19 11:36	1

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	21.0		1.77	0.51	ng/L		11/20/19 06:29	11/22/19 03:01	1
Perfluoroheptanoic acid (PFHpA)	12.9		1.77	0.22	ng/L		11/20/19 06:29	11/22/19 03:01	1
Perfluorooctanoic acid (PFOA)	39.6		1.77	0.75	ng/L		11/20/19 06:29	11/22/19 03:01	1
Perfluorononanoic acid (PFNA)	8.24		1.77	0.24	ng/L		11/20/19 06:29	11/22/19 03:01	1
Perfluorodecanoic acid (PFDA)	0.53	J	1.77	0.27	ng/L		11/20/19 06:29	11/22/19 03:01	1
Perfluoroundecanoic acid (PFUnA)	1.77	U	1.77	0.98	ng/L		11/20/19 06:29	11/22/19 03:01	1
Perfluorododecanoic acid (PFDoA)	1.77	U	1.77	0.49	ng/L		11/20/19 06:29	11/22/19 03:01	1
Perfluorotridecanoic acid (PFTriA)	1.77	U	1.77	1.15	ng/L		11/20/19 06:29	11/22/19 03:01	1
Perfluorotetradecanoic acid (PFTeA)	1.77	U	1.77	0.26	ng/L		11/20/19 06:29	11/22/19 03:01	1
Perfluorobutanesulfonic acid (PFBS)	3.84		1.77	0.18	ng/L		11/20/19 06:29	11/22/19 03:01	1
Perfluorohexanesulfonic acid (PFHxS)	17.7	B	1.77	0.15	ng/L		11/20/19 06:29	11/22/19 03:01	1
Perfluorooctanesulfonic acid (PFOS)	36.2		1.77	0.48	ng/L		11/20/19 06:29	11/22/19 03:01	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	17.7	U	17.7	1.68	ng/L		11/20/19 06:29	11/22/19 03:01	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	17.7	U	17.7	2.75	ng/L		11/20/19 06:29	11/22/19 03:01	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFHxA	91		25 - 150	11/20/19 06:29	11/22/19 03:01	1
13C4 PFHpA	102		25 - 150	11/20/19 06:29	11/22/19 03:01	1
13C4 PFOA	105		25 - 150	11/20/19 06:29	11/22/19 03:01	1
13C5 PFNA	105		25 - 150	11/20/19 06:29	11/22/19 03:01	1
13C2 PFDA	105		25 - 150	11/20/19 06:29	11/22/19 03:01	1
13C2 PFUnA	111		25 - 150	11/20/19 06:29	11/22/19 03:01	1
13C2 PFDoA	110		25 - 150	11/20/19 06:29	11/22/19 03:01	1
13C2 PFTeDA	96		25 - 150	11/20/19 06:29	11/22/19 03:01	1
18O2 PFHxS	116		25 - 150	11/20/19 06:29	11/22/19 03:01	1
13C4 PFOS	97		25 - 150	11/20/19 06:29	11/22/19 03:01	1
d3-NMeFOSAA	102		25 - 150	11/20/19 06:29	11/22/19 03:01	1
d5-NEtFOSAA	110		25 - 150	11/20/19 06:29	11/22/19 03:01	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196639-1

Client Sample ID: WSG-GW6-9-0

Lab Sample ID: 460-196639-38

Date Collected: 11/11/19 12:45

Matrix: Water

Date Received: 11/15/19 21:07

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	8950		150	34.2	ug/L		11/22/19 22:10	11/23/19 16:12	1
Silver	10.0	U	10.0	1.1	ug/L		11/22/19 22:10	11/23/19 16:12	1
Aluminum	200	U	200	28.6	ug/L		11/22/19 22:10	11/23/19 16:12	1
Arsenic	19.6		15.0	2.7	ug/L		11/22/19 22:10	11/23/19 16:12	1
Boron	43.1	J	50.0	12.7	ug/L		11/22/19 22:10	11/23/19 16:12	1
Barium	116	J	200	7.7	ug/L		11/22/19 22:10	11/23/19 16:12	1
Beryllium	2.0	U	2.0	0.23	ug/L		11/22/19 22:10	11/23/19 16:12	1
Calcium	117000		5000	222	ug/L		11/22/19 22:10	11/23/19 16:12	1
Cadmium	0.22	J	4.0	0.22	ug/L		11/22/19 22:10	11/23/19 16:12	1
Cobalt	18.7	J	50.0	1.7	ug/L		11/22/19 22:10	11/23/19 16:12	1
Chromium	8.1	J	10.0	1.3	ug/L		11/22/19 22:10	11/23/19 16:12	1
Copper	25.0	U	25.0	5.1	ug/L		11/22/19 22:10	11/23/19 16:12	1
Potassium	8860		5000	323	ug/L		11/22/19 22:10	11/23/19 16:12	1
Magnesium	16200		5000	177	ug/L		11/22/19 22:10	11/23/19 16:12	1
Manganese	27600		45.0	3.0	ug/L		11/22/19 22:10	11/23/19 17:04	3
Molybdenum	20.0	U	20.0	3.3	ug/L		11/22/19 22:10	11/23/19 16:12	1
Sodium	16600		5000	460	ug/L		11/22/19 22:10	11/23/19 16:12	1
Nickel	10.5	J	40.0	1.7	ug/L		11/22/19 22:10	11/23/19 16:12	1
Lead	4.7	J	10.0	2.5	ug/L		11/22/19 22:10	11/23/19 16:12	1
Antimony	20.0	U	20.0	2.9	ug/L		11/22/19 22:10	11/23/19 16:12	1
Selenium	20.0	U	20.0	6.6	ug/L		11/22/19 22:10	11/23/19 16:12	1
Tin	50.0	U	50.0	2.4	ug/L		11/22/19 22:10	11/23/19 16:12	1
Strontium	558		20.0	0.70	ug/L		11/22/19 22:10	11/23/19 16:12	1
Titanium	4.8	J	20.0	2.0	ug/L		11/22/19 22:10	11/23/19 16:12	1
Thallium	53.7		20.0	5.4	ug/L		11/22/19 22:10	11/23/19 16:12	1
Vanadium	50.0	U	50.0	2.5	ug/L		11/22/19 22:10	11/23/19 16:12	1
Zinc	10.5	J	30.0	3.6	ug/L		11/22/19 22:10	11/23/19 16:12	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.12	ug/L		11/26/19 03:05	11/26/19 07:35	1

Client Sample ID: WSG-EB-SPOON-20191112

Lab Sample ID: 460-196639-39

Date Collected: 11/12/19 08:00

Matrix: Water

Date Received: 11/15/19 21:07

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	1.83	U	1.83	0.53	ng/L		11/20/19 06:29	11/22/19 03:11	1
Perfluoroheptanoic acid (PFHpA)	1.83	U	1.83	0.23	ng/L		11/20/19 06:29	11/22/19 03:11	1
Perfluorooctanoic acid (PFOA)	1.83	U	1.83	0.78	ng/L		11/20/19 06:29	11/22/19 03:11	1
Perfluorononanoic acid (PFNA)	1.83	U	1.83	0.25	ng/L		11/20/19 06:29	11/22/19 03:11	1
Perfluorodecanoic acid (PFDA)	1.83	U	1.83	0.28	ng/L		11/20/19 06:29	11/22/19 03:11	1
Perfluoroundecanoic acid (PFUnA)	1.83	U	1.83	1.00	ng/L		11/20/19 06:29	11/22/19 03:11	1
Perfluorododecanoic acid (PFDoA)	1.83	U	1.83	0.50	ng/L		11/20/19 06:29	11/22/19 03:11	1
Perfluorotridecanoic acid (PFTriA)	1.83	U	1.83	1.19	ng/L		11/20/19 06:29	11/22/19 03:11	1
Perfluorotetradecanoic acid (PFTeA)	1.83	U	1.83	0.26	ng/L		11/20/19 06:29	11/22/19 03:11	1
Perfluorobutanesulfonic acid (PFBS)	1.83	U	1.83	0.18	ng/L		11/20/19 06:29	11/22/19 03:11	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196639-1

Client Sample ID: WSG-EB-SPOON-20191112

Lab Sample ID: 460-196639-39

Date Collected: 11/12/19 08:00

Matrix: Water

Date Received: 11/15/19 21:07

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanesulfonic acid (PFHxS)	0.29	J B	1.83	0.16	ng/L		11/20/19 06:29	11/22/19 03:11	1
Perfluorooctanesulfonic acid (PFOS)	1.83	U	1.83	0.49	ng/L		11/20/19 06:29	11/22/19 03:11	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	18.3	U	18.3	1.73	ng/L		11/20/19 06:29	11/22/19 03:11	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	18.3	U	18.3	2.83	ng/L		11/20/19 06:29	11/22/19 03:11	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C2 PFHxA	109		25 - 150				11/20/19 06:29	11/22/19 03:11	1
13C4 PFHpA	112		25 - 150				11/20/19 06:29	11/22/19 03:11	1
13C4 PFOA	107		25 - 150				11/20/19 06:29	11/22/19 03:11	1
13C5 PFNA	103		25 - 150				11/20/19 06:29	11/22/19 03:11	1
13C2 PFDA	103		25 - 150				11/20/19 06:29	11/22/19 03:11	1
13C2 PFUnA	112		25 - 150				11/20/19 06:29	11/22/19 03:11	1
13C2 PFDoA	110		25 - 150				11/20/19 06:29	11/22/19 03:11	1
13C2 PFTeA	95		25 - 150				11/20/19 06:29	11/22/19 03:11	1
18O2 PFHxS	120		25 - 150				11/20/19 06:29	11/22/19 03:11	1
13C4 PFOS	100		25 - 150				11/20/19 06:29	11/22/19 03:11	1
d3-NMeFOSAA	92		25 - 150				11/20/19 06:29	11/22/19 03:11	1
d5-NEtFOSAA	105		25 - 150				11/20/19 06:29	11/22/19 03:11	1

Client Sample ID: WSG-EB-BOWL-20191112

Lab Sample ID: 460-196639-40

Date Collected: 11/12/19 08:15

Matrix: Water

Date Received: 11/15/19 21:07

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	1.83	U	1.83	0.53	ng/L		11/20/19 06:29	11/22/19 03:21	1
Perfluoroheptanoic acid (PFHpA)	1.83	U	1.83	0.23	ng/L		11/20/19 06:29	11/22/19 03:21	1
Perfluorooctanoic acid (PFOA)	1.83	U	1.83	0.78	ng/L		11/20/19 06:29	11/22/19 03:21	1
Perfluorononanoic acid (PFNA)	1.83	U	1.83	0.25	ng/L		11/20/19 06:29	11/22/19 03:21	1
Perfluorodecanoic acid (PFDA)	1.83	U	1.83	0.28	ng/L		11/20/19 06:29	11/22/19 03:21	1
Perfluoroundecanoic acid (PFUnA)	1.83	U	1.83	1.01	ng/L		11/20/19 06:29	11/22/19 03:21	1
Perfluorododecanoic acid (PFDoA)	1.83	U	1.83	0.50	ng/L		11/20/19 06:29	11/22/19 03:21	1
Perfluorotridecanoic acid (PFTriA)	1.83	U	1.83	1.19	ng/L		11/20/19 06:29	11/22/19 03:21	1
Perfluorotetradecanoic acid (PFTeA)	1.83	U	1.83	0.27	ng/L		11/20/19 06:29	11/22/19 03:21	1
Perfluorobutanesulfonic acid (PFBS)	1.83	U	1.83	0.18	ng/L		11/20/19 06:29	11/22/19 03:21	1
Perfluorohexanesulfonic acid (PFHxS)	0.27	J B	1.83	0.16	ng/L		11/20/19 06:29	11/22/19 03:21	1
Perfluorooctanesulfonic acid (PFOS)	1.83	U	1.83	0.50	ng/L		11/20/19 06:29	11/22/19 03:21	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	18.3	U	18.3	1.74	ng/L		11/20/19 06:29	11/22/19 03:21	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	18.3	U	18.3	2.84	ng/L		11/20/19 06:29	11/22/19 03:21	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C2 PFHxA	101		25 - 150				11/20/19 06:29	11/22/19 03:21	1
13C4 PFHpA	110		25 - 150				11/20/19 06:29	11/22/19 03:21	1
13C4 PFOA	107		25 - 150				11/20/19 06:29	11/22/19 03:21	1
13C5 PFNA	100		25 - 150				11/20/19 06:29	11/22/19 03:21	1
13C2 PFDA	101		25 - 150				11/20/19 06:29	11/22/19 03:21	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196639-1

Client Sample ID: WSG-EB-BOWL-20191112

Lab Sample ID: 460-196639-40

Date Collected: 11/12/19 08:15

Matrix: Water

Date Received: 11/15/19 21:07

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFUnA	109		25 - 150	11/20/19 06:29	11/22/19 03:21	1
13C2 PFDoA	108		25 - 150	11/20/19 06:29	11/22/19 03:21	1
13C2 PFTeDA	95		25 - 150	11/20/19 06:29	11/22/19 03:21	1
18O2 PFHxS	119		25 - 150	11/20/19 06:29	11/22/19 03:21	1
13C4 PFOS	101		25 - 150	11/20/19 06:29	11/22/19 03:21	1
d3-NMeFOSAA	94		25 - 150	11/20/19 06:29	11/22/19 03:21	1
d5-NEtFOSAA	106		25 - 150	11/20/19 06:29	11/22/19 03:21	1

Client Sample ID: WSG-TB-20191112

Lab Sample ID: 460-196639-41

Date Collected: 11/12/19 00:00

Matrix: Water

Date Received: 11/15/19 21:07

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			11/23/19 09:29	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.37	ug/L			11/23/19 09:29	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			11/23/19 09:29	1
1,1,2-Trichloroethane	1.0	U	1.0	0.43	ug/L			11/23/19 09:29	1
1,1-Dichloroethane	1.0	U	1.0	0.26	ug/L			11/23/19 09:29	1
1,1-Dichloroethene	1.0	U	1.0	0.26	ug/L			11/23/19 09:29	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.37	ug/L			11/23/19 09:29	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.38	ug/L			11/23/19 09:29	1
1,2-Dichlorobenzene	1.0	U	1.0	0.43	ug/L			11/23/19 09:29	1
1,2-Dichloroethane	1.0	U	1.0	0.43	ug/L			11/23/19 09:29	1
1,2-Dichloropropane	1.0	U	1.0	0.35	ug/L			11/23/19 09:29	1
1,3-Dichlorobenzene	1.0	U	1.0	0.34	ug/L			11/23/19 09:29	1
1,4-Dichlorobenzene	1.0	U	1.0	0.33	ug/L			11/23/19 09:29	1
2-Butanone (MEK)	5.0	U	5.0	1.9	ug/L			11/23/19 09:29	1
2-Hexanone	5.0	U	5.0	1.1	ug/L			11/23/19 09:29	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	1.3	ug/L			11/23/19 09:29	1
Acetone	5.0	U	5.0	4.4	ug/L			11/23/19 09:29	1
Benzene	1.0	U	1.0	0.20	ug/L			11/23/19 09:29	1
Bromoform	1.0	U	1.0	0.54	ug/L			11/23/19 09:29	1
Bromomethane	1.0	U	1.0	0.55	ug/L			11/23/19 09:29	1
Carbon disulfide	1.0	U	1.0	0.82	ug/L			11/23/19 09:29	1
Carbon tetrachloride	1.0	U	1.0	0.21	ug/L			11/23/19 09:29	1
Chlorobenzene	1.0	U	1.0	0.38	ug/L			11/23/19 09:29	1
Chlorodibromomethane	1.0	U	1.0	0.28	ug/L			11/23/19 09:29	1
Chloroethane	1.0	U	1.0	0.32	ug/L			11/23/19 09:29	1
Chloroform	1.0	U	1.0	0.33	ug/L			11/23/19 09:29	1
Chloromethane	1.0	U	1.0	0.40	ug/L			11/23/19 09:29	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.22	ug/L			11/23/19 09:29	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.22	ug/L			11/23/19 09:29	1
Cyclohexane	1.0	U	1.0	0.32	ug/L			11/23/19 09:29	1
Dichlorobromomethane	1.0	U	1.0	0.34	ug/L			11/23/19 09:29	1
Dichlorodifluoromethane	1.0	U	1.0	0.31	ug/L			11/23/19 09:29	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			11/23/19 09:29	1
Ethylene Dibromide	1.0	U	1.0	0.50	ug/L			11/23/19 09:29	1
Isopropylbenzene	1.0	U	1.0	0.34	ug/L			11/23/19 09:29	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196639-1

Client Sample ID: WSG-TB-20191112

Lab Sample ID: 460-196639-41

Date Collected: 11/12/19 00:00

Matrix: Water

Date Received: 11/15/19 21:07

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl acetate	5.0	U	5.0	0.79	ug/L			11/23/19 09:29	1
Methyl tert-butyl ether	1.0	U	1.0	0.47	ug/L			11/23/19 09:29	1
Methylcyclohexane	1.0	U	1.0	0.26	ug/L			11/23/19 09:29	1
Methylene Chloride	1.0	U	1.0	0.32	ug/L			11/23/19 09:29	1
Styrene	1.0	U	1.0	0.42	ug/L			11/23/19 09:29	1
Tetrachloroethene	1.0	U	1.0	0.25	ug/L			11/23/19 09:29	1
Toluene	1.0	U	1.0	0.38	ug/L			11/23/19 09:29	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			11/23/19 09:29	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.49	ug/L			11/23/19 09:29	1
Trichloroethene	1.0	U	1.0	0.31	ug/L			11/23/19 09:29	1
Trichlorofluoromethane	1.0	U	1.0	0.32	ug/L			11/23/19 09:29	1
Vinyl chloride	1.0	U	1.0	0.17	ug/L			11/23/19 09:29	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			11/23/19 09:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	87		74 - 132		11/23/19 09:29	1
4-Bromofluorobenzene	88		77 - 124		11/23/19 09:29	1
Dibromofluoromethane (Surr)	97		72 - 131		11/23/19 09:29	1
Toluene-d8 (Surr)	99		80 - 120		11/23/19 09:29	1

Client Sample ID: WSG-GW9-26-0

Lab Sample ID: 460-196639-42

Date Collected: 11/12/19 10:20

Matrix: Water

Date Received: 11/15/19 21:07

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	27.3		1.93	0.56	ng/L		11/20/19 06:29	11/22/19 03:50	1
Perfluoroheptanoic acid (PFHpA)	27.7		1.93	0.24	ng/L		11/20/19 06:29	11/22/19 03:50	1
Perfluorooctanoic acid (PFOA)	200		1.93	0.82	ng/L		11/20/19 06:29	11/22/19 03:50	1
Perfluorononanoic acid (PFNA)	7.75		1.93	0.26	ng/L		11/20/19 06:29	11/22/19 03:50	1
Perfluorodecanoic acid (PFDA)	0.56	J	1.93	0.30	ng/L		11/20/19 06:29	11/22/19 03:50	1
Perfluoroundecanoic acid (PFUnA)	1.93	U	1.93	1.06	ng/L		11/20/19 06:29	11/22/19 03:50	1
Perfluorododecanoic acid (PFDoA)	1.93	U	1.93	0.53	ng/L		11/20/19 06:29	11/22/19 03:50	1
Perfluorotridecanoic acid (PFTriA)	1.93	U	1.93	1.25	ng/L		11/20/19 06:29	11/22/19 03:50	1
Perfluorotetradecanoic acid (PFTeA)	0.36	J	1.93	0.28	ng/L		11/20/19 06:29	11/22/19 03:50	1
Perfluorobutanesulfonic acid (PFBS)	7.10		1.93	0.19	ng/L		11/20/19 06:29	11/22/19 03:50	1
Perfluorohexanesulfonic acid (PFHxS)	274	B	1.93	0.16	ng/L		11/20/19 06:29	11/22/19 03:50	1
Perfluorooctanesulfonic acid (PFOS)	243		1.93	0.52	ng/L		11/20/19 06:29	11/22/19 03:50	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	19.3	U	19.3	1.83	ng/L		11/20/19 06:29	11/22/19 03:50	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	19.3	U	19.3	2.99	ng/L		11/20/19 06:29	11/22/19 03:50	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFHxA	98		25 - 150	11/20/19 06:29	11/22/19 03:50	1
13C4 PFHpA	107		25 - 150	11/20/19 06:29	11/22/19 03:50	1
13C4 PFOA	105		25 - 150	11/20/19 06:29	11/22/19 03:50	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196639-1

Client Sample ID: WSG-GW9-26-0

Lab Sample ID: 460-196639-42

Date Collected: 11/12/19 10:20

Matrix: Water

Date Received: 11/15/19 21:07

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C5 PFNA	104		25 - 150	11/20/19 06:29	11/22/19 03:50	1
13C2 PFDA	103		25 - 150	11/20/19 06:29	11/22/19 03:50	1
13C2 PFUnA	106		25 - 150	11/20/19 06:29	11/22/19 03:50	1
13C2 PFDoA	106		25 - 150	11/20/19 06:29	11/22/19 03:50	1
13C2 PFTeDA	94		25 - 150	11/20/19 06:29	11/22/19 03:50	1
18O2 PFHxS	123		25 - 150	11/20/19 06:29	11/22/19 03:50	1
13C4 PFOS	103		25 - 150	11/20/19 06:29	11/22/19 03:50	1
d3-NMeFOSAA	98		25 - 150	11/20/19 06:29	11/22/19 03:50	1
d5-NEtFOSAA	100		25 - 150	11/20/19 06:29	11/22/19 03:50	1

Client Sample ID: WSG-GW9-16-0

Lab Sample ID: 460-196639-43

Date Collected: 11/12/19 11:20

Matrix: Water

Date Received: 11/15/19 21:07

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	17.2		1.81	0.52	ng/L		11/20/19 06:29	11/22/19 04:00	1
Perfluoroheptanoic acid (PFHpA)	15.5		1.81	0.23	ng/L		11/20/19 06:29	11/22/19 04:00	1
Perfluorooctanoic acid (PFOA)	118		1.81	0.77	ng/L		11/20/19 06:29	11/22/19 04:00	1
Perfluorononanoic acid (PFNA)	5.98		1.81	0.24	ng/L		11/20/19 06:29	11/22/19 04:00	1
Perfluorodecanoic acid (PFDA)	0.70	J	1.81	0.28	ng/L		11/20/19 06:29	11/22/19 04:00	1
Perfluoroundecanoic acid (PFUnA)	1.81	U	1.81	0.99	ng/L		11/20/19 06:29	11/22/19 04:00	1
Perfluorododecanoic acid (PFDoA)	1.81	U	1.81	0.50	ng/L		11/20/19 06:29	11/22/19 04:00	1
Perfluorotridecanoic acid (PFTriA)	1.81	U	1.81	1.17	ng/L		11/20/19 06:29	11/22/19 04:00	1
Perfluorotetradecanoic acid (PFTeA)	1.81	U	1.81	0.26	ng/L		11/20/19 06:29	11/22/19 04:00	1
Perfluorobutanesulfonic acid (PFBS)	3.59		1.81	0.18	ng/L		11/20/19 06:29	11/22/19 04:00	1
Perfluorohexanesulfonic acid (PFHxS)	101	B	1.81	0.15	ng/L		11/20/19 06:29	11/22/19 04:00	1
Perfluorooctanesulfonic acid (PFOS)	130		1.81	0.49	ng/L		11/20/19 06:29	11/22/19 04:00	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	18.1	U	18.1	1.71	ng/L		11/20/19 06:29	11/22/19 04:00	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	18.1	U	18.1	2.80	ng/L		11/20/19 06:29	11/22/19 04:00	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFHxA	80		25 - 150	11/20/19 06:29	11/22/19 04:00	1
13C4 PFHpA	88		25 - 150	11/20/19 06:29	11/22/19 04:00	1
13C4 PFOA	92		25 - 150	11/20/19 06:29	11/22/19 04:00	1
13C5 PFNA	91		25 - 150	11/20/19 06:29	11/22/19 04:00	1
13C2 PFDA	96		25 - 150	11/20/19 06:29	11/22/19 04:00	1
13C2 PFUnA	104		25 - 150	11/20/19 06:29	11/22/19 04:00	1
13C2 PFDoA	102		25 - 150	11/20/19 06:29	11/22/19 04:00	1
13C2 PFTeDA	83		25 - 150	11/20/19 06:29	11/22/19 04:00	1
18O2 PFHxS	110		25 - 150	11/20/19 06:29	11/22/19 04:00	1
13C4 PFOS	95		25 - 150	11/20/19 06:29	11/22/19 04:00	1
d3-NMeFOSAA	96		25 - 150	11/20/19 06:29	11/22/19 04:00	1
d5-NEtFOSAA	106		25 - 150	11/20/19 06:29	11/22/19 04:00	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196639-1

Client Sample ID: WSG-C6-COMP-0

Lab Sample ID: 460-196639-44

Date Collected: 11/12/19 10:40

Matrix: Solid

Date Received: 11/15/19 21:07

Percent Solids: 86.0

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	0.23	U	0.23	0.048	ug/Kg	☼	11/21/19 08:43	11/30/19 03:46	1
Perfluoroheptanoic acid (PFHpA)	0.036	J Z	0.23	0.033	ug/Kg	☼	11/21/19 08:43	11/30/19 03:46	1
Perfluorooctanoic acid (PFOA)	0.23	U	0.23	0.099	ug/Kg	☼	11/21/19 08:43	11/30/19 03:46	1
Perfluorononanoic acid (PFNA)	0.041	J	0.23	0.041	ug/Kg	☼	11/21/19 08:43	11/30/19 03:46	1
Perfluorodecanoic acid (PFDA)	0.23	U	0.23	0.025	ug/Kg	☼	11/21/19 08:43	11/30/19 03:46	1
Perfluoroundecanoic acid (PFUnA)	0.23	U	0.23	0.041	ug/Kg	☼	11/21/19 08:43	11/30/19 03:46	1
Perfluorododecanoic acid (PFDoA)	0.23	U	0.23	0.077	ug/Kg	☼	11/21/19 08:43	11/30/19 03:46	1
Perfluorotridecanoic acid (PFTriA)	0.23	U	0.23	0.059	ug/Kg	☼	11/21/19 08:43	11/30/19 03:46	1
Perfluorotetradecanoic acid (PFTeA)	0.23	U	0.23	0.062	ug/Kg	☼	11/21/19 08:43	11/30/19 03:46	1
Perfluorobutanesulfonic acid (PFBS)	0.23	U	0.23	0.029	ug/Kg	☼	11/21/19 08:43	11/30/19 03:46	1
Perfluorohexanesulfonic acid (PFHxS)	0.23	U	0.23	0.036	ug/Kg	☼	11/21/19 08:43	11/30/19 03:46	1
Perfluorooctanesulfonic acid (PFOS)	0.37	J B	0.57	0.23	ug/Kg	☼	11/21/19 08:43	11/30/19 03:46	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.30	U	2.30	0.43	ug/Kg	☼	11/21/19 08:43	11/30/19 03:46	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.30	U	2.30	0.45	ug/Kg	☼	11/21/19 08:43	11/30/19 03:46	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C2 PFHxA	99		25 - 150				11/21/19 08:43	11/30/19 03:46	1
13C4 PFHpA	112		25 - 150				11/21/19 08:43	11/30/19 03:46	1
13C4 PFOA	108		25 - 150				11/21/19 08:43	11/30/19 03:46	1
13C5 PFNA	106		25 - 150				11/21/19 08:43	11/30/19 03:46	1
13C2 PFDA	96		25 - 150				11/21/19 08:43	11/30/19 03:46	1
13C2 PFUnA	89		25 - 150				11/21/19 08:43	11/30/19 03:46	1
13C2 PFDoA	92		25 - 150				11/21/19 08:43	11/30/19 03:46	1
13C2 PFTeA	89		25 - 150				11/21/19 08:43	11/30/19 03:46	1
18O2 PFHxS	119		25 - 150				11/21/19 08:43	11/30/19 03:46	1
13C4 PFOS	98		25 - 150				11/21/19 08:43	11/30/19 03:46	1
d3-NMeFOSAA	71		25 - 150				11/21/19 08:43	11/30/19 03:46	1
d5-NEtFOSAA	68		25 - 150				11/21/19 08:43	11/30/19 03:46	1

Client Sample ID: WSG-C6-COMP-0

Lab Sample ID: 460-196639-44

Date Collected: 11/12/19 10:40

Matrix: Solid

Date Received: 11/15/19 21:07

Percent Solids: 88.6

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.2	U	1.2	0.28	ug/Kg	☼	11/19/19 02:09	11/24/19 14:35	1
1,1,1,2-Tetrachloroethane	1.2	U	1.2	0.25	ug/Kg	☼	11/19/19 02:09	11/24/19 14:35	1
1,1,1,2-Trichloro-1,2,2-trifluoroethane	1.2	U	1.2	0.36	ug/Kg	☼	11/19/19 02:09	11/24/19 14:35	1
1,1,2-Trichloroethane	1.2	U	1.2	0.21	ug/Kg	☼	11/19/19 02:09	11/24/19 14:35	1
1,1-Dichloroethane	1.2	U	1.2	0.25	ug/Kg	☼	11/19/19 02:09	11/24/19 14:35	1
1,1-Dichloroethene	1.2	U	1.2	0.27	ug/Kg	☼	11/19/19 02:09	11/24/19 14:35	1
1,2,4-Trichlorobenzene	1.2	U	1.2	0.43	ug/Kg	☼	11/19/19 02:09	11/24/19 14:35	1
1,2-Dibromo-3-Chloropropane	1.2	U	1.2	0.55	ug/Kg	☼	11/19/19 02:09	11/24/19 14:35	1
1,2-Dichlorobenzene	1.2	U	1.2	0.17	ug/Kg	☼	11/19/19 02:09	11/24/19 14:35	1
1,2-Dichloroethane	1.2	U	1.2	0.35	ug/Kg	☼	11/19/19 02:09	11/24/19 14:35	1
1,2-Dichloropropane	1.2	U	1.2	0.50	ug/Kg	☼	11/19/19 02:09	11/24/19 14:35	1
1,3-Dichlorobenzene	1.2	U	1.2	0.19	ug/Kg	☼	11/19/19 02:09	11/24/19 14:35	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196639-1

Client Sample ID: WSG-C6-COMP-0

Lab Sample ID: 460-196639-44

Date Collected: 11/12/19 10:40

Matrix: Solid

Date Received: 11/15/19 21:07

Percent Solids: 88.6

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	1.2	U	1.2	0.27	ug/Kg	☼	11/19/19 02:09	11/24/19 14:35	1
2-Butanone (MEK)	6.0	U	6.0	3.2	ug/Kg	☼	11/19/19 02:09	11/24/19 14:35	1
2-Hexanone	6.0	U	6.0	2.0	ug/Kg	☼	11/19/19 02:09	11/24/19 14:35	1
4-Methyl-2-pentanone (MIBK)	6.0	U	6.0	1.9	ug/Kg	☼	11/19/19 02:09	11/24/19 14:35	1
Acetone	7.1	U	7.1	6.8	ug/Kg	☼	11/19/19 02:09	11/24/19 14:35	1
Benzene	1.2	U	1.2	0.31	ug/Kg	☼	11/19/19 02:09	11/24/19 14:35	1
Bromoform	1.2	U	1.2	0.51	ug/Kg	☼	11/19/19 02:09	11/24/19 14:35	1
Bromomethane	1.2	U	1.2	0.56	ug/Kg	☼	11/19/19 02:09	11/24/19 14:35	1
Carbon disulfide	1.2	U	1.2	0.32	ug/Kg	☼	11/19/19 02:09	11/24/19 14:35	1
Carbon tetrachloride	1.2	U	1.2	0.46	ug/Kg	☼	11/19/19 02:09	11/24/19 14:35	1
Chlorobenzene	1.2	U	1.2	0.21	ug/Kg	☼	11/19/19 02:09	11/24/19 14:35	1
Chlorodibromomethane	1.2	U	1.2	0.23	ug/Kg	☼	11/19/19 02:09	11/24/19 14:35	1
Chloroethane	1.2	U	1.2	0.62	ug/Kg	☼	11/19/19 02:09	11/24/19 14:35	1
Chloroform	1.2	U	1.2	0.38	ug/Kg	☼	11/19/19 02:09	11/24/19 14:35	1
Chloromethane	1.2	U	1.2	0.52	ug/Kg	☼	11/19/19 02:09	11/24/19 14:35	1
cis-1,2-Dichloroethene	1.2	U	1.2	0.18	ug/Kg	☼	11/19/19 02:09	11/24/19 14:35	1
cis-1,3-Dichloropropene	1.2	U	1.2	0.33	ug/Kg	☼	11/19/19 02:09	11/24/19 14:35	1
Cyclohexane	1.2	U	1.2	0.26	ug/Kg	☼	11/19/19 02:09	11/24/19 14:35	1
Dichlorobromomethane	1.2	U	1.2	0.31	ug/Kg	☼	11/19/19 02:09	11/24/19 14:35	1
Dichlorodifluoromethane	1.2	U	1.2	0.40	ug/Kg	☼	11/19/19 02:09	11/24/19 14:35	1
Ethylbenzene	1.2	U	1.2	0.24	ug/Kg	☼	11/19/19 02:09	11/24/19 14:35	1
Ethylene Dibromide	1.2	U	1.2	0.21	ug/Kg	☼	11/19/19 02:09	11/24/19 14:35	1
Isopropylbenzene	1.2	U	1.2	0.15	ug/Kg	☼	11/19/19 02:09	11/24/19 14:35	1
Methyl acetate	6.0	U *	6.0	5.1	ug/Kg	☼	11/19/19 02:09	11/24/19 14:35	1
Methyl tert-butyl ether	1.2	U	1.2	0.15	ug/Kg	☼	11/19/19 02:09	11/24/19 14:35	1
Methylcyclohexane	1.2	U	1.2	0.59	ug/Kg	☼	11/19/19 02:09	11/24/19 14:35	1
Methylene Chloride	1.0	J	1.2	0.55	ug/Kg	☼	11/19/19 02:09	11/24/19 14:35	1
Styrene	1.2	U	1.2	0.33	ug/Kg	☼	11/19/19 02:09	11/24/19 14:35	1
Tetrachloroethene	1.2	U	1.2	0.17	ug/Kg	☼	11/19/19 02:09	11/24/19 14:35	1
Toluene	1.2	U	1.2	0.28	ug/Kg	☼	11/19/19 02:09	11/24/19 14:35	1
trans-1,2-Dichloroethene	1.2	U	1.2	0.29	ug/Kg	☼	11/19/19 02:09	11/24/19 14:35	1
trans-1,3-Dichloropropene	1.2	U	1.2	0.32	ug/Kg	☼	11/19/19 02:09	11/24/19 14:35	1
Trichloroethene	1.2	U	1.2	0.17	ug/Kg	☼	11/19/19 02:09	11/24/19 14:35	1
Trichlorofluoromethane	1.2	U	1.2	0.48	ug/Kg	☼	11/19/19 02:09	11/24/19 14:35	1
Vinyl chloride	1.2	U	1.2	0.65	ug/Kg	☼	11/19/19 02:09	11/24/19 14:35	1
Xylenes, Total	2.4	U	2.4	0.21	ug/Kg	☼	11/19/19 02:09	11/24/19 14:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		78 - 135	11/19/19 02:09	11/24/19 14:35	1
4-Bromofluorobenzene	102		67 - 126	11/19/19 02:09	11/24/19 14:35	1
Dibromofluoromethane (Surr)	103		61 - 149	11/19/19 02:09	11/24/19 14:35	1
Toluene-d8 (Surr)	97		73 - 121	11/19/19 02:09	11/24/19 14:35	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	370	U	370	5.0	ug/Kg	☼	11/17/19 12:36	11/18/19 08:01	1
2,2'-oxybis[1-chloropropane]	370	U	370	6.7	ug/Kg	☼	11/17/19 12:36	11/18/19 08:01	1
2,4,5-Trichlorophenol	370	U	370	38	ug/Kg	☼	11/17/19 12:36	11/18/19 08:01	1
2,4,6-Trichlorophenol	150	U	150	48	ug/Kg	☼	11/17/19 12:36	11/18/19 08:01	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196639-1

Client Sample ID: WSG-C6-COMP-0

Lab Sample ID: 460-196639-44

Date Collected: 11/12/19 10:40

Matrix: Solid

Date Received: 11/15/19 21:07

Percent Solids: 88.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenol	150	U	150	24	ug/Kg	☒	11/17/19 12:36	11/18/19 08:01	1
2,4-Dimethylphenol	370	U	370	16	ug/Kg	☒	11/17/19 12:36	11/18/19 08:01	1
2,4-Dinitrophenol	300	U	300	180	ug/Kg	☒	11/17/19 12:36	11/18/19 08:01	1
2,4-Dinitrotoluene	76	U	76	40	ug/Kg	☒	11/17/19 12:36	11/18/19 08:01	1
2,6-Dinitrotoluene	76	U	76	27	ug/Kg	☒	11/17/19 12:36	11/18/19 08:01	1
2-Chloronaphthalene	370	U	370	17	ug/Kg	☒	11/17/19 12:36	11/18/19 08:01	1
2-Chlorophenol	370	U	370	13	ug/Kg	☒	11/17/19 12:36	11/18/19 08:01	1
2-Methylnaphthalene	370	U	370	10	ug/Kg	☒	11/17/19 12:36	11/18/19 08:01	1
2-Methylphenol	370	U	370	14	ug/Kg	☒	11/17/19 12:36	11/18/19 08:01	1
2-Nitroaniline	370	U	370	14	ug/Kg	☒	11/17/19 12:36	11/18/19 08:01	1
2-Nitrophenol	370	U	370	37	ug/Kg	☒	11/17/19 12:36	11/18/19 08:01	1
3,3'-Dichlorobenzidine	150	U	150	56	ug/Kg	☒	11/17/19 12:36	11/18/19 08:01	1
3-Nitroaniline	370	U	370	42	ug/Kg	☒	11/17/19 12:36	11/18/19 08:01	1
4,6-Dinitro-2-methylphenol	300	U	300	61	ug/Kg	☒	11/17/19 12:36	11/18/19 08:01	1
4-Bromophenyl phenyl ether	370	U	370	15	ug/Kg	☒	11/17/19 12:36	11/18/19 08:01	1
4-Chloro-3-methylphenol	370	U	370	21	ug/Kg	☒	11/17/19 12:36	11/18/19 08:01	1
4-Chloroaniline	370	U	370	26	ug/Kg	☒	11/17/19 12:36	11/18/19 08:01	1
4-Chlorophenyl phenyl ether	370	U	370	13	ug/Kg	☒	11/17/19 12:36	11/18/19 08:01	1
4-Methylphenol	370	U	370	23	ug/Kg	☒	11/17/19 12:36	11/18/19 08:01	1
4-Nitroaniline	370	U	370	43	ug/Kg	☒	11/17/19 12:36	11/18/19 08:01	1
4-Nitrophenol	760	U	760	61	ug/Kg	☒	11/17/19 12:36	11/18/19 08:01	1
Acenaphthene	370	U	370	27	ug/Kg	☒	11/17/19 12:36	11/18/19 08:01	1
Acenaphthylene	370	U	370	3.9	ug/Kg	☒	11/17/19 12:36	11/18/19 08:01	1
Acetophenone	370	U	370	18	ug/Kg	☒	11/17/19 12:36	11/18/19 08:01	1
Anthracene	370	U	370	11	ug/Kg	☒	11/17/19 12:36	11/18/19 08:01	1
Atrazine	150	U	150	9.4	ug/Kg	☒	11/17/19 12:36	11/18/19 08:01	1
Benzaldehyde	370	U	370	16	ug/Kg	☒	11/17/19 12:36	11/18/19 08:01	1
Benzo[a]anthracene	18	J	37	13	ug/Kg	☒	11/17/19 12:36	11/18/19 08:01	1
Benzo[a]pyrene	37	U	37	9.9	ug/Kg	☒	11/17/19 12:36	11/18/19 08:01	1
Benzo[b]fluoranthene	16	J	37	9.6	ug/Kg	☒	11/17/19 12:36	11/18/19 08:01	1
Benzo[g,h,i]perylene	370	U	370	11	ug/Kg	☒	11/17/19 12:36	11/18/19 08:01	1
Benzo[k]fluoranthene	37	U	37	7.3	ug/Kg	☒	11/17/19 12:36	11/18/19 08:01	1
Bis(2-chloroethoxy)methane	370	U	370	29	ug/Kg	☒	11/17/19 12:36	11/18/19 08:01	1
Bis(2-chloroethyl)ether	37	U	37	13	ug/Kg	☒	11/17/19 12:36	11/18/19 08:01	1
Bis(2-ethylhexyl) phthalate	370	U	370	20	ug/Kg	☒	11/17/19 12:36	11/18/19 08:01	1
Butyl benzyl phthalate	370	U	370	17	ug/Kg	☒	11/17/19 12:36	11/18/19 08:01	1
Caprolactam	370	U	370	58	ug/Kg	☒	11/17/19 12:36	11/18/19 08:01	1
Carbazole	370	U	370	14	ug/Kg	☒	11/17/19 12:36	11/18/19 08:01	1
Chrysene	12	J	370	6.3	ug/Kg	☒	11/17/19 12:36	11/18/19 08:01	1
Dibenz(a,h)anthracene	37	U	37	16	ug/Kg	☒	11/17/19 12:36	11/18/19 08:01	1
Dibenzofuran	370	U	370	5.2	ug/Kg	☒	11/17/19 12:36	11/18/19 08:01	1
Diethyl phthalate	370	U	370	5.4	ug/Kg	☒	11/17/19 12:36	11/18/19 08:01	1
Dimethyl phthalate	370	U	370	85	ug/Kg	☒	11/17/19 12:36	11/18/19 08:01	1
Di-n-butyl phthalate	370	U	370	66	ug/Kg	☒	11/17/19 12:36	11/18/19 08:01	1
Di-n-octyl phthalate	370	U	370	20	ug/Kg	☒	11/17/19 12:36	11/18/19 08:01	1
Fluoranthene	13	J	370	13	ug/Kg	☒	11/17/19 12:36	11/18/19 08:01	1
Fluorene	370	U	370	5.1	ug/Kg	☒	11/17/19 12:36	11/18/19 08:01	1
Hexachlorobenzene	37	U	37	18	ug/Kg	☒	11/17/19 12:36	11/18/19 08:01	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196639-1

Client Sample ID: WSG-C6-COMP-0

Lab Sample ID: 460-196639-44

Date Collected: 11/12/19 10:40

Matrix: Solid

Date Received: 11/15/19 21:07

Percent Solids: 88.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobutadiene	76	U	76	7.9	ug/Kg	☒	11/17/19 12:36	11/18/19 08:01	1
Hexachlorocyclopentadiene	370	U	370	33	ug/Kg	☒	11/17/19 12:36	11/18/19 08:01	1
Hexachloroethane	37	U	37	13	ug/Kg	☒	11/17/19 12:36	11/18/19 08:01	1
Indeno[1,2,3-cd]pyrene	37	U	37	15	ug/Kg	☒	11/17/19 12:36	11/18/19 08:01	1
Isophorone	150	U	150	110	ug/Kg	☒	11/17/19 12:36	11/18/19 08:01	1
Naphthalene	370	U	370	6.4	ug/Kg	☒	11/17/19 12:36	11/18/19 08:01	1
Nitrobenzene	37	U	37	9.0	ug/Kg	☒	11/17/19 12:36	11/18/19 08:01	1
N-Nitrosodi-n-propylamine	37	U	37	27	ug/Kg	☒	11/17/19 12:36	11/18/19 08:01	1
N-Nitrosodiphenylamine	370	U	370	7.1	ug/Kg	☒	11/17/19 12:36	11/18/19 08:01	1
Pentachlorophenol	300	U	300	76	ug/Kg	☒	11/17/19 12:36	11/18/19 08:01	1
Phenanthrene	370	U	370	6.6	ug/Kg	☒	11/17/19 12:36	11/18/19 08:01	1
Phenol	370	U	370	14	ug/Kg	☒	11/17/19 12:36	11/18/19 08:01	1
Pyrene	370	U	370	9.3	ug/Kg	☒	11/17/19 12:36	11/18/19 08:01	1
1,4-Dioxane	110	U	110	10	ug/Kg	☒	11/17/19 12:36	11/18/19 08:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	48		10 - 137	11/17/19 12:36	11/18/19 08:01	1
2-Fluorophenol (Surr)	54		20 - 115	11/17/19 12:36	11/18/19 08:01	1
Nitrobenzene-d5 (Surr)	54		25 - 113	11/17/19 12:36	11/18/19 08:01	1
Terphenyl-d14 (Surr)	59		27 - 123	11/17/19 12:36	11/18/19 08:01	1
Phenol-d5 (Surr)	53		28 - 109	11/17/19 12:36	11/18/19 08:01	1
2-Fluorobiphenyl	50		29 - 107	11/17/19 12:36	11/18/19 08:01	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	7.6	U	7.6	1.3	ug/Kg	☒	11/17/19 08:26	11/19/19 13:41	1
4,4'-DDE	9.8		7.6	0.89	ug/Kg	☒	11/17/19 08:26	11/19/19 13:41	1
4,4'-DDT	17		7.6	1.4	ug/Kg	☒	11/17/19 08:26	11/19/19 13:41	1
Aldrin	7.6	U	7.6	1.1	ug/Kg	☒	11/17/19 08:26	11/19/19 13:41	1
alpha-BHC	2.3	U	2.3	0.77	ug/Kg	☒	11/17/19 08:26	11/19/19 13:41	1
beta-BHC	2.3	U	2.3	0.85	ug/Kg	☒	11/17/19 08:26	11/19/19 13:41	1
Chlordane (technical)	76	U	76	18	ug/Kg	☒	11/17/19 08:26	11/19/19 13:41	1
delta-BHC	2.3	U	2.3	0.46	ug/Kg	☒	11/17/19 08:26	11/19/19 13:41	1
Dieldrin	2.3	U	2.3	0.98	ug/Kg	☒	11/17/19 08:26	11/19/19 13:41	1
Endosulfan I	7.6	U	7.6	1.2	ug/Kg	☒	11/17/19 08:26	11/19/19 13:41	1
Endosulfan II	7.6	U	7.6	1.9	ug/Kg	☒	11/17/19 08:26	11/19/19 13:41	1
Endosulfan sulfate	7.6	U	7.6	0.95	ug/Kg	☒	11/17/19 08:26	11/19/19 13:41	1
Endrin	7.6	U	7.6	1.1	ug/Kg	☒	11/17/19 08:26	11/19/19 13:41	1
Endrin aldehyde	7.6	U	7.6	1.8	ug/Kg	☒	11/17/19 08:26	11/19/19 13:41	1
Endrin ketone	7.6	U	7.6	1.5	ug/Kg	☒	11/17/19 08:26	11/19/19 13:41	1
gamma-BHC (Lindane)	2.3	U	2.3	0.70	ug/Kg	☒	11/17/19 08:26	11/19/19 13:41	1
Heptachlor	7.6	U	7.6	0.89	ug/Kg	☒	11/17/19 08:26	11/19/19 13:41	1
Heptachlor epoxide	7.6	U	7.6	1.1	ug/Kg	☒	11/17/19 08:26	11/19/19 13:41	1
Methoxychlor	7.6	U	7.6	1.7	ug/Kg	☒	11/17/19 08:26	11/19/19 13:41	1
Toxaphene	76	U	76	27	ug/Kg	☒	11/17/19 08:26	11/19/19 13:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	59		49 - 150	11/17/19 08:26	11/19/19 13:41	1
DCB Decachlorobiphenyl	61		49 - 150	11/17/19 08:26	11/19/19 13:41	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196639-1

Client Sample ID: WSG-C6-COMP-0

Lab Sample ID: 460-196639-44

Date Collected: 11/12/19 10:40

Matrix: Solid

Date Received: 11/15/19 21:07

Percent Solids: 88.6

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	64		47 - 150	11/17/19 08:26	11/19/19 13:41	1
Tetrachloro-m-xylene	60		47 - 150	11/17/19 08:26	11/19/19 13:41	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	76	U	76	10	ug/Kg	☼	11/17/19 08:18	11/18/19 16:50	1
Aroclor 1221	76	U	76	10	ug/Kg	☼	11/17/19 08:18	11/18/19 16:50	1
Aroclor 1232	76	U	76	10	ug/Kg	☼	11/17/19 08:18	11/18/19 16:50	1
Aroclor 1242	76	U	76	10	ug/Kg	☼	11/17/19 08:18	11/18/19 16:50	1
Aroclor 1248	76	U	76	10	ug/Kg	☼	11/17/19 08:18	11/18/19 16:50	1
Aroclor 1254	76	U	76	10	ug/Kg	☼	11/17/19 08:18	11/18/19 16:50	1
Aroclor 1260	76	U	76	10	ug/Kg	☼	11/17/19 08:18	11/18/19 16:50	1
Aroclor-1262	76	U	76	10	ug/Kg	☼	11/17/19 08:18	11/18/19 16:50	1
Aroclor 1268	76	U	76	10	ug/Kg	☼	11/17/19 08:18	11/18/19 16:50	1
Polychlorinated biphenyls, Total	76	U	76	10	ug/Kg	☼	11/17/19 08:18	11/18/19 16:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	108		53 - 150	11/17/19 08:18	11/18/19 16:50	1
DCB Decachlorobiphenyl	115		53 - 150	11/17/19 08:18	11/18/19 16:50	1

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	38	U	38	14	ug/Kg	☼	11/20/19 02:56	11/20/19 18:43	1
Silvex (2,4,5-TP)	38	U	38	3.9	ug/Kg	☼	11/20/19 02:56	11/20/19 18:43	1
2,4,5-T	38	U	38	8.0	ug/Kg	☼	11/20/19 02:56	11/20/19 18:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	120		30 - 150	11/20/19 02:56	11/20/19 18:43	1
2,4-Dichlorophenylacetic acid	126		30 - 150	11/20/19 02:56	11/20/19 18:43	1

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	7720		32.9	16.1	mg/Kg	☼	11/26/19 04:35	11/26/19 19:19	4
Silver	2.2	U	2.2	0.21	mg/Kg	☼	11/26/19 04:35	11/26/19 19:19	4
Aluminum	6170		43.8	12.4	mg/Kg	☼	11/26/19 04:35	11/26/19 19:19	4
Arsenic	8.8		3.3	1.3	mg/Kg	☼	11/26/19 04:35	11/26/19 19:19	4
Boron	5.9	J	11.0	3.0	mg/Kg	☼	11/26/19 04:35	11/26/19 19:19	4
Barium	16.3	J	43.8	2.4	mg/Kg	☼	11/26/19 04:35	11/26/19 19:19	4
Beryllium	0.28	J	0.44	0.098	mg/Kg	☼	11/26/19 04:35	11/26/19 19:19	4
Calcium	2200		1100	64.5	mg/Kg	☼	11/26/19 04:35	11/26/19 19:19	4
Cadmium	0.88	U	0.88	0.15	mg/Kg	☼	11/26/19 04:35	11/26/19 19:19	4
Cobalt	2.4	J	11.0	1.3	mg/Kg	☼	11/26/19 04:35	11/26/19 19:19	4
Chromium	8.2		2.2	0.39	mg/Kg	☼	11/26/19 04:35	11/26/19 19:19	4
Copper	18.6		5.5	2.9	mg/Kg	☼	11/26/19 04:35	11/26/19 19:19	4
Potassium	372	J	1100	68.2	mg/Kg	☼	11/26/19 04:35	11/26/19 19:19	4
Magnesium	1200		1100	63.9	mg/Kg	☼	11/26/19 04:35	11/26/19 19:19	4
Manganese	85.5		3.3	0.38	mg/Kg	☼	11/26/19 04:35	11/26/19 19:19	4
Molybdenum	4.4	U	4.4	1.0	mg/Kg	☼	11/26/19 04:35	11/26/19 19:19	4
Sodium	1100	U	1100	88.1	mg/Kg	☼	11/26/19 04:35	11/26/19 19:19	4

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196639-1

Client Sample ID: WSG-C6-COMP-0

Lab Sample ID: 460-196639-44

Date Collected: 11/12/19 10:40

Matrix: Solid

Date Received: 11/15/19 21:07

Percent Solids: 88.6

Method: 6010D - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nickel	4.7	J	8.8	0.81	mg/Kg	☼	11/26/19 04:35	11/26/19 19:19	4
Lead	8.2		2.2	0.57	mg/Kg	☼	11/26/19 04:35	11/26/19 19:19	4
Antimony	4.4	U	4.4	1.2	mg/Kg	☼	11/26/19 04:35	11/26/19 19:19	4
Selenium	4.4	U	4.4	2.6	mg/Kg	☼	11/26/19 04:35	11/26/19 19:19	4
Tin	11.0	U	11.0	7.1	mg/Kg	☼	11/26/19 04:35	11/26/19 19:19	4
Strontium	7.9		4.4	0.44	mg/Kg	☼	11/26/19 04:35	11/26/19 19:19	4
Titanium	324		4.4	0.66	mg/Kg	☼	11/26/19 04:35	11/26/19 19:19	4
Thallium	4.4	U	4.4	0.70	mg/Kg	☼	11/26/19 04:35	11/26/19 19:19	4
Vanadium	12.4		11.0	0.73	mg/Kg	☼	11/26/19 04:35	11/26/19 19:19	4
Zinc	18.1		6.6	5.1	mg/Kg	☼	11/26/19 04:35	11/26/19 19:19	4

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.021		0.019	0.011	mg/Kg	☼	11/25/19 04:23	11/25/19 09:00	1

Client Sample ID: WSG-C5-COMP-0

Lab Sample ID: 460-196639-45

Date Collected: 11/12/19 10:50

Matrix: Solid

Date Received: 11/15/19 21:07

Percent Solids: 86.0

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	0.22	U	0.22	0.045	ug/Kg	☼	11/21/19 08:43	11/30/19 03:56	1
Perfluoroheptanoic acid (PFHpA)	0.22	U	0.22	0.031	ug/Kg	☼	11/21/19 08:43	11/30/19 03:56	1
Perfluorooctanoic acid (PFOA)	0.22	U	0.22	0.093	ug/Kg	☼	11/21/19 08:43	11/30/19 03:56	1
Perfluorononanoic acid (PFNA)	0.22	U	0.22	0.039	ug/Kg	☼	11/21/19 08:43	11/30/19 03:56	1
Perfluorodecanoic acid (PFDA)	0.051	J	0.22	0.024	ug/Kg	☼	11/21/19 08:43	11/30/19 03:56	1
Perfluoroundecanoic acid (PFUnA)	0.039	J	0.22	0.039	ug/Kg	☼	11/21/19 08:43	11/30/19 03:56	1
Perfluorododecanoic acid (PFDoA)	0.22	U	0.22	0.073	ug/Kg	☼	11/21/19 08:43	11/30/19 03:56	1
Perfluorotridecanoic acid (PFTriA)	0.22	U	0.22	0.055	ug/Kg	☼	11/21/19 08:43	11/30/19 03:56	1
Perfluorotetradecanoic acid (PFTeA)	0.22	U	0.22	0.058	ug/Kg	☼	11/21/19 08:43	11/30/19 03:56	1
Perfluorobutanesulfonic acid (PFBS)	0.22	U	0.22	0.027	ug/Kg	☼	11/21/19 08:43	11/30/19 03:56	1
Perfluorohexanesulfonic acid (PFHxS)	0.22	U	0.22	0.034	ug/Kg	☼	11/21/19 08:43	11/30/19 03:56	1
Perfluorooctanesulfonic acid (PFOS)	0.29	J B	0.54	0.22	ug/Kg	☼	11/21/19 08:43	11/30/19 03:56	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.16	U	2.16	0.40	ug/Kg	☼	11/21/19 08:43	11/30/19 03:56	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.16	U	2.16	0.42	ug/Kg	☼	11/21/19 08:43	11/30/19 03:56	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFHxA	99		25 - 150	11/21/19 08:43	11/30/19 03:56	1
13C4 PFHpA	113		25 - 150	11/21/19 08:43	11/30/19 03:56	1
13C4 PFOA	108		25 - 150	11/21/19 08:43	11/30/19 03:56	1
13C5 PFNA	110		25 - 150	11/21/19 08:43	11/30/19 03:56	1
13C2 PFDA	105		25 - 150	11/21/19 08:43	11/30/19 03:56	1
13C2 PFUnA	113		25 - 150	11/21/19 08:43	11/30/19 03:56	1
13C2 PFDoA	108		25 - 150	11/21/19 08:43	11/30/19 03:56	1
13C2 PFTeA	106		25 - 150	11/21/19 08:43	11/30/19 03:56	1
18O2 PFHxS	115		25 - 150	11/21/19 08:43	11/30/19 03:56	1
13C4 PFOS	106		25 - 150	11/21/19 08:43	11/30/19 03:56	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196639-1

Client Sample ID: WSG-C5-COMP-0

Lab Sample ID: 460-196639-45

Date Collected: 11/12/19 10:50

Matrix: Solid

Date Received: 11/15/19 21:07

Percent Solids: 86.0

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d3-NMeFOSAA	85		25 - 150	11/21/19 08:43	11/30/19 03:56	1
d5-NEtFOSAA	87		25 - 150	11/21/19 08:43	11/30/19 03:56	1

Client Sample ID: WSG-C5-COMP-0

Lab Sample ID: 460-196639-45

Date Collected: 11/12/19 10:50

Matrix: Solid

Date Received: 11/15/19 21:07

Percent Solids: 86.1

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.1	U	1.1	0.25	ug/Kg	☼	11/19/19 02:10	11/24/19 14:58	1
1,1,2,2-Tetrachloroethane	1.1	U	1.1	0.23	ug/Kg	☼	11/19/19 02:10	11/24/19 14:58	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.1	U	1.1	0.33	ug/Kg	☼	11/19/19 02:10	11/24/19 14:58	1
1,1,2-Trichloroethane	1.1	U	1.1	0.19	ug/Kg	☼	11/19/19 02:10	11/24/19 14:58	1
1,1-Dichloroethane	1.1	U	1.1	0.22	ug/Kg	☼	11/19/19 02:10	11/24/19 14:58	1
1,1-Dichloroethene	1.1	U	1.1	0.25	ug/Kg	☼	11/19/19 02:10	11/24/19 14:58	1
1,2,4-Trichlorobenzene	1.1	U	1.1	0.39	ug/Kg	☼	11/19/19 02:10	11/24/19 14:58	1
1,2-Dibromo-3-Chloropropane	1.1	U	1.1	0.50	ug/Kg	☼	11/19/19 02:10	11/24/19 14:58	1
1,2-Dichlorobenzene	1.1	U	1.1	0.16	ug/Kg	☼	11/19/19 02:10	11/24/19 14:58	1
1,2-Dichloroethane	1.1	U	1.1	0.32	ug/Kg	☼	11/19/19 02:10	11/24/19 14:58	1
1,2-Dichloropropane	1.1	U	1.1	0.46	ug/Kg	☼	11/19/19 02:10	11/24/19 14:58	1
1,3-Dichlorobenzene	1.1	U	1.1	0.17	ug/Kg	☼	11/19/19 02:10	11/24/19 14:58	1
1,4-Dichlorobenzene	1.1	U	1.1	0.25	ug/Kg	☼	11/19/19 02:10	11/24/19 14:58	1
2-Butanone (MEK)	5.5	U	5.5	3.0	ug/Kg	☼	11/19/19 02:10	11/24/19 14:58	1
2-Hexanone	5.5	U	5.5	1.9	ug/Kg	☼	11/19/19 02:10	11/24/19 14:58	1
4-Methyl-2-pentanone (MIBK)	5.5	U	5.5	1.7	ug/Kg	☼	11/19/19 02:10	11/24/19 14:58	1
Acetone	6.6	U	6.6	6.2	ug/Kg	☼	11/19/19 02:10	11/24/19 14:58	1
Benzene	1.1	U	1.1	0.28	ug/Kg	☼	11/19/19 02:10	11/24/19 14:58	1
Bromoform	1.1	U	1.1	0.46	ug/Kg	☼	11/19/19 02:10	11/24/19 14:58	1
Bromomethane	1.1	U	1.1	0.52	ug/Kg	☼	11/19/19 02:10	11/24/19 14:58	1
Carbon disulfide	1.1	U	1.1	0.29	ug/Kg	☼	11/19/19 02:10	11/24/19 14:58	1
Carbon tetrachloride	1.1	U	1.1	0.42	ug/Kg	☼	11/19/19 02:10	11/24/19 14:58	1
Chlorobenzene	1.1	U	1.1	0.19	ug/Kg	☼	11/19/19 02:10	11/24/19 14:58	1
Chlorodibromomethane	1.1	U	1.1	0.21	ug/Kg	☼	11/19/19 02:10	11/24/19 14:58	1
Chloroethane	1.1	U	1.1	0.57	ug/Kg	☼	11/19/19 02:10	11/24/19 14:58	1
Chloroform	1.1	U	1.1	0.35	ug/Kg	☼	11/19/19 02:10	11/24/19 14:58	1
Chloromethane	1.1	U	1.1	0.48	ug/Kg	☼	11/19/19 02:10	11/24/19 14:58	1
cis-1,2-Dichloroethene	1.1	U	1.1	0.17	ug/Kg	☼	11/19/19 02:10	11/24/19 14:58	1
cis-1,3-Dichloropropene	1.1	U	1.1	0.30	ug/Kg	☼	11/19/19 02:10	11/24/19 14:58	1
Cyclohexane	1.1	U	1.1	0.24	ug/Kg	☼	11/19/19 02:10	11/24/19 14:58	1
Dichlorobromomethane	1.1	U	1.1	0.28	ug/Kg	☼	11/19/19 02:10	11/24/19 14:58	1
Dichlorodifluoromethane	1.1	U	1.1	0.37	ug/Kg	☼	11/19/19 02:10	11/24/19 14:58	1
Ethylbenzene	1.1	U	1.1	0.22	ug/Kg	☼	11/19/19 02:10	11/24/19 14:58	1
Ethylene Dibromide	1.1	U	1.1	0.20	ug/Kg	☼	11/19/19 02:10	11/24/19 14:58	1
Isopropylbenzene	1.1	U	1.1	0.14	ug/Kg	☼	11/19/19 02:10	11/24/19 14:58	1
Methyl acetate	5.5	U*	5.5	4.7	ug/Kg	☼	11/19/19 02:10	11/24/19 14:58	1
Methyl tert-butyl ether	1.1	U	1.1	0.14	ug/Kg	☼	11/19/19 02:10	11/24/19 14:58	1
Methylcyclohexane	1.1	U	1.1	0.54	ug/Kg	☼	11/19/19 02:10	11/24/19 14:58	1
Methylene Chloride	1.1	U	1.1	0.51	ug/Kg	☼	11/19/19 02:10	11/24/19 14:58	1
Styrene	1.1	U	1.1	0.30	ug/Kg	☼	11/19/19 02:10	11/24/19 14:58	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196639-1

Client Sample ID: WSG-C5-COMP-0

Lab Sample ID: 460-196639-45

Date Collected: 11/12/19 10:50

Matrix: Solid

Date Received: 11/15/19 21:07

Percent Solids: 86.1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	1.1	U	1.1	0.16	ug/Kg	☼	11/19/19 02:10	11/24/19 14:58	1
Toluene	1.1	U	1.1	0.26	ug/Kg	☼	11/19/19 02:10	11/24/19 14:58	1
trans-1,2-Dichloroethene	1.1	U	1.1	0.27	ug/Kg	☼	11/19/19 02:10	11/24/19 14:58	1
trans-1,3-Dichloropropene	1.1	U	1.1	0.29	ug/Kg	☼	11/19/19 02:10	11/24/19 14:58	1
Trichloroethene	1.1	U	1.1	0.16	ug/Kg	☼	11/19/19 02:10	11/24/19 14:58	1
Trichlorofluoromethane	1.1	U	1.1	0.44	ug/Kg	☼	11/19/19 02:10	11/24/19 14:58	1
Vinyl chloride	1.1	U	1.1	0.60	ug/Kg	☼	11/19/19 02:10	11/24/19 14:58	1
Xylenes, Total	2.2	U	2.2	0.19	ug/Kg	☼	11/19/19 02:10	11/24/19 14:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		78 - 135	11/19/19 02:10	11/24/19 14:58	1
4-Bromofluorobenzene	99		67 - 126	11/19/19 02:10	11/24/19 14:58	1
Dibromofluoromethane (Surr)	99		61 - 149	11/19/19 02:10	11/24/19 14:58	1
Toluene-d8 (Surr)	92		73 - 121	11/19/19 02:10	11/24/19 14:58	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	380	U	380	5.1	ug/Kg	☼	11/17/19 12:36	11/18/19 08:24	1
2,2'-oxybis[1-chloropropane]	380	U	380	7.0	ug/Kg	☼	11/17/19 12:36	11/18/19 08:24	1
2,4,5-Trichlorophenol	380	U	380	39	ug/Kg	☼	11/17/19 12:36	11/18/19 08:24	1
2,4,6-Trichlorophenol	150	U	150	49	ug/Kg	☼	11/17/19 12:36	11/18/19 08:24	1
2,4-Dichlorophenol	150	U	150	25	ug/Kg	☼	11/17/19 12:36	11/18/19 08:24	1
2,4-Dimethylphenol	380	U	380	17	ug/Kg	☼	11/17/19 12:36	11/18/19 08:24	1
2,4-Dinitrophenol	310	U	310	190	ug/Kg	☼	11/17/19 12:36	11/18/19 08:24	1
2,4-Dinitrotoluene	78	U	78	41	ug/Kg	☼	11/17/19 12:36	11/18/19 08:24	1
2,6-Dinitrotoluene	78	U	78	28	ug/Kg	☼	11/17/19 12:36	11/18/19 08:24	1
2-Chloronaphthalene	380	U	380	18	ug/Kg	☼	11/17/19 12:36	11/18/19 08:24	1
2-Chlorophenol	380	U	380	14	ug/Kg	☼	11/17/19 12:36	11/18/19 08:24	1
2-Methylnaphthalene	380	U	380	11	ug/Kg	☼	11/17/19 12:36	11/18/19 08:24	1
2-Methylphenol	380	U	380	14	ug/Kg	☼	11/17/19 12:36	11/18/19 08:24	1
2-Nitroaniline	380	U	380	14	ug/Kg	☼	11/17/19 12:36	11/18/19 08:24	1
2-Nitrophenol	380	U	380	38	ug/Kg	☼	11/17/19 12:36	11/18/19 08:24	1
3,3'-Dichlorobenzidine	150	U	150	58	ug/Kg	☼	11/17/19 12:36	11/18/19 08:24	1
3-Nitroaniline	380	U	380	43	ug/Kg	☼	11/17/19 12:36	11/18/19 08:24	1
4,6-Dinitro-2-methylphenol	310	U	310	62	ug/Kg	☼	11/17/19 12:36	11/18/19 08:24	1
4-Bromophenyl phenyl ether	380	U	380	15	ug/Kg	☼	11/17/19 12:36	11/18/19 08:24	1
4-Chloro-3-methylphenol	380	U	380	22	ug/Kg	☼	11/17/19 12:36	11/18/19 08:24	1
4-Chloroaniline	380	U	380	27	ug/Kg	☼	11/17/19 12:36	11/18/19 08:24	1
4-Chlorophenyl phenyl ether	380	U	380	14	ug/Kg	☼	11/17/19 12:36	11/18/19 08:24	1
4-Methylphenol	380	U	380	24	ug/Kg	☼	11/17/19 12:36	11/18/19 08:24	1
4-Nitroaniline	380	U	380	44	ug/Kg	☼	11/17/19 12:36	11/18/19 08:24	1
4-Nitrophenol	780	U	780	63	ug/Kg	☼	11/17/19 12:36	11/18/19 08:24	1
Acenaphthene	380	U	380	28	ug/Kg	☼	11/17/19 12:36	11/18/19 08:24	1
Acenaphthylene	380	U	380	4.0	ug/Kg	☼	11/17/19 12:36	11/18/19 08:24	1
Acetophenone	380	U	380	19	ug/Kg	☼	11/17/19 12:36	11/18/19 08:24	1
Anthracene	380	U	380	12	ug/Kg	☼	11/17/19 12:36	11/18/19 08:24	1
Atrazine	150	U	150	9.7	ug/Kg	☼	11/17/19 12:36	11/18/19 08:24	1
Benzaldehyde	380	U	380	17	ug/Kg	☼	11/17/19 12:36	11/18/19 08:24	1
Benzo[a]anthracene	38	U	38	13	ug/Kg	☼	11/17/19 12:36	11/18/19 08:24	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196639-1

Client Sample ID: WSG-C5-COMP-0

Lab Sample ID: 460-196639-45

Date Collected: 11/12/19 10:50

Matrix: Solid

Date Received: 11/15/19 21:07

Percent Solids: 86.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	38	U	38	10	ug/Kg	☼	11/17/19 12:36	11/18/19 08:24	1
Benzo[b]fluoranthene	38	U	38	9.9	ug/Kg	☼	11/17/19 12:36	11/18/19 08:24	1
Benzo[g,h,i]perylene	380	U	380	11	ug/Kg	☼	11/17/19 12:36	11/18/19 08:24	1
Benzo[k]fluoranthene	38	U	38	7.5	ug/Kg	☼	11/17/19 12:36	11/18/19 08:24	1
Bis(2-chloroethoxy)methane	380	U	380	30	ug/Kg	☼	11/17/19 12:36	11/18/19 08:24	1
Bis(2-chloroethyl)ether	38	U	38	13	ug/Kg	☼	11/17/19 12:36	11/18/19 08:24	1
Bis(2-ethylhexyl) phthalate	380	U	380	20	ug/Kg	☼	11/17/19 12:36	11/18/19 08:24	1
Butyl benzyl phthalate	380	U	380	18	ug/Kg	☼	11/17/19 12:36	11/18/19 08:24	1
Caprolactam	380	U	380	60	ug/Kg	☼	11/17/19 12:36	11/18/19 08:24	1
Carbazole	380	U	380	15	ug/Kg	☼	11/17/19 12:36	11/18/19 08:24	1
Chrysene	380	U	380	6.5	ug/Kg	☼	11/17/19 12:36	11/18/19 08:24	1
Dibenz(a,h)anthracene	38	U	38	17	ug/Kg	☼	11/17/19 12:36	11/18/19 08:24	1
Dibenzofuran	380	U	380	5.4	ug/Kg	☼	11/17/19 12:36	11/18/19 08:24	1
Diethyl phthalate	380	U	380	5.6	ug/Kg	☼	11/17/19 12:36	11/18/19 08:24	1
Dimethyl phthalate	380	U	380	87	ug/Kg	☼	11/17/19 12:36	11/18/19 08:24	1
Di-n-butyl phthalate	380	U	380	68	ug/Kg	☼	11/17/19 12:36	11/18/19 08:24	1
Di-n-octyl phthalate	380	U	380	20	ug/Kg	☼	11/17/19 12:36	11/18/19 08:24	1
Fluoranthene	380	U	380	13	ug/Kg	☼	11/17/19 12:36	11/18/19 08:24	1
Fluorene	380	U	380	5.2	ug/Kg	☼	11/17/19 12:36	11/18/19 08:24	1
Hexachlorobenzene	38	U	38	18	ug/Kg	☼	11/17/19 12:36	11/18/19 08:24	1
Hexachlorobutadiene	78	U	78	8.2	ug/Kg	☼	11/17/19 12:36	11/18/19 08:24	1
Hexachlorocyclopentadiene	380	U	380	34	ug/Kg	☼	11/17/19 12:36	11/18/19 08:24	1
Hexachloroethane	38	U	38	13	ug/Kg	☼	11/17/19 12:36	11/18/19 08:24	1
Indeno[1,2,3-cd]pyrene	38	U	38	15	ug/Kg	☼	11/17/19 12:36	11/18/19 08:24	1
Isophorone	150	U	150	110	ug/Kg	☼	11/17/19 12:36	11/18/19 08:24	1
Naphthalene	380	U	380	6.6	ug/Kg	☼	11/17/19 12:36	11/18/19 08:24	1
Nitrobenzene	38	U	38	9.2	ug/Kg	☼	11/17/19 12:36	11/18/19 08:24	1
N-Nitrosodi-n-propylamine	38	U	38	28	ug/Kg	☼	11/17/19 12:36	11/18/19 08:24	1
N-Nitrosodiphenylamine	380	U	380	7.4	ug/Kg	☼	11/17/19 12:36	11/18/19 08:24	1
Pentachlorophenol	310	U	310	79	ug/Kg	☼	11/17/19 12:36	11/18/19 08:24	1
Phenanthrene	380	U	380	6.8	ug/Kg	☼	11/17/19 12:36	11/18/19 08:24	1
Phenol	380	U	380	14	ug/Kg	☼	11/17/19 12:36	11/18/19 08:24	1
Pyrene	380	U	380	9.6	ug/Kg	☼	11/17/19 12:36	11/18/19 08:24	1
1,4-Dioxane	120	U	120	11	ug/Kg	☼	11/17/19 12:36	11/18/19 08:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	58		10 - 137	11/17/19 12:36	11/18/19 08:24	1
2-Fluorophenol (Surr)	60		20 - 115	11/17/19 12:36	11/18/19 08:24	1
Nitrobenzene-d5 (Surr)	61		25 - 113	11/17/19 12:36	11/18/19 08:24	1
Terphenyl-d14 (Surr)	71		27 - 123	11/17/19 12:36	11/18/19 08:24	1
Phenol-d5 (Surr)	56		28 - 109	11/17/19 12:36	11/18/19 08:24	1
2-Fluorobiphenyl	57		29 - 107	11/17/19 12:36	11/18/19 08:24	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	4.7	J	7.8	1.3	ug/Kg	☼	11/17/19 08:26	11/19/19 13:57	1
4,4'-DDE	32		7.8	0.92	ug/Kg	☼	11/17/19 08:26	11/19/19 13:57	1
4,4'-DDT	44		7.8	1.4	ug/Kg	☼	11/17/19 08:26	11/19/19 13:57	1
Aldrin	7.8	U	7.8	1.2	ug/Kg	☼	11/17/19 08:26	11/19/19 13:57	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196639-1

Client Sample ID: WSG-C5-COMP-0

Lab Sample ID: 460-196639-45

Date Collected: 11/12/19 10:50

Matrix: Solid

Date Received: 11/15/19 21:07

Percent Solids: 86.1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-BHC	2.3	U	2.3	0.79	ug/Kg	☼	11/17/19 08:26	11/19/19 13:57	1
beta-BHC	2.3	U	2.3	0.87	ug/Kg	☼	11/17/19 08:26	11/19/19 13:57	1
Chlordane (technical)	78	U	78	19	ug/Kg	☼	11/17/19 08:26	11/19/19 13:57	1
delta-BHC	2.3	U	2.3	0.48	ug/Kg	☼	11/17/19 08:26	11/19/19 13:57	1
Dieldrin	5.4		2.3	1.0	ug/Kg	☼	11/17/19 08:26	11/19/19 13:57	1
Endosulfan I	7.8	U	7.8	1.2	ug/Kg	☼	11/17/19 08:26	11/19/19 13:57	1
Endosulfan II	7.8	U	7.8	2.0	ug/Kg	☼	11/17/19 08:26	11/19/19 13:57	1
Endosulfan sulfate	7.8	U	7.8	0.98	ug/Kg	☼	11/17/19 08:26	11/19/19 13:57	1
Endrin	7.8	U	7.8	1.1	ug/Kg	☼	11/17/19 08:26	11/19/19 13:57	1
Endrin aldehyde	7.8	U	7.8	1.8	ug/Kg	☼	11/17/19 08:26	11/19/19 13:57	1
Endrin ketone	7.8	U	7.8	1.5	ug/Kg	☼	11/17/19 08:26	11/19/19 13:57	1
gamma-BHC (Lindane)	2.3	U	2.3	0.72	ug/Kg	☼	11/17/19 08:26	11/19/19 13:57	1
Heptachlor	7.8	U	7.8	0.92	ug/Kg	☼	11/17/19 08:26	11/19/19 13:57	1
Heptachlor epoxide	7.8	U	7.8	1.2	ug/Kg	☼	11/17/19 08:26	11/19/19 13:57	1
Methoxychlor	7.8	U	7.8	1.8	ug/Kg	☼	11/17/19 08:26	11/19/19 13:57	1
Toxaphene	78	U	78	28	ug/Kg	☼	11/17/19 08:26	11/19/19 13:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>DCB Decachlorobiphenyl</i>	82		49 - 150	11/17/19 08:26	11/19/19 13:57	1
<i>DCB Decachlorobiphenyl</i>	90		49 - 150	11/17/19 08:26	11/19/19 13:57	1
<i>Tetrachloro-m-xylene</i>	88		47 - 150	11/17/19 08:26	11/19/19 13:57	1
<i>Tetrachloro-m-xylene</i>	85		47 - 150	11/17/19 08:26	11/19/19 13:57	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	78	U	78	10	ug/Kg	☼	11/17/19 08:18	11/18/19 17:07	1
Aroclor 1221	78	U	78	10	ug/Kg	☼	11/17/19 08:18	11/18/19 17:07	1
Aroclor 1232	78	U	78	10	ug/Kg	☼	11/17/19 08:18	11/18/19 17:07	1
Aroclor 1242	78	U	78	10	ug/Kg	☼	11/17/19 08:18	11/18/19 17:07	1
Aroclor 1248	78	U	78	10	ug/Kg	☼	11/17/19 08:18	11/18/19 17:07	1
Aroclor 1254	78	U	78	11	ug/Kg	☼	11/17/19 08:18	11/18/19 17:07	1
Aroclor 1260	78	U	78	11	ug/Kg	☼	11/17/19 08:18	11/18/19 17:07	1
Aroclor-1262	78	U	78	11	ug/Kg	☼	11/17/19 08:18	11/18/19 17:07	1
Aroclor 1268	78	U	78	11	ug/Kg	☼	11/17/19 08:18	11/18/19 17:07	1
Polychlorinated biphenyls, Total	78	U	78	11	ug/Kg	☼	11/17/19 08:18	11/18/19 17:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>DCB Decachlorobiphenyl</i>	120		53 - 150	11/17/19 08:18	11/18/19 17:07	1
<i>DCB Decachlorobiphenyl</i>	132		53 - 150	11/17/19 08:18	11/18/19 17:07	1

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	39	U	39	14	ug/Kg	☼	11/20/19 02:56	11/20/19 18:56	1
Silvex (2,4,5-TP)	39	U	39	4.0	ug/Kg	☼	11/20/19 02:56	11/20/19 18:56	1
2,4,5-T	39	U	39	8.2	ug/Kg	☼	11/20/19 02:56	11/20/19 18:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>2,4-Dichlorophenylacetic acid</i>	125		30 - 150	11/20/19 02:56	11/20/19 18:56	1
<i>2,4-Dichlorophenylacetic acid</i>	129		30 - 150	11/20/19 02:56	11/20/19 18:56	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196639-1

Client Sample ID: WSG-C5-COMP-0

Lab Sample ID: 460-196639-45

Date Collected: 11/12/19 10:50

Matrix: Solid

Date Received: 11/15/19 21:07

Percent Solids: 86.1

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	8220		33.5	16.4	mg/Kg	☼	11/26/19 04:35	11/26/19 19:23	4
Silver	2.2	U	2.2	0.21	mg/Kg	☼	11/26/19 04:35	11/26/19 19:23	4
Aluminum	6650		44.7	12.6	mg/Kg	☼	11/26/19 04:35	11/26/19 19:23	4
Arsenic	9.3		3.4	1.3	mg/Kg	☼	11/26/19 04:35	11/26/19 19:23	4
Boron	5.5	J	11.2	3.1	mg/Kg	☼	11/26/19 04:35	11/26/19 19:23	4
Barium	16.5	J	44.7	2.5	mg/Kg	☼	11/26/19 04:35	11/26/19 19:23	4
Beryllium	0.32	J	0.45	0.099	mg/Kg	☼	11/26/19 04:35	11/26/19 19:23	4
Calcium	547	J	1120	65.8	mg/Kg	☼	11/26/19 04:35	11/26/19 19:23	4
Cadmium	0.89	U	0.89	0.15	mg/Kg	☼	11/26/19 04:35	11/26/19 19:23	4
Cobalt	2.3	J	11.2	1.4	mg/Kg	☼	11/26/19 04:35	11/26/19 19:23	4
Chromium	8.3		2.2	0.40	mg/Kg	☼	11/26/19 04:35	11/26/19 19:23	4
Copper	19.9		5.6	3.0	mg/Kg	☼	11/26/19 04:35	11/26/19 19:23	4
Potassium	411	J	1120	69.5	mg/Kg	☼	11/26/19 04:35	11/26/19 19:23	4
Magnesium	1100	J	1120	65.1	mg/Kg	☼	11/26/19 04:35	11/26/19 19:23	4
Manganese	91.6		3.4	0.39	mg/Kg	☼	11/26/19 04:35	11/26/19 19:23	4
Molybdenum	4.5	U	4.5	1.1	mg/Kg	☼	11/26/19 04:35	11/26/19 19:23	4
Sodium	1120	U	1120	89.8	mg/Kg	☼	11/26/19 04:35	11/26/19 19:23	4
Nickel	5.0	J	8.9	0.82	mg/Kg	☼	11/26/19 04:35	11/26/19 19:23	4
Lead	9.1		2.2	0.58	mg/Kg	☼	11/26/19 04:35	11/26/19 19:23	4
Antimony	4.5	U	4.5	1.2	mg/Kg	☼	11/26/19 04:35	11/26/19 19:23	4
Selenium	4.5	U	4.5	2.7	mg/Kg	☼	11/26/19 04:35	11/26/19 19:23	4
Tin	11.2	U	11.2	7.2	mg/Kg	☼	11/26/19 04:35	11/26/19 19:23	4
Strontium	3.1	J	4.5	0.45	mg/Kg	☼	11/26/19 04:35	11/26/19 19:23	4
Titanium	331		4.5	0.67	mg/Kg	☼	11/26/19 04:35	11/26/19 19:23	4
Thallium	4.5	U	4.5	0.71	mg/Kg	☼	11/26/19 04:35	11/26/19 19:23	4
Vanadium	13.0		11.2	0.74	mg/Kg	☼	11/26/19 04:35	11/26/19 19:23	4
Zinc	15.2		6.7	5.2	mg/Kg	☼	11/26/19 04:35	11/26/19 19:23	4

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.028		0.017	0.010	mg/Kg	☼	11/25/19 04:23	11/25/19 09:02	1

Client Sample ID: WSG-GS1-0.5-2.0-0

Lab Sample ID: 460-196639-46

Date Collected: 11/11/19 13:50

Matrix: Solid

Date Received: 11/15/19 21:07

Percent Solids: 91.7

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.1	U	1.1	0.25	ug/Kg	☼	11/24/19 21:27	11/25/19 08:41	1
1,1,2,2-Tetrachloroethane	1.1	U	1.1	0.23	ug/Kg	☼	11/24/19 21:27	11/25/19 08:41	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.1	U	1.1	0.32	ug/Kg	☼	11/24/19 21:27	11/25/19 08:41	1
1,1,2-Trichloroethane	1.1	U	1.1	0.19	ug/Kg	☼	11/24/19 21:27	11/25/19 08:41	1
1,1-Dichloroethane	1.1	U	1.1	0.22	ug/Kg	☼	11/24/19 21:27	11/25/19 08:41	1
1,1-Dichloroethene	1.1	U	1.1	0.24	ug/Kg	☼	11/24/19 21:27	11/25/19 08:41	1
1,2,4-Trichlorobenzene	1.1	U	1.1	0.39	ug/Kg	☼	11/24/19 21:27	11/25/19 08:41	1
1,2-Dibromo-3-Chloropropane	1.1	U	1.1	0.50	ug/Kg	☼	11/24/19 21:27	11/25/19 08:41	1
1,2-Dichlorobenzene	1.1	U	1.1	0.16	ug/Kg	☼	11/24/19 21:27	11/25/19 08:41	1
1,2-Dichloroethane	1.1	U	1.1	0.32	ug/Kg	☼	11/24/19 21:27	11/25/19 08:41	1
1,2-Dichloropropane	1.1	U	1.1	0.46	ug/Kg	☼	11/24/19 21:27	11/25/19 08:41	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196639-1

Client Sample ID: WSG-GS1-0.5-2.0-0

Lab Sample ID: 460-196639-46

Date Collected: 11/11/19 13:50

Matrix: Solid

Date Received: 11/15/19 21:07

Percent Solids: 91.7

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	1.1	U	1.1	0.17	ug/Kg	☼	11/24/19 21:27	11/25/19 08:41	1
1,4-Dichlorobenzene	1.1	U	1.1	0.24	ug/Kg	☼	11/24/19 21:27	11/25/19 08:41	1
2-Butanone (MEK)	5.4	U	5.4	2.9	ug/Kg	☼	11/24/19 21:27	11/25/19 08:41	1
2-Hexanone	5.4	U	5.4	1.8	ug/Kg	☼	11/24/19 21:27	11/25/19 08:41	1
4-Methyl-2-pentanone (MIBK)	5.4	U	5.4	1.7	ug/Kg	☼	11/24/19 21:27	11/25/19 08:41	1
Acetone	6.5	U	6.5	6.2	ug/Kg	☼	11/24/19 21:27	11/25/19 08:41	1
Benzene	1.1	U	1.1	0.28	ug/Kg	☼	11/24/19 21:27	11/25/19 08:41	1
Bromoform	1.1	U	1.1	0.46	ug/Kg	☼	11/24/19 21:27	11/25/19 08:41	1
Bromomethane	1.1	U	1.1	0.51	ug/Kg	☼	11/24/19 21:27	11/25/19 08:41	1
Carbon disulfide	1.1	U	1.1	0.29	ug/Kg	☼	11/24/19 21:27	11/25/19 08:41	1
Carbon tetrachloride	1.1	U	1.1	0.42	ug/Kg	☼	11/24/19 21:27	11/25/19 08:41	1
Chlorobenzene	1.1	U	1.1	0.19	ug/Kg	☼	11/24/19 21:27	11/25/19 08:41	1
Chlorodibromomethane	1.1	U	1.1	0.21	ug/Kg	☼	11/24/19 21:27	11/25/19 08:41	1
Chloroethane	1.1	U	1.1	0.56	ug/Kg	☼	11/24/19 21:27	11/25/19 08:41	1
Chloroform	1.1	U	1.1	0.34	ug/Kg	☼	11/24/19 21:27	11/25/19 08:41	1
Chloromethane	1.1	U	1.1	0.47	ug/Kg	☼	11/24/19 21:27	11/25/19 08:41	1
cis-1,2-Dichloroethene	1.1	U	1.1	0.16	ug/Kg	☼	11/24/19 21:27	11/25/19 08:41	1
cis-1,3-Dichloropropene	1.1	U	1.1	0.29	ug/Kg	☼	11/24/19 21:27	11/25/19 08:41	1
Cyclohexane	1.1	U	1.1	0.24	ug/Kg	☼	11/24/19 21:27	11/25/19 08:41	1
Dichlorobromomethane	1.1	U	1.1	0.28	ug/Kg	☼	11/24/19 21:27	11/25/19 08:41	1
Dichlorodifluoromethane	1.1	U	1.1	0.36	ug/Kg	☼	11/24/19 21:27	11/25/19 08:41	1
Ethylbenzene	1.1	U	1.1	0.21	ug/Kg	☼	11/24/19 21:27	11/25/19 08:41	1
Ethylene Dibromide	1.1	U	1.1	0.19	ug/Kg	☼	11/24/19 21:27	11/25/19 08:41	1
Isopropylbenzene	1.1	U	1.1	0.14	ug/Kg	☼	11/24/19 21:27	11/25/19 08:41	1
Methyl acetate	5.4	U *	5.4	4.6	ug/Kg	☼	11/24/19 21:27	11/25/19 08:41	1
Methyl tert-butyl ether	1.1	U	1.1	0.13	ug/Kg	☼	11/24/19 21:27	11/25/19 08:41	1
Methylcyclohexane	1.1	U	1.1	0.54	ug/Kg	☼	11/24/19 21:27	11/25/19 08:41	1
Methylene Chloride	1.3		1.1	0.50	ug/Kg	☼	11/24/19 21:27	11/25/19 08:41	1
Styrene	1.1	U	1.1	0.30	ug/Kg	☼	11/24/19 21:27	11/25/19 08:41	1
Tetrachloroethene	1.1	U	1.1	0.15	ug/Kg	☼	11/24/19 21:27	11/25/19 08:41	1
Toluene	1.1	U	1.1	0.25	ug/Kg	☼	11/24/19 21:27	11/25/19 08:41	1
trans-1,2-Dichloroethene	1.1	U	1.1	0.27	ug/Kg	☼	11/24/19 21:27	11/25/19 08:41	1
trans-1,3-Dichloropropene	1.1	U	1.1	0.29	ug/Kg	☼	11/24/19 21:27	11/25/19 08:41	1
Trichloroethene	1.1	U	1.1	0.16	ug/Kg	☼	11/24/19 21:27	11/25/19 08:41	1
Trichlorofluoromethane	1.1	U	1.1	0.44	ug/Kg	☼	11/24/19 21:27	11/25/19 08:41	1
Vinyl chloride	1.1	U	1.1	0.59	ug/Kg	☼	11/24/19 21:27	11/25/19 08:41	1
Xylenes, Total	2.2	U	2.2	0.19	ug/Kg	☼	11/24/19 21:27	11/25/19 08:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		78 - 135	11/24/19 21:27	11/25/19 08:41	1
4-Bromofluorobenzene	99		67 - 126	11/24/19 21:27	11/25/19 08:41	1
Dibromofluoromethane (Surr)	99		61 - 149	11/24/19 21:27	11/25/19 08:41	1
Toluene-d8 (Surr)	98		73 - 121	11/24/19 21:27	11/25/19 08:41	1

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	0.20	U	0.20	0.043	ug/Kg	☼	11/21/19 08:43	11/30/19 04:06	1
Perfluoroheptanoic acid (PFHpA)	0.20	U	0.20	0.030	ug/Kg	☼	11/21/19 08:43	11/30/19 04:06	1
Perfluorooctanoic acid (PFOA)	0.20	U	0.20	0.088	ug/Kg	☼	11/21/19 08:43	11/30/19 04:06	1

Eurofins TestAmerica, Edison

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196639-1

Client Sample ID: WSG-GS1-0.5-2.0-0

Lab Sample ID: 460-196639-46

Date Collected: 11/11/19 13:50

Matrix: Solid

Date Received: 11/15/19 21:07

Percent Solids: 91.7

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorononanoic acid (PFNA)	0.047	J	0.20	0.037	ug/Kg	☼	11/21/19 08:43	11/30/19 04:06	1
Perfluorodecanoic acid (PFDA)	0.040	J	0.20	0.023	ug/Kg	☼	11/21/19 08:43	11/30/19 04:06	1
Perfluoroundecanoic acid (PFUnA)	0.049	J Z	0.20	0.037	ug/Kg	☼	11/21/19 08:43	11/30/19 04:06	1
Perfluorododecanoic acid (PFDoA)	0.20	U	0.20	0.069	ug/Kg	☼	11/21/19 08:43	11/30/19 04:06	1
Perfluorotridecanoic acid (PFTriA)	0.20	U	0.20	0.052	ug/Kg	☼	11/21/19 08:43	11/30/19 04:06	1
Perfluorotetradecanoic acid (PFTeA)	0.20	U	0.20	0.055	ug/Kg	☼	11/21/19 08:43	11/30/19 04:06	1
Perfluorobutanesulfonic acid (PFBS)	0.20	U	0.20	0.026	ug/Kg	☼	11/21/19 08:43	11/30/19 04:06	1
Perfluorohexanesulfonic acid (PFHxS)	0.20	U	0.20	0.032	ug/Kg	☼	11/21/19 08:43	11/30/19 04:06	1
Perfluorooctanesulfonic acid (PFOS)	0.45	J B	0.51	0.20	ug/Kg	☼	11/21/19 08:43	11/30/19 04:06	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.05	U	2.05	0.38	ug/Kg	☼	11/21/19 08:43	11/30/19 04:06	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.05	U	2.05	0.40	ug/Kg	☼	11/21/19 08:43	11/30/19 04:06	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C2 PFHxA	101		25 - 150				11/21/19 08:43	11/30/19 04:06	1
13C4 PFHpA	116		25 - 150				11/21/19 08:43	11/30/19 04:06	1
13C4 PFOA	118		25 - 150				11/21/19 08:43	11/30/19 04:06	1
13C5 PFNA	119		25 - 150				11/21/19 08:43	11/30/19 04:06	1
13C2 PFDA	112		25 - 150				11/21/19 08:43	11/30/19 04:06	1
13C2 PFUnA	116		25 - 150				11/21/19 08:43	11/30/19 04:06	1
13C2 PFDoA	108		25 - 150				11/21/19 08:43	11/30/19 04:06	1
13C2 PFTeDA	115		25 - 150				11/21/19 08:43	11/30/19 04:06	1
18O2 PFHxS	122		25 - 150				11/21/19 08:43	11/30/19 04:06	1
13C4 PFOS	114		25 - 150				11/21/19 08:43	11/30/19 04:06	1
d3-NMeFOSAA	94		25 - 150				11/21/19 08:43	11/30/19 04:06	1
d5-NEtFOSAA	96		25 - 150				11/21/19 08:43	11/30/19 04:06	1

ANALYTICAL REPORT

Job Number: 460-196770-1

Job Description: DEC - WAINSCOTT SAND & GRAVEL SITE:15225

For:
New York State D.E.C.
625 Broadway
Division of Environmental Remediation
Albany, NY 12233-7014
Attention: Mr. Jared Donaldson



Approved for release.
Julie L Gilmore
Project Manager I
12/2/2019 4:24 PM

Julie L Gilmore, Project Manager I
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12/02/2019

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Eurofins TestAmerica, Edison

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CASE NARRATIVE

Client: New York State D.E.C.

Project: DEC - WAINSCOTT SAND & GRAVEL SITE:15225

Report Number: 460-196770-1

This case narrative is in the form of an exception report, where only the anomalies related to this report, method specific performance and/or QA/QC issues are discussed. If there are no issues to report, this narrative will include a statement that documents that there are no relevant data issues.

It should be noted that samples with elevated Reporting Limits (RLs) as a result of a dilution may not be able to satisfy customer reporting limits in some cases. Such increases in the RLs are unavoidable but acceptable consequence of sample dilution that enables quantification of target analytes or interferences which exceed the calibration range of the instrument.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 11/14/2019; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 2.4 C.

Note: All samples which require thermal preservation are considered acceptable if the arrival temperature is within 2C of the required temperature or method specified range. For samples with a specified temperature of 4C, samples with a temperature ranging from just above freezing temperature of water to 6C shall be acceptable. Samples that are hand delivered immediately following collection may not meet these criteria, however they will be deemed acceptable according to NELAC standards, if there is evidence that the chilling process has begun, such as arrival on ice, etc.

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples WSG-C1-COMP-O (460-196770-1), WSG-C2-COMP-O (460-196770-2), WSG-C3-COMP-O (460-196770-5) and WSG-C4-COMP-O (460-196770-6) were analyzed for Volatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8260C. The samples were prepared on 11/19/2019 and analyzed on 11/21/2019.

The continuing calibration verification (CCV) associated with batch 460-656744 recovered above the upper control limit for Methyl acetate. The samples associated with this CCV were non-detects for the affected analyte; therefore, the data have been reported.

The continuing calibration verification (CCV) analyzed in batch 460-657037 was outside the method criteria for the following analyte: Methyl acetate. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte is considered estimated.

The laboratory control sample (LCS) and laboratory control sample duplicate (LCS D) for analytical batch 460-657037 recovered outside control limits for the following analyte: Methyl acetate. This analyte was not detected in the associated samples; therefore, the data have been reported.

Toluene and Xylenes, Total were detected in method blank LB3 460-656429/2-A at levels exceeding the reporting limit. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Ethylbenzene was detected in method blank LB3 460-656429/2-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

No other difficulties were encountered during the volatiles analysis.

All other quality control parameters were within the acceptance limits.

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples WSG-GW9-6.0 (460-196770-3), WSG-GW8-19.0 (460-196770-10), WSG-TB-20191114 (460-196770-12), WSG-GW1-9.0 (460-196770-15) and WSG-GW1-9.1 (460-196770-16) were analyzed for Volatile organic compounds (GC-MS) in accordance with EPA SW-846 Methods 8260C. The samples were analyzed on 11/22/2019.

No difficulties were encountered during the volatiles analysis.

All quality control parameters were within the acceptance limits.

SEMIVOLATILE ORGANIC COMPOUNDS (GC/MS)

Samples WSG-GW9-6.0 (460-196770-3), WSG-GW8-19.0 (460-196770-10), WSG-GW1-9.0 (460-196770-15) and WSG-GW1-9.1 (460-196770-16) were analyzed for semivolatile organic compounds (GC/MS) in accordance with EPA SW-846 Method 8270D. The samples were prepared on 11/19/2019 and analyzed on 11/20/2019.

The continuing calibration verification (CCV) analyzed in batch 460-657005 was outside the method criteria for the following analyte(s): Hexachlorocyclopentadiene and Pentachlorophenol. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

The continuing calibration verification (CCV) analyzed in batch 460-656973 was outside the method criteria for the following analyte(s): Hexachlorocyclopentadiene. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

The laboratory control sample duplicate (LCSD) for preparation batch 460-656813 and analytical batch 460-656973 recovered outside control limits for the following analytes: 3,3'-Dichlorobenzidine. This analyte was biased high in the LCSD and was not detected in the associated samples; therefore, the data have been reported.

The continuing calibration verification (CCV) analyzed in batch 460-656640 was outside the method criteria for the following analyte(s): 2-Nitroaniline, 2,2'-oxybis[1-chloropropane], 2,4-Dinitrophenol, 4-Nitrophenol, Indeno[1,2,3-cd]pyrene, Benzo[g,h,i]perylene, 4-Nitroaniline and Dibenz(a,h)anthracene. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 460-656542 and analytical batch 460-656640 recovered outside control limits for the following analytes: Atrazine.

Atrazine exceeded the RPD limit for LCSD 460-656542/5-A. Refer to the QC report for details.

Methyl acetate failed the recovery criteria low for LCS 460-657037/3. Methyl acetate failed the recovery criteria low for LCSD 460-657037/4. Refer to the QC report for details.

No other difficulties were encountered during the semivolatiles analysis.

All other quality control parameters were within the acceptance limits.

SEMIVOLATILE ORGANIC COMPOUNDS - SELECTED ION MODE (SIM)

Samples WSG-GW9-6.0 (460-196770-3), WSG-GW8-19.0 (460-196770-10), WSG-GW1-9.0 (460-196770-15) and WSG-GW1-9.1 (460-196770-16) were analyzed for semivolatile organic compounds - Selected Ion Mode (SIM) in accordance with EPA SW-846 Method 8270D SIM. The samples were prepared on 11/19/2019 and analyzed on 11/20/2019.

Surrogate recovery for the following samples were outside the upper control limit: WSG-GW9-6.0 (460-196770-3), WSG-GW8-19.0 (460-196770-10), WSG-GW1-9.0 (460-196770-15) and WSG-GW1-9.1 (460-196770-16). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

Nitrobenzene-d5 failed the surrogate recovery criteria high for WSG-GW8-19.0 (460-196770-10). Nitrobenzene-d5 failed the surrogate recovery criteria high for WSG-GW1-9.0 (460-196770-15). Nitrobenzene-d5 failed the surrogate recovery criteria high for WSG-GW1-9.1 (460-196770-16).

Nitrobenzene-d5 failed the surrogate recovery criteria high for WSG-GW9-6.0 (460-196770-3). Refer to the QC report for details.

No other difficulties were encountered during the SVOC SIM analysis.

All other quality control parameters were within the acceptance limits.

ORGANOCHLORINE PESTICIDES AND POLYCHLORINATED BIPHENYLS BY GAS CHROMATOGRAPHY

Samples WSG-GW9-6.0 (460-196770-3), WSG-GW8-19.0 (460-196770-10), WSG-GW1-9.0 (460-196770-15) and WSG-GW1-9.1 (460-196770-16) were analyzed for Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography in accordance with 608.3. The samples were prepared on 11/19/2019 and analyzed on 11/21/2019.

The laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 460-656632 and analytical batch 460-657068 recovered outside control limits for the following analytes: Endrin Ketone. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

The laboratory control sample (LCS) for preparation batch 460-656632 and analytical batch 460-657068 recovered outside control limits for the following analytes: Endrin. These analytes were biased high in the LCS and were not detected in the associated samples;

therefore, the data have been reported.

The laboratory control sample duplicate (LCSD) for preparation batch 460-656632 and analytical batch 460-657068 recovered outside control limits for the following analytes: many analytes. These analytes were biased high in the LCSD and were not detected in the associated samples; therefore, the data have been reported.

4,4'-DDE, Dieldrin and Endrin failed the recovery criteria high for LCSD 460-656632/3-A. Refer to the QC report for details.

No other difficulties were encountered during the Pesticides/PCBs analysis.

All other quality control parameters were within the acceptance limits.

PESTICIDES

Samples WSG-C1-COMP-O (460-196770-1), WSG-C2-COMP-O (460-196770-2), WSG-C3-COMP-O (460-196770-5) and WSG-C4-COMP-O (460-196770-6) were analyzed for Pesticides in accordance with EPA SW-846 Methods 8081B. The samples were prepared on 11/19/2019 and analyzed on 11/20/2019.

No difficulties were encountered during the Pesticides analysis.

All quality control parameters were within the acceptance limits.

POLYCHLORINATED BIPHENYLS

Samples WSG-C1-COMP-O (460-196770-1), WSG-C2-COMP-O (460-196770-2), WSG-C3-COMP-O (460-196770-5) and WSG-C4-COMP-O (460-196770-6) were analyzed for polychlorinated biphenyls in accordance with EPA SW-846 Method 8082A. The samples were prepared on 11/19/2019 and analyzed on 11/20/2019.

No difficulties were encountered during the PCBs analysis.

All quality control parameters were within the acceptance limits.

CHLORINATED HERBICIDES

Samples WSG-C1-COMP-O (460-196770-1), WSG-C2-COMP-O (460-196770-2), WSG-C3-COMP-O (460-196770-5) and WSG-C4-COMP-O (460-196770-6) were analyzed for chlorinated herbicides in accordance with EPA SW-846 Method 8151A. The samples were prepared and analyzed on 11/20/2019.

No difficulties were encountered during the herbicides analysis.

All quality control parameters were within the acceptance limits.

CHLORINATED HERBICIDES

Samples WSG-GW9-6.0 (460-196770-3), WSG-GW8-19.0 (460-196770-10), WSG-GW1-9.0 (460-196770-15) and WSG-GW1-9.1 (460-196770-16) were analyzed for chlorinated herbicides in accordance with EPA SW-846 Method 8151A. The samples were prepared on 11/19/2019 and analyzed on 11/20/2019 and 11/21/2019.

No difficulties were encountered during the herbicides analysis.

All quality control parameters were within the acceptance limits.

SEMIVOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples WSG-C1-COMP-O (460-196770-1), WSG-C2-COMP-O (460-196770-2), WSG-C3-COMP-O (460-196770-5) and WSG-C4-COMP-O (460-196770-6) were analyzed for semivolatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8270D. The samples were prepared on 11/20/2019 and analyzed on 11/21/2019.

3,3'-Dichlorobenzidine failed the recovery criteria high for LCSD 460-656813/3-A. Refer to the QC report for details.

No other difficulties were encountered during the semivolatiles analysis.

All other quality control parameters were within the acceptance limits.

PERFLUORINATED HYDROCARBONS (PFC)

Samples WSG-C1-COMP-O (460-196770-1), WSG-C2-COMP-O (460-196770-2), WSG-C3-COMP-O (460-196770-5), WSG-C4-COMP-O (460-196770-6), WSG-GS8-16.5-18.5-0 (460-196770-7) and WSG-GS1-6.8-0 (460-196770-11) were analyzed for Perfluorinated Hydrocarbons (PFC) in accordance with PFC. The samples were prepared on 11/22/2019 and analyzed on 11/29/2019.

Perfluorooctanesulfonic acid (PFOS) was detected in method blank MB 320-340717/1-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

No other difficulties were encountered during the Perfluorinated Hydrocarbons (PFC) analysis.

All other quality control parameters were within the acceptance limits.

PERFLUORINATED HYDROCARBONS (PFC)

Samples WSG-GW9-6.0 (460-196770-3), WSG-EB-SAMPLER-20191112 (460-196770-4), WSG-GW8-39.0 (460-196770-8), WSG-GW8-29.0 (460-196770-9), WSG-GW8-19.0 (460-196770-10), WSG-GW1-29.0 (460-196770-13), WSG-GW1-19.0 (460-196770-14), WSG-GW1-9.0 (460-196770-15) and WSG-GW1-9.1 (460-196770-16) were analyzed for Perfluorinated Hydrocarbons (PFC) in accordance with PFC. The samples were prepared on 11/20/2019 and analyzed on 11/22/2019.

Perfluorohexanesulfonic acid (PFHxS) was detected in method blank MB 320-340072/1-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

No other difficulties were encountered during the Perfluorinated Hydrocarbons (PFC) analysis.

All other quality control parameters were within the acceptance limits.

TOTAL METALS (ICP)

Samples WSG-C1-COMP-O (460-196770-1), WSG-C2-COMP-O (460-196770-2), WSG-C3-COMP-O (460-196770-5) and WSG-C4-COMP-O (460-196770-6) were analyzed for Total Metals (ICP) in accordance with EPA SW-846 Methods 6010D. The samples were prepared on 11/25/2019 and analyzed on 11/26/2019.

Several analytes failed the recovery criteria low for the MS of sample 460-196680-3 in batch 460-658452. Calcium failed the recovery criteria high.

Refer to the QC report for details.

Several analytes exceeded the RPD limit for the duplicate of sample 460-196680-3. Refer to the QC report for details.

Samples WSG-C1-COMP-O (460-196770-1)[4X], WSG-C2-COMP-O (460-196770-2)[4X], WSG-C3-COMP-O (460-196770-5)[4X] and WSG-C4-COMP-O (460-196770-6)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the Total Metals (ICP) analysis.

All other quality control parameters were within the acceptance limits.

METALS

Samples WSG-GW9-6.0 (460-196770-3), WSG-GW8-19.0 (460-196770-10), WSG-GW1-9.0 (460-196770-15) and WSG-GW1-9.1 (460-196770-16) were analyzed for Metals in accordance with 6010D. The samples were prepared on 11/22/2019 and analyzed on 11/23/2019.

Sodium failed the recovery criteria high for the MS of sample 460-197113-5 in batch 460-657750.

The presence of the '4' qualifier in the data indicates analytes where the concentration in the unspiked sample exceeded four times the spiking amount.

Refer to the QC report for details.

For the duplicate of sample 460-197113-5. Refer to the QC report for details.

No other difficulties were encountered during the Metals analysis.

All other quality control parameters were within the acceptance limits.

TOTAL MERCURY

Samples WSG-GW9-6.0 (460-196770-3), WSG-GW8-19.0 (460-196770-10), WSG-GW1-9.0 (460-196770-15) and WSG-GW1-9.1 (460-196770-16) were analyzed for total mercury in accordance with EPA SW-846 Methods 7470A. The samples were prepared and analyzed on 11/26/2019.

No difficulties were encountered during the Hg analysis.

All quality control parameters were within the acceptance limits.

TOTAL MERCURY

Samples WSG-C1-COMP-O (460-196770-1), WSG-C2-COMP-O (460-196770-2), WSG-C3-COMP-O (460-196770-5) and WSG-C4-COMP-O (460-196770-6) were analyzed for total mercury in accordance with EPA SW-846 Method 7471B. The samples were prepared and analyzed on 11/25/2019.

Mercury failed the recovery criteria high for the MS of sample 460-197271-2 in batch 460-658085.

Refer to the QC report for details.

No other difficulties were encountered during the Hg analysis.

All other quality control parameters were within the acceptance limits.

ORGANIC PREP

Method 3535: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 320-340072.

The following sample is light orange in color and contain a thin layer of sediments at the bottom prior to extraction:
WSG-GW9-6.0 (460-196770-3)

The following samples contain a thin layer of sediments at the bottom prior to extraction:
WSG-GW1-9.0 (460-196770-15) and WSG-GW1-9.1 (460-196770-16)

During the solid phase extraction process, the following samples have non-settable particulates which clogged the extraction column:
WSG-GW9-6.0 (460-196770-3), WSG-GW1-9.0 (460-196770-15) and WSG-GW1-9.1 (460-196770-16).

PERCENT SOLIDS/PERCENT MOISTURE

Samples WSG-C1-COMP-O (460-196770-1), WSG-C2-COMP-O (460-196770-2), WSG-C3-COMP-O (460-196770-5), WSG-C4-COMP-O (460-196770-6), WSG-GS8-16.5-18.5-0 (460-196770-7) and WSG-GS1-6.8-0 (460-196770-11) were analyzed for percent solids/percent moisture in accordance with EPA Method CLPISM01.2 (Exhibit D) Modified. The samples were analyzed on 11/19/2019 and 11/22/2019.

The sample duplicate (DUP) precision for analytical batch 320-339960 was outside control limits. Sample matrix interference and/or non-homogeneity are suspected. The relative percent difference (RPD) for solids is within acceptable limits. Data is being reported with this narration.

Percent Moisture exceeded the RPD limit for the duplicate of sample 320-56346-5. Refer to the QC report for details.

No other difficulties were encountered during the %solids/moisture analysis.

All other quality control parameters were within the acceptance limits.

Sample Summary

Client: New York State D.E.C.

Job ID: 460-196770-1

Project/Site: DEC - WAINSCOTT SAND & GRAVEL

SITE:15225

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
460-196770-1	WSG-C1-COMP-O	Solid	11/12/19 13:15	11/14/19 19:00	
460-196770-2	WSG-C2-COMP-O	Solid	11/12/19 13:05	11/14/19 19:00	
460-196770-3	WSG-GW9-6.0	Water	11/12/19 12:35	11/14/19 19:00	
460-196770-4	WSG-EB-SAMPLER-20191112	Water	11/12/19 13:30	11/14/19 19:00	
460-196770-5	WSG-C3-COMP-O	Solid	11/12/19 13:00	11/14/19 19:00	
460-196770-6	WSG-C4-COMP-O	Solid	11/12/19 12:45	11/14/19 19:00	
460-196770-7	WSG-GS8-16.5-18.5-0	Solid	11/13/19 07:30	11/14/19 19:00	
460-196770-8	WSG-GW8-39.0	Water	11/13/19 10:30	11/14/19 19:00	
460-196770-9	WSG-GW8-29.0	Water	11/13/19 11:40	11/14/19 19:00	
460-196770-10	WSG-GW8-19.0	Water	11/13/19 12:15	11/14/19 19:00	
460-196770-11	WSG-GS1-6.8-0	Solid	11/14/19 07:20	11/14/19 19:00	
460-196770-12	WSG-TB-20191114	Water	11/14/19 00:00	11/14/19 19:00	
460-196770-13	WSG-GW1-29.0	Water	11/14/19 09:45	11/14/19 19:00	
460-196770-14	WSG-GW1-19.0	Water	11/14/19 10:40	11/14/19 19:00	
460-196770-15	WSG-GW1-9.0	Water	11/14/19 11:20	11/14/19 19:00	
460-196770-16	WSG-GW1-9.1	Water	11/14/19 11:20	11/14/19 19:00	

Detection Summary

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196770-1

Client Sample ID: WSG-C1-COMP-O

Lab Sample ID: 460-196770-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Xylenes, Total	0.94	J B	2.0	0.18	ug/Kg	1	☼	8260C	Total/NA
4,4'-DDE	14		8.1	0.95	ug/Kg	1	☼	8081B	Total/NA
4,4'-DDT	16		8.1	1.5	ug/Kg	1	☼	8081B	Total/NA
Perfluoroheptanoic acid (PFHpA)	0.042	J	0.25	0.036	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	0.17	J	0.25	0.044	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	0.43		0.25	0.027	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluoroundecanoic acid (PFUnA)	0.090	J	0.25	0.044	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorododecanoic acid (PFDoA)	0.085	J	0.25	0.082	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.56	J B	0.61	0.25	ug/Kg	1	☼	537 (modified)	Total/NA
Iron	10700		34.4	16.9	mg/Kg	4	☼	6010D	Total/NA
Aluminum	9500		45.9	13.0	mg/Kg	4	☼	6010D	Total/NA
Arsenic	7.6		3.4	1.3	mg/Kg	4	☼	6010D	Total/NA
Boron	5.6	J	11.5	3.2	mg/Kg	4	☼	6010D	Total/NA
Barium	19.8	J	45.9	2.5	mg/Kg	4	☼	6010D	Total/NA
Beryllium	0.41	J	0.46	0.10	mg/Kg	4	☼	6010D	Total/NA
Calcium	717	J	1150	67.6	mg/Kg	4	☼	6010D	Total/NA
Cobalt	3.0	J	11.5	1.4	mg/Kg	4	☼	6010D	Total/NA
Chromium	17.5		2.3	0.41	mg/Kg	4	☼	6010D	Total/NA
Copper	19.5		5.7	3.1	mg/Kg	4	☼	6010D	Total/NA
Potassium	438	J	1150	71.3	mg/Kg	4	☼	6010D	Total/NA
Magnesium	1470		1150	66.9	mg/Kg	4	☼	6010D	Total/NA
Manganese	99.4		3.4	0.40	mg/Kg	4	☼	6010D	Total/NA
Nickel	6.9	J	9.2	0.84	mg/Kg	4	☼	6010D	Total/NA
Lead	10		2.3	0.60	mg/Kg	4	☼	6010D	Total/NA
Strontium	4.9		4.6	0.46	mg/Kg	4	☼	6010D	Total/NA
Titanium	448		4.6	0.69	mg/Kg	4	☼	6010D	Total/NA
Vanadium	18.1		11.5	0.76	mg/Kg	4	☼	6010D	Total/NA
Zinc	22.7		6.9	5.3	mg/Kg	4	☼	6010D	Total/NA
Mercury	0.028		0.019	0.011	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: WSG-C2-COMP-O

Lab Sample ID: 460-196770-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	0.32	J B	1.2	0.29	ug/Kg	1	☼	8260C	Total/NA
Xylenes, Total	0.88	J B	2.4	0.21	ug/Kg	1	☼	8260C	Total/NA
4,4'-DDE	2.3	J	8.2	0.97	ug/Kg	1	☼	8081B	Total/NA
Perfluorodecanoic acid (PFDA)	0.035	J	0.25	0.028	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.48	J B	0.63	0.25	ug/Kg	1	☼	537 (modified)	Total/NA
Iron	12900		35.3	17.3	mg/Kg	4	☼	6010D	Total/NA
Aluminum	9830		47.0	13.3	mg/Kg	4	☼	6010D	Total/NA
Arsenic	8.4		3.5	1.4	mg/Kg	4	☼	6010D	Total/NA
Boron	6.2	J	11.8	3.3	mg/Kg	4	☼	6010D	Total/NA
Barium	23.7	J	47.0	2.6	mg/Kg	4	☼	6010D	Total/NA
Beryllium	0.49		0.47	0.10	mg/Kg	4	☼	6010D	Total/NA
Calcium	1180		1180	69.3	mg/Kg	4	☼	6010D	Total/NA
Cobalt	4.1	J	11.8	1.4	mg/Kg	4	☼	6010D	Total/NA
Chromium	12.7		2.4	0.42	mg/Kg	4	☼	6010D	Total/NA
Copper	9.2		5.9	3.1	mg/Kg	4	☼	6010D	Total/NA
Potassium	531	J	1180	73.1	mg/Kg	4	☼	6010D	Total/NA
Magnesium	1810		1180	68.6	mg/Kg	4	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Edison

Detection Summary

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196770-1

Client Sample ID: WSG-C2-COMP-O (Continued)

Lab Sample ID: 460-196770-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	142		3.5	0.41	mg/Kg		4	☼ 6010D	Total/NA
Nickel	7.7	J	9.4	0.86	mg/Kg		4	☼ 6010D	Total/NA
Lead	11.9		2.4	0.61	mg/Kg		4	☼ 6010D	Total/NA
Strontium	6.8		4.7	0.47	mg/Kg		4	☼ 6010D	Total/NA
Titanium	545		4.7	0.71	mg/Kg		4	☼ 6010D	Total/NA
Vanadium	19.6		11.8	0.78	mg/Kg		4	☼ 6010D	Total/NA
Zinc	27.5		7.1	5.5	mg/Kg		4	☼ 6010D	Total/NA
Mercury	0.030		0.021	0.012	mg/Kg		1	☼ 7471B	Total/NA

Client Sample ID: WSG-GW9-6.0

Lab Sample ID: 460-196770-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid (PFHxA)	3.40		1.85	0.54	ng/L		1	537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	2.85		1.85	0.23	ng/L		1	537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	41.2		1.85	0.78	ng/L		1	537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	3.83		1.85	0.25	ng/L		1	537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	1.13	J	1.85	0.29	ng/L		1	537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	0.84	J	1.85	0.18	ng/L		1	537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	21.8	B	1.85	0.16	ng/L		1	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	238		1.85	0.50	ng/L		1	537 (modified)	Total/NA
Iron	66700		150	34.2	ug/L		1	6010D	Total/NA
Aluminum	425		200	28.6	ug/L		1	6010D	Total/NA
Boron	35.4	J	50.0	12.7	ug/L		1	6010D	Total/NA
Barium	94.9	J	200	7.7	ug/L		1	6010D	Total/NA
Calcium	59200		5000	222	ug/L		1	6010D	Total/NA
Cadmium	0.46	J	4.0	0.22	ug/L		1	6010D	Total/NA
Cobalt	14.3	J	50.0	1.7	ug/L		1	6010D	Total/NA
Chromium	3.5	J	10.0	1.3	ug/L		1	6010D	Total/NA
Potassium	15700		5000	323	ug/L		1	6010D	Total/NA
Magnesium	8230		5000	177	ug/L		1	6010D	Total/NA
Manganese	1720		15.0	0.99	ug/L		1	6010D	Total/NA
Sodium	3340	J	5000	460	ug/L		1	6010D	Total/NA
Nickel	6.2	J	40.0	1.7	ug/L		1	6010D	Total/NA
Lead	9.2	J	10.0	2.5	ug/L		1	6010D	Total/NA
Strontium	163		20.0	0.70	ug/L		1	6010D	Total/NA
Titanium	16.1	J	20.0	2.0	ug/L		1	6010D	Total/NA
Zinc	33.7		30.0	3.6	ug/L		1	6010D	Total/NA

Client Sample ID: WSG-EB-SAMPLER-20191112

Lab Sample ID: 460-196770-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanesulfonic acid (PFHxS)	0.31	J B	1.74	0.15	ng/L		1	537 (modified)	Total/NA

Client Sample ID: WSG-C3-COMP-O

Lab Sample ID: 460-196770-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	0.53	J B	1.2	0.28	ug/Kg		1	☼ 8260C	Total/NA
Xylenes, Total	0.81	J B	2.4	0.21	ug/Kg		1	☼ 8260C	Total/NA
Benzo[b]fluoranthene	11	J	39	10	ug/Kg		1	☼ 8270D	Total/NA
4,4'-DDE	11		7.9	0.93	ug/Kg		1	☼ 8081B	Total/NA
4,4'-DDT	11		7.9	1.4	ug/Kg		1	☼ 8081B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Edison

Detection Summary

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196770-1

Client Sample ID: WSG-C3-COMP-O (Continued)

Lab Sample ID: 460-196770-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorononanoic acid (PFNA)	0.040	J	0.22	0.040	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	0.040	J	0.22	0.025	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.51	J B	0.56	0.22	ug/Kg	1	☼	537 (modified)	Total/NA
Iron	8420		33.0	16.2	mg/Kg	4	☼	6010D	Total/NA
Aluminum	6680		43.9	12.4	mg/Kg	4	☼	6010D	Total/NA
Arsenic	8.1		3.3	1.3	mg/Kg	4	☼	6010D	Total/NA
Boron	5.2	J	11.0	3.0	mg/Kg	4	☼	6010D	Total/NA
Barium	16.6	J	43.9	2.4	mg/Kg	4	☼	6010D	Total/NA
Beryllium	0.32	J	0.44	0.098	mg/Kg	4	☼	6010D	Total/NA
Calcium	512	J	1100	64.7	mg/Kg	4	☼	6010D	Total/NA
Cobalt	2.6	J	11.0	1.4	mg/Kg	4	☼	6010D	Total/NA
Chromium	8.4		2.2	0.39	mg/Kg	4	☼	6010D	Total/NA
Copper	15.8		5.5	2.9	mg/Kg	4	☼	6010D	Total/NA
Potassium	336	J	1100	68.3	mg/Kg	4	☼	6010D	Total/NA
Magnesium	1120		1100	64.1	mg/Kg	4	☼	6010D	Total/NA
Manganese	92.0		3.3	0.38	mg/Kg	4	☼	6010D	Total/NA
Nickel	4.9	J	8.8	0.81	mg/Kg	4	☼	6010D	Total/NA
Lead	25.0		2.2	0.57	mg/Kg	4	☼	6010D	Total/NA
Strontium	3.0	J	4.4	0.44	mg/Kg	4	☼	6010D	Total/NA
Titanium	354		4.4	0.66	mg/Kg	4	☼	6010D	Total/NA
Vanadium	12.9		11.0	0.73	mg/Kg	4	☼	6010D	Total/NA
Zinc	20.7		6.6	5.1	mg/Kg	4	☼	6010D	Total/NA
Mercury	0.089		0.019	0.011	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: WSG-C4-COMP-O

Lab Sample ID: 460-196770-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Xylenes, Total	0.37	J B	2.5	0.22	ug/Kg	1	☼	8260C	Total/NA
Benzo[a]anthracene	14	J	37	13	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	10	J	37	9.7	ug/Kg	1	☼	8270D	Total/NA
Chrysene	6.6	J	370	6.3	ug/Kg	1	☼	8270D	Total/NA
Pyrene	13	J	370	9.3	ug/Kg	1	☼	8270D	Total/NA
4,4'-DDE	16		7.6	0.90	ug/Kg	1	☼	8081B	Total/NA
4,4'-DDT	14		7.6	1.4	ug/Kg	1	☼	8081B	Total/NA
Perfluorononanoic acid (PFNA)	0.047	J	0.21	0.039	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	0.061	J	0.21	0.024	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluoroundecanoic acid (PFUnA)	0.042	J	0.21	0.039	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.49	J B	0.54	0.21	ug/Kg	1	☼	537 (modified)	Total/NA
Iron	8200		33.7	16.5	mg/Kg	4	☼	6010D	Total/NA
Aluminum	6350		44.9	12.7	mg/Kg	4	☼	6010D	Total/NA
Arsenic	8.7		3.4	1.3	mg/Kg	4	☼	6010D	Total/NA
Boron	4.8	J	11.2	3.1	mg/Kg	4	☼	6010D	Total/NA
Barium	17.0	J	44.9	2.5	mg/Kg	4	☼	6010D	Total/NA
Beryllium	0.32	J	0.45	0.10	mg/Kg	4	☼	6010D	Total/NA
Calcium	1010	J	1120	66.1	mg/Kg	4	☼	6010D	Total/NA
Cobalt	2.2	J	11.2	1.4	mg/Kg	4	☼	6010D	Total/NA
Chromium	8.6		2.2	0.40	mg/Kg	4	☼	6010D	Total/NA
Copper	16.8		5.6	3.0	mg/Kg	4	☼	6010D	Total/NA
Potassium	348	J	1120	69.8	mg/Kg	4	☼	6010D	Total/NA
Magnesium	1110	J	1120	65.4	mg/Kg	4	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: New York State D.E.C.
Project/Site: DEC - WAINSCOTT SAND & GRAVEL
SITE:15225

Job ID: 460-196770-1

Client Sample ID: WSG-C4-COMP-O (Continued)

Lab Sample ID: 460-196770-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	89.1		3.4	0.39	mg/Kg	4	☼	6010D	Total/NA
Nickel	4.9	J	9.0	0.82	mg/Kg	4	☼	6010D	Total/NA
Lead	11.4		2.2	0.59	mg/Kg	4	☼	6010D	Total/NA
Strontium	4.9		4.5	0.45	mg/Kg	4	☼	6010D	Total/NA
Titanium	318		4.5	0.68	mg/Kg	4	☼	6010D	Total/NA
Vanadium	12.7		11.2	0.75	mg/Kg	4	☼	6010D	Total/NA
Zinc	18.3		6.7	5.2	mg/Kg	4	☼	6010D	Total/NA
Mercury	0.032		0.017	0.010	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: WSG-GS8-16.5-18.5-0

Lab Sample ID: 460-196770-7

No Detections.

Client Sample ID: WSG-GW8-39.0

Lab Sample ID: 460-196770-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid (PFHxA)	2.40		1.87	0.54	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	1.64	J	1.87	0.23	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	5.06		1.87	0.79	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	0.55	J	1.87	0.25	ng/L	1		537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	0.37	J	1.87	0.29	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	1.36	J	1.87	0.19	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	12.7	B	1.87	0.16	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	9.14		1.87	0.50	ng/L	1		537 (modified)	Total/NA

Client Sample ID: WSG-GW8-29.0

Lab Sample ID: 460-196770-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid (PFHxA)	3.64		1.89	0.55	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	2.11		1.89	0.24	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	5.80		1.89	0.80	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	1.24	J	1.89	0.25	ng/L	1		537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	0.73	J	1.89	0.29	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	0.89	J	1.89	0.19	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	8.29	B	1.89	0.16	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	10.9		1.89	0.51	ng/L	1		537 (modified)	Total/NA

Client Sample ID: WSG-GW8-19.0

Lab Sample ID: 460-196770-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid (PFHxA)	4.48		1.84	0.53	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	3.69		1.84	0.23	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	7.95		1.84	0.78	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	3.18		1.84	0.25	ng/L	1		537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	0.64	J	1.84	0.29	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	1.11	J	1.84	0.18	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	2.15	B	1.84	0.16	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	50.5		1.84	0.50	ng/L	1		537 (modified)	Total/NA
Iron	152		150	34.2	ug/L	1		6010D	Total/NA
Aluminum	78.4	J	200	28.6	ug/L	1		6010D	Total/NA
Boron	44.4	J	50.0	12.7	ug/L	1		6010D	Total/NA
Barium	26.8	J	200	7.7	ug/L	1		6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Edison

Detection Summary

Client: New York State D.E.C.
Project/Site: DEC - WAINSCOTT SAND & GRAVEL
SITE:15225

Job ID: 460-196770-1

Client Sample ID: WSG-GW8-19.0 (Continued)

Lab Sample ID: 460-196770-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	29200		5000	222	ug/L	1		6010D	Total/NA
Chromium	21.7		10.0	1.3	ug/L	1		6010D	Total/NA
Potassium	65900		5000	323	ug/L	1		6010D	Total/NA
Magnesium	1400	J	5000	177	ug/L	1		6010D	Total/NA
Manganese	244		15.0	0.99	ug/L	1		6010D	Total/NA
Molybdenum	11.9	J	20.0	3.3	ug/L	1		6010D	Total/NA
Sodium	24300		5000	460	ug/L	1		6010D	Total/NA
Nickel	1.8	J	40.0	1.7	ug/L	1		6010D	Total/NA
Strontium	155		20.0	0.70	ug/L	1		6010D	Total/NA
Titanium	4.8	J	20.0	2.0	ug/L	1		6010D	Total/NA
Zinc	7.5	J	30.0	3.6	ug/L	1		6010D	Total/NA

Client Sample ID: WSG-GS1-6.8-0

Lab Sample ID: 460-196770-11

No Detections.

Client Sample ID: WSG-TB-20191114

Lab Sample ID: 460-196770-12

No Detections.

Client Sample ID: WSG-GW1-29.0

Lab Sample ID: 460-196770-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid (PFHxA)	56.8		1.83	0.53	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	8.65		1.83	0.23	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	4.28		1.83	0.78	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	1.26	J	1.83	0.25	ng/L	1		537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	0.91	J	1.83	0.28	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	14.6		1.83	0.18	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	4.00	B	1.83	0.16	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	6.27		1.83	0.49	ng/L	1		537 (modified)	Total/NA

Client Sample ID: WSG-GW1-19.0

Lab Sample ID: 460-196770-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid (PFHxA)	0.95	J	1.81	0.52	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	0.60	J	1.81	0.23	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	0.89	J	1.81	0.77	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	0.93	J	1.81	0.24	ng/L	1		537 (modified)	Total/NA
Perfluoroundecanoic acid (PFUnA)	8.99		1.81	0.99	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	1.42	J B	1.81	0.15	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	5.43		1.81	0.49	ng/L	1		537 (modified)	Total/NA

Client Sample ID: WSG-GW1-9.0

Lab Sample ID: 460-196770-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid (PFHxA)	23.7		1.84	0.53	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	43.2		1.84	0.23	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	64.6		1.84	0.78	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	333		1.84	0.25	ng/L	1		537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	5.70		1.84	0.28	ng/L	1		537 (modified)	Total/NA
Perfluoroundecanoic acid (PFUnA)	2.19		1.84	1.01	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	2.19		1.84	0.18	ng/L	1		537 (modified)	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Edison

Detection Summary

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196770-1

Client Sample ID: WSG-GW1-9.0 (Continued)

Lab Sample ID: 460-196770-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanesulfonic acid (PFHxS)	25.0	B	1.84	0.16	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	12.7		1.84	0.50	ng/L	1		537 (modified)	Total/NA
Iron	2510		150	34.2	ug/L	1		6010D	Total/NA
Boron	44.4	J	50.0	12.7	ug/L	1		6010D	Total/NA
Barium	27.7	J	200	7.7	ug/L	1		6010D	Total/NA
Calcium	53200		5000	222	ug/L	1		6010D	Total/NA
Cobalt	3.9	J	50.0	1.7	ug/L	1		6010D	Total/NA
Potassium	2300	J	5000	323	ug/L	1		6010D	Total/NA
Magnesium	10700		5000	177	ug/L	1		6010D	Total/NA
Manganese	624		15.0	0.99	ug/L	1		6010D	Total/NA
Molybdenum	5.4	J	20.0	3.3	ug/L	1		6010D	Total/NA
Sodium	3860	J	5000	460	ug/L	1		6010D	Total/NA
Nickel	6.7	J	40.0	1.7	ug/L	1		6010D	Total/NA
Strontium	155		20.0	0.70	ug/L	1		6010D	Total/NA
Titanium	3.9	J	20.0	2.0	ug/L	1		6010D	Total/NA
Zinc	8.9	J	30.0	3.6	ug/L	1		6010D	Total/NA

Client Sample ID: WSG-GW1-9.1

Lab Sample ID: 460-196770-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid (PFHxA)	24.7		1.89	0.55	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	41.7		1.89	0.24	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	62.9		1.89	0.80	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	343		1.89	0.25	ng/L	1		537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	5.53		1.89	0.29	ng/L	1		537 (modified)	Total/NA
Perfluoroundecanoic acid (PFUnA)	1.89		1.89	1.04	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	2.19		1.89	0.19	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	24.4	B	1.89	0.16	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	12.4		1.89	0.51	ng/L	1		537 (modified)	Total/NA
Iron	2510		150	34.2	ug/L	1		6010D	Total/NA
Boron	45.4	J	50.0	12.7	ug/L	1		6010D	Total/NA
Barium	28.2	J	200	7.7	ug/L	1		6010D	Total/NA
Calcium	54500		5000	222	ug/L	1		6010D	Total/NA
Cobalt	3.9	J	50.0	1.7	ug/L	1		6010D	Total/NA
Potassium	2350	J	5000	323	ug/L	1		6010D	Total/NA
Magnesium	11100		5000	177	ug/L	1		6010D	Total/NA
Manganese	628		15.0	0.99	ug/L	1		6010D	Total/NA
Molybdenum	5.7	J	20.0	3.3	ug/L	1		6010D	Total/NA
Sodium	3970	J	5000	460	ug/L	1		6010D	Total/NA
Nickel	6.6	J	40.0	1.7	ug/L	1		6010D	Total/NA
Strontium	159		20.0	0.70	ug/L	1		6010D	Total/NA
Titanium	3.9	J	20.0	2.0	ug/L	1		6010D	Total/NA
Zinc	10.1	J	30.0	3.6	ug/L	1		6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Edison

Method Summary

Client: New York State D.E.C.
Project/Site: DEC - WAINSCOTT SAND & GRAVEL
SITE:15225

Job ID: 460-196770-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL EDI
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL EDI
8270D SIM	Semivolatile Organic Compounds (GC/MS SIM)	SW846	TAL EDI
608.3	Organochlorine Pesticides/PCBs in Water	40CFR136A	TAL EDI
8081B	Organochlorine Pesticides (GC)	SW846	TAL EDI
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL EDI
8151A	Herbicides (GC)	SW846	TAL EDI
537 (modified)	Fluorinated Alkyl Substances	EPA	TAL SAC
6010D	Metals (ICP)	SW846	TAL EDI
7470A	Mercury (CVAA)	SW846	TAL EDI
7471B	Mercury (CVAA)	SW846	TAL EDI
D 2216	Percent Moisture	ASTM	TAL SAC
Moisture	Percent Moisture	EPA	TAL EDI
3010A	Preparation, Total Metals	SW846	TAL EDI
3050B	Preparation, Metals	SW846	TAL EDI
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL EDI
3535	Solid-Phase Extraction (SPE)	SW846	TAL SAC
3546	Microwave Extraction	SW846	TAL EDI
5030C	Purge and Trap	SW846	TAL EDI
5035	Closed System Purge and Trap	SW846	TAL EDI
608	Liquid-Liquid Extraction (Separatory Funnel)	40CFR136A	TAL EDI
7470A	Preparation, Mercury	SW846	TAL EDI
7471B	Preparation, Mercury	SW846	TAL EDI
8151A	Extraction (Herbicides)	SW846	TAL EDI
SHAKE	Shake Extraction with Ultrasonic Bath Extraction	SW846	TAL SAC

Protocol References:

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL EDI = Eurofins TestAmerica, Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

TAL SAC = Eurofins TestAmerica, Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196770-1

Client Sample ID: WSG-C1-COMP-O

Lab Sample ID: 460-196770-1

Date Collected: 11/12/19 13:15

Matrix: Solid

Date Received: 11/14/19 19:00

Percent Solids: 83.0

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/Kg	☒	11/19/19 02:53	11/21/19 09:44	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22	ug/Kg	☒	11/19/19 02:53	11/21/19 09:44	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.30	ug/Kg	☒	11/19/19 02:53	11/21/19 09:44	1
1,1,2-Trichloroethane	1.0	U	1.0	0.18	ug/Kg	☒	11/19/19 02:53	11/21/19 09:44	1
1,1-Dichloroethane	1.0	U	1.0	0.21	ug/Kg	☒	11/19/19 02:53	11/21/19 09:44	1
1,1-Dichloroethene	1.0	U	1.0	0.23	ug/Kg	☒	11/19/19 02:53	11/21/19 09:44	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.36	ug/Kg	☒	11/19/19 02:53	11/21/19 09:44	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.47	ug/Kg	☒	11/19/19 02:53	11/21/19 09:44	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/Kg	☒	11/19/19 02:53	11/21/19 09:44	1
1,2-Dichloroethane	1.0	U	1.0	0.30	ug/Kg	☒	11/19/19 02:53	11/21/19 09:44	1
1,2-Dichloropropane	1.0	U	1.0	0.43	ug/Kg	☒	11/19/19 02:53	11/21/19 09:44	1
1,3-Dichlorobenzene	1.0	U	1.0	0.16	ug/Kg	☒	11/19/19 02:53	11/21/19 09:44	1
1,4-Dichlorobenzene	1.0	U	1.0	0.23	ug/Kg	☒	11/19/19 02:53	11/21/19 09:44	1
2-Butanone (MEK)	5.1	U	5.1	2.7	ug/Kg	☒	11/19/19 02:53	11/21/19 09:44	1
2-Hexanone	5.1	U	5.1	1.7	ug/Kg	☒	11/19/19 02:53	11/21/19 09:44	1
4-Methyl-2-pentanone (MIBK)	5.1	U	5.1	1.6	ug/Kg	☒	11/19/19 02:53	11/21/19 09:44	1
Acetone	6.1	U	6.1	5.8	ug/Kg	☒	11/19/19 02:53	11/21/19 09:44	1
Benzene	1.0	U	1.0	0.26	ug/Kg	☒	11/19/19 02:53	11/21/19 09:44	1
Bromoform	1.0	U	1.0	0.43	ug/Kg	☒	11/19/19 02:53	11/21/19 09:44	1
Bromomethane	1.0	U	1.0	0.48	ug/Kg	☒	11/19/19 02:53	11/21/19 09:44	1
Carbon disulfide	1.0	U	1.0	0.27	ug/Kg	☒	11/19/19 02:53	11/21/19 09:44	1
Carbon tetrachloride	1.0	U	1.0	0.39	ug/Kg	☒	11/19/19 02:53	11/21/19 09:44	1
Chlorobenzene	1.0	U	1.0	0.18	ug/Kg	☒	11/19/19 02:53	11/21/19 09:44	1
Chlorodibromomethane	1.0	U	1.0	0.20	ug/Kg	☒	11/19/19 02:53	11/21/19 09:44	1
Chloroethane	1.0	U	1.0	0.53	ug/Kg	☒	11/19/19 02:53	11/21/19 09:44	1
Chloroform	1.0	U	1.0	0.32	ug/Kg	☒	11/19/19 02:53	11/21/19 09:44	1
Chloromethane	1.0	U	1.0	0.44	ug/Kg	☒	11/19/19 02:53	11/21/19 09:44	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/Kg	☒	11/19/19 02:53	11/21/19 09:44	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.28	ug/Kg	☒	11/19/19 02:53	11/21/19 09:44	1
Cyclohexane	1.0	U	1.0	0.22	ug/Kg	☒	11/19/19 02:53	11/21/19 09:44	1
Dichlorobromomethane	1.0	U	1.0	0.26	ug/Kg	☒	11/19/19 02:53	11/21/19 09:44	1
Dichlorodifluoromethane	1.0	U	1.0	0.34	ug/Kg	☒	11/19/19 02:53	11/21/19 09:44	1
Ethylbenzene	1.0	U	1.0	0.20	ug/Kg	☒	11/19/19 02:53	11/21/19 09:44	1
Ethylene Dibromide	1.0	U	1.0	0.18	ug/Kg	☒	11/19/19 02:53	11/21/19 09:44	1
Isopropylbenzene	1.0	U	1.0	0.13	ug/Kg	☒	11/19/19 02:53	11/21/19 09:44	1
Methyl acetate	5.1	U *	5.1	4.4	ug/Kg	☒	11/19/19 02:53	11/21/19 09:44	1
Methyl tert-butyl ether	1.0	U	1.0	0.13	ug/Kg	☒	11/19/19 02:53	11/21/19 09:44	1
Methylcyclohexane	1.0	U	1.0	0.50	ug/Kg	☒	11/19/19 02:53	11/21/19 09:44	1
Methylene Chloride	1.0	U	1.0	0.47	ug/Kg	☒	11/19/19 02:53	11/21/19 09:44	1
Styrene	1.0	U	1.0	0.28	ug/Kg	☒	11/19/19 02:53	11/21/19 09:44	1
Tetrachloroethene	1.0	U	1.0	0.14	ug/Kg	☒	11/19/19 02:53	11/21/19 09:44	1
Toluene	1.0	U	1.0	0.24	ug/Kg	☒	11/19/19 02:53	11/21/19 09:44	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.25	ug/Kg	☒	11/19/19 02:53	11/21/19 09:44	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.27	ug/Kg	☒	11/19/19 02:53	11/21/19 09:44	1
Trichloroethene	1.0	U	1.0	0.15	ug/Kg	☒	11/19/19 02:53	11/21/19 09:44	1
Trichlorofluoromethane	1.0	U	1.0	0.41	ug/Kg	☒	11/19/19 02:53	11/21/19 09:44	1
Vinyl chloride	1.0	U	1.0	0.55	ug/Kg	☒	11/19/19 02:53	11/21/19 09:44	1
Xylenes, Total	0.94	J B	2.0	0.18	ug/Kg	☒	11/19/19 02:53	11/21/19 09:44	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196770-1

Client Sample ID: WSG-C1-COMP-O

Lab Sample ID: 460-196770-1

Date Collected: 11/12/19 13:15

Matrix: Solid

Date Received: 11/14/19 19:00

Percent Solids: 83.0

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	91		78 - 135	11/19/19 02:53	11/21/19 09:44	1
4-Bromofluorobenzene	102		67 - 126	11/19/19 02:53	11/21/19 09:44	1
Dibromofluoromethane (Surr)	100		61 - 149	11/19/19 02:53	11/21/19 09:44	1
Toluene-d8 (Surr)	98		73 - 121	11/19/19 02:53	11/21/19 09:44	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	400	U	400	5.3	ug/Kg	☼	11/20/19 09:19	11/21/19 08:20	1
2,2'-oxybis[1-chloropropane]	400	U	400	7.2	ug/Kg	☼	11/20/19 09:19	11/21/19 08:20	1
2,4,5-Trichlorophenol	400	U	400	41	ug/Kg	☼	11/20/19 09:19	11/21/19 08:20	1
2,4,6-Trichlorophenol	160	U	160	51	ug/Kg	☼	11/20/19 09:19	11/21/19 08:20	1
2,4-Dichlorophenol	160	U	160	26	ug/Kg	☼	11/20/19 09:19	11/21/19 08:20	1
2,4-Dimethylphenol	400	U	400	18	ug/Kg	☼	11/20/19 09:19	11/21/19 08:20	1
2,4-Dinitrophenol	320	U	320	200	ug/Kg	☼	11/20/19 09:19	11/21/19 08:20	1
2,4-Dinitrotoluene	81	U	81	43	ug/Kg	☼	11/20/19 09:19	11/21/19 08:20	1
2,6-Dinitrotoluene	81	U	81	29	ug/Kg	☼	11/20/19 09:19	11/21/19 08:20	1
2-Chloronaphthalene	400	U	400	18	ug/Kg	☼	11/20/19 09:19	11/21/19 08:20	1
2-Chlorophenol	400	U	400	14	ug/Kg	☼	11/20/19 09:19	11/21/19 08:20	1
2-Methylnaphthalene	400	U	400	11	ug/Kg	☼	11/20/19 09:19	11/21/19 08:20	1
2-Methylphenol	400	U	400	15	ug/Kg	☼	11/20/19 09:19	11/21/19 08:20	1
2-Nitroaniline	400	U	400	15	ug/Kg	☼	11/20/19 09:19	11/21/19 08:20	1
2-Nitrophenol	400	U	400	40	ug/Kg	☼	11/20/19 09:19	11/21/19 08:20	1
3,3'-Dichlorobenzidine	160	U *	160	60	ug/Kg	☼	11/20/19 09:19	11/21/19 08:20	1
3-Nitroaniline	400	U	400	45	ug/Kg	☼	11/20/19 09:19	11/21/19 08:20	1
4,6-Dinitro-2-methylphenol	320	U	320	65	ug/Kg	☼	11/20/19 09:19	11/21/19 08:20	1
4-Bromophenyl phenyl ether	400	U	400	16	ug/Kg	☼	11/20/19 09:19	11/21/19 08:20	1
4-Chloro-3-methylphenol	400	U	400	22	ug/Kg	☼	11/20/19 09:19	11/21/19 08:20	1
4-Chloroaniline	400	U	400	28	ug/Kg	☼	11/20/19 09:19	11/21/19 08:20	1
4-Chlorophenyl phenyl ether	400	U	400	14	ug/Kg	☼	11/20/19 09:19	11/21/19 08:20	1
4-Methylphenol	400	U	400	25	ug/Kg	☼	11/20/19 09:19	11/21/19 08:20	1
4-Nitroaniline	400	U	400	46	ug/Kg	☼	11/20/19 09:19	11/21/19 08:20	1
4-Nitrophenol	810	U	810	65	ug/Kg	☼	11/20/19 09:19	11/21/19 08:20	1
Acenaphthene	400	U	400	29	ug/Kg	☼	11/20/19 09:19	11/21/19 08:20	1
Acenaphthylene	400	U	400	4.1	ug/Kg	☼	11/20/19 09:19	11/21/19 08:20	1
Acetophenone	400	U	400	20	ug/Kg	☼	11/20/19 09:19	11/21/19 08:20	1
Anthracene	400	U	400	12	ug/Kg	☼	11/20/19 09:19	11/21/19 08:20	1
Atrazine	160	U	160	10	ug/Kg	☼	11/20/19 09:19	11/21/19 08:20	1
Benzaldehyde	400	U	400	17	ug/Kg	☼	11/20/19 09:19	11/21/19 08:20	1
Benzo[a]anthracene	40	U	40	14	ug/Kg	☼	11/20/19 09:19	11/21/19 08:20	1
Benzo[a]pyrene	40	U	40	11	ug/Kg	☼	11/20/19 09:19	11/21/19 08:20	1
Benzo[b]fluoranthene	40	U	40	10	ug/Kg	☼	11/20/19 09:19	11/21/19 08:20	1
Benzo[g,h,i]perylene	400	U	400	12	ug/Kg	☼	11/20/19 09:19	11/21/19 08:20	1
Benzo[k]fluoranthene	40	U	40	7.8	ug/Kg	☼	11/20/19 09:19	11/21/19 08:20	1
Bis(2-chloroethoxy)methane	400	U	400	31	ug/Kg	☼	11/20/19 09:19	11/21/19 08:20	1
Bis(2-chloroethyl)ether	40	U	40	14	ug/Kg	☼	11/20/19 09:19	11/21/19 08:20	1
Bis(2-ethylhexyl) phthalate	400	U	400	21	ug/Kg	☼	11/20/19 09:19	11/21/19 08:20	1
Butyl benzyl phthalate	400	U	400	19	ug/Kg	☼	11/20/19 09:19	11/21/19 08:20	1
Caprolactam	400	U	400	62	ug/Kg	☼	11/20/19 09:19	11/21/19 08:20	1
Carbazole	400	U	400	15	ug/Kg	☼	11/20/19 09:19	11/21/19 08:20	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196770-1

Client Sample ID: WSG-C1-COMP-O

Lab Sample ID: 460-196770-1

Date Collected: 11/12/19 13:15

Matrix: Solid

Date Received: 11/14/19 19:00

Percent Solids: 83.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	400	U	400	6.7	ug/Kg	☼	11/20/19 09:19	11/21/19 08:20	1
Dibenz(a,h)anthracene	40	U	40	17	ug/Kg	☼	11/20/19 09:19	11/21/19 08:20	1
Dibenzofuran	400	U	400	5.6	ug/Kg	☼	11/20/19 09:19	11/21/19 08:20	1
Diethyl phthalate	400	U	400	5.8	ug/Kg	☼	11/20/19 09:19	11/21/19 08:20	1
Dimethyl phthalate	400	U	400	91	ug/Kg	☼	11/20/19 09:19	11/21/19 08:20	1
Di-n-butyl phthalate	400	U	400	70	ug/Kg	☼	11/20/19 09:19	11/21/19 08:20	1
Di-n-octyl phthalate	400	U	400	21	ug/Kg	☼	11/20/19 09:19	11/21/19 08:20	1
Fluoranthene	400	U	400	14	ug/Kg	☼	11/20/19 09:19	11/21/19 08:20	1
Fluorene	400	U	400	5.4	ug/Kg	☼	11/20/19 09:19	11/21/19 08:20	1
Hexachlorobenzene	40	U	40	19	ug/Kg	☼	11/20/19 09:19	11/21/19 08:20	1
Hexachlorobutadiene	81	U	81	8.5	ug/Kg	☼	11/20/19 09:19	11/21/19 08:20	1
Hexachlorocyclopentadiene	400	U	400	35	ug/Kg	☼	11/20/19 09:19	11/21/19 08:20	1
Hexachloroethane	40	U	40	14	ug/Kg	☼	11/20/19 09:19	11/21/19 08:20	1
Indeno[1,2,3-cd]pyrene	40	U	40	16	ug/Kg	☼	11/20/19 09:19	11/21/19 08:20	1
Isophorone	160	U	160	120	ug/Kg	☼	11/20/19 09:19	11/21/19 08:20	1
Naphthalene	400	U	400	6.9	ug/Kg	☼	11/20/19 09:19	11/21/19 08:20	1
Nitrobenzene	40	U	40	9.6	ug/Kg	☼	11/20/19 09:19	11/21/19 08:20	1
N-Nitrosodi-n-propylamine	40	U	40	29	ug/Kg	☼	11/20/19 09:19	11/21/19 08:20	1
N-Nitrosodiphenylamine	400	U	400	7.6	ug/Kg	☼	11/20/19 09:19	11/21/19 08:20	1
Pentachlorophenol	320	U	320	82	ug/Kg	☼	11/20/19 09:19	11/21/19 08:20	1
Phenanthrene	400	U	400	7.0	ug/Kg	☼	11/20/19 09:19	11/21/19 08:20	1
Phenol	400	U	400	15	ug/Kg	☼	11/20/19 09:19	11/21/19 08:20	1
Pyrene	400	U	400	9.9	ug/Kg	☼	11/20/19 09:19	11/21/19 08:20	1
1,4-Dioxane	120	U	120	11	ug/Kg	☼	11/20/19 09:19	11/21/19 08:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	50		10 - 137	11/20/19 09:19	11/21/19 08:20	1
2-Fluorophenol (Surr)	62		20 - 115	11/20/19 09:19	11/21/19 08:20	1
Nitrobenzene-d5 (Surr)	51		25 - 113	11/20/19 09:19	11/21/19 08:20	1
Terphenyl-d14 (Surr)	62		27 - 123	11/20/19 09:19	11/21/19 08:20	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	8.1	U	8.1	1.4	ug/Kg	☼	11/19/19 22:16	11/20/19 07:31	1
4,4'-DDE	14		8.1	0.95	ug/Kg	☼	11/19/19 22:16	11/20/19 07:31	1
4,4'-DDT	16		8.1	1.5	ug/Kg	☼	11/19/19 22:16	11/20/19 07:31	1
Aldrin	8.1	U	8.1	1.2	ug/Kg	☼	11/19/19 22:16	11/20/19 07:31	1
alpha-BHC	2.4	U	2.4	0.82	ug/Kg	☼	11/19/19 22:16	11/20/19 07:31	1
beta-BHC	2.4	U	2.4	0.90	ug/Kg	☼	11/19/19 22:16	11/20/19 07:31	1
Chlordane (technical)	81	U	81	20	ug/Kg	☼	11/19/19 22:16	11/20/19 07:31	1
delta-BHC	2.4	U	2.4	0.49	ug/Kg	☼	11/19/19 22:16	11/20/19 07:31	1
Dieldrin	2.4	U	2.4	1.0	ug/Kg	☼	11/19/19 22:16	11/20/19 07:31	1
Endosulfan I	8.1	U	8.1	1.2	ug/Kg	☼	11/19/19 22:16	11/20/19 07:31	1
Endosulfan II	8.1	U	8.1	2.1	ug/Kg	☼	11/19/19 22:16	11/20/19 07:31	1
Endosulfan sulfate	8.1	U	8.1	1.0	ug/Kg	☼	11/19/19 22:16	11/20/19 07:31	1
Endrin	8.1	U	8.1	1.2	ug/Kg	☼	11/19/19 22:16	11/20/19 07:31	1
Endrin aldehyde	8.1	U	8.1	1.9	ug/Kg	☼	11/19/19 22:16	11/20/19 07:31	1
Endrin ketone	8.1	U	8.1	1.6	ug/Kg	☼	11/19/19 22:16	11/20/19 07:31	1
gamma-BHC (Lindane)	2.4	U	2.4	0.75	ug/Kg	☼	11/19/19 22:16	11/20/19 07:31	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196770-1

Client Sample ID: WSG-C1-COMP-O

Lab Sample ID: 460-196770-1

Date Collected: 11/12/19 13:15

Matrix: Solid

Date Received: 11/14/19 19:00

Percent Solids: 83.0

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor	8.1	U	8.1	0.95	ug/Kg	☒	11/19/19 22:16	11/20/19 07:31	1
Heptachlor epoxide	8.1	U	8.1	1.2	ug/Kg	☒	11/19/19 22:16	11/20/19 07:31	1
Methoxychlor	8.1	U	8.1	1.8	ug/Kg	☒	11/19/19 22:16	11/20/19 07:31	1
Toxaphene	81	U	81	29	ug/Kg	☒	11/19/19 22:16	11/20/19 07:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	112		49 - 150	11/19/19 22:16	11/20/19 07:31	1
DCB Decachlorobiphenyl	148		49 - 150	11/19/19 22:16	11/20/19 07:31	1
Tetrachloro-m-xylene	114		47 - 150	11/19/19 22:16	11/20/19 07:31	1
Tetrachloro-m-xylene	117		47 - 150	11/19/19 22:16	11/20/19 07:31	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	81	U	81	11	ug/Kg	☒	11/19/19 22:22	11/20/19 18:42	1
Aroclor 1221	81	U	81	11	ug/Kg	☒	11/19/19 22:22	11/20/19 18:42	1
Aroclor 1232	81	U	81	11	ug/Kg	☒	11/19/19 22:22	11/20/19 18:42	1
Aroclor 1242	81	U	81	11	ug/Kg	☒	11/19/19 22:22	11/20/19 18:42	1
Aroclor 1248	81	U	81	11	ug/Kg	☒	11/19/19 22:22	11/20/19 18:42	1
Aroclor 1254	81	U	81	11	ug/Kg	☒	11/19/19 22:22	11/20/19 18:42	1
Aroclor 1260	81	U	81	11	ug/Kg	☒	11/19/19 22:22	11/20/19 18:42	1
Aroclor-1262	81	U	81	11	ug/Kg	☒	11/19/19 22:22	11/20/19 18:42	1
Aroclor 1268	81	U	81	11	ug/Kg	☒	11/19/19 22:22	11/20/19 18:42	1
Polychlorinated biphenyls, Total	81	U	81	11	ug/Kg	☒	11/19/19 22:22	11/20/19 18:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	123		53 - 150	11/19/19 22:22	11/20/19 18:42	1
DCB Decachlorobiphenyl	124		53 - 150	11/19/19 22:22	11/20/19 18:42	1

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	40	U	40	15	ug/Kg	☒	11/20/19 02:56	11/20/19 19:10	1
Silvex (2,4,5-TP)	40	U	40	4.2	ug/Kg	☒	11/20/19 02:56	11/20/19 19:10	1
2,4,5-T	40	U	40	8.5	ug/Kg	☒	11/20/19 02:56	11/20/19 19:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	128		30 - 150	11/20/19 02:56	11/20/19 19:10	1
2,4-Dichlorophenylacetic acid	132		30 - 150	11/20/19 02:56	11/20/19 19:10	1

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	0.25	U	0.25	0.052	ug/Kg	☒	11/22/19 10:16	11/29/19 08:46	1
Perfluoroheptanoic acid (PFHpA)	0.042	J	0.25	0.036	ug/Kg	☒	11/22/19 10:16	11/29/19 08:46	1
Perfluorooctanoic acid (PFOA)	0.25	U	0.25	0.11	ug/Kg	☒	11/22/19 10:16	11/29/19 08:46	1
Perfluorononanoic acid (PFNA)	0.17	J	0.25	0.044	ug/Kg	☒	11/22/19 10:16	11/29/19 08:46	1
Perfluorodecanoic acid (PFDA)	0.43	J	0.25	0.027	ug/Kg	☒	11/22/19 10:16	11/29/19 08:46	1
Perfluoroundecanoic acid (PFUnA)	0.090	J	0.25	0.044	ug/Kg	☒	11/22/19 10:16	11/29/19 08:46	1
Perfluorododecanoic acid (PFDoA)	0.085	J	0.25	0.082	ug/Kg	☒	11/22/19 10:16	11/29/19 08:46	1
Perfluorotridecanoic acid (PFTriA)	0.25	U	0.25	0.063	ug/Kg	☒	11/22/19 10:16	11/29/19 08:46	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196770-1

Client Sample ID: WSG-C1-COMP-O

Lab Sample ID: 460-196770-1

Date Collected: 11/12/19 13:15

Matrix: Solid

Date Received: 11/14/19 19:00

Percent Solids: 83.0

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorotetradecanoic acid (PFTeA)	0.25	U	0.25	0.066	ug/Kg	☼	11/22/19 10:16	11/29/19 08:46	1
Perfluorobutanesulfonic acid (PFBS)	0.25	U	0.25	0.031	ug/Kg	☼	11/22/19 10:16	11/29/19 08:46	1
Perfluorohexanesulfonic acid (PFHxS)	0.25	U	0.25	0.038	ug/Kg	☼	11/22/19 10:16	11/29/19 08:46	1
Perfluorooctanesulfonic acid (PFOS)	0.56	J B	0.61	0.25	ug/Kg	☼	11/22/19 10:16	11/29/19 08:46	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.45	U	2.45	0.45	ug/Kg	☼	11/22/19 10:16	11/29/19 08:46	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.45	U	2.45	0.48	ug/Kg	☼	11/22/19 10:16	11/29/19 08:46	1
<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C2 PFHxA	95		25 - 150				11/22/19 10:16	11/29/19 08:46	1
13C4 PFHpA	107		25 - 150				11/22/19 10:16	11/29/19 08:46	1
13C4 PFOA	108		25 - 150				11/22/19 10:16	11/29/19 08:46	1
13C5 PFNA	102		25 - 150				11/22/19 10:16	11/29/19 08:46	1
13C2 PFDA	103		25 - 150				11/22/19 10:16	11/29/19 08:46	1
13C2 PFUnA	108		25 - 150				11/22/19 10:16	11/29/19 08:46	1
13C2 PFDoA	114		25 - 150				11/22/19 10:16	11/29/19 08:46	1
13C2 PFTeDA	118		25 - 150				11/22/19 10:16	11/29/19 08:46	1
18O2 PFHxS	109		25 - 150				11/22/19 10:16	11/29/19 08:46	1
13C4 PFOS	108		25 - 150				11/22/19 10:16	11/29/19 08:46	1
d3-NMeFOSAA	84		25 - 150				11/22/19 10:16	11/29/19 08:46	1
d5-NEtFOSAA	86		25 - 150				11/22/19 10:16	11/29/19 08:46	1

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	10700		34.4	16.9	mg/Kg	☼	11/25/19 06:35	11/26/19 13:10	4
Silver	2.3	U	2.3	0.22	mg/Kg	☼	11/25/19 06:35	11/26/19 13:10	4
Aluminum	9500		45.9	13.0	mg/Kg	☼	11/25/19 06:35	11/26/19 13:10	4
Arsenic	7.6		3.4	1.3	mg/Kg	☼	11/25/19 06:35	11/26/19 13:10	4
Boron	5.6	J	11.5	3.2	mg/Kg	☼	11/25/19 06:35	11/26/19 13:10	4
Barium	19.8	J	45.9	2.5	mg/Kg	☼	11/25/19 06:35	11/26/19 13:10	4
Beryllium	0.41	J	0.46	0.10	mg/Kg	☼	11/25/19 06:35	11/26/19 13:10	4
Calcium	717	J	1150	67.6	mg/Kg	☼	11/25/19 06:35	11/26/19 13:10	4
Cadmium	0.92	U	0.92	0.16	mg/Kg	☼	11/25/19 06:35	11/26/19 13:10	4
Cobalt	3.0	J	11.5	1.4	mg/Kg	☼	11/25/19 06:35	11/26/19 13:10	4
Chromium	17.5		2.3	0.41	mg/Kg	☼	11/25/19 06:35	11/26/19 13:10	4
Copper	19.5		5.7	3.1	mg/Kg	☼	11/25/19 06:35	11/26/19 13:10	4
Potassium	438	J	1150	71.3	mg/Kg	☼	11/25/19 06:35	11/26/19 13:10	4
Magnesium	1470		1150	66.9	mg/Kg	☼	11/25/19 06:35	11/26/19 13:10	4
Manganese	99.4		3.4	0.40	mg/Kg	☼	11/25/19 06:35	11/26/19 13:10	4
Molybdenum	4.6	U	4.6	1.1	mg/Kg	☼	11/25/19 06:35	11/26/19 13:10	4
Sodium	1150	U	1150	92.2	mg/Kg	☼	11/25/19 06:35	11/26/19 13:10	4
Nickel	6.9	J	9.2	0.84	mg/Kg	☼	11/25/19 06:35	11/26/19 13:10	4
Lead	10		2.3	0.60	mg/Kg	☼	11/25/19 06:35	11/26/19 13:10	4
Antimony	4.6	U	4.6	1.2	mg/Kg	☼	11/25/19 06:35	11/26/19 13:10	4
Selenium	4.6	U	4.6	2.7	mg/Kg	☼	11/25/19 06:35	11/26/19 13:10	4
Tin	11.5	U	11.5	7.4	mg/Kg	☼	11/25/19 06:35	11/26/19 13:10	4
Strontium	4.9		4.6	0.46	mg/Kg	☼	11/25/19 06:35	11/26/19 13:10	4
Titanium	448		4.6	0.69	mg/Kg	☼	11/25/19 06:35	11/26/19 13:10	4

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196770-1

Client Sample ID: WSG-C1-COMP-O

Lab Sample ID: 460-196770-1

Date Collected: 11/12/19 13:15

Matrix: Solid

Date Received: 11/14/19 19:00

Percent Solids: 83.0

Method: 6010D - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	4.6	U	4.6	0.73	mg/Kg	☼	11/25/19 06:35	11/26/19 13:10	4
Vanadium	18.1		11.5	0.76	mg/Kg	☼	11/25/19 06:35	11/26/19 13:10	4
Zinc	22.7		6.9	5.3	mg/Kg	☼	11/25/19 06:35	11/26/19 13:10	4

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.028		0.019	0.011	mg/Kg	☼	11/25/19 03:32	11/25/19 07:23	1

Client Sample ID: WSG-C2-COMP-O

Lab Sample ID: 460-196770-2

Date Collected: 11/12/19 13:05

Matrix: Solid

Date Received: 11/14/19 19:00

Percent Solids: 81.8

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.2	U	1.2	0.28	ug/Kg	☼	11/19/19 02:54	11/21/19 10:08	1
1,1,2,2-Tetrachloroethane	1.2	U	1.2	0.26	ug/Kg	☼	11/19/19 02:54	11/21/19 10:08	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.2	U	1.2	0.37	ug/Kg	☼	11/19/19 02:54	11/21/19 10:08	1
1,1,2-Trichloroethane	1.2	U	1.2	0.22	ug/Kg	☼	11/19/19 02:54	11/21/19 10:08	1
1,1-Dichloroethane	1.2	U	1.2	0.25	ug/Kg	☼	11/19/19 02:54	11/21/19 10:08	1
1,1-Dichloroethene	1.2	U	1.2	0.27	ug/Kg	☼	11/19/19 02:54	11/21/19 10:08	1
1,2,4-Trichlorobenzene	1.2	U	1.2	0.44	ug/Kg	☼	11/19/19 02:54	11/21/19 10:08	1
1,2-Dibromo-3-Chloropropane	1.2	U	1.2	0.56	ug/Kg	☼	11/19/19 02:54	11/21/19 10:08	1
1,2-Dichlorobenzene	1.2	U	1.2	0.18	ug/Kg	☼	11/19/19 02:54	11/21/19 10:08	1
1,2-Dichloroethane	1.2	U	1.2	0.36	ug/Kg	☼	11/19/19 02:54	11/21/19 10:08	1
1,2-Dichloropropane	1.2	U	1.2	0.52	ug/Kg	☼	11/19/19 02:54	11/21/19 10:08	1
1,3-Dichlorobenzene	1.2	U	1.2	0.19	ug/Kg	☼	11/19/19 02:54	11/21/19 10:08	1
1,4-Dichlorobenzene	1.2	U	1.2	0.27	ug/Kg	☼	11/19/19 02:54	11/21/19 10:08	1
2-Butanone (MEK)	6.1	U	6.1	3.3	ug/Kg	☼	11/19/19 02:54	11/21/19 10:08	1
2-Hexanone	6.1	U	6.1	2.1	ug/Kg	☼	11/19/19 02:54	11/21/19 10:08	1
4-Methyl-2-pentanone (MIBK)	6.1	U	6.1	1.9	ug/Kg	☼	11/19/19 02:54	11/21/19 10:08	1
Acetone	7.3	U	7.3	7.0	ug/Kg	☼	11/19/19 02:54	11/21/19 10:08	1
Benzene	1.2	U	1.2	0.31	ug/Kg	☼	11/19/19 02:54	11/21/19 10:08	1
Bromoform	1.2	U	1.2	0.52	ug/Kg	☼	11/19/19 02:54	11/21/19 10:08	1
Bromomethane	1.2	U	1.2	0.58	ug/Kg	☼	11/19/19 02:54	11/21/19 10:08	1
Carbon disulfide	1.2	U	1.2	0.32	ug/Kg	☼	11/19/19 02:54	11/21/19 10:08	1
Carbon tetrachloride	1.2	U	1.2	0.47	ug/Kg	☼	11/19/19 02:54	11/21/19 10:08	1
Chlorobenzene	1.2	U	1.2	0.22	ug/Kg	☼	11/19/19 02:54	11/21/19 10:08	1
Chlorodibromomethane	1.2	U	1.2	0.24	ug/Kg	☼	11/19/19 02:54	11/21/19 10:08	1
Chloroethane	1.2	U	1.2	0.64	ug/Kg	☼	11/19/19 02:54	11/21/19 10:08	1
Chloroform	1.2	U	1.2	0.39	ug/Kg	☼	11/19/19 02:54	11/21/19 10:08	1
Chloromethane	1.2	U	1.2	0.53	ug/Kg	☼	11/19/19 02:54	11/21/19 10:08	1
cis-1,2-Dichloroethene	1.2	U	1.2	0.19	ug/Kg	☼	11/19/19 02:54	11/21/19 10:08	1
cis-1,3-Dichloropropene	1.2	U	1.2	0.33	ug/Kg	☼	11/19/19 02:54	11/21/19 10:08	1
Cyclohexane	1.2	U	1.2	0.27	ug/Kg	☼	11/19/19 02:54	11/21/19 10:08	1
Dichlorobromomethane	1.2	U	1.2	0.31	ug/Kg	☼	11/19/19 02:54	11/21/19 10:08	1
Dichlorodifluoromethane	1.2	U	1.2	0.41	ug/Kg	☼	11/19/19 02:54	11/21/19 10:08	1
Ethylbenzene	1.2	U	1.2	0.24	ug/Kg	☼	11/19/19 02:54	11/21/19 10:08	1
Ethylene Dibromide	1.2	U	1.2	0.22	ug/Kg	☼	11/19/19 02:54	11/21/19 10:08	1
Isopropylbenzene	1.2	U	1.2	0.15	ug/Kg	☼	11/19/19 02:54	11/21/19 10:08	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196770-1

Client Sample ID: WSG-C2-COMP-O

Lab Sample ID: 460-196770-2

Date Collected: 11/12/19 13:05

Matrix: Solid

Date Received: 11/14/19 19:00

Percent Solids: 81.8

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl acetate	6.1	U *	6.1	5.2	ug/Kg	☼	11/19/19 02:54	11/21/19 10:08	1
Methyl tert-butyl ether	1.2	U	1.2	0.15	ug/Kg	☼	11/19/19 02:54	11/21/19 10:08	1
Methylcyclohexane	1.2	U	1.2	0.61	ug/Kg	☼	11/19/19 02:54	11/21/19 10:08	1
Methylene Chloride	1.2	U	1.2	0.57	ug/Kg	☼	11/19/19 02:54	11/21/19 10:08	1
Styrene	1.2	U	1.2	0.34	ug/Kg	☼	11/19/19 02:54	11/21/19 10:08	1
Tetrachloroethene	1.2	U	1.2	0.17	ug/Kg	☼	11/19/19 02:54	11/21/19 10:08	1
Toluene	0.32	J B	1.2	0.29	ug/Kg	☼	11/19/19 02:54	11/21/19 10:08	1
trans-1,2-Dichloroethene	1.2	U	1.2	0.30	ug/Kg	☼	11/19/19 02:54	11/21/19 10:08	1
trans-1,3-Dichloropropene	1.2	U	1.2	0.32	ug/Kg	☼	11/19/19 02:54	11/21/19 10:08	1
Trichloroethene	1.2	U	1.2	0.18	ug/Kg	☼	11/19/19 02:54	11/21/19 10:08	1
Trichlorofluoromethane	1.2	U	1.2	0.49	ug/Kg	☼	11/19/19 02:54	11/21/19 10:08	1
Vinyl chloride	1.2	U	1.2	0.67	ug/Kg	☼	11/19/19 02:54	11/21/19 10:08	1
Xylenes, Total	0.88	J B	2.4	0.21	ug/Kg	☼	11/19/19 02:54	11/21/19 10:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	90		78 - 135	11/19/19 02:54	11/21/19 10:08	1
4-Bromofluorobenzene	103		67 - 126	11/19/19 02:54	11/21/19 10:08	1
Dibromofluoromethane (Surr)	95		61 - 149	11/19/19 02:54	11/21/19 10:08	1
Toluene-d8 (Surr)	94		73 - 121	11/19/19 02:54	11/21/19 10:08	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	400	U	400	5.4	ug/Kg	☼	11/20/19 09:19	11/21/19 06:23	1
2,2'-oxybis[1-chloropropane]	400	U	400	7.3	ug/Kg	☼	11/20/19 09:19	11/21/19 06:23	1
2,4,5-Trichlorophenol	400	U	400	41	ug/Kg	☼	11/20/19 09:19	11/21/19 06:23	1
2,4,6-Trichlorophenol	160	U	160	52	ug/Kg	☼	11/20/19 09:19	11/21/19 06:23	1
2,4-Dichlorophenol	160	U	160	26	ug/Kg	☼	11/20/19 09:19	11/21/19 06:23	1
2,4-Dimethylphenol	400	U	400	18	ug/Kg	☼	11/20/19 09:19	11/21/19 06:23	1
2,4-Dinitrophenol	330	U	330	200	ug/Kg	☼	11/20/19 09:19	11/21/19 06:23	1
2,4-Dinitrotoluene	82	U	82	44	ug/Kg	☼	11/20/19 09:19	11/21/19 06:23	1
2,6-Dinitrotoluene	82	U	82	29	ug/Kg	☼	11/20/19 09:19	11/21/19 06:23	1
2-Chloronaphthalene	400	U	400	19	ug/Kg	☼	11/20/19 09:19	11/21/19 06:23	1
2-Chlorophenol	400	U	400	14	ug/Kg	☼	11/20/19 09:19	11/21/19 06:23	1
2-Methylnaphthalene	400	U	400	11	ug/Kg	☼	11/20/19 09:19	11/21/19 06:23	1
2-Methylphenol	400	U	400	15	ug/Kg	☼	11/20/19 09:19	11/21/19 06:23	1
2-Nitroaniline	400	U	400	15	ug/Kg	☼	11/20/19 09:19	11/21/19 06:23	1
2-Nitrophenol	400	U	400	41	ug/Kg	☼	11/20/19 09:19	11/21/19 06:23	1
3,3'-Dichlorobenzidine	160	U *	160	61	ug/Kg	☼	11/20/19 09:19	11/21/19 06:23	1
3-Nitroaniline	400	U	400	46	ug/Kg	☼	11/20/19 09:19	11/21/19 06:23	1
4,6-Dinitro-2-methylphenol	330	U	330	66	ug/Kg	☼	11/20/19 09:19	11/21/19 06:23	1
4-Bromophenyl phenyl ether	400	U	400	16	ug/Kg	☼	11/20/19 09:19	11/21/19 06:23	1
4-Chloro-3-methylphenol	400	U	400	23	ug/Kg	☼	11/20/19 09:19	11/21/19 06:23	1
4-Chloroaniline	400	U	400	28	ug/Kg	☼	11/20/19 09:19	11/21/19 06:23	1
4-Chlorophenyl phenyl ether	400	U	400	14	ug/Kg	☼	11/20/19 09:19	11/21/19 06:23	1
4-Methylphenol	400	U	400	25	ug/Kg	☼	11/20/19 09:19	11/21/19 06:23	1
4-Nitroaniline	400	U	400	46	ug/Kg	☼	11/20/19 09:19	11/21/19 06:23	1
4-Nitrophenol	820	U	820	66	ug/Kg	☼	11/20/19 09:19	11/21/19 06:23	1
Acenaphthene	400	U	400	29	ug/Kg	☼	11/20/19 09:19	11/21/19 06:23	1
Acenaphthylene	400	U	400	4.2	ug/Kg	☼	11/20/19 09:19	11/21/19 06:23	1

Eurofins TestAmerica, Edison

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196770-1

Client Sample ID: WSG-C2-COMP-O

Lab Sample ID: 460-196770-2

Date Collected: 11/12/19 13:05

Matrix: Solid

Date Received: 11/14/19 19:00

Percent Solids: 81.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetophenone	400	U	400	20	ug/Kg	☼	11/20/19 09:19	11/21/19 06:23	1
Anthracene	400	U	400	12	ug/Kg	☼	11/20/19 09:19	11/21/19 06:23	1
Atrazine	160	U	160	10	ug/Kg	☼	11/20/19 09:19	11/21/19 06:23	1
Benzaldehyde	400	U	400	18	ug/Kg	☼	11/20/19 09:19	11/21/19 06:23	1
Benzo[a]anthracene	40	U	40	14	ug/Kg	☼	11/20/19 09:19	11/21/19 06:23	1
Benzo[a]pyrene	40	U	40	11	ug/Kg	☼	11/20/19 09:19	11/21/19 06:23	1
Benzo[b]fluoranthene	40	U	40	10	ug/Kg	☼	11/20/19 09:19	11/21/19 06:23	1
Benzo[g,h,i]perylene	400	U	400	12	ug/Kg	☼	11/20/19 09:19	11/21/19 06:23	1
Benzo[k]fluoranthene	40	U	40	7.9	ug/Kg	☼	11/20/19 09:19	11/21/19 06:23	1
Bis(2-chloroethoxy)methane	400	U	400	32	ug/Kg	☼	11/20/19 09:19	11/21/19 06:23	1
Bis(2-chloroethyl)ether	40	U	40	14	ug/Kg	☼	11/20/19 09:19	11/21/19 06:23	1
Bis(2-ethylhexyl) phthalate	400	U	400	21	ug/Kg	☼	11/20/19 09:19	11/21/19 06:23	1
Butyl benzyl phthalate	400	U	400	19	ug/Kg	☼	11/20/19 09:19	11/21/19 06:23	1
Caprolactam	400	U	400	63	ug/Kg	☼	11/20/19 09:19	11/21/19 06:23	1
Carbazole	400	U	400	15	ug/Kg	☼	11/20/19 09:19	11/21/19 06:23	1
Chrysene	400	U	400	6.8	ug/Kg	☼	11/20/19 09:19	11/21/19 06:23	1
Dibenz(a,h)anthracene	40	U	40	18	ug/Kg	☼	11/20/19 09:19	11/21/19 06:23	1
Dibenzofuran	400	U	400	5.7	ug/Kg	☼	11/20/19 09:19	11/21/19 06:23	1
Diethyl phthalate	400	U	400	5.9	ug/Kg	☼	11/20/19 09:19	11/21/19 06:23	1
Dimethyl phthalate	400	U	400	92	ug/Kg	☼	11/20/19 09:19	11/21/19 06:23	1
Di-n-butyl phthalate	400	U	400	71	ug/Kg	☼	11/20/19 09:19	11/21/19 06:23	1
Di-n-octyl phthalate	400	U	400	21	ug/Kg	☼	11/20/19 09:19	11/21/19 06:23	1
Fluoranthene	400	U	400	14	ug/Kg	☼	11/20/19 09:19	11/21/19 06:23	1
Fluorene	400	U	400	5.5	ug/Kg	☼	11/20/19 09:19	11/21/19 06:23	1
Hexachlorobenzene	40	U	40	19	ug/Kg	☼	11/20/19 09:19	11/21/19 06:23	1
Hexachlorobutadiene	82	U	82	8.6	ug/Kg	☼	11/20/19 09:19	11/21/19 06:23	1
Hexachlorocyclopentadiene	400	U	400	35	ug/Kg	☼	11/20/19 09:19	11/21/19 06:23	1
Hexachloroethane	40	U	40	14	ug/Kg	☼	11/20/19 09:19	11/21/19 06:23	1
Indeno[1,2,3-cd]pyrene	40	U	40	16	ug/Kg	☼	11/20/19 09:19	11/21/19 06:23	1
Isophorone	160	U	160	120	ug/Kg	☼	11/20/19 09:19	11/21/19 06:23	1
Naphthalene	400	U	400	7.0	ug/Kg	☼	11/20/19 09:19	11/21/19 06:23	1
Nitrobenzene	40	U	40	9.7	ug/Kg	☼	11/20/19 09:19	11/21/19 06:23	1
N-Nitrosodi-n-propylamine	40	U	40	29	ug/Kg	☼	11/20/19 09:19	11/21/19 06:23	1
N-Nitrosodiphenylamine	400	U	400	7.7	ug/Kg	☼	11/20/19 09:19	11/21/19 06:23	1
Pentachlorophenol	330	U	330	83	ug/Kg	☼	11/20/19 09:19	11/21/19 06:23	1
Phenanthrene	400	U	400	7.1	ug/Kg	☼	11/20/19 09:19	11/21/19 06:23	1
Phenol	400	U	400	15	ug/Kg	☼	11/20/19 09:19	11/21/19 06:23	1
Pyrene	400	U	400	10	ug/Kg	☼	11/20/19 09:19	11/21/19 06:23	1
1,4-Dioxane	120	U	120	11	ug/Kg	☼	11/20/19 09:19	11/21/19 06:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	55		10 - 137	11/20/19 09:19	11/21/19 06:23	1
2-Fluorophenol (Surr)	60		20 - 115	11/20/19 09:19	11/21/19 06:23	1
Nitrobenzene-d5 (Surr)	56		25 - 113	11/20/19 09:19	11/21/19 06:23	1
Terphenyl-d14 (Surr)	70		27 - 123	11/20/19 09:19	11/21/19 06:23	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	8.2	U	8.2	1.4	ug/Kg	☼	11/19/19 22:16	11/20/19 07:44	1

Eurofins TestAmerica, Edison

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196770-1

Client Sample ID: WSG-C2-COMP-O

Lab Sample ID: 460-196770-2

Date Collected: 11/12/19 13:05

Matrix: Solid

Date Received: 11/14/19 19:00

Percent Solids: 81.8

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDE	2.3	J	8.2	0.97	ug/Kg	☼	11/19/19 22:16	11/20/19 07:44	1
4,4'-DDT	8.2	U	8.2	1.5	ug/Kg	☼	11/19/19 22:16	11/20/19 07:44	1
Aldrin	8.2	U	8.2	1.2	ug/Kg	☼	11/19/19 22:16	11/20/19 07:44	1
alpha-BHC	2.4	U	2.4	0.83	ug/Kg	☼	11/19/19 22:16	11/20/19 07:44	1
beta-BHC	2.4	U	2.4	0.92	ug/Kg	☼	11/19/19 22:16	11/20/19 07:44	1
Chlordane (technical)	82	U	82	20	ug/Kg	☼	11/19/19 22:16	11/20/19 07:44	1
delta-BHC	2.4	U	2.4	0.50	ug/Kg	☼	11/19/19 22:16	11/20/19 07:44	1
Dieldrin	2.4	U	2.4	1.1	ug/Kg	☼	11/19/19 22:16	11/20/19 07:44	1
Endosulfan I	8.2	U	8.2	1.2	ug/Kg	☼	11/19/19 22:16	11/20/19 07:44	1
Endosulfan II	8.2	U	8.2	2.1	ug/Kg	☼	11/19/19 22:16	11/20/19 07:44	1
Endosulfan sulfate	8.2	U	8.2	1.0	ug/Kg	☼	11/19/19 22:16	11/20/19 07:44	1
Endrin	8.2	U	8.2	1.2	ug/Kg	☼	11/19/19 22:16	11/20/19 07:44	1
Endrin aldehyde	8.2	U	8.2	1.9	ug/Kg	☼	11/19/19 22:16	11/20/19 07:44	1
Endrin ketone	8.2	U	8.2	1.6	ug/Kg	☼	11/19/19 22:16	11/20/19 07:44	1
gamma-BHC (Lindane)	2.4	U	2.4	0.76	ug/Kg	☼	11/19/19 22:16	11/20/19 07:44	1
Heptachlor	8.2	U	8.2	0.97	ug/Kg	☼	11/19/19 22:16	11/20/19 07:44	1
Heptachlor epoxide	8.2	U	8.2	1.2	ug/Kg	☼	11/19/19 22:16	11/20/19 07:44	1
Methoxychlor	8.2	U	8.2	1.9	ug/Kg	☼	11/19/19 22:16	11/20/19 07:44	1
Toxaphene	82	U	82	30	ug/Kg	☼	11/19/19 22:16	11/20/19 07:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	109		49 - 150	11/19/19 22:16	11/20/19 07:44	1
DCB Decachlorobiphenyl	146		49 - 150	11/19/19 22:16	11/20/19 07:44	1
Tetrachloro-m-xylene	109		47 - 150	11/19/19 22:16	11/20/19 07:44	1
Tetrachloro-m-xylene	112		47 - 150	11/19/19 22:16	11/20/19 07:44	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	82	U	82	11	ug/Kg	☼	11/19/19 22:22	11/20/19 18:59	1
Aroclor 1221	82	U	82	11	ug/Kg	☼	11/19/19 22:22	11/20/19 18:59	1
Aroclor 1232	82	U	82	11	ug/Kg	☼	11/19/19 22:22	11/20/19 18:59	1
Aroclor 1242	82	U	82	11	ug/Kg	☼	11/19/19 22:22	11/20/19 18:59	1
Aroclor 1248	82	U	82	11	ug/Kg	☼	11/19/19 22:22	11/20/19 18:59	1
Aroclor 1254	82	U	82	11	ug/Kg	☼	11/19/19 22:22	11/20/19 18:59	1
Aroclor 1260	82	U	82	11	ug/Kg	☼	11/19/19 22:22	11/20/19 18:59	1
Aroclor-1262	82	U	82	11	ug/Kg	☼	11/19/19 22:22	11/20/19 18:59	1
Aroclor 1268	82	U	82	11	ug/Kg	☼	11/19/19 22:22	11/20/19 18:59	1
Polychlorinated biphenyls, Total	82	U	82	11	ug/Kg	☼	11/19/19 22:22	11/20/19 18:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	113		53 - 150	11/19/19 22:22	11/20/19 18:59	1
DCB Decachlorobiphenyl	108		53 - 150	11/19/19 22:22	11/20/19 18:59	1

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	41	U	41	15	ug/Kg	☼	11/20/19 02:56	11/20/19 19:24	1
Silvex (2,4,5-TP)	41	U	41	4.2	ug/Kg	☼	11/20/19 02:56	11/20/19 19:24	1
2,4,5-T	41	U	41	8.7	ug/Kg	☼	11/20/19 02:56	11/20/19 19:24	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196770-1

Client Sample ID: WSG-C2-COMP-O

Lab Sample ID: 460-196770-2

Date Collected: 11/12/19 13:05

Matrix: Solid

Date Received: 11/14/19 19:00

Percent Solids: 81.8

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	120		30 - 150	11/20/19 02:56	11/20/19 19:24	1
2,4-Dichlorophenylacetic acid	130		30 - 150	11/20/19 02:56	11/20/19 19:24	1

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	0.25	U	0.25	0.053	ug/Kg	☼	11/22/19 10:16	11/29/19 09:16	1
Perfluoroheptanoic acid (PFHpA)	0.25	U	0.25	0.036	ug/Kg	☼	11/22/19 10:16	11/29/19 09:16	1
Perfluorooctanoic acid (PFOA)	0.25	U	0.25	0.11	ug/Kg	☼	11/22/19 10:16	11/29/19 09:16	1
Perfluorononanoic acid (PFNA)	0.25	U	0.25	0.045	ug/Kg	☼	11/22/19 10:16	11/29/19 09:16	1
Perfluorodecanoic acid (PFDA)	0.035	J	0.25	0.028	ug/Kg	☼	11/22/19 10:16	11/29/19 09:16	1
Perfluoroundecanoic acid (PFUnA)	0.25	U	0.25	0.045	ug/Kg	☼	11/22/19 10:16	11/29/19 09:16	1
Perfluorododecanoic acid (PFDoA)	0.25	U	0.25	0.084	ug/Kg	☼	11/22/19 10:16	11/29/19 09:16	1
Perfluorotridecanoic acid (PFTriA)	0.25	U	0.25	0.064	ug/Kg	☼	11/22/19 10:16	11/29/19 09:16	1
Perfluorotetradecanoic acid (PFTeA)	0.25	U	0.25	0.068	ug/Kg	☼	11/22/19 10:16	11/29/19 09:16	1
Perfluorobutanesulfonic acid (PFBS)	0.25	U	0.25	0.031	ug/Kg	☼	11/22/19 10:16	11/29/19 09:16	1
Perfluorohexanesulfonic acid (PFHxS)	0.25	U	0.25	0.039	ug/Kg	☼	11/22/19 10:16	11/29/19 09:16	1
Perfluorooctanesulfonic acid (PFOS)	0.48	J B	0.63	0.25	ug/Kg	☼	11/22/19 10:16	11/29/19 09:16	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.50	U	2.50	0.46	ug/Kg	☼	11/22/19 10:16	11/29/19 09:16	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.50	U	2.50	0.49	ug/Kg	☼	11/22/19 10:16	11/29/19 09:16	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFHxA	94		25 - 150	11/22/19 10:16	11/29/19 09:16	1
13C4 PFHpA	101		25 - 150	11/22/19 10:16	11/29/19 09:16	1
13C4 PFOA	102		25 - 150	11/22/19 10:16	11/29/19 09:16	1
13C5 PFNA	103		25 - 150	11/22/19 10:16	11/29/19 09:16	1
13C2 PFDA	102		25 - 150	11/22/19 10:16	11/29/19 09:16	1
13C2 PFUnA	107		25 - 150	11/22/19 10:16	11/29/19 09:16	1
13C2 PFDoA	107		25 - 150	11/22/19 10:16	11/29/19 09:16	1
13C2 PFTeDA	115		25 - 150	11/22/19 10:16	11/29/19 09:16	1
18O2 PFHxS	102		25 - 150	11/22/19 10:16	11/29/19 09:16	1
13C4 PFOS	96		25 - 150	11/22/19 10:16	11/29/19 09:16	1
d3-NMeFOSAA	89		25 - 150	11/22/19 10:16	11/29/19 09:16	1
d5-NEtFOSAA	92		25 - 150	11/22/19 10:16	11/29/19 09:16	1

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	12900		35.3	17.3	mg/Kg	☼	11/25/19 06:35	11/26/19 13:14	4
Silver	2.4	U	2.4	0.22	mg/Kg	☼	11/25/19 06:35	11/26/19 13:14	4
Aluminum	9830		47.0	13.3	mg/Kg	☼	11/25/19 06:35	11/26/19 13:14	4
Arsenic	8.4		3.5	1.4	mg/Kg	☼	11/25/19 06:35	11/26/19 13:14	4
Boron	6.2	J	11.8	3.3	mg/Kg	☼	11/25/19 06:35	11/26/19 13:14	4
Barium	23.7	J	47.0	2.6	mg/Kg	☼	11/25/19 06:35	11/26/19 13:14	4
Beryllium	0.49		0.47	0.10	mg/Kg	☼	11/25/19 06:35	11/26/19 13:14	4
Calcium	1180		1180	69.3	mg/Kg	☼	11/25/19 06:35	11/26/19 13:14	4
Cadmium	0.94	U	0.94	0.16	mg/Kg	☼	11/25/19 06:35	11/26/19 13:14	4
Cobalt	4.1	J	11.8	1.4	mg/Kg	☼	11/25/19 06:35	11/26/19 13:14	4
Chromium	12.7		2.4	0.42	mg/Kg	☼	11/25/19 06:35	11/26/19 13:14	4
Copper	9.2		5.9	3.1	mg/Kg	☼	11/25/19 06:35	11/26/19 13:14	4

Eurofins TestAmerica, Edison

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196770-1

Client Sample ID: WSG-C2-COMP-O

Lab Sample ID: 460-196770-2

Date Collected: 11/12/19 13:05

Matrix: Solid

Date Received: 11/14/19 19:00

Percent Solids: 81.8

Method: 6010D - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	531	J	1180	73.1	mg/Kg	☼	11/25/19 06:35	11/26/19 13:14	4
Magnesium	1810		1180	68.6	mg/Kg	☼	11/25/19 06:35	11/26/19 13:14	4
Manganese	142		3.5	0.41	mg/Kg	☼	11/25/19 06:35	11/26/19 13:14	4
Molybdenum	4.7	U	4.7	1.1	mg/Kg	☼	11/25/19 06:35	11/26/19 13:14	4
Sodium	1180	U	1180	94.5	mg/Kg	☼	11/25/19 06:35	11/26/19 13:14	4
Nickel	7.7	J	9.4	0.86	mg/Kg	☼	11/25/19 06:35	11/26/19 13:14	4
Lead	11.9		2.4	0.61	mg/Kg	☼	11/25/19 06:35	11/26/19 13:14	4
Antimony	4.7	U	4.7	1.2	mg/Kg	☼	11/25/19 06:35	11/26/19 13:14	4
Selenium	4.7	U	4.7	2.8	mg/Kg	☼	11/25/19 06:35	11/26/19 13:14	4
Tin	11.8	U	11.8	7.6	mg/Kg	☼	11/25/19 06:35	11/26/19 13:14	4
Strontium	6.8		4.7	0.47	mg/Kg	☼	11/25/19 06:35	11/26/19 13:14	4
Titanium	545		4.7	0.71	mg/Kg	☼	11/25/19 06:35	11/26/19 13:14	4
Thallium	4.7	U	4.7	0.75	mg/Kg	☼	11/25/19 06:35	11/26/19 13:14	4
Vanadium	19.6		11.8	0.78	mg/Kg	☼	11/25/19 06:35	11/26/19 13:14	4
Zinc	27.5		7.1	5.5	mg/Kg	☼	11/25/19 06:35	11/26/19 13:14	4

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.030		0.021	0.012	mg/Kg	☼	11/25/19 03:32	11/25/19 07:25	1

Client Sample ID: WSG-GW9-6.0

Lab Sample ID: 460-196770-3

Date Collected: 11/12/19 12:35

Matrix: Water

Date Received: 11/14/19 19:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			11/22/19 05:29	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.37	ug/L			11/22/19 05:29	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			11/22/19 05:29	1
1,1,2-Trichloroethane	1.0	U	1.0	0.43	ug/L			11/22/19 05:29	1
1,1-Dichloroethane	1.0	U	1.0	0.26	ug/L			11/22/19 05:29	1
1,1-Dichloroethene	1.0	U	1.0	0.26	ug/L			11/22/19 05:29	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.37	ug/L			11/22/19 05:29	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.38	ug/L			11/22/19 05:29	1
1,2-Dichlorobenzene	1.0	U	1.0	0.43	ug/L			11/22/19 05:29	1
1,2-Dichloroethane	1.0	U	1.0	0.43	ug/L			11/22/19 05:29	1
1,2-Dichloropropane	1.0	U	1.0	0.35	ug/L			11/22/19 05:29	1
1,3-Dichlorobenzene	1.0	U	1.0	0.34	ug/L			11/22/19 05:29	1
1,4-Dichlorobenzene	1.0	U	1.0	0.33	ug/L			11/22/19 05:29	1
2-Butanone (MEK)	5.0	U	5.0	1.9	ug/L			11/22/19 05:29	1
2-Hexanone	5.0	U	5.0	1.1	ug/L			11/22/19 05:29	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	1.3	ug/L			11/22/19 05:29	1
Acetone	5.0	U	5.0	4.4	ug/L			11/22/19 05:29	1
Benzene	1.0	U	1.0	0.20	ug/L			11/22/19 05:29	1
Bromoform	1.0	U	1.0	0.54	ug/L			11/22/19 05:29	1
Bromomethane	1.0	U	1.0	0.55	ug/L			11/22/19 05:29	1
Carbon disulfide	1.0	U	1.0	0.82	ug/L			11/22/19 05:29	1
Carbon tetrachloride	1.0	U	1.0	0.21	ug/L			11/22/19 05:29	1
Chlorobenzene	1.0	U	1.0	0.38	ug/L			11/22/19 05:29	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196770-1

Client Sample ID: WSG-GW9-6.0

Lab Sample ID: 460-196770-3

Date Collected: 11/12/19 12:35

Matrix: Water

Date Received: 11/14/19 19:00

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorodibromomethane	1.0	U	1.0	0.28	ug/L			11/22/19 05:29	1
Chloroethane	1.0	U	1.0	0.32	ug/L			11/22/19 05:29	1
Chloroform	1.0	U	1.0	0.33	ug/L			11/22/19 05:29	1
Chloromethane	1.0	U	1.0	0.40	ug/L			11/22/19 05:29	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.22	ug/L			11/22/19 05:29	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.22	ug/L			11/22/19 05:29	1
Cyclohexane	1.0	U	1.0	0.32	ug/L			11/22/19 05:29	1
Dichlorobromomethane	1.0	U	1.0	0.34	ug/L			11/22/19 05:29	1
Dichlorodifluoromethane	1.0	U	1.0	0.31	ug/L			11/22/19 05:29	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			11/22/19 05:29	1
Ethylene Dibromide	1.0	U	1.0	0.50	ug/L			11/22/19 05:29	1
Isopropylbenzene	1.0	U	1.0	0.34	ug/L			11/22/19 05:29	1
Methyl acetate	5.0	U	5.0	0.79	ug/L			11/22/19 05:29	1
Methyl tert-butyl ether	1.0	U	1.0	0.47	ug/L			11/22/19 05:29	1
Methylcyclohexane	1.0	U	1.0	0.26	ug/L			11/22/19 05:29	1
Methylene Chloride	1.0	U	1.0	0.32	ug/L			11/22/19 05:29	1
Styrene	1.0	U	1.0	0.42	ug/L			11/22/19 05:29	1
Tetrachloroethene	1.0	U	1.0	0.25	ug/L			11/22/19 05:29	1
Toluene	1.0	U	1.0	0.38	ug/L			11/22/19 05:29	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			11/22/19 05:29	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.49	ug/L			11/22/19 05:29	1
Trichloroethene	1.0	U	1.0	0.31	ug/L			11/22/19 05:29	1
Trichlorofluoromethane	1.0	U	1.0	0.32	ug/L			11/22/19 05:29	1
Vinyl chloride	1.0	U	1.0	0.17	ug/L			11/22/19 05:29	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			11/22/19 05:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	80		74 - 132		11/22/19 05:29	1
4-Bromofluorobenzene	83		77 - 124		11/22/19 05:29	1
Dibromofluoromethane (Surr)	80		72 - 131		11/22/19 05:29	1
Toluene-d8 (Surr)	80		80 - 120		11/22/19 05:29	1

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.40	U	0.40	0.17	ug/L		11/19/19 10:40	11/20/19 09:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	129	*	38 - 125	11/19/19 10:40	11/20/19 09:43	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	10	U	10	1.2	ug/L		11/19/19 10:40	11/20/19 00:18	1
2,2'-oxybis[1-chloropropane]	10	U	10	0.63	ug/L		11/19/19 10:40	11/20/19 00:18	1
2,4,5-Trichlorophenol	10	U	10	0.88	ug/L		11/19/19 10:40	11/20/19 00:18	1
2,4,6-Trichlorophenol	10	U	10	0.86	ug/L		11/19/19 10:40	11/20/19 00:18	1
2,4-Dichlorophenol	10	U	10	1.1	ug/L		11/19/19 10:40	11/20/19 00:18	1
2,4-Dimethylphenol	10	U	10	0.62	ug/L		11/19/19 10:40	11/20/19 00:18	1
2,4-Dinitrophenol	20	U	20	14	ug/L		11/19/19 10:40	11/20/19 00:18	1
2,4-Dinitrotoluene	2.0	U	2.0	1.0	ug/L		11/19/19 10:40	11/20/19 00:18	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196770-1

Client Sample ID: WSG-GW9-6.0

Lab Sample ID: 460-196770-3

Date Collected: 11/12/19 12:35

Matrix: Water

Date Received: 11/14/19 19:00

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,6-Dinitrotoluene	2.0	U	2.0	0.83	ug/L		11/19/19 10:40	11/20/19 00:18	1
2-Chloronaphthalene	10	U	10	1.2	ug/L		11/19/19 10:40	11/20/19 00:18	1
2-Chlorophenol	10	U	10	0.38	ug/L		11/19/19 10:40	11/20/19 00:18	1
2-Methylnaphthalene	10	U	10	1.1	ug/L		11/19/19 10:40	11/20/19 00:18	1
2-Methylphenol	10	U	10	0.67	ug/L		11/19/19 10:40	11/20/19 00:18	1
2-Nitroaniline	10	U	10	0.47	ug/L		11/19/19 10:40	11/20/19 00:18	1
2-Nitrophenol	10	U	10	0.75	ug/L		11/19/19 10:40	11/20/19 00:18	1
3,3'-Dichlorobenzidine	10	U	10	1.4	ug/L		11/19/19 10:40	11/20/19 00:18	1
3-Nitroaniline	10	U	10	1.9	ug/L		11/19/19 10:40	11/20/19 00:18	1
4,6-Dinitro-2-methylphenol	20	U	20	13	ug/L		11/19/19 10:40	11/20/19 00:18	1
4-Bromophenyl phenyl ether	10	U	10	0.75	ug/L		11/19/19 10:40	11/20/19 00:18	1
4-Chloro-3-methylphenol	10	U	10	0.58	ug/L		11/19/19 10:40	11/20/19 00:18	1
4-Chloroaniline	10	U	10	1.9	ug/L		11/19/19 10:40	11/20/19 00:18	1
4-Chlorophenyl phenyl ether	10	U	10	1.3	ug/L		11/19/19 10:40	11/20/19 00:18	1
4-Methylphenol	10	U	10	0.65	ug/L		11/19/19 10:40	11/20/19 00:18	1
4-Nitroaniline	10	U	10	1.2	ug/L		11/19/19 10:40	11/20/19 00:18	1
4-Nitrophenol	20	U	20	4.0	ug/L		11/19/19 10:40	11/20/19 00:18	1
Acenaphthene	10	U	10	1.1	ug/L		11/19/19 10:40	11/20/19 00:18	1
Acenaphthylene	10	U	10	0.82	ug/L		11/19/19 10:40	11/20/19 00:18	1
Acetophenone	10	U	10	2.3	ug/L		11/19/19 10:40	11/20/19 00:18	1
Anthracene	10	U	10	0.63	ug/L		11/19/19 10:40	11/20/19 00:18	1
Atrazine	2.0	U *	2.0	1.3	ug/L		11/19/19 10:40	11/20/19 00:18	1
Benzaldehyde	10	U	10	2.1	ug/L		11/19/19 10:40	11/20/19 00:18	1
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		11/19/19 10:40	11/20/19 00:18	1
Benzo[a]pyrene	1.0	U	1.0	0.41	ug/L		11/19/19 10:40	11/20/19 00:18	1
Benzo[b]fluoranthene	2.0	U	2.0	0.68	ug/L		11/19/19 10:40	11/20/19 00:18	1
Benzo[g,h,i]perylene	10	U	10	1.4	ug/L		11/19/19 10:40	11/20/19 00:18	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		11/19/19 10:40	11/20/19 00:18	1
Bis(2-chloroethoxy)methane	10	U	10	0.59	ug/L		11/19/19 10:40	11/20/19 00:18	1
Bis(2-chloroethyl)ether	1.0	U	1.0	0.63	ug/L		11/19/19 10:40	11/20/19 00:18	1
Bis(2-ethylhexyl) phthalate	2.0	U	2.0	1.7	ug/L		11/19/19 10:40	11/20/19 00:18	1
Butyl benzyl phthalate	10	U	10	0.85	ug/L		11/19/19 10:40	11/20/19 00:18	1
Caprolactam	10	U	10	0.68	ug/L		11/19/19 10:40	11/20/19 00:18	1
Carbazole	10	U	10	0.68	ug/L		11/19/19 10:40	11/20/19 00:18	1
Chrysene	2.0	U	2.0	0.91	ug/L		11/19/19 10:40	11/20/19 00:18	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		11/19/19 10:40	11/20/19 00:18	1
Dibenzofuran	10	U	10	1.1	ug/L		11/19/19 10:40	11/20/19 00:18	1
Diethyl phthalate	10	U	10	0.98	ug/L		11/19/19 10:40	11/20/19 00:18	1
Dimethyl phthalate	10	U	10	0.77	ug/L		11/19/19 10:40	11/20/19 00:18	1
Di-n-butyl phthalate	10	U	10	0.84	ug/L		11/19/19 10:40	11/20/19 00:18	1
Di-n-octyl phthalate	10	U	10	4.8	ug/L		11/19/19 10:40	11/20/19 00:18	1
Fluoranthene	10	U	10	0.84	ug/L		11/19/19 10:40	11/20/19 00:18	1
Fluorene	10	U	10	0.91	ug/L		11/19/19 10:40	11/20/19 00:18	1
Hexachlorobenzene	1.0	U	1.0	0.40	ug/L		11/19/19 10:40	11/20/19 00:18	1
Hexachlorobutadiene	1.0	U	1.0	0.78	ug/L		11/19/19 10:40	11/20/19 00:18	1
Hexachlorocyclopentadiene	10	U	10	3.6	ug/L		11/19/19 10:40	11/20/19 00:18	1
Hexachloroethane	2.0	U	2.0	0.80	ug/L		11/19/19 10:40	11/20/19 00:18	1
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	0.94	ug/L		11/19/19 10:40	11/20/19 00:18	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196770-1

Client Sample ID: WSG-GW9-6.0

Lab Sample ID: 460-196770-3

Date Collected: 11/12/19 12:35

Matrix: Water

Date Received: 11/14/19 19:00

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isophorone	10	U	10	0.80	ug/L		11/19/19 10:40	11/20/19 00:18	1
Naphthalene	10	U	10	1.1	ug/L		11/19/19 10:40	11/20/19 00:18	1
Nitrobenzene	1.0	U	1.0	0.57	ug/L		11/19/19 10:40	11/20/19 00:18	1
N-Nitrosodi-n-propylamine	1.0	U	1.0	0.43	ug/L		11/19/19 10:40	11/20/19 00:18	1
N-Nitrosodiphenylamine	10	U	10	0.89	ug/L		11/19/19 10:40	11/20/19 00:18	1
Pentachlorophenol	20	U	20	1.4	ug/L		11/19/19 10:40	11/20/19 00:18	1
Phenanthrene	10	U	10	0.58	ug/L		11/19/19 10:40	11/20/19 00:18	1
Phenol	10	U	10	0.29	ug/L		11/19/19 10:40	11/20/19 00:18	1
Pyrene	10	U	10	1.6	ug/L		11/19/19 10:40	11/20/19 00:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	87		26 - 139	11/19/19 10:40	11/20/19 00:18	1
2-Fluorophenol (Surr)	43		25 - 58	11/19/19 10:40	11/20/19 00:18	1
Nitrobenzene-d5 (Surr)	87		51 - 108	11/19/19 10:40	11/20/19 00:18	1
Terphenyl-d14 (Surr)	80		40 - 148	11/19/19 10:40	11/20/19 00:18	1
Phenol-d5 (Surr)	27		14 - 39	11/19/19 10:40	11/20/19 00:18	1
2-Fluorobiphenyl	88		45 - 107	11/19/19 10:40	11/20/19 00:18	1

Method: 608.3 - Organochlorine Pesticides/PCBs in Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.020	U	0.020	0.012	ug/L		11/19/19 17:11	11/21/19 09:42	1
alpha-BHC	0.020	U	0.020	0.013	ug/L		11/19/19 17:11	11/21/19 09:42	1
beta-BHC	0.030	U	0.030	0.015	ug/L		11/19/19 17:11	11/21/19 09:42	1
delta-BHC	0.020	U	0.020	0.0090	ug/L		11/19/19 17:11	11/21/19 09:42	1
gamma-BHC (Lindane)	0.030	U	0.030	0.013	ug/L		11/19/19 17:11	11/21/19 09:42	1
Chlordane	0.50	U	0.50	0.093	ug/L		11/19/19 17:11	11/21/19 09:42	1
4,4'-DDD	0.040	U	0.040	0.018	ug/L		11/19/19 17:11	11/21/19 09:42	1
4,4'-DDE	0.030	U *	0.030	0.018	ug/L		11/19/19 17:11	11/21/19 09:42	1
4,4'-DDT	0.030	U	0.030	0.025	ug/L		11/19/19 17:11	11/21/19 09:42	1
Dieldrin	0.020	U *	0.020	0.016	ug/L		11/19/19 17:11	11/21/19 09:42	1
Endosulfan I	0.030	U	0.030	0.014	ug/L		11/19/19 17:11	11/21/19 09:42	1
Endosulfan II	0.030	U	0.030	0.017	ug/L		11/19/19 17:11	11/21/19 09:42	1
Endosulfan sulfate	0.030	U	0.030	0.015	ug/L		11/19/19 17:11	11/21/19 09:42	1
Endrin	0.030	U *	0.030	0.021	ug/L		11/19/19 17:11	11/21/19 09:42	1
Endrin aldehyde	0.030	U	0.030	0.024	ug/L		11/19/19 17:11	11/21/19 09:42	1
Endrin ketone	0.030	U	0.030	0.013	ug/L		11/19/19 17:11	11/21/19 09:42	1
Heptachlor	0.030	U	0.030	0.014	ug/L		11/19/19 17:11	11/21/19 09:42	1
Heptachlor epoxide	0.030	U	0.030	0.014	ug/L		11/19/19 17:11	11/21/19 09:42	1
Methoxychlor	0.030	U	0.030	0.030	ug/L		11/19/19 17:11	11/21/19 09:42	1
Toxaphene	0.50	U	0.50	0.20	ug/L		11/19/19 17:11	11/21/19 09:42	1
Aroclor 1016	1.0	U	1.0	0.030	ug/L		11/19/19 17:11	11/21/19 09:42	1
Aroclor 1221	1.0	U	1.0	0.030	ug/L		11/19/19 17:11	11/21/19 09:42	1
Aroclor 1232	1.0	U	1.0	0.030	ug/L		11/19/19 17:11	11/21/19 09:42	1
Aroclor 1242	1.0	U	1.0	0.030	ug/L		11/19/19 17:11	11/21/19 09:42	1
Aroclor 1248	1.0	U	1.0	0.030	ug/L		11/19/19 17:11	11/21/19 09:42	1
Aroclor 1254	1.0	U	1.0	0.037	ug/L		11/19/19 17:11	11/21/19 09:42	1
Aroclor 1260	1.0	U	1.0	0.037	ug/L		11/19/19 17:11	11/21/19 09:42	1
Aroclor 1262	1.0	U	1.0	0.037	ug/L		11/19/19 17:11	11/21/19 09:42	1
Aroclor 1268	1.0	U	1.0	0.037	ug/L		11/19/19 17:11	11/21/19 09:42	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196770-1

Client Sample ID: WSG-GW9-6.0

Lab Sample ID: 460-196770-3

Date Collected: 11/12/19 12:35

Matrix: Water

Date Received: 11/14/19 19:00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	82		10 - 150	11/19/19 17:11	11/21/19 09:42	1
Tetrachloro-m-xylene	78		10 - 150	11/19/19 17:11	11/21/19 09:42	1
DCB Decachlorobiphenyl	74		10 - 150	11/19/19 17:11	11/21/19 09:42	1
DCB Decachlorobiphenyl	81		10 - 150	11/19/19 17:11	11/21/19 09:42	1

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	1.2	U	1.2	0.13	ug/L		11/19/19 21:30	11/21/19 13:11	1
Silvex (2,4,5-TP)	1.2	U	1.2	0.11	ug/L		11/19/19 21:30	11/21/19 13:11	1
2,4,5-T	1.2	U	1.2	0.12	ug/L		11/19/19 21:30	11/21/19 13:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	55		54 - 150	11/19/19 21:30	11/21/19 13:11	1
2,4-Dichlorophenylacetic acid	58		54 - 150	11/19/19 21:30	11/21/19 13:11	1

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	3.40		1.85	0.54	ng/L		11/20/19 06:29	11/22/19 04:10	1
Perfluoroheptanoic acid (PFHpA)	2.85		1.85	0.23	ng/L		11/20/19 06:29	11/22/19 04:10	1
Perfluorooctanoic acid (PFOA)	41.2		1.85	0.78	ng/L		11/20/19 06:29	11/22/19 04:10	1
Perfluorononanoic acid (PFNA)	3.83		1.85	0.25	ng/L		11/20/19 06:29	11/22/19 04:10	1
Perfluorodecanoic acid (PFDA)	1.13	J	1.85	0.29	ng/L		11/20/19 06:29	11/22/19 04:10	1
Perfluoroundecanoic acid (PFUnA)	1.85	U	1.85	1.02	ng/L		11/20/19 06:29	11/22/19 04:10	1
Perfluorododecanoic acid (PFDoA)	1.85	U	1.85	0.51	ng/L		11/20/19 06:29	11/22/19 04:10	1
Perfluorotridecanoic acid (PFTriA)	1.85	U	1.85	1.20	ng/L		11/20/19 06:29	11/22/19 04:10	1
Perfluorotetradecanoic acid (PFTeA)	1.85	U	1.85	0.27	ng/L		11/20/19 06:29	11/22/19 04:10	1
Perfluorobutanesulfonic acid (PFBS)	0.84	J	1.85	0.18	ng/L		11/20/19 06:29	11/22/19 04:10	1
Perfluorohexanesulfonic acid (PFHxS)	21.8	B	1.85	0.16	ng/L		11/20/19 06:29	11/22/19 04:10	1
Perfluorooctanesulfonic acid (PFOS)	238		1.85	0.50	ng/L		11/20/19 06:29	11/22/19 04:10	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	18.5	U	18.5	1.75	ng/L		11/20/19 06:29	11/22/19 04:10	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	18.5	U	18.5	2.86	ng/L		11/20/19 06:29	11/22/19 04:10	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFHxA	88		25 - 150	11/20/19 06:29	11/22/19 04:10	1
13C4 PFHpA	93		25 - 150	11/20/19 06:29	11/22/19 04:10	1
13C4 PFOA	95		25 - 150	11/20/19 06:29	11/22/19 04:10	1
13C5 PFNA	91		25 - 150	11/20/19 06:29	11/22/19 04:10	1
13C2 PFDA	93		25 - 150	11/20/19 06:29	11/22/19 04:10	1
13C2 PFUnA	96		25 - 150	11/20/19 06:29	11/22/19 04:10	1
13C2 PFDoA	90		25 - 150	11/20/19 06:29	11/22/19 04:10	1
13C2 PFTeDA	85		25 - 150	11/20/19 06:29	11/22/19 04:10	1
18O2 PFHxS	108		25 - 150	11/20/19 06:29	11/22/19 04:10	1
13C4 PFOS	91		25 - 150	11/20/19 06:29	11/22/19 04:10	1
d3-NMeFOSAA	85		25 - 150	11/20/19 06:29	11/22/19 04:10	1
d5-NEtFOSAA	93		25 - 150	11/20/19 06:29	11/22/19 04:10	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196770-1

Client Sample ID: WSG-GW9-6.0

Lab Sample ID: 460-196770-3

Date Collected: 11/12/19 12:35

Matrix: Water

Date Received: 11/14/19 19:00

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	66700		150	34.2	ug/L		11/22/19 22:10	11/23/19 15:40	1
Silver	10.0	U	10.0	1.1	ug/L		11/22/19 22:10	11/23/19 15:40	1
Aluminum	425		200	28.6	ug/L		11/22/19 22:10	11/23/19 15:40	1
Arsenic	15.0	U	15.0	2.7	ug/L		11/22/19 22:10	11/23/19 15:40	1
Boron	35.4	J	50.0	12.7	ug/L		11/22/19 22:10	11/23/19 15:40	1
Barium	94.9	J	200	7.7	ug/L		11/22/19 22:10	11/23/19 15:40	1
Beryllium	2.0	U	2.0	0.23	ug/L		11/22/19 22:10	11/23/19 15:40	1
Calcium	59200		5000	222	ug/L		11/22/19 22:10	11/23/19 15:40	1
Cadmium	0.46	J	4.0	0.22	ug/L		11/22/19 22:10	11/23/19 15:40	1
Cobalt	14.3	J	50.0	1.7	ug/L		11/22/19 22:10	11/23/19 15:40	1
Chromium	3.5	J	10.0	1.3	ug/L		11/22/19 22:10	11/23/19 15:40	1
Copper	25.0	U	25.0	5.1	ug/L		11/22/19 22:10	11/23/19 15:40	1
Potassium	15700		5000	323	ug/L		11/22/19 22:10	11/23/19 15:40	1
Magnesium	8230		5000	177	ug/L		11/22/19 22:10	11/23/19 15:40	1
Manganese	1720		15.0	0.99	ug/L		11/22/19 22:10	11/23/19 15:40	1
Molybdenum	20.0	U	20.0	3.3	ug/L		11/22/19 22:10	11/23/19 15:40	1
Sodium	3340	J	5000	460	ug/L		11/22/19 22:10	11/23/19 15:40	1
Nickel	6.2	J	40.0	1.7	ug/L		11/22/19 22:10	11/23/19 15:40	1
Lead	9.2	J	10.0	2.5	ug/L		11/22/19 22:10	11/23/19 15:40	1
Antimony	20.0	U	20.0	2.9	ug/L		11/22/19 22:10	11/23/19 15:40	1
Selenium	20.0	U	20.0	6.6	ug/L		11/22/19 22:10	11/23/19 15:40	1
Tin	50.0	U	50.0	2.4	ug/L		11/22/19 22:10	11/23/19 15:40	1
Strontium	163		20.0	0.70	ug/L		11/22/19 22:10	11/23/19 15:40	1
Titanium	16.1	J	20.0	2.0	ug/L		11/22/19 22:10	11/23/19 15:40	1
Thallium	20.0	U	20.0	5.4	ug/L		11/22/19 22:10	11/23/19 15:40	1
Vanadium	50.0	U	50.0	2.5	ug/L		11/22/19 22:10	11/23/19 15:40	1
Zinc	33.7		30.0	3.6	ug/L		11/22/19 22:10	11/23/19 15:40	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.12	ug/L		11/26/19 03:05	11/26/19 07:21	1

Client Sample ID: WSG-EB-SAMPLER-20191112

Lab Sample ID: 460-196770-4

Date Collected: 11/12/19 13:30

Matrix: Water

Date Received: 11/14/19 19:00

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	1.74	U	1.74	0.50	ng/L		11/20/19 06:29	11/22/19 04:19	1
Perfluoroheptanoic acid (PFHpA)	1.74	U	1.74	0.22	ng/L		11/20/19 06:29	11/22/19 04:19	1
Perfluorooctanoic acid (PFOA)	1.74	U	1.74	0.74	ng/L		11/20/19 06:29	11/22/19 04:19	1
Perfluorononanoic acid (PFNA)	1.74	U	1.74	0.23	ng/L		11/20/19 06:29	11/22/19 04:19	1
Perfluorodecanoic acid (PFDA)	1.74	U	1.74	0.27	ng/L		11/20/19 06:29	11/22/19 04:19	1
Perfluoroundecanoic acid (PFUnA)	1.74	U	1.74	0.96	ng/L		11/20/19 06:29	11/22/19 04:19	1
Perfluorododecanoic acid (PFDoA)	1.74	U	1.74	0.48	ng/L		11/20/19 06:29	11/22/19 04:19	1
Perfluorotridecanoic acid (PFTriA)	1.74	U	1.74	1.13	ng/L		11/20/19 06:29	11/22/19 04:19	1
Perfluorotetradecanoic acid (PFTeA)	1.74	U	1.74	0.25	ng/L		11/20/19 06:29	11/22/19 04:19	1
Perfluorobutanesulfonic acid (PFBS)	1.74	U	1.74	0.17	ng/L		11/20/19 06:29	11/22/19 04:19	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196770-1

Client Sample ID: WSG-EB-SAMPLER-20191112

Lab Sample ID: 460-196770-4

Date Collected: 11/12/19 13:30

Matrix: Water

Date Received: 11/14/19 19:00

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanesulfonic acid (PFHxS)	0.31	J B	1.74	0.15	ng/L		11/20/19 06:29	11/22/19 04:19	1
Perfluorooctanesulfonic acid (PFOS)	1.74	U	1.74	0.47	ng/L		11/20/19 06:29	11/22/19 04:19	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	17.4	U	17.4	1.65	ng/L		11/20/19 06:29	11/22/19 04:19	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	17.4	U	17.4	2.69	ng/L		11/20/19 06:29	11/22/19 04:19	1
<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C2 PFHxA	104		25 - 150				11/20/19 06:29	11/22/19 04:19	1
13C4 PFHpA	110		25 - 150				11/20/19 06:29	11/22/19 04:19	1
13C4 PFOA	108		25 - 150				11/20/19 06:29	11/22/19 04:19	1
13C5 PFNA	101		25 - 150				11/20/19 06:29	11/22/19 04:19	1
13C2 PFDA	103		25 - 150				11/20/19 06:29	11/22/19 04:19	1
13C2 PFUnA	111		25 - 150				11/20/19 06:29	11/22/19 04:19	1
13C2 PFDoA	105		25 - 150				11/20/19 06:29	11/22/19 04:19	1
13C2 PFTeDA	101		25 - 150				11/20/19 06:29	11/22/19 04:19	1
18O2 PFHxS	121		25 - 150				11/20/19 06:29	11/22/19 04:19	1
13C4 PFOS	107		25 - 150				11/20/19 06:29	11/22/19 04:19	1
d3-NMeFOSAA	84		25 - 150				11/20/19 06:29	11/22/19 04:19	1
d5-NEtFOSAA	113		25 - 150				11/20/19 06:29	11/22/19 04:19	1

Client Sample ID: WSG-C3-COMP-O

Lab Sample ID: 460-196770-5

Date Collected: 11/12/19 13:00

Matrix: Solid

Date Received: 11/14/19 19:00

Percent Solids: 85.1

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.2	U	1.2	0.28	ug/Kg	☼	11/19/19 02:55	11/21/19 10:31	1
1,1,2,2-Tetrachloroethane	1.2	U	1.2	0.25	ug/Kg	☼	11/19/19 02:55	11/21/19 10:31	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.2	U	1.2	0.36	ug/Kg	☼	11/19/19 02:55	11/21/19 10:31	1
1,1,2-Trichloroethane	1.2	U	1.2	0.21	ug/Kg	☼	11/19/19 02:55	11/21/19 10:31	1
1,1-Dichloroethane	1.2	U	1.2	0.25	ug/Kg	☼	11/19/19 02:55	11/21/19 10:31	1
1,1-Dichloroethene	1.2	U	1.2	0.27	ug/Kg	☼	11/19/19 02:55	11/21/19 10:31	1
1,2,4-Trichlorobenzene	1.2	U	1.2	0.43	ug/Kg	☼	11/19/19 02:55	11/21/19 10:31	1
1,2-Dibromo-3-Chloropropane	1.2	U	1.2	0.55	ug/Kg	☼	11/19/19 02:55	11/21/19 10:31	1
1,2-Dichlorobenzene	1.2	U	1.2	0.17	ug/Kg	☼	11/19/19 02:55	11/21/19 10:31	1
1,2-Dichloroethane	1.2	U	1.2	0.35	ug/Kg	☼	11/19/19 02:55	11/21/19 10:31	1
1,2-Dichloropropane	1.2	U	1.2	0.50	ug/Kg	☼	11/19/19 02:55	11/21/19 10:31	1
1,3-Dichlorobenzene	1.2	U	1.2	0.19	ug/Kg	☼	11/19/19 02:55	11/21/19 10:31	1
1,4-Dichlorobenzene	1.2	U	1.2	0.27	ug/Kg	☼	11/19/19 02:55	11/21/19 10:31	1
2-Butanone (MEK)	5.9	U	5.9	3.2	ug/Kg	☼	11/19/19 02:55	11/21/19 10:31	1
2-Hexanone	5.9	U	5.9	2.0	ug/Kg	☼	11/19/19 02:55	11/21/19 10:31	1
4-Methyl-2-pentanone (MIBK)	5.9	U	5.9	1.9	ug/Kg	☼	11/19/19 02:55	11/21/19 10:31	1
Acetone	7.1	U	7.1	6.8	ug/Kg	☼	11/19/19 02:55	11/21/19 10:31	1
Benzene	1.2	U	1.2	0.31	ug/Kg	☼	11/19/19 02:55	11/21/19 10:31	1
Bromoform	1.2	U	1.2	0.51	ug/Kg	☼	11/19/19 02:55	11/21/19 10:31	1
Bromomethane	1.2	U	1.2	0.56	ug/Kg	☼	11/19/19 02:55	11/21/19 10:31	1
Carbon disulfide	1.2	U	1.2	0.32	ug/Kg	☼	11/19/19 02:55	11/21/19 10:31	1
Carbon tetrachloride	1.2	U	1.2	0.46	ug/Kg	☼	11/19/19 02:55	11/21/19 10:31	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196770-1

Client Sample ID: WSG-C3-COMP-O

Lab Sample ID: 460-196770-5

Date Collected: 11/12/19 13:00

Matrix: Solid

Date Received: 11/14/19 19:00

Percent Solids: 85.1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	1.2	U	1.2	0.21	ug/Kg	☼	11/19/19 02:55	11/21/19 10:31	1
Chlorodibromomethane	1.2	U	1.2	0.23	ug/Kg	☼	11/19/19 02:55	11/21/19 10:31	1
Chloroethane	1.2	U	1.2	0.62	ug/Kg	☼	11/19/19 02:55	11/21/19 10:31	1
Chloroform	1.2	U	1.2	0.38	ug/Kg	☼	11/19/19 02:55	11/21/19 10:31	1
Chloromethane	1.2	U	1.2	0.52	ug/Kg	☼	11/19/19 02:55	11/21/19 10:31	1
cis-1,2-Dichloroethene	1.2	U	1.2	0.18	ug/Kg	☼	11/19/19 02:55	11/21/19 10:31	1
cis-1,3-Dichloropropene	1.2	U	1.2	0.32	ug/Kg	☼	11/19/19 02:55	11/21/19 10:31	1
Cyclohexane	1.2	U	1.2	0.26	ug/Kg	☼	11/19/19 02:55	11/21/19 10:31	1
Dichlorobromomethane	1.2	U	1.2	0.31	ug/Kg	☼	11/19/19 02:55	11/21/19 10:31	1
Dichlorodifluoromethane	1.2	U	1.2	0.40	ug/Kg	☼	11/19/19 02:55	11/21/19 10:31	1
Ethylbenzene	1.2	U	1.2	0.24	ug/Kg	☼	11/19/19 02:55	11/21/19 10:31	1
Ethylene Dibromide	1.2	U	1.2	0.21	ug/Kg	☼	11/19/19 02:55	11/21/19 10:31	1
Isopropylbenzene	1.2	U	1.2	0.15	ug/Kg	☼	11/19/19 02:55	11/21/19 10:31	1
Methyl acetate	5.9	U *	5.9	5.1	ug/Kg	☼	11/19/19 02:55	11/21/19 10:31	1
Methyl tert-butyl ether	1.2	U	1.2	0.15	ug/Kg	☼	11/19/19 02:55	11/21/19 10:31	1
Methylcyclohexane	1.2	U	1.2	0.59	ug/Kg	☼	11/19/19 02:55	11/21/19 10:31	1
Methylene Chloride	1.2	U	1.2	0.55	ug/Kg	☼	11/19/19 02:55	11/21/19 10:31	1
Styrene	1.2	U	1.2	0.33	ug/Kg	☼	11/19/19 02:55	11/21/19 10:31	1
Tetrachloroethene	1.2	U	1.2	0.17	ug/Kg	☼	11/19/19 02:55	11/21/19 10:31	1
Toluene	0.53	J B	1.2	0.28	ug/Kg	☼	11/19/19 02:55	11/21/19 10:31	1
trans-1,2-Dichloroethene	1.2	U	1.2	0.29	ug/Kg	☼	11/19/19 02:55	11/21/19 10:31	1
trans-1,3-Dichloropropene	1.2	U	1.2	0.32	ug/Kg	☼	11/19/19 02:55	11/21/19 10:31	1
Trichloroethene	1.2	U	1.2	0.17	ug/Kg	☼	11/19/19 02:55	11/21/19 10:31	1
Trichlorofluoromethane	1.2	U	1.2	0.48	ug/Kg	☼	11/19/19 02:55	11/21/19 10:31	1
Vinyl chloride	1.2	U	1.2	0.65	ug/Kg	☼	11/19/19 02:55	11/21/19 10:31	1
Xylenes, Total	0.81	J B	2.4	0.21	ug/Kg	☼	11/19/19 02:55	11/21/19 10:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		78 - 135	11/19/19 02:55	11/21/19 10:31	1
4-Bromofluorobenzene	104		67 - 126	11/19/19 02:55	11/21/19 10:31	1
Dibromofluoromethane (Surr)	99		61 - 149	11/19/19 02:55	11/21/19 10:31	1
Toluene-d8 (Surr)	94		73 - 121	11/19/19 02:55	11/21/19 10:31	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	390	U	390	5.2	ug/Kg	☼	11/20/19 09:19	11/21/19 06:47	1
2,2'-oxybis[1-chloropropane]	390	U	390	7.0	ug/Kg	☼	11/20/19 09:19	11/21/19 06:47	1
2,4,5-Trichlorophenol	390	U	390	40	ug/Kg	☼	11/20/19 09:19	11/21/19 06:47	1
2,4,6-Trichlorophenol	160	U	160	50	ug/Kg	☼	11/20/19 09:19	11/21/19 06:47	1
2,4-Dichlorophenol	160	U	160	25	ug/Kg	☼	11/20/19 09:19	11/21/19 06:47	1
2,4-Dimethylphenol	390	U	390	17	ug/Kg	☼	11/20/19 09:19	11/21/19 06:47	1
2,4-Dinitrophenol	310	U	310	190	ug/Kg	☼	11/20/19 09:19	11/21/19 06:47	1
2,4-Dinitrotoluene	79	U	79	42	ug/Kg	☼	11/20/19 09:19	11/21/19 06:47	1
2,6-Dinitrotoluene	79	U	79	28	ug/Kg	☼	11/20/19 09:19	11/21/19 06:47	1
2-Chloronaphthalene	390	U	390	18	ug/Kg	☼	11/20/19 09:19	11/21/19 06:47	1
2-Chlorophenol	390	U	390	14	ug/Kg	☼	11/20/19 09:19	11/21/19 06:47	1
2-Methylnaphthalene	390	U	390	11	ug/Kg	☼	11/20/19 09:19	11/21/19 06:47	1
2-Methylphenol	390	U	390	15	ug/Kg	☼	11/20/19 09:19	11/21/19 06:47	1
2-Nitroaniline	390	U	390	15	ug/Kg	☼	11/20/19 09:19	11/21/19 06:47	1

Eurofins TestAmerica, Edison

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196770-1

Client Sample ID: WSG-C3-COMP-O

Lab Sample ID: 460-196770-5

Date Collected: 11/12/19 13:00

Matrix: Solid

Date Received: 11/14/19 19:00

Percent Solids: 85.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Nitrophenol	390	U	390	39	ug/Kg	☒	11/20/19 09:19	11/21/19 06:47	1
3,3'-Dichlorobenzidine	160	U *	160	59	ug/Kg	☒	11/20/19 09:19	11/21/19 06:47	1
3-Nitroaniline	390	U	390	44	ug/Kg	☒	11/20/19 09:19	11/21/19 06:47	1
4,6-Dinitro-2-methylphenol	310	U	310	63	ug/Kg	☒	11/20/19 09:19	11/21/19 06:47	1
4-Bromophenyl phenyl ether	390	U	390	15	ug/Kg	☒	11/20/19 09:19	11/21/19 06:47	1
4-Chloro-3-methylphenol	390	U	390	22	ug/Kg	☒	11/20/19 09:19	11/21/19 06:47	1
4-Chloroaniline	390	U	390	27	ug/Kg	☒	11/20/19 09:19	11/21/19 06:47	1
4-Chlorophenyl phenyl ether	390	U	390	14	ug/Kg	☒	11/20/19 09:19	11/21/19 06:47	1
4-Methylphenol	390	U	390	24	ug/Kg	☒	11/20/19 09:19	11/21/19 06:47	1
4-Nitroaniline	390	U	390	45	ug/Kg	☒	11/20/19 09:19	11/21/19 06:47	1
4-Nitrophenol	790	U	790	63	ug/Kg	☒	11/20/19 09:19	11/21/19 06:47	1
Acenaphthene	390	U	390	28	ug/Kg	☒	11/20/19 09:19	11/21/19 06:47	1
Acenaphthylene	390	U	390	4.0	ug/Kg	☒	11/20/19 09:19	11/21/19 06:47	1
Acetophenone	390	U	390	19	ug/Kg	☒	11/20/19 09:19	11/21/19 06:47	1
Anthracene	390	U	390	12	ug/Kg	☒	11/20/19 09:19	11/21/19 06:47	1
Atrazine	160	U	160	9.8	ug/Kg	☒	11/20/19 09:19	11/21/19 06:47	1
Benzaldehyde	390	U	390	17	ug/Kg	☒	11/20/19 09:19	11/21/19 06:47	1
Benzo[a]anthracene	39	U	39	14	ug/Kg	☒	11/20/19 09:19	11/21/19 06:47	1
Benzo[a]pyrene	39	U	39	10	ug/Kg	☒	11/20/19 09:19	11/21/19 06:47	1
Benzo[b]fluoranthene	11	J	39	10	ug/Kg	☒	11/20/19 09:19	11/21/19 06:47	1
Benzo[g,h,i]perylene	390	U	390	11	ug/Kg	☒	11/20/19 09:19	11/21/19 06:47	1
Benzo[k]fluoranthene	39	U	39	7.6	ug/Kg	☒	11/20/19 09:19	11/21/19 06:47	1
Bis(2-chloroethoxy)methane	390	U	390	30	ug/Kg	☒	11/20/19 09:19	11/21/19 06:47	1
Bis(2-chloroethyl)ether	39	U	39	14	ug/Kg	☒	11/20/19 09:19	11/21/19 06:47	1
Bis(2-ethylhexyl) phthalate	390	U	390	21	ug/Kg	☒	11/20/19 09:19	11/21/19 06:47	1
Butyl benzyl phthalate	390	U	390	18	ug/Kg	☒	11/20/19 09:19	11/21/19 06:47	1
Caprolactam	390	U	390	61	ug/Kg	☒	11/20/19 09:19	11/21/19 06:47	1
Carbazole	390	U	390	15	ug/Kg	☒	11/20/19 09:19	11/21/19 06:47	1
Chrysene	390	U	390	6.6	ug/Kg	☒	11/20/19 09:19	11/21/19 06:47	1
Dibenz(a,h)anthracene	39	U	39	17	ug/Kg	☒	11/20/19 09:19	11/21/19 06:47	1
Dibenzofuran	390	U	390	5.5	ug/Kg	☒	11/20/19 09:19	11/21/19 06:47	1
Diethyl phthalate	390	U	390	5.6	ug/Kg	☒	11/20/19 09:19	11/21/19 06:47	1
Dimethyl phthalate	390	U	390	88	ug/Kg	☒	11/20/19 09:19	11/21/19 06:47	1
Di-n-butyl phthalate	390	U	390	69	ug/Kg	☒	11/20/19 09:19	11/21/19 06:47	1
Di-n-octyl phthalate	390	U	390	21	ug/Kg	☒	11/20/19 09:19	11/21/19 06:47	1
Fluoranthene	390	U	390	14	ug/Kg	☒	11/20/19 09:19	11/21/19 06:47	1
Fluorene	390	U	390	5.3	ug/Kg	☒	11/20/19 09:19	11/21/19 06:47	1
Hexachlorobenzene	39	U	39	18	ug/Kg	☒	11/20/19 09:19	11/21/19 06:47	1
Hexachlorobutadiene	79	U	79	8.3	ug/Kg	☒	11/20/19 09:19	11/21/19 06:47	1
Hexachlorocyclopentadiene	390	U	390	34	ug/Kg	☒	11/20/19 09:19	11/21/19 06:47	1
Hexachloroethane	39	U	39	13	ug/Kg	☒	11/20/19 09:19	11/21/19 06:47	1
Indeno[1,2,3-cd]pyrene	39	U	39	15	ug/Kg	☒	11/20/19 09:19	11/21/19 06:47	1
Isophorone	160	U	160	110	ug/Kg	☒	11/20/19 09:19	11/21/19 06:47	1
Naphthalene	390	U	390	6.7	ug/Kg	☒	11/20/19 09:19	11/21/19 06:47	1
Nitrobenzene	39	U	39	9.3	ug/Kg	☒	11/20/19 09:19	11/21/19 06:47	1
N-Nitrosodi-n-propylamine	39	U	39	28	ug/Kg	☒	11/20/19 09:19	11/21/19 06:47	1
N-Nitrosodiphenylamine	390	U	390	7.4	ug/Kg	☒	11/20/19 09:19	11/21/19 06:47	1
Pentachlorophenol	310	U	310	80	ug/Kg	☒	11/20/19 09:19	11/21/19 06:47	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196770-1

Client Sample ID: WSG-C3-COMP-O

Lab Sample ID: 460-196770-5

Date Collected: 11/12/19 13:00

Matrix: Solid

Date Received: 11/14/19 19:00

Percent Solids: 85.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenanthrene	390	U	390	6.8	ug/Kg	☒	11/20/19 09:19	11/21/19 06:47	1
Phenol	390	U	390	14	ug/Kg	☒	11/20/19 09:19	11/21/19 06:47	1
Pyrene	390	U	390	9.7	ug/Kg	☒	11/20/19 09:19	11/21/19 06:47	1
1,4-Dioxane	120	U	120	11	ug/Kg	☒	11/20/19 09:19	11/21/19 06:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	55		10 - 137	11/20/19 09:19	11/21/19 06:47	1
2-Fluorophenol (Surr)	58		20 - 115	11/20/19 09:19	11/21/19 06:47	1
Nitrobenzene-d5 (Surr)	55		25 - 113	11/20/19 09:19	11/21/19 06:47	1
Terphenyl-d14 (Surr)	70		27 - 123	11/20/19 09:19	11/21/19 06:47	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	7.9	U	7.9	1.3	ug/Kg	☒	11/19/19 22:16	11/20/19 07:56	1
4,4'-DDE	11		7.9	0.93	ug/Kg	☒	11/19/19 22:16	11/20/19 07:56	1
4,4'-DDT	11		7.9	1.4	ug/Kg	☒	11/19/19 22:16	11/20/19 07:56	1
Aldrin	7.9	U	7.9	1.2	ug/Kg	☒	11/19/19 22:16	11/20/19 07:56	1
alpha-BHC	2.4	U	2.4	0.80	ug/Kg	☒	11/19/19 22:16	11/20/19 07:56	1
beta-BHC	2.4	U	2.4	0.88	ug/Kg	☒	11/19/19 22:16	11/20/19 07:56	1
Chlordane (technical)	79	U	79	19	ug/Kg	☒	11/19/19 22:16	11/20/19 07:56	1
delta-BHC	2.4	U	2.4	0.48	ug/Kg	☒	11/19/19 22:16	11/20/19 07:56	1
Dieldrin	2.4	U	2.4	1.0	ug/Kg	☒	11/19/19 22:16	11/20/19 07:56	1
Endosulfan I	7.9	U	7.9	1.2	ug/Kg	☒	11/19/19 22:16	11/20/19 07:56	1
Endosulfan II	7.9	U	7.9	2.0	ug/Kg	☒	11/19/19 22:16	11/20/19 07:56	1
Endosulfan sulfate	7.9	U	7.9	0.99	ug/Kg	☒	11/19/19 22:16	11/20/19 07:56	1
Endrin	7.9	U	7.9	1.1	ug/Kg	☒	11/19/19 22:16	11/20/19 07:56	1
Endrin aldehyde	7.9	U	7.9	1.9	ug/Kg	☒	11/19/19 22:16	11/20/19 07:56	1
Endrin ketone	7.9	U	7.9	1.5	ug/Kg	☒	11/19/19 22:16	11/20/19 07:56	1
gamma-BHC (Lindane)	2.4	U	2.4	0.73	ug/Kg	☒	11/19/19 22:16	11/20/19 07:56	1
Heptachlor	7.9	U	7.9	0.93	ug/Kg	☒	11/19/19 22:16	11/20/19 07:56	1
Heptachlor epoxide	7.9	U	7.9	1.2	ug/Kg	☒	11/19/19 22:16	11/20/19 07:56	1
Methoxychlor	7.9	U	7.9	1.8	ug/Kg	☒	11/19/19 22:16	11/20/19 07:56	1
Toxaphene	79	U	79	28	ug/Kg	☒	11/19/19 22:16	11/20/19 07:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	109		49 - 150	11/19/19 22:16	11/20/19 07:56	1
DCB Decachlorobiphenyl	144		49 - 150	11/19/19 22:16	11/20/19 07:56	1
Tetrachloro-m-xylene	110		47 - 150	11/19/19 22:16	11/20/19 07:56	1
Tetrachloro-m-xylene	112		47 - 150	11/19/19 22:16	11/20/19 07:56	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	79	U	79	10	ug/Kg	☒	11/19/19 22:22	11/20/19 19:16	1
Aroclor 1221	79	U	79	10	ug/Kg	☒	11/19/19 22:22	11/20/19 19:16	1
Aroclor 1232	79	U	79	10	ug/Kg	☒	11/19/19 22:22	11/20/19 19:16	1
Aroclor 1242	79	U	79	10	ug/Kg	☒	11/19/19 22:22	11/20/19 19:16	1
Aroclor 1248	79	U	79	10	ug/Kg	☒	11/19/19 22:22	11/20/19 19:16	1
Aroclor 1254	79	U	79	11	ug/Kg	☒	11/19/19 22:22	11/20/19 19:16	1
Aroclor 1260	79	U	79	11	ug/Kg	☒	11/19/19 22:22	11/20/19 19:16	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196770-1

Client Sample ID: WSG-C3-COMP-O

Lab Sample ID: 460-196770-5

Date Collected: 11/12/19 13:00

Matrix: Solid

Date Received: 11/14/19 19:00

Percent Solids: 85.1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1262	79	U	79	11	ug/Kg	☼	11/19/19 22:22	11/20/19 19:16	1
Aroclor 1268	79	U	79	11	ug/Kg	☼	11/19/19 22:22	11/20/19 19:16	1
Polychlorinated biphenyls, Total	79	U	79	11	ug/Kg	☼	11/19/19 22:22	11/20/19 19:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	124		53 - 150	11/19/19 22:22	11/20/19 19:16	1
DCB Decachlorobiphenyl	127		53 - 150	11/19/19 22:22	11/20/19 19:16	1

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	39	U	39	14	ug/Kg	☼	11/20/19 02:56	11/20/19 19:38	1
Silvex (2,4,5-TP)	39	U	39	4.1	ug/Kg	☼	11/20/19 02:56	11/20/19 19:38	1
2,4,5-T	39	U	39	8.3	ug/Kg	☼	11/20/19 02:56	11/20/19 19:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	118		30 - 150	11/20/19 02:56	11/20/19 19:38	1
2,4-Dichlorophenylacetic acid	128		30 - 150	11/20/19 02:56	11/20/19 19:38	1

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	0.22	U	0.22	0.047	ug/Kg	☼	11/22/19 10:16	11/29/19 09:26	1
Perfluoroheptanoic acid (PFHpA)	0.22	U	0.22	0.033	ug/Kg	☼	11/22/19 10:16	11/29/19 09:26	1
Perfluorooctanoic acid (PFOA)	0.22	U	0.22	0.097	ug/Kg	☼	11/22/19 10:16	11/29/19 09:26	1
Perfluorononanoic acid (PFNA)	0.040	J	0.22	0.040	ug/Kg	☼	11/22/19 10:16	11/29/19 09:26	1
Perfluorodecanoic acid (PFDA)	0.040	J	0.22	0.025	ug/Kg	☼	11/22/19 10:16	11/29/19 09:26	1
Perfluoroundecanoic acid (PFUnA)	0.22	U	0.22	0.040	ug/Kg	☼	11/22/19 10:16	11/29/19 09:26	1
Perfluorododecanoic acid (PFDoA)	0.22	U	0.22	0.075	ug/Kg	☼	11/22/19 10:16	11/29/19 09:26	1
Perfluorotridecanoic acid (PFTriA)	0.22	U	0.22	0.057	ug/Kg	☼	11/22/19 10:16	11/29/19 09:26	1
Perfluorotetradecanoic acid (PFTeA)	0.22	U	0.22	0.061	ug/Kg	☼	11/22/19 10:16	11/29/19 09:26	1
Perfluorobutanesulfonic acid (PFBS)	0.22	U	0.22	0.028	ug/Kg	☼	11/22/19 10:16	11/29/19 09:26	1
Perfluorohexanesulfonic acid (PFHxS)	0.22	U	0.22	0.035	ug/Kg	☼	11/22/19 10:16	11/29/19 09:26	1
Perfluorooctanesulfonic acid (PFOS)	0.51	J B	0.56	0.22	ug/Kg	☼	11/22/19 10:16	11/29/19 09:26	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.25	U	2.25	0.42	ug/Kg	☼	11/22/19 10:16	11/29/19 09:26	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.25	U	2.25	0.44	ug/Kg	☼	11/22/19 10:16	11/29/19 09:26	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFHxA	91		25 - 150	11/22/19 10:16	11/29/19 09:26	1
13C4 PFHpA	97		25 - 150	11/22/19 10:16	11/29/19 09:26	1
13C4 PFOA	96		25 - 150	11/22/19 10:16	11/29/19 09:26	1
13C5 PFNA	93		25 - 150	11/22/19 10:16	11/29/19 09:26	1
13C2 PFDA	98		25 - 150	11/22/19 10:16	11/29/19 09:26	1
13C2 PFUnA	95		25 - 150	11/22/19 10:16	11/29/19 09:26	1
13C2 PFDoA	103		25 - 150	11/22/19 10:16	11/29/19 09:26	1
13C2 PFTeA	100		25 - 150	11/22/19 10:16	11/29/19 09:26	1
18O2 PFHxS	101		25 - 150	11/22/19 10:16	11/29/19 09:26	1
13C4 PFOS	93		25 - 150	11/22/19 10:16	11/29/19 09:26	1
d3-NMeFOSAA	66		25 - 150	11/22/19 10:16	11/29/19 09:26	1
d5-NEtFOSAA	67		25 - 150	11/22/19 10:16	11/29/19 09:26	1

Eurofins TestAmerica, Edison

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196770-1

Client Sample ID: WSG-C3-COMP-O

Lab Sample ID: 460-196770-5

Date Collected: 11/12/19 13:00

Matrix: Solid

Date Received: 11/14/19 19:00

Percent Solids: 85.1

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	8420		33.0	16.2	mg/Kg	☼	11/25/19 06:35	11/26/19 13:18	4
Silver	2.2	U	2.2	0.21	mg/Kg	☼	11/25/19 06:35	11/26/19 13:18	4
Aluminum	6680		43.9	12.4	mg/Kg	☼	11/25/19 06:35	11/26/19 13:18	4
Arsenic	8.1		3.3	1.3	mg/Kg	☼	11/25/19 06:35	11/26/19 13:18	4
Boron	5.2	J	11.0	3.0	mg/Kg	☼	11/25/19 06:35	11/26/19 13:18	4
Barium	16.6	J	43.9	2.4	mg/Kg	☼	11/25/19 06:35	11/26/19 13:18	4
Beryllium	0.32	J	0.44	0.098	mg/Kg	☼	11/25/19 06:35	11/26/19 13:18	4
Calcium	512	J	1100	64.7	mg/Kg	☼	11/25/19 06:35	11/26/19 13:18	4
Cadmium	0.88	U	0.88	0.15	mg/Kg	☼	11/25/19 06:35	11/26/19 13:18	4
Cobalt	2.6	J	11.0	1.4	mg/Kg	☼	11/25/19 06:35	11/26/19 13:18	4
Chromium	8.4		2.2	0.39	mg/Kg	☼	11/25/19 06:35	11/26/19 13:18	4
Copper	15.8		5.5	2.9	mg/Kg	☼	11/25/19 06:35	11/26/19 13:18	4
Potassium	336	J	1100	68.3	mg/Kg	☼	11/25/19 06:35	11/26/19 13:18	4
Magnesium	1120		1100	64.1	mg/Kg	☼	11/25/19 06:35	11/26/19 13:18	4
Manganese	92.0		3.3	0.38	mg/Kg	☼	11/25/19 06:35	11/26/19 13:18	4
Molybdenum	4.4	U	4.4	1.0	mg/Kg	☼	11/25/19 06:35	11/26/19 13:18	4
Sodium	1100	U	1100	88.3	mg/Kg	☼	11/25/19 06:35	11/26/19 13:18	4
Nickel	4.9	J	8.8	0.81	mg/Kg	☼	11/25/19 06:35	11/26/19 13:18	4
Lead	25.0		2.2	0.57	mg/Kg	☼	11/25/19 06:35	11/26/19 13:18	4
Antimony	4.4	U	4.4	1.2	mg/Kg	☼	11/25/19 06:35	11/26/19 13:18	4
Selenium	4.4	U	4.4	2.6	mg/Kg	☼	11/25/19 06:35	11/26/19 13:18	4
Tin	11.0	U	11.0	7.1	mg/Kg	☼	11/25/19 06:35	11/26/19 13:18	4
Strontium	3.0	J	4.4	0.44	mg/Kg	☼	11/25/19 06:35	11/26/19 13:18	4
Titanium	354		4.4	0.66	mg/Kg	☼	11/25/19 06:35	11/26/19 13:18	4
Thallium	4.4	U	4.4	0.70	mg/Kg	☼	11/25/19 06:35	11/26/19 13:18	4
Vanadium	12.9		11.0	0.73	mg/Kg	☼	11/25/19 06:35	11/26/19 13:18	4
Zinc	20.7		6.6	5.1	mg/Kg	☼	11/25/19 06:35	11/26/19 13:18	4

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.089		0.019	0.011	mg/Kg	☼	11/25/19 03:32	11/25/19 07:30	1

Client Sample ID: WSG-C4-COMP-O

Lab Sample ID: 460-196770-6

Date Collected: 11/12/19 12:45

Matrix: Solid

Date Received: 11/14/19 19:00

Percent Solids: 88.2

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.2	U	1.2	0.29	ug/Kg	☼	11/19/19 02:56	11/21/19 10:54	1
1,1,2,2-Tetrachloroethane	1.2	U	1.2	0.27	ug/Kg	☼	11/19/19 02:56	11/21/19 10:54	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.2	U	1.2	0.37	ug/Kg	☼	11/19/19 02:56	11/21/19 10:54	1
1,1,2-Trichloroethane	1.2	U	1.2	0.22	ug/Kg	☼	11/19/19 02:56	11/21/19 10:54	1
1,1-Dichloroethane	1.2	U	1.2	0.26	ug/Kg	☼	11/19/19 02:56	11/21/19 10:54	1
1,1-Dichloroethene	1.2	U	1.2	0.28	ug/Kg	☼	11/19/19 02:56	11/21/19 10:54	1
1,2,4-Trichlorobenzene	1.2	U	1.2	0.44	ug/Kg	☼	11/19/19 02:56	11/21/19 10:54	1
1,2-Dibromo-3-Chloropropane	1.2	U	1.2	0.57	ug/Kg	☼	11/19/19 02:56	11/21/19 10:54	1
1,2-Dichlorobenzene	1.2	U	1.2	0.18	ug/Kg	☼	11/19/19 02:56	11/21/19 10:54	1
1,2-Dichloroethane	1.2	U	1.2	0.37	ug/Kg	☼	11/19/19 02:56	11/21/19 10:54	1
1,2-Dichloropropane	1.2	U	1.2	0.53	ug/Kg	☼	11/19/19 02:56	11/21/19 10:54	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196770-1

Client Sample ID: WSG-C4-COMP-O

Lab Sample ID: 460-196770-6

Date Collected: 11/12/19 12:45

Matrix: Solid

Date Received: 11/14/19 19:00

Percent Solids: 88.2

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	1.2	U	1.2	0.20	ug/Kg	☼	11/19/19 02:56	11/21/19 10:54	1
1,4-Dichlorobenzene	1.2	U	1.2	0.28	ug/Kg	☼	11/19/19 02:56	11/21/19 10:54	1
2-Butanone (MEK)	6.2	U	6.2	3.4	ug/Kg	☼	11/19/19 02:56	11/21/19 10:54	1
2-Hexanone	6.2	U	6.2	2.1	ug/Kg	☼	11/19/19 02:56	11/21/19 10:54	1
4-Methyl-2-pentanone (MIBK)	6.2	U	6.2	1.9	ug/Kg	☼	11/19/19 02:56	11/21/19 10:54	1
Acetone	7.5	U	7.5	7.1	ug/Kg	☼	11/19/19 02:56	11/21/19 10:54	1
Benzene	1.2	U	1.2	0.32	ug/Kg	☼	11/19/19 02:56	11/21/19 10:54	1
Bromoform	1.2	U	1.2	0.53	ug/Kg	☼	11/19/19 02:56	11/21/19 10:54	1
Bromomethane	1.2	U	1.2	0.59	ug/Kg	☼	11/19/19 02:56	11/21/19 10:54	1
Carbon disulfide	1.2	U	1.2	0.33	ug/Kg	☼	11/19/19 02:56	11/21/19 10:54	1
Carbon tetrachloride	1.2	U	1.2	0.48	ug/Kg	☼	11/19/19 02:56	11/21/19 10:54	1
Chlorobenzene	1.2	U	1.2	0.22	ug/Kg	☼	11/19/19 02:56	11/21/19 10:54	1
Chlorodibromomethane	1.2	U	1.2	0.24	ug/Kg	☼	11/19/19 02:56	11/21/19 10:54	1
Chloroethane	1.2	U	1.2	0.65	ug/Kg	☼	11/19/19 02:56	11/21/19 10:54	1
Chloroform	1.2	U	1.2	0.40	ug/Kg	☼	11/19/19 02:56	11/21/19 10:54	1
Chloromethane	1.2	U	1.2	0.54	ug/Kg	☼	11/19/19 02:56	11/21/19 10:54	1
cis-1,2-Dichloroethene	1.2	U	1.2	0.19	ug/Kg	☼	11/19/19 02:56	11/21/19 10:54	1
cis-1,3-Dichloropropene	1.2	U	1.2	0.34	ug/Kg	☼	11/19/19 02:56	11/21/19 10:54	1
Cyclohexane	1.2	U	1.2	0.27	ug/Kg	☼	11/19/19 02:56	11/21/19 10:54	1
Dichlorobromomethane	1.2	U	1.2	0.32	ug/Kg	☼	11/19/19 02:56	11/21/19 10:54	1
Dichlorodifluoromethane	1.2	U	1.2	0.42	ug/Kg	☼	11/19/19 02:56	11/21/19 10:54	1
Ethylbenzene	1.2	U	1.2	0.25	ug/Kg	☼	11/19/19 02:56	11/21/19 10:54	1
Ethylene Dibromide	1.2	U	1.2	0.22	ug/Kg	☼	11/19/19 02:56	11/21/19 10:54	1
Isopropylbenzene	1.2	U	1.2	0.16	ug/Kg	☼	11/19/19 02:56	11/21/19 10:54	1
Methyl acetate	6.2	U *	6.2	5.3	ug/Kg	☼	11/19/19 02:56	11/21/19 10:54	1
Methyl tert-butyl ether	1.2	U	1.2	0.16	ug/Kg	☼	11/19/19 02:56	11/21/19 10:54	1
Methylcyclohexane	1.2	U	1.2	0.62	ug/Kg	☼	11/19/19 02:56	11/21/19 10:54	1
Methylene Chloride	1.2	U	1.2	0.58	ug/Kg	☼	11/19/19 02:56	11/21/19 10:54	1
Styrene	1.2	U	1.2	0.35	ug/Kg	☼	11/19/19 02:56	11/21/19 10:54	1
Tetrachloroethene	1.2	U	1.2	0.18	ug/Kg	☼	11/19/19 02:56	11/21/19 10:54	1
Toluene	1.2	U	1.2	0.29	ug/Kg	☼	11/19/19 02:56	11/21/19 10:54	1
trans-1,2-Dichloroethene	1.2	U	1.2	0.31	ug/Kg	☼	11/19/19 02:56	11/21/19 10:54	1
trans-1,3-Dichloropropene	1.2	U	1.2	0.33	ug/Kg	☼	11/19/19 02:56	11/21/19 10:54	1
Trichloroethene	1.2	U	1.2	0.18	ug/Kg	☼	11/19/19 02:56	11/21/19 10:54	1
Trichlorofluoromethane	1.2	U	1.2	0.50	ug/Kg	☼	11/19/19 02:56	11/21/19 10:54	1
Vinyl chloride	1.2	U	1.2	0.68	ug/Kg	☼	11/19/19 02:56	11/21/19 10:54	1
Xylenes, Total	0.37	J B	2.5	0.22	ug/Kg	☼	11/19/19 02:56	11/21/19 10:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	91		78 - 135	11/19/19 02:56	11/21/19 10:54	1
4-Bromofluorobenzene	100		67 - 126	11/19/19 02:56	11/21/19 10:54	1
Dibromofluoromethane (Surr)	95		61 - 149	11/19/19 02:56	11/21/19 10:54	1
Toluene-d8 (Surr)	94		73 - 121	11/19/19 02:56	11/21/19 10:54	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	370	U	370	5.0	ug/Kg	☼	11/20/19 09:19	11/21/19 07:10	1
2,2'-oxybis[1-chloropropane]	370	U	370	6.8	ug/Kg	☼	11/20/19 09:19	11/21/19 07:10	1
2,4,5-Trichlorophenol	370	U	370	38	ug/Kg	☼	11/20/19 09:19	11/21/19 07:10	1

Eurofins TestAmerica, Edison

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196770-1

Client Sample ID: WSG-C4-COMP-O

Lab Sample ID: 460-196770-6

Date Collected: 11/12/19 12:45

Matrix: Solid

Date Received: 11/14/19 19:00

Percent Solids: 88.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,6-Trichlorophenol	150	U	150	48	ug/Kg	☼	11/20/19 09:19	11/21/19 07:10	1
2,4-Dichlorophenol	150	U	150	24	ug/Kg	☼	11/20/19 09:19	11/21/19 07:10	1
2,4-Dimethylphenol	370	U	370	16	ug/Kg	☼	11/20/19 09:19	11/21/19 07:10	1
2,4-Dinitrophenol	300	U	300	180	ug/Kg	☼	11/20/19 09:19	11/21/19 07:10	1
2,4-Dinitrotoluene	76	U	76	40	ug/Kg	☼	11/20/19 09:19	11/21/19 07:10	1
2,6-Dinitrotoluene	76	U	76	27	ug/Kg	☼	11/20/19 09:19	11/21/19 07:10	1
2-Chloronaphthalene	370	U	370	17	ug/Kg	☼	11/20/19 09:19	11/21/19 07:10	1
2-Chlorophenol	370	U	370	13	ug/Kg	☼	11/20/19 09:19	11/21/19 07:10	1
2-Methylnaphthalene	370	U	370	10	ug/Kg	☼	11/20/19 09:19	11/21/19 07:10	1
2-Methylphenol	370	U	370	14	ug/Kg	☼	11/20/19 09:19	11/21/19 07:10	1
2-Nitroaniline	370	U	370	14	ug/Kg	☼	11/20/19 09:19	11/21/19 07:10	1
2-Nitrophenol	370	U	370	38	ug/Kg	☼	11/20/19 09:19	11/21/19 07:10	1
3,3'-Dichlorobenzidine	150	U *	150	57	ug/Kg	☼	11/20/19 09:19	11/21/19 07:10	1
3-Nitroaniline	370	U	370	42	ug/Kg	☼	11/20/19 09:19	11/21/19 07:10	1
4,6-Dinitro-2-methylphenol	300	U	300	61	ug/Kg	☼	11/20/19 09:19	11/21/19 07:10	1
4-Bromophenyl phenyl ether	370	U	370	15	ug/Kg	☼	11/20/19 09:19	11/21/19 07:10	1
4-Chloro-3-methylphenol	370	U	370	21	ug/Kg	☼	11/20/19 09:19	11/21/19 07:10	1
4-Chloroaniline	370	U	370	26	ug/Kg	☼	11/20/19 09:19	11/21/19 07:10	1
4-Chlorophenyl phenyl ether	370	U	370	13	ug/Kg	☼	11/20/19 09:19	11/21/19 07:10	1
4-Methylphenol	370	U	370	23	ug/Kg	☼	11/20/19 09:19	11/21/19 07:10	1
4-Nitroaniline	370	U	370	43	ug/Kg	☼	11/20/19 09:19	11/21/19 07:10	1
4-Nitrophenol	760	U	760	61	ug/Kg	☼	11/20/19 09:19	11/21/19 07:10	1
Acenaphthene	370	U	370	27	ug/Kg	☼	11/20/19 09:19	11/21/19 07:10	1
Acenaphthylene	370	U	370	3.9	ug/Kg	☼	11/20/19 09:19	11/21/19 07:10	1
Acetophenone	370	U	370	18	ug/Kg	☼	11/20/19 09:19	11/21/19 07:10	1
Anthracene	370	U	370	11	ug/Kg	☼	11/20/19 09:19	11/21/19 07:10	1
Atrazine	150	U	150	9.5	ug/Kg	☼	11/20/19 09:19	11/21/19 07:10	1
Benzaldehyde	370	U	370	16	ug/Kg	☼	11/20/19 09:19	11/21/19 07:10	1
Benzo[a]anthracene	14	J	37	13	ug/Kg	☼	11/20/19 09:19	11/21/19 07:10	1
Benzo[a]pyrene	37	U	37	10	ug/Kg	☼	11/20/19 09:19	11/21/19 07:10	1
Benzo[b]fluoranthene	10	J	37	9.7	ug/Kg	☼	11/20/19 09:19	11/21/19 07:10	1
Benzo[g,h,i]perylene	370	U	370	11	ug/Kg	☼	11/20/19 09:19	11/21/19 07:10	1
Benzo[k]fluoranthene	37	U	37	7.4	ug/Kg	☼	11/20/19 09:19	11/21/19 07:10	1
Bis(2-chloroethoxy)methane	370	U	370	29	ug/Kg	☼	11/20/19 09:19	11/21/19 07:10	1
Bis(2-chloroethyl)ether	37	U	37	13	ug/Kg	☼	11/20/19 09:19	11/21/19 07:10	1
Bis(2-ethylhexyl) phthalate	370	U	370	20	ug/Kg	☼	11/20/19 09:19	11/21/19 07:10	1
Butyl benzyl phthalate	370	U	370	18	ug/Kg	☼	11/20/19 09:19	11/21/19 07:10	1
Caprolactam	370	U	370	58	ug/Kg	☼	11/20/19 09:19	11/21/19 07:10	1
Carbazole	370	U	370	14	ug/Kg	☼	11/20/19 09:19	11/21/19 07:10	1
Chrysene	6.6	J	370	6.3	ug/Kg	☼	11/20/19 09:19	11/21/19 07:10	1
Dibenz(a,h)anthracene	37	U	37	16	ug/Kg	☼	11/20/19 09:19	11/21/19 07:10	1
Dibenzofuran	370	U	370	5.3	ug/Kg	☼	11/20/19 09:19	11/21/19 07:10	1
Diethyl phthalate	370	U	370	5.4	ug/Kg	☼	11/20/19 09:19	11/21/19 07:10	1
Dimethyl phthalate	370	U	370	85	ug/Kg	☼	11/20/19 09:19	11/21/19 07:10	1
Di-n-butyl phthalate	370	U	370	66	ug/Kg	☼	11/20/19 09:19	11/21/19 07:10	1
Di-n-octyl phthalate	370	U	370	20	ug/Kg	☼	11/20/19 09:19	11/21/19 07:10	1
Fluoranthene	370	U	370	13	ug/Kg	☼	11/20/19 09:19	11/21/19 07:10	1
Fluorene	370	U	370	5.1	ug/Kg	☼	11/20/19 09:19	11/21/19 07:10	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196770-1

Client Sample ID: WSG-C4-COMP-O

Lab Sample ID: 460-196770-6

Date Collected: 11/12/19 12:45

Matrix: Solid

Date Received: 11/14/19 19:00

Percent Solids: 88.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobenzene	37	U	37	18	ug/Kg	☼	11/20/19 09:19	11/21/19 07:10	1
Hexachlorobutadiene	76	U	76	8.0	ug/Kg	☼	11/20/19 09:19	11/21/19 07:10	1
Hexachlorocyclopentadiene	370	U	370	33	ug/Kg	☼	11/20/19 09:19	11/21/19 07:10	1
Hexachloroethane	37	U	37	13	ug/Kg	☼	11/20/19 09:19	11/21/19 07:10	1
Indeno[1,2,3-cd]pyrene	37	U	37	15	ug/Kg	☼	11/20/19 09:19	11/21/19 07:10	1
Isophorone	150	U	150	110	ug/Kg	☼	11/20/19 09:19	11/21/19 07:10	1
Naphthalene	370	U	370	6.5	ug/Kg	☼	11/20/19 09:19	11/21/19 07:10	1
Nitrobenzene	37	U	37	9.0	ug/Kg	☼	11/20/19 09:19	11/21/19 07:10	1
N-Nitrosodi-n-propylamine	37	U	37	27	ug/Kg	☼	11/20/19 09:19	11/21/19 07:10	1
N-Nitrosodiphenylamine	370	U	370	7.2	ug/Kg	☼	11/20/19 09:19	11/21/19 07:10	1
Pentachlorophenol	300	U	300	77	ug/Kg	☼	11/20/19 09:19	11/21/19 07:10	1
Phenanthrene	370	U	370	6.6	ug/Kg	☼	11/20/19 09:19	11/21/19 07:10	1
Phenol	370	U	370	14	ug/Kg	☼	11/20/19 09:19	11/21/19 07:10	1
Pyrene	13	J	370	9.3	ug/Kg	☼	11/20/19 09:19	11/21/19 07:10	1
1,4-Dioxane	110	U	110	10	ug/Kg	☼	11/20/19 09:19	11/21/19 07:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	48		10 - 137	11/20/19 09:19	11/21/19 07:10	1
2-Fluorophenol (Surr)	62		20 - 115	11/20/19 09:19	11/21/19 07:10	1
Nitrobenzene-d5 (Surr)	45		25 - 113	11/20/19 09:19	11/21/19 07:10	1
Terphenyl-d14 (Surr)	57		27 - 123	11/20/19 09:19	11/21/19 07:10	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	7.6	U	7.6	1.3	ug/Kg	☼	11/19/19 22:16	11/20/19 08:08	1
4,4'-DDE	16		7.6	0.90	ug/Kg	☼	11/19/19 22:16	11/20/19 08:08	1
4,4'-DDT	14		7.6	1.4	ug/Kg	☼	11/19/19 22:16	11/20/19 08:08	1
Aldrin	7.6	U	7.6	1.1	ug/Kg	☼	11/19/19 22:16	11/20/19 08:08	1
alpha-BHC	2.3	U	2.3	0.77	ug/Kg	☼	11/19/19 22:16	11/20/19 08:08	1
beta-BHC	2.3	U	2.3	0.85	ug/Kg	☼	11/19/19 22:16	11/20/19 08:08	1
Chlordane (technical)	76	U	76	18	ug/Kg	☼	11/19/19 22:16	11/20/19 08:08	1
delta-BHC	2.3	U	2.3	0.46	ug/Kg	☼	11/19/19 22:16	11/20/19 08:08	1
Dieldrin	2.3	U	2.3	0.99	ug/Kg	☼	11/19/19 22:16	11/20/19 08:08	1
Endosulfan I	7.6	U	7.6	1.2	ug/Kg	☼	11/19/19 22:16	11/20/19 08:08	1
Endosulfan II	7.6	U	7.6	1.9	ug/Kg	☼	11/19/19 22:16	11/20/19 08:08	1
Endosulfan sulfate	7.6	U	7.6	0.95	ug/Kg	☼	11/19/19 22:16	11/20/19 08:08	1
Endrin	7.6	U	7.6	1.1	ug/Kg	☼	11/19/19 22:16	11/20/19 08:08	1
Endrin aldehyde	7.6	U	7.6	1.8	ug/Kg	☼	11/19/19 22:16	11/20/19 08:08	1
Endrin ketone	7.6	U	7.6	1.5	ug/Kg	☼	11/19/19 22:16	11/20/19 08:08	1
gamma-BHC (Lindane)	2.3	U	2.3	0.70	ug/Kg	☼	11/19/19 22:16	11/20/19 08:08	1
Heptachlor	7.6	U	7.6	0.90	ug/Kg	☼	11/19/19 22:16	11/20/19 08:08	1
Heptachlor epoxide	7.6	U	7.6	1.1	ug/Kg	☼	11/19/19 22:16	11/20/19 08:08	1
Methoxychlor	7.6	U	7.6	1.7	ug/Kg	☼	11/19/19 22:16	11/20/19 08:08	1
Toxaphene	76	U	76	27	ug/Kg	☼	11/19/19 22:16	11/20/19 08:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	97		49 - 150	11/19/19 22:16	11/20/19 08:08	1
DCB Decachlorobiphenyl	126		49 - 150	11/19/19 22:16	11/20/19 08:08	1
Tetrachloro-m-xylene	97		47 - 150	11/19/19 22:16	11/20/19 08:08	1

Eurofins TestAmerica, Edison

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196770-1

Client Sample ID: WSG-C4-COMP-O

Lab Sample ID: 460-196770-6

Date Collected: 11/12/19 12:45

Matrix: Solid

Date Received: 11/14/19 19:00

Percent Solids: 88.2

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	96		47 - 150	11/19/19 22:16	11/20/19 08:08	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	76	U	76	10	ug/Kg	☼	11/19/19 22:22	11/20/19 19:34	1
Aroclor 1221	76	U	76	10	ug/Kg	☼	11/19/19 22:22	11/20/19 19:34	1
Aroclor 1232	76	U	76	10	ug/Kg	☼	11/19/19 22:22	11/20/19 19:34	1
Aroclor 1242	76	U	76	10	ug/Kg	☼	11/19/19 22:22	11/20/19 19:34	1
Aroclor 1248	76	U	76	10	ug/Kg	☼	11/19/19 22:22	11/20/19 19:34	1
Aroclor 1254	76	U	76	10	ug/Kg	☼	11/19/19 22:22	11/20/19 19:34	1
Aroclor 1260	76	U	76	10	ug/Kg	☼	11/19/19 22:22	11/20/19 19:34	1
Aroclor-1262	76	U	76	10	ug/Kg	☼	11/19/19 22:22	11/20/19 19:34	1
Aroclor 1268	76	U	76	10	ug/Kg	☼	11/19/19 22:22	11/20/19 19:34	1
Polychlorinated biphenyls, Total	76	U	76	10	ug/Kg	☼	11/19/19 22:22	11/20/19 19:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	105		53 - 150	11/19/19 22:22	11/20/19 19:34	1
DCB Decachlorobiphenyl	104		53 - 150	11/19/19 22:22	11/20/19 19:34	1

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	38	U	38	14	ug/Kg	☼	11/20/19 02:56	11/20/19 19:52	1
Silvex (2,4,5-TP)	38	U	38	3.9	ug/Kg	☼	11/20/19 02:56	11/20/19 19:52	1
2,4,5-T	38	U	38	8.0	ug/Kg	☼	11/20/19 02:56	11/20/19 19:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	126		30 - 150	11/20/19 02:56	11/20/19 19:52	1
2,4-Dichlorophenylacetic acid	130		30 - 150	11/20/19 02:56	11/20/19 19:52	1

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	0.21	U	0.21	0.045	ug/Kg	☼	11/22/19 10:16	11/29/19 09:36	1
Perfluoroheptanoic acid (PFHpA)	0.21	U	0.21	0.031	ug/Kg	☼	11/22/19 10:16	11/29/19 09:36	1
Perfluorooctanoic acid (PFOA)	0.21	U	0.21	0.092	ug/Kg	☼	11/22/19 10:16	11/29/19 09:36	1
Perfluorononanoic acid (PFNA)	0.047	J	0.21	0.039	ug/Kg	☼	11/22/19 10:16	11/29/19 09:36	1
Perfluorodecanoic acid (PFDA)	0.061	J	0.21	0.024	ug/Kg	☼	11/22/19 10:16	11/29/19 09:36	1
Perfluoroundecanoic acid (PFUnA)	0.042	J	0.21	0.039	ug/Kg	☼	11/22/19 10:16	11/29/19 09:36	1
Perfluorododecanoic acid (PFDoA)	0.21	U	0.21	0.072	ug/Kg	☼	11/22/19 10:16	11/29/19 09:36	1
Perfluorotridecanoic acid (PFTriA)	0.21	U	0.21	0.055	ug/Kg	☼	11/22/19 10:16	11/29/19 09:36	1
Perfluorotetradecanoic acid (PFTeA)	0.21	U	0.21	0.058	ug/Kg	☼	11/22/19 10:16	11/29/19 09:36	1
Perfluorobutanesulfonic acid (PFBS)	0.21	U	0.21	0.027	ug/Kg	☼	11/22/19 10:16	11/29/19 09:36	1
Perfluorohexanesulfonic acid (PFHxS)	0.21	U	0.21	0.033	ug/Kg	☼	11/22/19 10:16	11/29/19 09:36	1
Perfluorooctanesulfonic acid (PFOS)	0.49	J B	0.54	0.21	ug/Kg	☼	11/22/19 10:16	11/29/19 09:36	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.15	U	2.15	0.40	ug/Kg	☼	11/22/19 10:16	11/29/19 09:36	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.15	U	2.15	0.42	ug/Kg	☼	11/22/19 10:16	11/29/19 09:36	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196770-1

Client Sample ID: WSG-C4-COMP-O

Lab Sample ID: 460-196770-6

Date Collected: 11/12/19 12:45

Matrix: Solid

Date Received: 11/14/19 19:00

Percent Solids: 88.2

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFHxA	91		25 - 150	11/22/19 10:16	11/29/19 09:36	1
13C4 PFHpA	97		25 - 150	11/22/19 10:16	11/29/19 09:36	1
13C4 PFOA	96		25 - 150	11/22/19 10:16	11/29/19 09:36	1
13C5 PFNA	96		25 - 150	11/22/19 10:16	11/29/19 09:36	1
13C2 PFDA	98		25 - 150	11/22/19 10:16	11/29/19 09:36	1
13C2 PFUnA	99		25 - 150	11/22/19 10:16	11/29/19 09:36	1
13C2 PFDoA	100		25 - 150	11/22/19 10:16	11/29/19 09:36	1
13C2 PFTeDA	105		25 - 150	11/22/19 10:16	11/29/19 09:36	1
18O2 PFHxS	100		25 - 150	11/22/19 10:16	11/29/19 09:36	1
13C4 PFOS	93		25 - 150	11/22/19 10:16	11/29/19 09:36	1
d3-NMeFOSAA	86		25 - 150	11/22/19 10:16	11/29/19 09:36	1
d5-NEtFOSAA	88		25 - 150	11/22/19 10:16	11/29/19 09:36	1

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	8200		33.7	16.5	mg/Kg	☼	11/25/19 06:35	11/26/19 13:22	4
Silver	2.2	U	2.2	0.21	mg/Kg	☼	11/25/19 06:35	11/26/19 13:22	4
Aluminum	6350		44.9	12.7	mg/Kg	☼	11/25/19 06:35	11/26/19 13:22	4
Arsenic	8.7		3.4	1.3	mg/Kg	☼	11/25/19 06:35	11/26/19 13:22	4
Boron	4.8	J	11.2	3.1	mg/Kg	☼	11/25/19 06:35	11/26/19 13:22	4
Barium	17.0	J	44.9	2.5	mg/Kg	☼	11/25/19 06:35	11/26/19 13:22	4
Beryllium	0.32	J	0.45	0.10	mg/Kg	☼	11/25/19 06:35	11/26/19 13:22	4
Calcium	1010	J	1120	66.1	mg/Kg	☼	11/25/19 06:35	11/26/19 13:22	4
Cadmium	0.90	U	0.90	0.15	mg/Kg	☼	11/25/19 06:35	11/26/19 13:22	4
Cobalt	2.2	J	11.2	1.4	mg/Kg	☼	11/25/19 06:35	11/26/19 13:22	4
Chromium	8.6		2.2	0.40	mg/Kg	☼	11/25/19 06:35	11/26/19 13:22	4
Copper	16.8		5.6	3.0	mg/Kg	☼	11/25/19 06:35	11/26/19 13:22	4
Potassium	348	J	1120	69.8	mg/Kg	☼	11/25/19 06:35	11/26/19 13:22	4
Magnesium	1110	J	1120	65.4	mg/Kg	☼	11/25/19 06:35	11/26/19 13:22	4
Manganese	89.1		3.4	0.39	mg/Kg	☼	11/25/19 06:35	11/26/19 13:22	4
Molybdenum	4.5	U	4.5	1.1	mg/Kg	☼	11/25/19 06:35	11/26/19 13:22	4
Sodium	1120	U	1120	90.2	mg/Kg	☼	11/25/19 06:35	11/26/19 13:22	4
Nickel	4.9	J	9.0	0.82	mg/Kg	☼	11/25/19 06:35	11/26/19 13:22	4
Lead	11.4		2.2	0.59	mg/Kg	☼	11/25/19 06:35	11/26/19 13:22	4
Antimony	4.5	U	4.5	1.2	mg/Kg	☼	11/25/19 06:35	11/26/19 13:22	4
Selenium	4.5	U	4.5	2.7	mg/Kg	☼	11/25/19 06:35	11/26/19 13:22	4
Tin	11.2	U	11.2	7.2	mg/Kg	☼	11/25/19 06:35	11/26/19 13:22	4
Strontium	4.9		4.5	0.45	mg/Kg	☼	11/25/19 06:35	11/26/19 13:22	4
Titanium	318		4.5	0.68	mg/Kg	☼	11/25/19 06:35	11/26/19 13:22	4
Thallium	4.5	U	4.5	0.72	mg/Kg	☼	11/25/19 06:35	11/26/19 13:22	4
Vanadium	12.7		11.2	0.75	mg/Kg	☼	11/25/19 06:35	11/26/19 13:22	4
Zinc	18.3		6.7	5.2	mg/Kg	☼	11/25/19 06:35	11/26/19 13:22	4

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.032		0.017	0.010	mg/Kg	☼	11/25/19 03:32	11/25/19 07:32	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196770-1

Client Sample ID: WSG-GS8-16.5-18.5-0

Lab Sample ID: 460-196770-7

Date Collected: 11/13/19 07:30

Matrix: Solid

Date Received: 11/14/19 19:00

Percent Solids: 78.7

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	0.24	U	0.24	0.050	ug/Kg	☼	11/22/19 10:16	11/29/19 09:46	1
Perfluoroheptanoic acid (PFHpA)	0.24	U	0.24	0.035	ug/Kg	☼	11/22/19 10:16	11/29/19 09:46	1
Perfluorooctanoic acid (PFOA)	0.24	U	0.24	0.10	ug/Kg	☼	11/22/19 10:16	11/29/19 09:46	1
Perfluorononanoic acid (PFNA)	0.24	U	0.24	0.043	ug/Kg	☼	11/22/19 10:16	11/29/19 09:46	1
Perfluorodecanoic acid (PFDA)	0.24	U	0.24	0.026	ug/Kg	☼	11/22/19 10:16	11/29/19 09:46	1
Perfluoroundecanoic acid (PFUnA)	0.24	U	0.24	0.043	ug/Kg	☼	11/22/19 10:16	11/29/19 09:46	1
Perfluorododecanoic acid (PFDoA)	0.24	U	0.24	0.080	ug/Kg	☼	11/22/19 10:16	11/29/19 09:46	1
Perfluorotridecanoic acid (PFTriA)	0.24	U	0.24	0.061	ug/Kg	☼	11/22/19 10:16	11/29/19 09:46	1
Perfluorotetradecanoic acid (PFTeA)	0.24	U	0.24	0.065	ug/Kg	☼	11/22/19 10:16	11/29/19 09:46	1
Perfluorobutanesulfonic acid (PFBS)	0.24	U	0.24	0.030	ug/Kg	☼	11/22/19 10:16	11/29/19 09:46	1
Perfluorohexanesulfonic acid (PFHxS)	0.24	U	0.24	0.037	ug/Kg	☼	11/22/19 10:16	11/29/19 09:46	1
Perfluorooctanesulfonic acid (PFOS)	0.60	U	0.60	0.24	ug/Kg	☼	11/22/19 10:16	11/29/19 09:46	1
N-ethylperfluorooctanesulfonamidoacetic acid (NETFOSAA)	2.39	U	2.39	0.44	ug/Kg	☼	11/22/19 10:16	11/29/19 09:46	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.39	U	2.39	0.47	ug/Kg	☼	11/22/19 10:16	11/29/19 09:46	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFHxA	96		25 - 150	11/22/19 10:16	11/29/19 09:46	1
13C4 PFHpA	103		25 - 150	11/22/19 10:16	11/29/19 09:46	1
13C4 PFOA	100		25 - 150	11/22/19 10:16	11/29/19 09:46	1
13C5 PFNA	95		25 - 150	11/22/19 10:16	11/29/19 09:46	1
13C2 PFDA	98		25 - 150	11/22/19 10:16	11/29/19 09:46	1
13C2 PFUnA	93		25 - 150	11/22/19 10:16	11/29/19 09:46	1
13C2 PFDoA	103		25 - 150	11/22/19 10:16	11/29/19 09:46	1
13C2 PFTeA	114		25 - 150	11/22/19 10:16	11/29/19 09:46	1
18O2 PFHxS	109		25 - 150	11/22/19 10:16	11/29/19 09:46	1
13C4 PFOS	94		25 - 150	11/22/19 10:16	11/29/19 09:46	1
d3-NMeFOSAA	90		25 - 150	11/22/19 10:16	11/29/19 09:46	1
d5-NETFOSAA	91		25 - 150	11/22/19 10:16	11/29/19 09:46	1

Client Sample ID: WSG-GW8-39.0

Lab Sample ID: 460-196770-8

Date Collected: 11/13/19 10:30

Matrix: Water

Date Received: 11/14/19 19:00

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	2.40		1.87	0.54	ng/L		11/20/19 06:29	11/22/19 04:29	1
Perfluoroheptanoic acid (PFHpA)	1.64	J	1.87	0.23	ng/L		11/20/19 06:29	11/22/19 04:29	1
Perfluorooctanoic acid (PFOA)	5.06		1.87	0.79	ng/L		11/20/19 06:29	11/22/19 04:29	1
Perfluorononanoic acid (PFNA)	0.55	J	1.87	0.25	ng/L		11/20/19 06:29	11/22/19 04:29	1
Perfluorodecanoic acid (PFDA)	0.37	J	1.87	0.29	ng/L		11/20/19 06:29	11/22/19 04:29	1
Perfluoroundecanoic acid (PFUnA)	1.87	U	1.87	1.03	ng/L		11/20/19 06:29	11/22/19 04:29	1
Perfluorododecanoic acid (PFDoA)	1.87	U	1.87	0.51	ng/L		11/20/19 06:29	11/22/19 04:29	1
Perfluorotridecanoic acid (PFTriA)	1.87	U	1.87	1.21	ng/L		11/20/19 06:29	11/22/19 04:29	1
Perfluorotetradecanoic acid (PFTeA)	1.87	U	1.87	0.27	ng/L		11/20/19 06:29	11/22/19 04:29	1
Perfluorobutanesulfonic acid (PFBS)	1.36	J	1.87	0.19	ng/L		11/20/19 06:29	11/22/19 04:29	1
Perfluorohexanesulfonic acid (PFHxS)	12.7	B	1.87	0.16	ng/L		11/20/19 06:29	11/22/19 04:29	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196770-1

Client Sample ID: WSG-GW8-39.0

Lab Sample ID: 460-196770-8

Date Collected: 11/13/19 10:30

Matrix: Water

Date Received: 11/14/19 19:00

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	9.14		1.87	0.50	ng/L		11/20/19 06:29	11/22/19 04:29	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	18.7	U	18.7	1.77	ng/L		11/20/19 06:29	11/22/19 04:29	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	18.7	U	18.7	2.89	ng/L		11/20/19 06:29	11/22/19 04:29	1
<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C2 PFHxA	101		25 - 150				11/20/19 06:29	11/22/19 04:29	1
13C4 PFHpA	112		25 - 150				11/20/19 06:29	11/22/19 04:29	1
13C4 PFOA	109		25 - 150				11/20/19 06:29	11/22/19 04:29	1
13C5 PFNA	105		25 - 150				11/20/19 06:29	11/22/19 04:29	1
13C2 PFDA	104		25 - 150				11/20/19 06:29	11/22/19 04:29	1
13C2 PFUnA	111		25 - 150				11/20/19 06:29	11/22/19 04:29	1
13C2 PFDoA	110		25 - 150				11/20/19 06:29	11/22/19 04:29	1
13C2 PFTeDA	94		25 - 150				11/20/19 06:29	11/22/19 04:29	1
18O2 PFHxS	120		25 - 150				11/20/19 06:29	11/22/19 04:29	1
13C4 PFOS	106		25 - 150				11/20/19 06:29	11/22/19 04:29	1
d3-NMeFOSAA	103		25 - 150				11/20/19 06:29	11/22/19 04:29	1
d5-NEtFOSAA	114		25 - 150				11/20/19 06:29	11/22/19 04:29	1

Client Sample ID: WSG-GW8-29.0

Lab Sample ID: 460-196770-9

Date Collected: 11/13/19 11:40

Matrix: Water

Date Received: 11/14/19 19:00

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	3.64		1.89	0.55	ng/L		11/20/19 06:29	11/22/19 04:39	1
Perfluoroheptanoic acid (PFHpA)	2.11		1.89	0.24	ng/L		11/20/19 06:29	11/22/19 04:39	1
Perfluorooctanoic acid (PFOA)	5.80		1.89	0.80	ng/L		11/20/19 06:29	11/22/19 04:39	1
Perfluorononanoic acid (PFNA)	1.24	J	1.89	0.25	ng/L		11/20/19 06:29	11/22/19 04:39	1
Perfluorodecanoic acid (PFDA)	0.73	J	1.89	0.29	ng/L		11/20/19 06:29	11/22/19 04:39	1
Perfluoroundecanoic acid (PFUnA)	1.89	U	1.89	1.04	ng/L		11/20/19 06:29	11/22/19 04:39	1
Perfluorododecanoic acid (PFDoA)	1.89	U	1.89	0.52	ng/L		11/20/19 06:29	11/22/19 04:39	1
Perfluorotridecanoic acid (PFTriA)	1.89	U	1.89	1.23	ng/L		11/20/19 06:29	11/22/19 04:39	1
Perfluorotetradecanoic acid (PFTeA)	1.89	U	1.89	0.27	ng/L		11/20/19 06:29	11/22/19 04:39	1
Perfluorobutanesulfonic acid (PFBS)	0.89	J	1.89	0.19	ng/L		11/20/19 06:29	11/22/19 04:39	1
Perfluorohexanesulfonic acid (PFHxS)	8.29	B	1.89	0.16	ng/L		11/20/19 06:29	11/22/19 04:39	1
Perfluorooctanesulfonic acid (PFOS)	10.9		1.89	0.51	ng/L		11/20/19 06:29	11/22/19 04:39	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	18.9	U	18.9	1.79	ng/L		11/20/19 06:29	11/22/19 04:39	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	18.9	U	18.9	2.93	ng/L		11/20/19 06:29	11/22/19 04:39	1
<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C2 PFHxA	100		25 - 150				11/20/19 06:29	11/22/19 04:39	1
13C4 PFHpA	107		25 - 150				11/20/19 06:29	11/22/19 04:39	1
13C4 PFOA	110		25 - 150				11/20/19 06:29	11/22/19 04:39	1
13C5 PFNA	107		25 - 150				11/20/19 06:29	11/22/19 04:39	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196770-1

Client Sample ID: WSG-GW8-29.0

Lab Sample ID: 460-196770-9

Date Collected: 11/13/19 11:40

Matrix: Water

Date Received: 11/14/19 19:00

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C2 PFDA	106		25 - 150	11/20/19 06:29	11/22/19 04:39	1
13C2 PFUnA	112		25 - 150	11/20/19 06:29	11/22/19 04:39	1
13C2 PFDoA	110		25 - 150	11/20/19 06:29	11/22/19 04:39	1
13C2 PFTeDA	101		25 - 150	11/20/19 06:29	11/22/19 04:39	1
18O2 PFHxS	122		25 - 150	11/20/19 06:29	11/22/19 04:39	1
13C4 PFOS	104		25 - 150	11/20/19 06:29	11/22/19 04:39	1
d3-NMeFOSAA	106		25 - 150	11/20/19 06:29	11/22/19 04:39	1
d5-NEtFOSAA	114		25 - 150	11/20/19 06:29	11/22/19 04:39	1

Client Sample ID: WSG-GW8-19.0

Lab Sample ID: 460-196770-10

Date Collected: 11/13/19 12:15

Matrix: Water

Date Received: 11/14/19 19:00

Method: 8260C - Volatile Organic Compounds by GC/MS

<i>Analyte</i>	<i>Result</i>	<i>Qualifier</i>	<i>RL</i>	<i>MDL</i>	<i>Unit</i>	<i>D</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			11/22/19 05:52	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.37	ug/L			11/22/19 05:52	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			11/22/19 05:52	1
1,1,2-Trichloroethane	1.0	U	1.0	0.43	ug/L			11/22/19 05:52	1
1,1-Dichloroethane	1.0	U	1.0	0.26	ug/L			11/22/19 05:52	1
1,1-Dichloroethene	1.0	U	1.0	0.26	ug/L			11/22/19 05:52	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.37	ug/L			11/22/19 05:52	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.38	ug/L			11/22/19 05:52	1
1,2-Dichlorobenzene	1.0	U	1.0	0.43	ug/L			11/22/19 05:52	1
1,2-Dichloroethane	1.0	U	1.0	0.43	ug/L			11/22/19 05:52	1
1,2-Dichloropropane	1.0	U	1.0	0.35	ug/L			11/22/19 05:52	1
1,3-Dichlorobenzene	1.0	U	1.0	0.34	ug/L			11/22/19 05:52	1
1,4-Dichlorobenzene	1.0	U	1.0	0.33	ug/L			11/22/19 05:52	1
2-Butanone (MEK)	5.0	U	5.0	1.9	ug/L			11/22/19 05:52	1
2-Hexanone	5.0	U	5.0	1.1	ug/L			11/22/19 05:52	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	1.3	ug/L			11/22/19 05:52	1
Acetone	5.0	U	5.0	4.4	ug/L			11/22/19 05:52	1
Benzene	1.0	U	1.0	0.20	ug/L			11/22/19 05:52	1
Bromoform	1.0	U	1.0	0.54	ug/L			11/22/19 05:52	1
Bromomethane	1.0	U	1.0	0.55	ug/L			11/22/19 05:52	1
Carbon disulfide	1.0	U	1.0	0.82	ug/L			11/22/19 05:52	1
Carbon tetrachloride	1.0	U	1.0	0.21	ug/L			11/22/19 05:52	1
Chlorobenzene	1.0	U	1.0	0.38	ug/L			11/22/19 05:52	1
Chlorodibromomethane	1.0	U	1.0	0.28	ug/L			11/22/19 05:52	1
Chloroethane	1.0	U	1.0	0.32	ug/L			11/22/19 05:52	1
Chloroform	1.0	U	1.0	0.33	ug/L			11/22/19 05:52	1
Chloromethane	1.0	U	1.0	0.40	ug/L			11/22/19 05:52	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.22	ug/L			11/22/19 05:52	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.22	ug/L			11/22/19 05:52	1
Cyclohexane	1.0	U	1.0	0.32	ug/L			11/22/19 05:52	1
Dichlorobromomethane	1.0	U	1.0	0.34	ug/L			11/22/19 05:52	1
Dichlorodifluoromethane	1.0	U	1.0	0.31	ug/L			11/22/19 05:52	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			11/22/19 05:52	1
Ethylene Dibromide	1.0	U	1.0	0.50	ug/L			11/22/19 05:52	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196770-1

Client Sample ID: WSG-GW8-19.0

Lab Sample ID: 460-196770-10

Date Collected: 11/13/19 12:15

Matrix: Water

Date Received: 11/14/19 19:00

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	1.0	U	1.0	0.34	ug/L			11/22/19 05:52	1
Methyl acetate	5.0	U	5.0	0.79	ug/L			11/22/19 05:52	1
Methyl tert-butyl ether	1.0	U	1.0	0.47	ug/L			11/22/19 05:52	1
Methylcyclohexane	1.0	U	1.0	0.26	ug/L			11/22/19 05:52	1
Methylene Chloride	1.0	U	1.0	0.32	ug/L			11/22/19 05:52	1
Styrene	1.0	U	1.0	0.42	ug/L			11/22/19 05:52	1
Tetrachloroethene	1.0	U	1.0	0.25	ug/L			11/22/19 05:52	1
Toluene	1.0	U	1.0	0.38	ug/L			11/22/19 05:52	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			11/22/19 05:52	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.49	ug/L			11/22/19 05:52	1
Trichloroethene	1.0	U	1.0	0.31	ug/L			11/22/19 05:52	1
Trichlorofluoromethane	1.0	U	1.0	0.32	ug/L			11/22/19 05:52	1
Vinyl chloride	1.0	U	1.0	0.17	ug/L			11/22/19 05:52	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			11/22/19 05:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	80		74 - 132		11/22/19 05:52	1
4-Bromofluorobenzene	85		77 - 124		11/22/19 05:52	1
Dibromofluoromethane (Surr)	81		72 - 131		11/22/19 05:52	1
Toluene-d8 (Surr)	83		80 - 120		11/22/19 05:52	1

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.40	U	0.40	0.17	ug/L		11/19/19 10:40	11/20/19 10:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	132	*	38 - 125	11/19/19 10:40	11/20/19 10:04	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	10	U	10	1.2	ug/L		11/19/19 10:40	11/20/19 00:39	1
2,2'-oxybis[1-chloropropane]	10	U	10	0.63	ug/L		11/19/19 10:40	11/20/19 00:39	1
2,4,5-Trichlorophenol	10	U	10	0.88	ug/L		11/19/19 10:40	11/20/19 00:39	1
2,4,6-Trichlorophenol	10	U	10	0.86	ug/L		11/19/19 10:40	11/20/19 00:39	1
2,4-Dichlorophenol	10	U	10	1.1	ug/L		11/19/19 10:40	11/20/19 00:39	1
2,4-Dimethylphenol	10	U	10	0.62	ug/L		11/19/19 10:40	11/20/19 00:39	1
2,4-Dinitrophenol	20	U	20	14	ug/L		11/19/19 10:40	11/20/19 00:39	1
2,4-Dinitrotoluene	2.0	U	2.0	1.0	ug/L		11/19/19 10:40	11/20/19 00:39	1
2,6-Dinitrotoluene	2.0	U	2.0	0.83	ug/L		11/19/19 10:40	11/20/19 00:39	1
2-Chloronaphthalene	10	U	10	1.2	ug/L		11/19/19 10:40	11/20/19 00:39	1
2-Chlorophenol	10	U	10	0.38	ug/L		11/19/19 10:40	11/20/19 00:39	1
2-Methylnaphthalene	10	U	10	1.1	ug/L		11/19/19 10:40	11/20/19 00:39	1
2-Methylphenol	10	U	10	0.67	ug/L		11/19/19 10:40	11/20/19 00:39	1
2-Nitroaniline	10	U	10	0.47	ug/L		11/19/19 10:40	11/20/19 00:39	1
2-Nitrophenol	10	U	10	0.75	ug/L		11/19/19 10:40	11/20/19 00:39	1
3,3'-Dichlorobenzidine	10	U	10	1.4	ug/L		11/19/19 10:40	11/20/19 00:39	1
3-Nitroaniline	10	U	10	1.9	ug/L		11/19/19 10:40	11/20/19 00:39	1
4,6-Dinitro-2-methylphenol	20	U	20	13	ug/L		11/19/19 10:40	11/20/19 00:39	1
4-Bromophenyl phenyl ether	10	U	10	0.75	ug/L		11/19/19 10:40	11/20/19 00:39	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196770-1

Client Sample ID: WSG-GW8-19.0

Lab Sample ID: 460-196770-10

Date Collected: 11/13/19 12:15

Matrix: Water

Date Received: 11/14/19 19:00

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chloro-3-methylphenol	10	U	10	0.58	ug/L		11/19/19 10:40	11/20/19 00:39	1
4-Chloroaniline	10	U	10	1.9	ug/L		11/19/19 10:40	11/20/19 00:39	1
4-Chlorophenyl phenyl ether	10	U	10	1.3	ug/L		11/19/19 10:40	11/20/19 00:39	1
4-Methylphenol	10	U	10	0.65	ug/L		11/19/19 10:40	11/20/19 00:39	1
4-Nitroaniline	10	U	10	1.2	ug/L		11/19/19 10:40	11/20/19 00:39	1
4-Nitrophenol	20	U	20	4.0	ug/L		11/19/19 10:40	11/20/19 00:39	1
Acenaphthene	10	U	10	1.1	ug/L		11/19/19 10:40	11/20/19 00:39	1
Acenaphthylene	10	U	10	0.82	ug/L		11/19/19 10:40	11/20/19 00:39	1
Acetophenone	10	U	10	2.3	ug/L		11/19/19 10:40	11/20/19 00:39	1
Anthracene	10	U	10	0.63	ug/L		11/19/19 10:40	11/20/19 00:39	1
Atrazine	2.0	U *	2.0	1.3	ug/L		11/19/19 10:40	11/20/19 00:39	1
Benzaldehyde	10	U	10	2.1	ug/L		11/19/19 10:40	11/20/19 00:39	1
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		11/19/19 10:40	11/20/19 00:39	1
Benzo[a]pyrene	1.0	U	1.0	0.41	ug/L		11/19/19 10:40	11/20/19 00:39	1
Benzo[b]fluoranthene	2.0	U	2.0	0.68	ug/L		11/19/19 10:40	11/20/19 00:39	1
Benzo[g,h,i]perylene	10	U	10	1.4	ug/L		11/19/19 10:40	11/20/19 00:39	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		11/19/19 10:40	11/20/19 00:39	1
Bis(2-chloroethoxy)methane	10	U	10	0.59	ug/L		11/19/19 10:40	11/20/19 00:39	1
Bis(2-chloroethyl)ether	1.0	U	1.0	0.63	ug/L		11/19/19 10:40	11/20/19 00:39	1
Bis(2-ethylhexyl) phthalate	2.0	U	2.0	1.7	ug/L		11/19/19 10:40	11/20/19 00:39	1
Butyl benzyl phthalate	10	U	10	0.85	ug/L		11/19/19 10:40	11/20/19 00:39	1
Caprolactam	10	U	10	0.68	ug/L		11/19/19 10:40	11/20/19 00:39	1
Carbazole	10	U	10	0.68	ug/L		11/19/19 10:40	11/20/19 00:39	1
Chrysene	2.0	U	2.0	0.91	ug/L		11/19/19 10:40	11/20/19 00:39	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		11/19/19 10:40	11/20/19 00:39	1
Dibenzofuran	10	U	10	1.1	ug/L		11/19/19 10:40	11/20/19 00:39	1
Diethyl phthalate	10	U	10	0.98	ug/L		11/19/19 10:40	11/20/19 00:39	1
Dimethyl phthalate	10	U	10	0.77	ug/L		11/19/19 10:40	11/20/19 00:39	1
Di-n-butyl phthalate	10	U	10	0.84	ug/L		11/19/19 10:40	11/20/19 00:39	1
Di-n-octyl phthalate	10	U	10	4.8	ug/L		11/19/19 10:40	11/20/19 00:39	1
Fluoranthene	10	U	10	0.84	ug/L		11/19/19 10:40	11/20/19 00:39	1
Fluorene	10	U	10	0.91	ug/L		11/19/19 10:40	11/20/19 00:39	1
Hexachlorobenzene	1.0	U	1.0	0.40	ug/L		11/19/19 10:40	11/20/19 00:39	1
Hexachlorobutadiene	1.0	U	1.0	0.78	ug/L		11/19/19 10:40	11/20/19 00:39	1
Hexachlorocyclopentadiene	10	U	10	3.6	ug/L		11/19/19 10:40	11/20/19 00:39	1
Hexachloroethane	2.0	U	2.0	0.80	ug/L		11/19/19 10:40	11/20/19 00:39	1
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	0.94	ug/L		11/19/19 10:40	11/20/19 00:39	1
Isophorone	10	U	10	0.80	ug/L		11/19/19 10:40	11/20/19 00:39	1
Naphthalene	10	U	10	1.1	ug/L		11/19/19 10:40	11/20/19 00:39	1
Nitrobenzene	1.0	U	1.0	0.57	ug/L		11/19/19 10:40	11/20/19 00:39	1
N-Nitrosodi-n-propylamine	1.0	U	1.0	0.43	ug/L		11/19/19 10:40	11/20/19 00:39	1
N-Nitrosodiphenylamine	10	U	10	0.89	ug/L		11/19/19 10:40	11/20/19 00:39	1
Pentachlorophenol	20	U	20	1.4	ug/L		11/19/19 10:40	11/20/19 00:39	1
Phenanthrene	10	U	10	0.58	ug/L		11/19/19 10:40	11/20/19 00:39	1
Phenol	10	U	10	0.29	ug/L		11/19/19 10:40	11/20/19 00:39	1
Pyrene	10	U	10	1.6	ug/L		11/19/19 10:40	11/20/19 00:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	86		26 - 139	11/19/19 10:40	11/20/19 00:39	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196770-1

Client Sample ID: WSG-GW8-19.0

Lab Sample ID: 460-196770-10

Date Collected: 11/13/19 12:15

Matrix: Water

Date Received: 11/14/19 19:00

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol (Surr)	41		25 - 58	11/19/19 10:40	11/20/19 00:39	1
Nitrobenzene-d5 (Surr)	87		51 - 108	11/19/19 10:40	11/20/19 00:39	1
Terphenyl-d14 (Surr)	87		40 - 148	11/19/19 10:40	11/20/19 00:39	1
Phenol-d5 (Surr)	25		14 - 39	11/19/19 10:40	11/20/19 00:39	1
2-Fluorobiphenyl	86		45 - 107	11/19/19 10:40	11/20/19 00:39	1

Method: 608.3 - Organochlorine Pesticides/PCBs in Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.020	U	0.020	0.012	ug/L		11/19/19 17:11	11/21/19 09:56	1
alpha-BHC	0.020	U	0.020	0.013	ug/L		11/19/19 17:11	11/21/19 09:56	1
beta-BHC	0.030	U	0.030	0.015	ug/L		11/19/19 17:11	11/21/19 09:56	1
delta-BHC	0.020	U	0.020	0.0090	ug/L		11/19/19 17:11	11/21/19 09:56	1
gamma-BHC (Lindane)	0.030	U	0.030	0.013	ug/L		11/19/19 17:11	11/21/19 09:56	1
Chlordane	0.50	U	0.50	0.093	ug/L		11/19/19 17:11	11/21/19 09:56	1
4,4'-DDD	0.040	U	0.040	0.018	ug/L		11/19/19 17:11	11/21/19 09:56	1
4,4'-DDE	0.030	U *	0.030	0.018	ug/L		11/19/19 17:11	11/21/19 09:56	1
4,4'-DDT	0.030	U	0.030	0.025	ug/L		11/19/19 17:11	11/21/19 09:56	1
Dieldrin	0.020	U *	0.020	0.016	ug/L		11/19/19 17:11	11/21/19 09:56	1
Endosulfan I	0.030	U	0.030	0.014	ug/L		11/19/19 17:11	11/21/19 09:56	1
Endosulfan II	0.030	U	0.030	0.017	ug/L		11/19/19 17:11	11/21/19 09:56	1
Endosulfan sulfate	0.030	U	0.030	0.015	ug/L		11/19/19 17:11	11/21/19 09:56	1
Endrin	0.030	U *	0.030	0.021	ug/L		11/19/19 17:11	11/21/19 09:56	1
Endrin aldehyde	0.030	U	0.030	0.024	ug/L		11/19/19 17:11	11/21/19 09:56	1
Endrin ketone	0.030	U	0.030	0.013	ug/L		11/19/19 17:11	11/21/19 09:56	1
Heptachlor	0.030	U	0.030	0.014	ug/L		11/19/19 17:11	11/21/19 09:56	1
Heptachlor epoxide	0.030	U	0.030	0.014	ug/L		11/19/19 17:11	11/21/19 09:56	1
Methoxychlor	0.030	U	0.030	0.030	ug/L		11/19/19 17:11	11/21/19 09:56	1
Toxaphene	0.50	U	0.50	0.20	ug/L		11/19/19 17:11	11/21/19 09:56	1
Aroclor 1016	1.0	U	1.0	0.030	ug/L		11/19/19 17:11	11/21/19 09:56	1
Aroclor 1221	1.0	U	1.0	0.030	ug/L		11/19/19 17:11	11/21/19 09:56	1
Aroclor 1232	1.0	U	1.0	0.030	ug/L		11/19/19 17:11	11/21/19 09:56	1
Aroclor 1242	1.0	U	1.0	0.030	ug/L		11/19/19 17:11	11/21/19 09:56	1
Aroclor 1248	1.0	U	1.0	0.030	ug/L		11/19/19 17:11	11/21/19 09:56	1
Aroclor 1254	1.0	U	1.0	0.037	ug/L		11/19/19 17:11	11/21/19 09:56	1
Aroclor 1260	1.0	U	1.0	0.037	ug/L		11/19/19 17:11	11/21/19 09:56	1
Aroclor 1262	1.0	U	1.0	0.037	ug/L		11/19/19 17:11	11/21/19 09:56	1
Aroclor 1268	1.0	U	1.0	0.037	ug/L		11/19/19 17:11	11/21/19 09:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	80		10 - 150	11/19/19 17:11	11/21/19 09:56	1
Tetrachloro-m-xylene	79		10 - 150	11/19/19 17:11	11/21/19 09:56	1
DCB Decachlorobiphenyl	67		10 - 150	11/19/19 17:11	11/21/19 09:56	1
DCB Decachlorobiphenyl	72		10 - 150	11/19/19 17:11	11/21/19 09:56	1

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	1.2	U	1.2	0.13	ug/L		11/19/19 21:30	11/20/19 11:49	1
Silvex (2,4,5-TP)	1.2	U	1.2	0.11	ug/L		11/19/19 21:30	11/20/19 11:49	1
2,4,5-T	1.2	U	1.2	0.12	ug/L		11/19/19 21:30	11/20/19 11:49	1

Eurofins TestAmerica, Edison

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196770-1

Client Sample ID: WSG-GW8-19.0

Lab Sample ID: 460-196770-10

Date Collected: 11/13/19 12:15

Matrix: Water

Date Received: 11/14/19 19:00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	57		54 - 150	11/19/19 21:30	11/20/19 11:49	1
2,4-Dichlorophenylacetic acid	60		54 - 150	11/19/19 21:30	11/20/19 11:49	1

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	4.48		1.84	0.53	ng/L		11/20/19 06:29	11/22/19 04:49	1
Perfluoroheptanoic acid (PFHpA)	3.69		1.84	0.23	ng/L		11/20/19 06:29	11/22/19 04:49	1
Perfluorooctanoic acid (PFOA)	7.95		1.84	0.78	ng/L		11/20/19 06:29	11/22/19 04:49	1
Perfluorononanoic acid (PFNA)	3.18		1.84	0.25	ng/L		11/20/19 06:29	11/22/19 04:49	1
Perfluorodecanoic acid (PFDA)	0.64	J	1.84	0.29	ng/L		11/20/19 06:29	11/22/19 04:49	1
Perfluoroundecanoic acid (PFUnA)	1.84	U	1.84	1.01	ng/L		11/20/19 06:29	11/22/19 04:49	1
Perfluorododecanoic acid (PFDoA)	1.84	U	1.84	0.51	ng/L		11/20/19 06:29	11/22/19 04:49	1
Perfluorotridecanoic acid (PFTriA)	1.84	U	1.84	1.20	ng/L		11/20/19 06:29	11/22/19 04:49	1
Perfluorotetradecanoic acid (PFTeA)	1.84	U	1.84	0.27	ng/L		11/20/19 06:29	11/22/19 04:49	1
Perfluorobutanesulfonic acid (PFBS)	1.11	J	1.84	0.18	ng/L		11/20/19 06:29	11/22/19 04:49	1
Perfluorohexanesulfonic acid (PFHxS)	2.15	B	1.84	0.16	ng/L		11/20/19 06:29	11/22/19 04:49	1
Perfluorooctanesulfonic acid (PFOS)	50.5		1.84	0.50	ng/L		11/20/19 06:29	11/22/19 04:49	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	18.4	U	18.4	1.75	ng/L		11/20/19 06:29	11/22/19 04:49	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	18.4	U	18.4	2.86	ng/L		11/20/19 06:29	11/22/19 04:49	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFHxA	99		25 - 150	11/20/19 06:29	11/22/19 04:49	1
13C4 PFHpA	108		25 - 150	11/20/19 06:29	11/22/19 04:49	1
13C4 PFOA	108		25 - 150	11/20/19 06:29	11/22/19 04:49	1
13C5 PFNA	102		25 - 150	11/20/19 06:29	11/22/19 04:49	1
13C2 PFDA	104		25 - 150	11/20/19 06:29	11/22/19 04:49	1
13C2 PFUnA	112		25 - 150	11/20/19 06:29	11/22/19 04:49	1
13C2 PFDoA	106		25 - 150	11/20/19 06:29	11/22/19 04:49	1
13C2 PFTeDA	95		25 - 150	11/20/19 06:29	11/22/19 04:49	1
18O2 PFHxS	121		25 - 150	11/20/19 06:29	11/22/19 04:49	1
13C4 PFOS	102		25 - 150	11/20/19 06:29	11/22/19 04:49	1
d3-NMeFOSAA	105		25 - 150	11/20/19 06:29	11/22/19 04:49	1
d5-NEtFOSAA	111		25 - 150	11/20/19 06:29	11/22/19 04:49	1

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	152		150	34.2	ug/L		11/22/19 22:10	11/23/19 15:44	1
Silver	10.0	U	10.0	1.1	ug/L		11/22/19 22:10	11/23/19 15:44	1
Aluminum	78.4	J	200	28.6	ug/L		11/22/19 22:10	11/23/19 15:44	1
Arsenic	15.0	U	15.0	2.7	ug/L		11/22/19 22:10	11/23/19 15:44	1
Boron	44.4	J	50.0	12.7	ug/L		11/22/19 22:10	11/23/19 15:44	1
Barium	26.8	J	200	7.7	ug/L		11/22/19 22:10	11/23/19 15:44	1
Beryllium	2.0	U	2.0	0.23	ug/L		11/22/19 22:10	11/23/19 15:44	1
Calcium	29200		5000	222	ug/L		11/22/19 22:10	11/23/19 15:44	1
Cadmium	4.0	U	4.0	0.22	ug/L		11/22/19 22:10	11/23/19 15:44	1
Cobalt	50.0	U	50.0	1.7	ug/L		11/22/19 22:10	11/23/19 15:44	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196770-1

Client Sample ID: WSG-GW8-19.0

Lab Sample ID: 460-196770-10

Date Collected: 11/13/19 12:15

Matrix: Water

Date Received: 11/14/19 19:00

Method: 6010D - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	21.7		10.0	1.3	ug/L		11/22/19 22:10	11/23/19 15:44	1
Copper	25.0	U	25.0	5.1	ug/L		11/22/19 22:10	11/23/19 15:44	1
Potassium	65900		5000	323	ug/L		11/22/19 22:10	11/23/19 15:44	1
Magnesium	1400	J	5000	177	ug/L		11/22/19 22:10	11/23/19 15:44	1
Manganese	244		15.0	0.99	ug/L		11/22/19 22:10	11/23/19 15:44	1
Molybdenum	11.9	J	20.0	3.3	ug/L		11/22/19 22:10	11/23/19 15:44	1
Sodium	24300		5000	460	ug/L		11/22/19 22:10	11/23/19 15:44	1
Nickel	1.8	J	40.0	1.7	ug/L		11/22/19 22:10	11/23/19 15:44	1
Lead	10.0	U	10.0	2.5	ug/L		11/22/19 22:10	11/23/19 15:44	1
Antimony	20.0	U	20.0	2.9	ug/L		11/22/19 22:10	11/23/19 15:44	1
Selenium	20.0	U	20.0	6.6	ug/L		11/22/19 22:10	11/23/19 15:44	1
Tin	50.0	U	50.0	2.4	ug/L		11/22/19 22:10	11/23/19 15:44	1
Strontium	155		20.0	0.70	ug/L		11/22/19 22:10	11/23/19 15:44	1
Titanium	4.8	J	20.0	2.0	ug/L		11/22/19 22:10	11/23/19 15:44	1
Thallium	20.0	U	20.0	5.4	ug/L		11/22/19 22:10	11/23/19 15:44	1
Vanadium	50.0	U	50.0	2.5	ug/L		11/22/19 22:10	11/23/19 15:44	1
Zinc	7.5	J	30.0	3.6	ug/L		11/22/19 22:10	11/23/19 15:44	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.12	ug/L		11/26/19 03:05	11/26/19 07:23	1

Client Sample ID: WSG-GS1-6.8-0

Lab Sample ID: 460-196770-11

Date Collected: 11/14/19 07:20

Matrix: Solid

Date Received: 11/14/19 19:00

Percent Solids: 94.9

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	0.20	U	0.20	0.042	ug/Kg	☼	11/22/19 10:16	11/29/19 09:56	1
Perfluoroheptanoic acid (PFHpA)	0.20	U	0.20	0.029	ug/Kg	☼	11/22/19 10:16	11/29/19 09:56	1
Perfluorooctanoic acid (PFOA)	0.20	U	0.20	0.087	ug/Kg	☼	11/22/19 10:16	11/29/19 09:56	1
Perfluorononanoic acid (PFNA)	0.20	U	0.20	0.036	ug/Kg	☼	11/22/19 10:16	11/29/19 09:56	1
Perfluorodecanoic acid (PFDA)	0.20	U	0.20	0.022	ug/Kg	☼	11/22/19 10:16	11/29/19 09:56	1
Perfluoroundecanoic acid (PFUnA)	0.20	U	0.20	0.036	ug/Kg	☼	11/22/19 10:16	11/29/19 09:56	1
Perfluorododecanoic acid (PFDoA)	0.20	U	0.20	0.068	ug/Kg	☼	11/22/19 10:16	11/29/19 09:56	1
Perfluorotridecanoic acid (PFTriA)	0.20	U	0.20	0.052	ug/Kg	☼	11/22/19 10:16	11/29/19 09:56	1
Perfluorotetradecanoic acid (PFTeA)	0.20	U	0.20	0.055	ug/Kg	☼	11/22/19 10:16	11/29/19 09:56	1
Perfluorobutanesulfonic acid (PFBS)	0.20	U	0.20	0.025	ug/Kg	☼	11/22/19 10:16	11/29/19 09:56	1
Perfluorohexanesulfonic acid (PFHxS)	0.20	U	0.20	0.031	ug/Kg	☼	11/22/19 10:16	11/29/19 09:56	1
Perfluorooctanesulfonic acid (PFOS)	0.51	U	0.51	0.20	ug/Kg	☼	11/22/19 10:16	11/29/19 09:56	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.02	U	2.02	0.37	ug/Kg	☼	11/22/19 10:16	11/29/19 09:56	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.02	U	2.02	0.39	ug/Kg	☼	11/22/19 10:16	11/29/19 09:56	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C2 PFHxA	100		25 - 150				11/22/19 10:16	11/29/19 09:56	1
13C4 PFHpA	104		25 - 150				11/22/19 10:16	11/29/19 09:56	1
13C4 PFOA	99		25 - 150				11/22/19 10:16	11/29/19 09:56	1
13C5 PFNA	97		25 - 150				11/22/19 10:16	11/29/19 09:56	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196770-1

Client Sample ID: WSG-GS1-6.8-0

Lab Sample ID: 460-196770-11

Date Collected: 11/14/19 07:20

Matrix: Solid

Date Received: 11/14/19 19:00

Percent Solids: 94.9

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
¹³ C2 PFDA	102		25 - 150	11/22/19 10:16	11/29/19 09:56	1
¹³ C2 PFUnA	98		25 - 150	11/22/19 10:16	11/29/19 09:56	1
¹³ C2 PFDoA	99		25 - 150	11/22/19 10:16	11/29/19 09:56	1
¹³ C2 PFTeDA	99		25 - 150	11/22/19 10:16	11/29/19 09:56	1
¹⁸ O2 PFHxS	111		25 - 150	11/22/19 10:16	11/29/19 09:56	1
¹³ C4 PFOS	95		25 - 150	11/22/19 10:16	11/29/19 09:56	1
d3-NMeFOSAA	76		25 - 150	11/22/19 10:16	11/29/19 09:56	1
d5-NEtFOSAA	73		25 - 150	11/22/19 10:16	11/29/19 09:56	1

Client Sample ID: WSG-TB-20191114

Lab Sample ID: 460-196770-12

Date Collected: 11/14/19 00:00

Matrix: Water

Date Received: 11/14/19 19:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			11/22/19 04:21	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.37	ug/L			11/22/19 04:21	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			11/22/19 04:21	1
1,1,2-Trichloroethane	1.0	U	1.0	0.43	ug/L			11/22/19 04:21	1
1,1-Dichloroethane	1.0	U	1.0	0.26	ug/L			11/22/19 04:21	1
1,1-Dichloroethene	1.0	U	1.0	0.26	ug/L			11/22/19 04:21	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.37	ug/L			11/22/19 04:21	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.38	ug/L			11/22/19 04:21	1
1,2-Dichlorobenzene	1.0	U	1.0	0.43	ug/L			11/22/19 04:21	1
1,2-Dichloroethane	1.0	U	1.0	0.43	ug/L			11/22/19 04:21	1
1,2-Dichloropropane	1.0	U	1.0	0.35	ug/L			11/22/19 04:21	1
1,3-Dichlorobenzene	1.0	U	1.0	0.34	ug/L			11/22/19 04:21	1
1,4-Dichlorobenzene	1.0	U	1.0	0.33	ug/L			11/22/19 04:21	1
2-Butanone (MEK)	5.0	U	5.0	1.9	ug/L			11/22/19 04:21	1
2-Hexanone	5.0	U	5.0	1.1	ug/L			11/22/19 04:21	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	1.3	ug/L			11/22/19 04:21	1
Acetone	5.0	U	5.0	4.4	ug/L			11/22/19 04:21	1
Benzene	1.0	U	1.0	0.20	ug/L			11/22/19 04:21	1
Bromoform	1.0	U	1.0	0.54	ug/L			11/22/19 04:21	1
Bromomethane	1.0	U	1.0	0.55	ug/L			11/22/19 04:21	1
Carbon disulfide	1.0	U	1.0	0.82	ug/L			11/22/19 04:21	1
Carbon tetrachloride	1.0	U	1.0	0.21	ug/L			11/22/19 04:21	1
Chlorobenzene	1.0	U	1.0	0.38	ug/L			11/22/19 04:21	1
Chlorodibromomethane	1.0	U	1.0	0.28	ug/L			11/22/19 04:21	1
Chloroethane	1.0	U	1.0	0.32	ug/L			11/22/19 04:21	1
Chloroform	1.0	U	1.0	0.33	ug/L			11/22/19 04:21	1
Chloromethane	1.0	U	1.0	0.40	ug/L			11/22/19 04:21	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.22	ug/L			11/22/19 04:21	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.22	ug/L			11/22/19 04:21	1
Cyclohexane	1.0	U	1.0	0.32	ug/L			11/22/19 04:21	1
Dichlorobromomethane	1.0	U	1.0	0.34	ug/L			11/22/19 04:21	1
Dichlorodifluoromethane	1.0	U	1.0	0.31	ug/L			11/22/19 04:21	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			11/22/19 04:21	1
Ethylene Dibromide	1.0	U	1.0	0.50	ug/L			11/22/19 04:21	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196770-1

Client Sample ID: WSG-TB-20191114

Lab Sample ID: 460-196770-12

Date Collected: 11/14/19 00:00

Matrix: Water

Date Received: 11/14/19 19:00

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	1.0	U	1.0	0.34	ug/L			11/22/19 04:21	1
Methyl acetate	5.0	U	5.0	0.79	ug/L			11/22/19 04:21	1
Methyl tert-butyl ether	1.0	U	1.0	0.47	ug/L			11/22/19 04:21	1
Methylcyclohexane	1.0	U	1.0	0.26	ug/L			11/22/19 04:21	1
Methylene Chloride	1.0	U	1.0	0.32	ug/L			11/22/19 04:21	1
Styrene	1.0	U	1.0	0.42	ug/L			11/22/19 04:21	1
Tetrachloroethene	1.0	U	1.0	0.25	ug/L			11/22/19 04:21	1
Toluene	1.0	U	1.0	0.38	ug/L			11/22/19 04:21	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			11/22/19 04:21	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.49	ug/L			11/22/19 04:21	1
Trichloroethene	1.0	U	1.0	0.31	ug/L			11/22/19 04:21	1
Trichlorofluoromethane	1.0	U	1.0	0.32	ug/L			11/22/19 04:21	1
Vinyl chloride	1.0	U	1.0	0.17	ug/L			11/22/19 04:21	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			11/22/19 04:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	79		74 - 132		11/22/19 04:21	1
4-Bromofluorobenzene	83		77 - 124		11/22/19 04:21	1
Dibromofluoromethane (Surr)	80		72 - 131		11/22/19 04:21	1
Toluene-d8 (Surr)	81		80 - 120		11/22/19 04:21	1

Client Sample ID: WSG-GW1-29.0

Lab Sample ID: 460-196770-13

Date Collected: 11/14/19 09:45

Matrix: Water

Date Received: 11/14/19 19:00

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	56.8		1.83	0.53	ng/L		11/20/19 06:29	11/22/19 04:58	1
Perfluoroheptanoic acid (PFHpA)	8.65		1.83	0.23	ng/L		11/20/19 06:29	11/22/19 04:58	1
Perfluorooctanoic acid (PFOA)	4.28		1.83	0.78	ng/L		11/20/19 06:29	11/22/19 04:58	1
Perfluorononanoic acid (PFNA)	1.26	J	1.83	0.25	ng/L		11/20/19 06:29	11/22/19 04:58	1
Perfluorodecanoic acid (PFDA)	0.91	J	1.83	0.28	ng/L		11/20/19 06:29	11/22/19 04:58	1
Perfluoroundecanoic acid (PFUnA)	1.83	U	1.83	1.00	ng/L		11/20/19 06:29	11/22/19 04:58	1
Perfluorododecanoic acid (PFDoA)	1.83	U	1.83	0.50	ng/L		11/20/19 06:29	11/22/19 04:58	1
Perfluorotridecanoic acid (PFTriA)	1.83	U	1.83	1.19	ng/L		11/20/19 06:29	11/22/19 04:58	1
Perfluorotetradecanoic acid (PFTeA)	1.83	U	1.83	0.26	ng/L		11/20/19 06:29	11/22/19 04:58	1
Perfluorobutanesulfonic acid (PFBS)	14.6		1.83	0.18	ng/L		11/20/19 06:29	11/22/19 04:58	1
Perfluorohexanesulfonic acid (PFHxS)	4.00	B	1.83	0.16	ng/L		11/20/19 06:29	11/22/19 04:58	1
Perfluorooctanesulfonic acid (PFOS)	6.27		1.83	0.49	ng/L		11/20/19 06:29	11/22/19 04:58	1
N-ethylperfluorooctanesulfonamidoacetic acid (NETFOSAA)	18.3	U	18.3	1.73	ng/L		11/20/19 06:29	11/22/19 04:58	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	18.3	U	18.3	2.83	ng/L		11/20/19 06:29	11/22/19 04:58	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFHxA	102		25 - 150	11/20/19 06:29	11/22/19 04:58	1
13C4 PFHpA	111		25 - 150	11/20/19 06:29	11/22/19 04:58	1
13C4 PFOA	108		25 - 150	11/20/19 06:29	11/22/19 04:58	1

Eurofins TestAmerica, Edison

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196770-1

Client Sample ID: WSG-GW1-29.0

Lab Sample ID: 460-196770-13

Date Collected: 11/14/19 09:45

Matrix: Water

Date Received: 11/14/19 19:00

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C5 PFNA	105		25 - 150	11/20/19 06:29	11/22/19 04:58	1
13C2 PFDA	102		25 - 150	11/20/19 06:29	11/22/19 04:58	1
13C2 PFUnA	103		25 - 150	11/20/19 06:29	11/22/19 04:58	1
13C2 PFDoA	104		25 - 150	11/20/19 06:29	11/22/19 04:58	1
13C2 PFTeDA	89		25 - 150	11/20/19 06:29	11/22/19 04:58	1
18O2 PFHxS	121		25 - 150	11/20/19 06:29	11/22/19 04:58	1
13C4 PFOS	104		25 - 150	11/20/19 06:29	11/22/19 04:58	1
d3-NMeFOSAA	95		25 - 150	11/20/19 06:29	11/22/19 04:58	1
d5-NEtFOSAA	101		25 - 150	11/20/19 06:29	11/22/19 04:58	1

Client Sample ID: WSG-GW1-19.0

Lab Sample ID: 460-196770-14

Date Collected: 11/14/19 10:40

Matrix: Water

Date Received: 11/14/19 19:00

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	0.95	J	1.81	0.52	ng/L		11/20/19 06:29	11/22/19 05:08	1
Perfluoroheptanoic acid (PFHpA)	0.60	J	1.81	0.23	ng/L		11/20/19 06:29	11/22/19 05:08	1
Perfluorooctanoic acid (PFOA)	0.89	J	1.81	0.77	ng/L		11/20/19 06:29	11/22/19 05:08	1
Perfluorononanoic acid (PFNA)	0.93	J	1.81	0.24	ng/L		11/20/19 06:29	11/22/19 05:08	1
Perfluorodecanoic acid (PFDA)	1.81	U	1.81	0.28	ng/L		11/20/19 06:29	11/22/19 05:08	1
Perfluoroundecanoic acid (PFUnA)	8.99		1.81	0.99	ng/L		11/20/19 06:29	11/22/19 05:08	1
Perfluorododecanoic acid (PFDoA)	1.81	U	1.81	0.50	ng/L		11/20/19 06:29	11/22/19 05:08	1
Perfluorotridecanoic acid (PFTriA)	1.81	U	1.81	1.18	ng/L		11/20/19 06:29	11/22/19 05:08	1
Perfluorotetradecanoic acid (PFTeA)	1.81	U	1.81	0.26	ng/L		11/20/19 06:29	11/22/19 05:08	1
Perfluorobutanesulfonic acid (PFBS)	1.81	U	1.81	0.18	ng/L		11/20/19 06:29	11/22/19 05:08	1
Perfluorohexanesulfonic acid (PFHxS)	1.42	J B	1.81	0.15	ng/L		11/20/19 06:29	11/22/19 05:08	1
Perfluorooctanesulfonic acid (PFOS)	5.43		1.81	0.49	ng/L		11/20/19 06:29	11/22/19 05:08	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	18.1	U	18.1	1.72	ng/L		11/20/19 06:29	11/22/19 05:08	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	18.1	U	18.1	2.80	ng/L		11/20/19 06:29	11/22/19 05:08	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFHxA	106		25 - 150	11/20/19 06:29	11/22/19 05:08	1
13C4 PFHpA	111		25 - 150	11/20/19 06:29	11/22/19 05:08	1
13C4 PFOA	107		25 - 150	11/20/19 06:29	11/22/19 05:08	1
13C5 PFNA	101		25 - 150	11/20/19 06:29	11/22/19 05:08	1
13C2 PFDA	104		25 - 150	11/20/19 06:29	11/22/19 05:08	1
13C2 PFUnA	109		25 - 150	11/20/19 06:29	11/22/19 05:08	1
13C2 PFDoA	105		25 - 150	11/20/19 06:29	11/22/19 05:08	1
13C2 PFTeDA	100		25 - 150	11/20/19 06:29	11/22/19 05:08	1
18O2 PFHxS	124		25 - 150	11/20/19 06:29	11/22/19 05:08	1
13C4 PFOS	102		25 - 150	11/20/19 06:29	11/22/19 05:08	1
d3-NMeFOSAA	97		25 - 150	11/20/19 06:29	11/22/19 05:08	1
d5-NEtFOSAA	102		25 - 150	11/20/19 06:29	11/22/19 05:08	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196770-1

Client Sample ID: WSG-GW1-9.0

Lab Sample ID: 460-196770-15

Date Collected: 11/14/19 11:20

Matrix: Water

Date Received: 11/14/19 19:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			11/22/19 06:15	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.37	ug/L			11/22/19 06:15	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			11/22/19 06:15	1
1,1,2-Trichloroethane	1.0	U	1.0	0.43	ug/L			11/22/19 06:15	1
1,1-Dichloroethane	1.0	U	1.0	0.26	ug/L			11/22/19 06:15	1
1,1-Dichloroethene	1.0	U	1.0	0.26	ug/L			11/22/19 06:15	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.37	ug/L			11/22/19 06:15	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.38	ug/L			11/22/19 06:15	1
1,2-Dichlorobenzene	1.0	U	1.0	0.43	ug/L			11/22/19 06:15	1
1,2-Dichloroethane	1.0	U	1.0	0.43	ug/L			11/22/19 06:15	1
1,2-Dichloropropane	1.0	U	1.0	0.35	ug/L			11/22/19 06:15	1
1,3-Dichlorobenzene	1.0	U	1.0	0.34	ug/L			11/22/19 06:15	1
1,4-Dichlorobenzene	1.0	U	1.0	0.33	ug/L			11/22/19 06:15	1
2-Butanone (MEK)	5.0	U	5.0	1.9	ug/L			11/22/19 06:15	1
2-Hexanone	5.0	U	5.0	1.1	ug/L			11/22/19 06:15	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	1.3	ug/L			11/22/19 06:15	1
Acetone	5.0	U	5.0	4.4	ug/L			11/22/19 06:15	1
Benzene	1.0	U	1.0	0.20	ug/L			11/22/19 06:15	1
Bromoform	1.0	U	1.0	0.54	ug/L			11/22/19 06:15	1
Bromomethane	1.0	U	1.0	0.55	ug/L			11/22/19 06:15	1
Carbon disulfide	1.0	U	1.0	0.82	ug/L			11/22/19 06:15	1
Carbon tetrachloride	1.0	U	1.0	0.21	ug/L			11/22/19 06:15	1
Chlorobenzene	1.0	U	1.0	0.38	ug/L			11/22/19 06:15	1
Chlorodibromomethane	1.0	U	1.0	0.28	ug/L			11/22/19 06:15	1
Chloroethane	1.0	U	1.0	0.32	ug/L			11/22/19 06:15	1
Chloroform	1.0	U	1.0	0.33	ug/L			11/22/19 06:15	1
Chloromethane	1.0	U	1.0	0.40	ug/L			11/22/19 06:15	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.22	ug/L			11/22/19 06:15	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.22	ug/L			11/22/19 06:15	1
Cyclohexane	1.0	U	1.0	0.32	ug/L			11/22/19 06:15	1
Dichlorobromomethane	1.0	U	1.0	0.34	ug/L			11/22/19 06:15	1
Dichlorodifluoromethane	1.0	U	1.0	0.31	ug/L			11/22/19 06:15	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			11/22/19 06:15	1
Ethylene Dibromide	1.0	U	1.0	0.50	ug/L			11/22/19 06:15	1
Isopropylbenzene	1.0	U	1.0	0.34	ug/L			11/22/19 06:15	1
Methyl acetate	5.0	U	5.0	0.79	ug/L			11/22/19 06:15	1
Methyl tert-butyl ether	1.0	U	1.0	0.47	ug/L			11/22/19 06:15	1
Methylcyclohexane	1.0	U	1.0	0.26	ug/L			11/22/19 06:15	1
Methylene Chloride	1.0	U	1.0	0.32	ug/L			11/22/19 06:15	1
Styrene	1.0	U	1.0	0.42	ug/L			11/22/19 06:15	1
Tetrachloroethene	1.0	U	1.0	0.25	ug/L			11/22/19 06:15	1
Toluene	1.0	U	1.0	0.38	ug/L			11/22/19 06:15	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			11/22/19 06:15	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.49	ug/L			11/22/19 06:15	1
Trichloroethene	1.0	U	1.0	0.31	ug/L			11/22/19 06:15	1
Trichlorofluoromethane	1.0	U	1.0	0.32	ug/L			11/22/19 06:15	1
Vinyl chloride	1.0	U	1.0	0.17	ug/L			11/22/19 06:15	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			11/22/19 06:15	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196770-1

Client Sample ID: WSG-GW1-9.0

Lab Sample ID: 460-196770-15

Date Collected: 11/14/19 11:20

Matrix: Water

Date Received: 11/14/19 19:00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	85		74 - 132		11/22/19 06:15	1
4-Bromofluorobenzene	89		77 - 124		11/22/19 06:15	1
Dibromofluoromethane (Surr)	85		72 - 131		11/22/19 06:15	1
Toluene-d8 (Surr)	88		80 - 120		11/22/19 06:15	1

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.40	U	0.40	0.17	ug/L		11/19/19 10:40	11/20/19 10:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	129	*	38 - 125	11/19/19 10:40	11/20/19 10:25	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	10	U	10	1.2	ug/L		11/19/19 10:40	11/20/19 01:00	1
2,2'-oxybis[1-chloropropane]	10	U	10	0.63	ug/L		11/19/19 10:40	11/20/19 01:00	1
2,4,5-Trichlorophenol	10	U	10	0.88	ug/L		11/19/19 10:40	11/20/19 01:00	1
2,4,6-Trichlorophenol	10	U	10	0.86	ug/L		11/19/19 10:40	11/20/19 01:00	1
2,4-Dichlorophenol	10	U	10	1.1	ug/L		11/19/19 10:40	11/20/19 01:00	1
2,4-Dimethylphenol	10	U	10	0.62	ug/L		11/19/19 10:40	11/20/19 01:00	1
2,4-Dinitrophenol	20	U	20	14	ug/L		11/19/19 10:40	11/20/19 01:00	1
2,4-Dinitrotoluene	2.0	U	2.0	1.0	ug/L		11/19/19 10:40	11/20/19 01:00	1
2,6-Dinitrotoluene	2.0	U	2.0	0.83	ug/L		11/19/19 10:40	11/20/19 01:00	1
2-Chloronaphthalene	10	U	10	1.2	ug/L		11/19/19 10:40	11/20/19 01:00	1
2-Chlorophenol	10	U	10	0.38	ug/L		11/19/19 10:40	11/20/19 01:00	1
2-Methylnaphthalene	10	U	10	1.1	ug/L		11/19/19 10:40	11/20/19 01:00	1
2-Methylphenol	10	U	10	0.67	ug/L		11/19/19 10:40	11/20/19 01:00	1
2-Nitroaniline	10	U	10	0.47	ug/L		11/19/19 10:40	11/20/19 01:00	1
2-Nitrophenol	10	U	10	0.75	ug/L		11/19/19 10:40	11/20/19 01:00	1
3,3'-Dichlorobenzidine	10	U	10	1.4	ug/L		11/19/19 10:40	11/20/19 01:00	1
3-Nitroaniline	10	U	10	1.9	ug/L		11/19/19 10:40	11/20/19 01:00	1
4,6-Dinitro-2-methylphenol	20	U	20	13	ug/L		11/19/19 10:40	11/20/19 01:00	1
4-Bromophenyl phenyl ether	10	U	10	0.75	ug/L		11/19/19 10:40	11/20/19 01:00	1
4-Chloro-3-methylphenol	10	U	10	0.58	ug/L		11/19/19 10:40	11/20/19 01:00	1
4-Chloroaniline	10	U	10	1.9	ug/L		11/19/19 10:40	11/20/19 01:00	1
4-Chlorophenyl phenyl ether	10	U	10	1.3	ug/L		11/19/19 10:40	11/20/19 01:00	1
4-Methylphenol	10	U	10	0.65	ug/L		11/19/19 10:40	11/20/19 01:00	1
4-Nitroaniline	10	U	10	1.2	ug/L		11/19/19 10:40	11/20/19 01:00	1
4-Nitrophenol	20	U	20	4.0	ug/L		11/19/19 10:40	11/20/19 01:00	1
Acenaphthene	10	U	10	1.1	ug/L		11/19/19 10:40	11/20/19 01:00	1
Acenaphthylene	10	U	10	0.82	ug/L		11/19/19 10:40	11/20/19 01:00	1
Acetophenone	10	U	10	2.3	ug/L		11/19/19 10:40	11/20/19 01:00	1
Anthracene	10	U	10	0.63	ug/L		11/19/19 10:40	11/20/19 01:00	1
Atrazine	2.0	U *	2.0	1.3	ug/L		11/19/19 10:40	11/20/19 01:00	1
Benzaldehyde	10	U	10	2.1	ug/L		11/19/19 10:40	11/20/19 01:00	1
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		11/19/19 10:40	11/20/19 01:00	1
Benzo[a]pyrene	1.0	U	1.0	0.41	ug/L		11/19/19 10:40	11/20/19 01:00	1
Benzo[b]fluoranthene	2.0	U	2.0	0.68	ug/L		11/19/19 10:40	11/20/19 01:00	1
Benzo[g,h,i]perylene	10	U	10	1.4	ug/L		11/19/19 10:40	11/20/19 01:00	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		11/19/19 10:40	11/20/19 01:00	1

Eurofins TestAmerica, Edison

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196770-1

Client Sample ID: WSG-GW1-9.0

Lab Sample ID: 460-196770-15

Date Collected: 11/14/19 11:20

Matrix: Water

Date Received: 11/14/19 19:00

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-chloroethoxy)methane	10	U	10	0.59	ug/L		11/19/19 10:40	11/20/19 01:00	1
Bis(2-chloroethyl)ether	1.0	U	1.0	0.63	ug/L		11/19/19 10:40	11/20/19 01:00	1
Bis(2-ethylhexyl) phthalate	2.0	U	2.0	1.7	ug/L		11/19/19 10:40	11/20/19 01:00	1
Butyl benzyl phthalate	10	U	10	0.85	ug/L		11/19/19 10:40	11/20/19 01:00	1
Caprolactam	10	U	10	0.68	ug/L		11/19/19 10:40	11/20/19 01:00	1
Carbazole	10	U	10	0.68	ug/L		11/19/19 10:40	11/20/19 01:00	1
Chrysene	2.0	U	2.0	0.91	ug/L		11/19/19 10:40	11/20/19 01:00	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		11/19/19 10:40	11/20/19 01:00	1
Dibenzofuran	10	U	10	1.1	ug/L		11/19/19 10:40	11/20/19 01:00	1
Diethyl phthalate	10	U	10	0.98	ug/L		11/19/19 10:40	11/20/19 01:00	1
Dimethyl phthalate	10	U	10	0.77	ug/L		11/19/19 10:40	11/20/19 01:00	1
Di-n-butyl phthalate	10	U	10	0.84	ug/L		11/19/19 10:40	11/20/19 01:00	1
Di-n-octyl phthalate	10	U	10	4.8	ug/L		11/19/19 10:40	11/20/19 01:00	1
Fluoranthene	10	U	10	0.84	ug/L		11/19/19 10:40	11/20/19 01:00	1
Fluorene	10	U	10	0.91	ug/L		11/19/19 10:40	11/20/19 01:00	1
Hexachlorobenzene	1.0	U	1.0	0.40	ug/L		11/19/19 10:40	11/20/19 01:00	1
Hexachlorobutadiene	1.0	U	1.0	0.78	ug/L		11/19/19 10:40	11/20/19 01:00	1
Hexachlorocyclopentadiene	10	U	10	3.6	ug/L		11/19/19 10:40	11/20/19 01:00	1
Hexachloroethane	2.0	U	2.0	0.80	ug/L		11/19/19 10:40	11/20/19 01:00	1
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	0.94	ug/L		11/19/19 10:40	11/20/19 01:00	1
Isophorone	10	U	10	0.80	ug/L		11/19/19 10:40	11/20/19 01:00	1
Naphthalene	10	U	10	1.1	ug/L		11/19/19 10:40	11/20/19 01:00	1
Nitrobenzene	1.0	U	1.0	0.57	ug/L		11/19/19 10:40	11/20/19 01:00	1
N-Nitrosodi-n-propylamine	1.0	U	1.0	0.43	ug/L		11/19/19 10:40	11/20/19 01:00	1
N-Nitrosodiphenylamine	10	U	10	0.89	ug/L		11/19/19 10:40	11/20/19 01:00	1
Pentachlorophenol	20	U	20	1.4	ug/L		11/19/19 10:40	11/20/19 01:00	1
Phenanthrene	10	U	10	0.58	ug/L		11/19/19 10:40	11/20/19 01:00	1
Phenol	10	U	10	0.29	ug/L		11/19/19 10:40	11/20/19 01:00	1
Pyrene	10	U	10	1.6	ug/L		11/19/19 10:40	11/20/19 01:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	86		26 - 139	11/19/19 10:40	11/20/19 01:00	1
2-Fluorophenol (Surr)	39		25 - 58	11/19/19 10:40	11/20/19 01:00	1
Nitrobenzene-d5 (Surr)	85		51 - 108	11/19/19 10:40	11/20/19 01:00	1
Terphenyl-d14 (Surr)	80		40 - 148	11/19/19 10:40	11/20/19 01:00	1
Phenol-d5 (Surr)	25		14 - 39	11/19/19 10:40	11/20/19 01:00	1
2-Fluorobiphenyl	86		45 - 107	11/19/19 10:40	11/20/19 01:00	1

Method: 608.3 - Organochlorine Pesticides/PCBs in Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.020	U	0.020	0.012	ug/L		11/19/19 17:11	11/21/19 10:09	1
alpha-BHC	0.020	U	0.020	0.013	ug/L		11/19/19 17:11	11/21/19 10:09	1
beta-BHC	0.030	U	0.030	0.015	ug/L		11/19/19 17:11	11/21/19 10:09	1
delta-BHC	0.020	U	0.020	0.0090	ug/L		11/19/19 17:11	11/21/19 10:09	1
gamma-BHC (Lindane)	0.030	U	0.030	0.013	ug/L		11/19/19 17:11	11/21/19 10:09	1
Chlordane	0.50	U	0.50	0.093	ug/L		11/19/19 17:11	11/21/19 10:09	1
4,4'-DDD	0.040	U	0.040	0.018	ug/L		11/19/19 17:11	11/21/19 10:09	1
4,4'-DDE	0.030	U *	0.030	0.018	ug/L		11/19/19 17:11	11/21/19 10:09	1
4,4'-DDT	0.030	U	0.030	0.025	ug/L		11/19/19 17:11	11/21/19 10:09	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196770-1

Client Sample ID: WSG-GW1-9.0

Lab Sample ID: 460-196770-15

Date Collected: 11/14/19 11:20

Matrix: Water

Date Received: 11/14/19 19:00

Method: 608.3 - Organochlorine Pesticides/PCBs in Water (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dieldrin	0.020	U *	0.020	0.016	ug/L		11/19/19 17:11	11/21/19 10:09	1
Endosulfan I	0.030	U	0.030	0.014	ug/L		11/19/19 17:11	11/21/19 10:09	1
Endosulfan II	0.030	U	0.030	0.017	ug/L		11/19/19 17:11	11/21/19 10:09	1
Endosulfan sulfate	0.030	U	0.030	0.015	ug/L		11/19/19 17:11	11/21/19 10:09	1
Endrin	0.030	U *	0.030	0.021	ug/L		11/19/19 17:11	11/21/19 10:09	1
Endrin aldehyde	0.030	U	0.030	0.024	ug/L		11/19/19 17:11	11/21/19 10:09	1
Endrin ketone	0.030	U	0.030	0.013	ug/L		11/19/19 17:11	11/21/19 10:09	1
Heptachlor	0.030	U	0.030	0.014	ug/L		11/19/19 17:11	11/21/19 10:09	1
Heptachlor epoxide	0.030	U	0.030	0.014	ug/L		11/19/19 17:11	11/21/19 10:09	1
Methoxychlor	0.030	U	0.030	0.030	ug/L		11/19/19 17:11	11/21/19 10:09	1
Toxaphene	0.50	U	0.50	0.20	ug/L		11/19/19 17:11	11/21/19 10:09	1
Aroclor 1016	1.0	U	1.0	0.030	ug/L		11/19/19 17:11	11/21/19 10:09	1
Aroclor 1221	1.0	U	1.0	0.030	ug/L		11/19/19 17:11	11/21/19 10:09	1
Aroclor 1232	1.0	U	1.0	0.030	ug/L		11/19/19 17:11	11/21/19 10:09	1
Aroclor 1242	1.0	U	1.0	0.030	ug/L		11/19/19 17:11	11/21/19 10:09	1
Aroclor 1248	1.0	U	1.0	0.030	ug/L		11/19/19 17:11	11/21/19 10:09	1
Aroclor 1254	1.0	U	1.0	0.037	ug/L		11/19/19 17:11	11/21/19 10:09	1
Aroclor 1260	1.0	U	1.0	0.037	ug/L		11/19/19 17:11	11/21/19 10:09	1
Aroclor 1262	1.0	U	1.0	0.037	ug/L		11/19/19 17:11	11/21/19 10:09	1
Aroclor 1268	1.0	U	1.0	0.037	ug/L		11/19/19 17:11	11/21/19 10:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	140		10 - 150	11/19/19 17:11	11/21/19 10:09	1
Tetrachloro-m-xylene	129		10 - 150	11/19/19 17:11	11/21/19 10:09	1
DCB Decachlorobiphenyl	122		10 - 150	11/19/19 17:11	11/21/19 10:09	1
DCB Decachlorobiphenyl	147		10 - 150	11/19/19 17:11	11/21/19 10:09	1

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	1.2	U	1.2	0.13	ug/L		11/19/19 21:30	11/20/19 12:03	1
Silvex (2,4,5-TP)	1.2	U	1.2	0.11	ug/L		11/19/19 21:30	11/20/19 12:03	1
2,4,5-T	1.2	U	1.2	0.12	ug/L		11/19/19 21:30	11/20/19 12:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	55		54 - 150	11/19/19 21:30	11/20/19 12:03	1
2,4-Dichlorophenylacetic acid	57		54 - 150	11/19/19 21:30	11/20/19 12:03	1

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	23.7		1.84	0.53	ng/L		11/20/19 06:29	11/22/19 05:18	1
Perfluoroheptanoic acid (PFHpA)	43.2		1.84	0.23	ng/L		11/20/19 06:29	11/22/19 05:18	1
Perfluorooctanoic acid (PFOA)	64.6		1.84	0.78	ng/L		11/20/19 06:29	11/22/19 05:18	1
Perfluorononanoic acid (PFNA)	333		1.84	0.25	ng/L		11/20/19 06:29	11/22/19 05:18	1
Perfluorodecanoic acid (PFDA)	5.70		1.84	0.28	ng/L		11/20/19 06:29	11/22/19 05:18	1
Perfluoroundecanoic acid (PFUnA)	2.19		1.84	1.01	ng/L		11/20/19 06:29	11/22/19 05:18	1
Perfluorododecanoic acid (PFDoA)	1.84	U	1.84	0.51	ng/L		11/20/19 06:29	11/22/19 05:18	1
Perfluorotridecanoic acid (PFTriA)	1.84	U	1.84	1.19	ng/L		11/20/19 06:29	11/22/19 05:18	1
Perfluorotetradecanoic acid (PFTeA)	1.84	U	1.84	0.27	ng/L		11/20/19 06:29	11/22/19 05:18	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196770-1

Client Sample ID: WSG-GW1-9.0

Lab Sample ID: 460-196770-15

Date Collected: 11/14/19 11:20

Matrix: Water

Date Received: 11/14/19 19:00

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanesulfonic acid (PFBS)	2.19		1.84	0.18	ng/L		11/20/19 06:29	11/22/19 05:18	1
Perfluorohexanesulfonic acid (PFHxS)	25.0	B	1.84	0.16	ng/L		11/20/19 06:29	11/22/19 05:18	1
Perfluorooctanesulfonic acid (PFOS)	12.7		1.84	0.50	ng/L		11/20/19 06:29	11/22/19 05:18	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	18.4	U	18.4	1.75	ng/L		11/20/19 06:29	11/22/19 05:18	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	18.4	U	18.4	2.85	ng/L		11/20/19 06:29	11/22/19 05:18	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C2 PFHxA	78		25 - 150				11/20/19 06:29	11/22/19 05:18	1
13C4 PFHpA	81		25 - 150				11/20/19 06:29	11/22/19 05:18	1
13C4 PFOA	81		25 - 150				11/20/19 06:29	11/22/19 05:18	1
13C5 PFNA	74		25 - 150				11/20/19 06:29	11/22/19 05:18	1
13C2 PFDA	75		25 - 150				11/20/19 06:29	11/22/19 05:18	1
13C2 PFUnA	71		25 - 150				11/20/19 06:29	11/22/19 05:18	1
13C2 PFDoA	69		25 - 150				11/20/19 06:29	11/22/19 05:18	1
13C2 PFTeDA	60		25 - 150				11/20/19 06:29	11/22/19 05:18	1
18O2 PFHxS	90		25 - 150				11/20/19 06:29	11/22/19 05:18	1
13C4 PFOS	72		25 - 150				11/20/19 06:29	11/22/19 05:18	1
d3-NMeFOSAA	65		25 - 150				11/20/19 06:29	11/22/19 05:18	1
d5-NEtFOSAA	69		25 - 150				11/20/19 06:29	11/22/19 05:18	1

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	2510		150	34.2	ug/L		11/22/19 22:10	11/23/19 15:56	1
Silver	10.0	U	10.0	1.1	ug/L		11/22/19 22:10	11/23/19 15:56	1
Aluminum	200	U	200	28.6	ug/L		11/22/19 22:10	11/23/19 15:56	1
Arsenic	15.0	U	15.0	2.7	ug/L		11/22/19 22:10	11/23/19 15:56	1
Boron	44.4	J	50.0	12.7	ug/L		11/22/19 22:10	11/23/19 15:56	1
Barium	27.7	J	200	7.7	ug/L		11/22/19 22:10	11/23/19 15:56	1
Beryllium	2.0	U	2.0	0.23	ug/L		11/22/19 22:10	11/23/19 15:56	1
Calcium	53200		5000	222	ug/L		11/22/19 22:10	11/23/19 15:56	1
Cadmium	4.0	U	4.0	0.22	ug/L		11/22/19 22:10	11/23/19 15:56	1
Cobalt	3.9	J	50.0	1.7	ug/L		11/22/19 22:10	11/23/19 15:56	1
Chromium	10.0	U	10.0	1.3	ug/L		11/22/19 22:10	11/23/19 15:56	1
Copper	25.0	U	25.0	5.1	ug/L		11/22/19 22:10	11/23/19 15:56	1
Potassium	2300	J	5000	323	ug/L		11/22/19 22:10	11/23/19 15:56	1
Magnesium	10700		5000	177	ug/L		11/22/19 22:10	11/23/19 15:56	1
Manganese	624		15.0	0.99	ug/L		11/22/19 22:10	11/23/19 15:56	1
Molybdenum	5.4	J	20.0	3.3	ug/L		11/22/19 22:10	11/23/19 15:56	1
Sodium	3860	J	5000	460	ug/L		11/22/19 22:10	11/23/19 15:56	1
Nickel	6.7	J	40.0	1.7	ug/L		11/22/19 22:10	11/23/19 15:56	1
Lead	10.0	U	10.0	2.5	ug/L		11/22/19 22:10	11/23/19 15:56	1
Antimony	20.0	U	20.0	2.9	ug/L		11/22/19 22:10	11/23/19 15:56	1
Selenium	20.0	U	20.0	6.6	ug/L		11/22/19 22:10	11/23/19 15:56	1
Tin	50.0	U	50.0	2.4	ug/L		11/22/19 22:10	11/23/19 15:56	1
Strontium	155		20.0	0.70	ug/L		11/22/19 22:10	11/23/19 15:56	1
Titanium	3.9	J	20.0	2.0	ug/L		11/22/19 22:10	11/23/19 15:56	1

Eurofins TestAmerica, Edison

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196770-1

Client Sample ID: WSG-GW1-9.0

Lab Sample ID: 460-196770-15

Date Collected: 11/14/19 11:20

Matrix: Water

Date Received: 11/14/19 19:00

Method: 6010D - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	20.0	U	20.0	5.4	ug/L		11/22/19 22:10	11/23/19 15:56	1
Vanadium	50.0	U	50.0	2.5	ug/L		11/22/19 22:10	11/23/19 15:56	1
Zinc	8.9	J	30.0	3.6	ug/L		11/22/19 22:10	11/23/19 15:56	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.12	ug/L		11/26/19 03:05	11/26/19 07:25	1

Client Sample ID: WSG-GW1-9.1

Lab Sample ID: 460-196770-16

Date Collected: 11/14/19 11:20

Matrix: Water

Date Received: 11/14/19 19:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			11/22/19 06:38	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.37	ug/L			11/22/19 06:38	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			11/22/19 06:38	1
1,1,2-Trichloroethane	1.0	U	1.0	0.43	ug/L			11/22/19 06:38	1
1,1-Dichloroethane	1.0	U	1.0	0.26	ug/L			11/22/19 06:38	1
1,1-Dichloroethene	1.0	U	1.0	0.26	ug/L			11/22/19 06:38	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.37	ug/L			11/22/19 06:38	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.38	ug/L			11/22/19 06:38	1
1,2-Dichlorobenzene	1.0	U	1.0	0.43	ug/L			11/22/19 06:38	1
1,2-Dichloroethane	1.0	U	1.0	0.43	ug/L			11/22/19 06:38	1
1,2-Dichloropropane	1.0	U	1.0	0.35	ug/L			11/22/19 06:38	1
1,3-Dichlorobenzene	1.0	U	1.0	0.34	ug/L			11/22/19 06:38	1
1,4-Dichlorobenzene	1.0	U	1.0	0.33	ug/L			11/22/19 06:38	1
2-Butanone (MEK)	5.0	U	5.0	1.9	ug/L			11/22/19 06:38	1
2-Hexanone	5.0	U	5.0	1.1	ug/L			11/22/19 06:38	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	1.3	ug/L			11/22/19 06:38	1
Acetone	5.0	U	5.0	4.4	ug/L			11/22/19 06:38	1
Benzene	1.0	U	1.0	0.20	ug/L			11/22/19 06:38	1
Bromoform	1.0	U	1.0	0.54	ug/L			11/22/19 06:38	1
Bromomethane	1.0	U	1.0	0.55	ug/L			11/22/19 06:38	1
Carbon disulfide	1.0	U	1.0	0.82	ug/L			11/22/19 06:38	1
Carbon tetrachloride	1.0	U	1.0	0.21	ug/L			11/22/19 06:38	1
Chlorobenzene	1.0	U	1.0	0.38	ug/L			11/22/19 06:38	1
Chlorodibromomethane	1.0	U	1.0	0.28	ug/L			11/22/19 06:38	1
Chloroethane	1.0	U	1.0	0.32	ug/L			11/22/19 06:38	1
Chloroform	1.0	U	1.0	0.33	ug/L			11/22/19 06:38	1
Chloromethane	1.0	U	1.0	0.40	ug/L			11/22/19 06:38	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.22	ug/L			11/22/19 06:38	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.22	ug/L			11/22/19 06:38	1
Cyclohexane	1.0	U	1.0	0.32	ug/L			11/22/19 06:38	1
Dichlorobromomethane	1.0	U	1.0	0.34	ug/L			11/22/19 06:38	1
Dichlorodifluoromethane	1.0	U	1.0	0.31	ug/L			11/22/19 06:38	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			11/22/19 06:38	1
Ethylene Dibromide	1.0	U	1.0	0.50	ug/L			11/22/19 06:38	1
Isopropylbenzene	1.0	U	1.0	0.34	ug/L			11/22/19 06:38	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196770-1

Client Sample ID: WSG-GW1-9.1

Lab Sample ID: 460-196770-16

Date Collected: 11/14/19 11:20

Matrix: Water

Date Received: 11/14/19 19:00

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl acetate	5.0	U	5.0	0.79	ug/L			11/22/19 06:38	1
Methyl tert-butyl ether	1.0	U	1.0	0.47	ug/L			11/22/19 06:38	1
Methylcyclohexane	1.0	U	1.0	0.26	ug/L			11/22/19 06:38	1
Methylene Chloride	1.0	U	1.0	0.32	ug/L			11/22/19 06:38	1
Styrene	1.0	U	1.0	0.42	ug/L			11/22/19 06:38	1
Tetrachloroethene	1.0	U	1.0	0.25	ug/L			11/22/19 06:38	1
Toluene	1.0	U	1.0	0.38	ug/L			11/22/19 06:38	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			11/22/19 06:38	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.49	ug/L			11/22/19 06:38	1
Trichloroethene	1.0	U	1.0	0.31	ug/L			11/22/19 06:38	1
Trichlorofluoromethane	1.0	U	1.0	0.32	ug/L			11/22/19 06:38	1
Vinyl chloride	1.0	U	1.0	0.17	ug/L			11/22/19 06:38	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			11/22/19 06:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	81		74 - 132		11/22/19 06:38	1
4-Bromofluorobenzene	85		77 - 124		11/22/19 06:38	1
Dibromofluoromethane (Surr)	83		72 - 131		11/22/19 06:38	1
Toluene-d8 (Surr)	83		80 - 120		11/22/19 06:38	1

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.40	U	0.40	0.17	ug/L		11/19/19 10:40	11/20/19 10:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	127	*	38 - 125	11/19/19 10:40	11/20/19 10:46	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	10	U	10	1.2	ug/L		11/19/19 10:40	11/20/19 01:21	1
2,2'-oxybis[1-chloropropane]	10	U	10	0.63	ug/L		11/19/19 10:40	11/20/19 01:21	1
2,4,5-Trichlorophenol	10	U	10	0.88	ug/L		11/19/19 10:40	11/20/19 01:21	1
2,4,6-Trichlorophenol	10	U	10	0.86	ug/L		11/19/19 10:40	11/20/19 01:21	1
2,4-Dichlorophenol	10	U	10	1.1	ug/L		11/19/19 10:40	11/20/19 01:21	1
2,4-Dimethylphenol	10	U	10	0.62	ug/L		11/19/19 10:40	11/20/19 01:21	1
2,4-Dinitrophenol	20	U	20	14	ug/L		11/19/19 10:40	11/20/19 01:21	1
2,4-Dinitrotoluene	2.0	U	2.0	1.0	ug/L		11/19/19 10:40	11/20/19 01:21	1
2,6-Dinitrotoluene	2.0	U	2.0	0.83	ug/L		11/19/19 10:40	11/20/19 01:21	1
2-Chloronaphthalene	10	U	10	1.2	ug/L		11/19/19 10:40	11/20/19 01:21	1
2-Chlorophenol	10	U	10	0.38	ug/L		11/19/19 10:40	11/20/19 01:21	1
2-Methylnaphthalene	10	U	10	1.1	ug/L		11/19/19 10:40	11/20/19 01:21	1
2-Methylphenol	10	U	10	0.67	ug/L		11/19/19 10:40	11/20/19 01:21	1
2-Nitroaniline	10	U	10	0.47	ug/L		11/19/19 10:40	11/20/19 01:21	1
2-Nitrophenol	10	U	10	0.75	ug/L		11/19/19 10:40	11/20/19 01:21	1
3,3'-Dichlorobenzidine	10	U	10	1.4	ug/L		11/19/19 10:40	11/20/19 01:21	1
3-Nitroaniline	10	U	10	1.9	ug/L		11/19/19 10:40	11/20/19 01:21	1
4,6-Dinitro-2-methylphenol	20	U	20	13	ug/L		11/19/19 10:40	11/20/19 01:21	1
4-Bromophenyl phenyl ether	10	U	10	0.75	ug/L		11/19/19 10:40	11/20/19 01:21	1
4-Chloro-3-methylphenol	10	U	10	0.58	ug/L		11/19/19 10:40	11/20/19 01:21	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196770-1

Client Sample ID: WSG-GW1-9.1

Lab Sample ID: 460-196770-16

Date Collected: 11/14/19 11:20

Matrix: Water

Date Received: 11/14/19 19:00

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chloroaniline	10	U	10	1.9	ug/L		11/19/19 10:40	11/20/19 01:21	1
4-Chlorophenyl phenyl ether	10	U	10	1.3	ug/L		11/19/19 10:40	11/20/19 01:21	1
4-Methylphenol	10	U	10	0.65	ug/L		11/19/19 10:40	11/20/19 01:21	1
4-Nitroaniline	10	U	10	1.2	ug/L		11/19/19 10:40	11/20/19 01:21	1
4-Nitrophenol	20	U	20	4.0	ug/L		11/19/19 10:40	11/20/19 01:21	1
Acenaphthene	10	U	10	1.1	ug/L		11/19/19 10:40	11/20/19 01:21	1
Acenaphthylene	10	U	10	0.82	ug/L		11/19/19 10:40	11/20/19 01:21	1
Acetophenone	10	U	10	2.3	ug/L		11/19/19 10:40	11/20/19 01:21	1
Anthracene	10	U	10	0.63	ug/L		11/19/19 10:40	11/20/19 01:21	1
Atrazine	2.0	U *	2.0	1.3	ug/L		11/19/19 10:40	11/20/19 01:21	1
Benzaldehyde	10	U	10	2.1	ug/L		11/19/19 10:40	11/20/19 01:21	1
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		11/19/19 10:40	11/20/19 01:21	1
Benzo[a]pyrene	1.0	U	1.0	0.41	ug/L		11/19/19 10:40	11/20/19 01:21	1
Benzo[b]fluoranthene	2.0	U	2.0	0.68	ug/L		11/19/19 10:40	11/20/19 01:21	1
Benzo[g,h,i]perylene	10	U	10	1.4	ug/L		11/19/19 10:40	11/20/19 01:21	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		11/19/19 10:40	11/20/19 01:21	1
Bis(2-chloroethoxy)methane	10	U	10	0.59	ug/L		11/19/19 10:40	11/20/19 01:21	1
Bis(2-chloroethyl)ether	1.0	U	1.0	0.63	ug/L		11/19/19 10:40	11/20/19 01:21	1
Bis(2-ethylhexyl) phthalate	2.0	U	2.0	1.7	ug/L		11/19/19 10:40	11/20/19 01:21	1
Butyl benzyl phthalate	10	U	10	0.85	ug/L		11/19/19 10:40	11/20/19 01:21	1
Caprolactam	10	U	10	0.68	ug/L		11/19/19 10:40	11/20/19 01:21	1
Carbazole	10	U	10	0.68	ug/L		11/19/19 10:40	11/20/19 01:21	1
Chrysene	2.0	U	2.0	0.91	ug/L		11/19/19 10:40	11/20/19 01:21	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		11/19/19 10:40	11/20/19 01:21	1
Dibenzofuran	10	U	10	1.1	ug/L		11/19/19 10:40	11/20/19 01:21	1
Diethyl phthalate	10	U	10	0.98	ug/L		11/19/19 10:40	11/20/19 01:21	1
Dimethyl phthalate	10	U	10	0.77	ug/L		11/19/19 10:40	11/20/19 01:21	1
Di-n-butyl phthalate	10	U	10	0.84	ug/L		11/19/19 10:40	11/20/19 01:21	1
Di-n-octyl phthalate	10	U	10	4.8	ug/L		11/19/19 10:40	11/20/19 01:21	1
Fluoranthene	10	U	10	0.84	ug/L		11/19/19 10:40	11/20/19 01:21	1
Fluorene	10	U	10	0.91	ug/L		11/19/19 10:40	11/20/19 01:21	1
Hexachlorobenzene	1.0	U	1.0	0.40	ug/L		11/19/19 10:40	11/20/19 01:21	1
Hexachlorobutadiene	1.0	U	1.0	0.78	ug/L		11/19/19 10:40	11/20/19 01:21	1
Hexachlorocyclopentadiene	10	U	10	3.6	ug/L		11/19/19 10:40	11/20/19 01:21	1
Hexachloroethane	2.0	U	2.0	0.80	ug/L		11/19/19 10:40	11/20/19 01:21	1
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	0.94	ug/L		11/19/19 10:40	11/20/19 01:21	1
Isophorone	10	U	10	0.80	ug/L		11/19/19 10:40	11/20/19 01:21	1
Naphthalene	10	U	10	1.1	ug/L		11/19/19 10:40	11/20/19 01:21	1
Nitrobenzene	1.0	U	1.0	0.57	ug/L		11/19/19 10:40	11/20/19 01:21	1
N-Nitrosodi-n-propylamine	1.0	U	1.0	0.43	ug/L		11/19/19 10:40	11/20/19 01:21	1
N-Nitrosodiphenylamine	10	U	10	0.89	ug/L		11/19/19 10:40	11/20/19 01:21	1
Pentachlorophenol	20	U	20	1.4	ug/L		11/19/19 10:40	11/20/19 01:21	1
Phenanthrene	10	U	10	0.58	ug/L		11/19/19 10:40	11/20/19 01:21	1
Phenol	10	U	10	0.29	ug/L		11/19/19 10:40	11/20/19 01:21	1
Pyrene	10	U	10	1.6	ug/L		11/19/19 10:40	11/20/19 01:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	88		26 - 139	11/19/19 10:40	11/20/19 01:21	1
2-Fluorophenol (Surr)	40		25 - 58	11/19/19 10:40	11/20/19 01:21	1

Eurofins TestAmerica, Edison

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196770-1

Client Sample ID: WSG-GW1-9.1

Lab Sample ID: 460-196770-16

Date Collected: 11/14/19 11:20

Matrix: Water

Date Received: 11/14/19 19:00

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	85		51 - 108	11/19/19 10:40	11/20/19 01:21	1
Terphenyl-d14 (Surr)	82		40 - 148	11/19/19 10:40	11/20/19 01:21	1
Phenol-d5 (Surr)	25		14 - 39	11/19/19 10:40	11/20/19 01:21	1
2-Fluorobiphenyl	85		45 - 107	11/19/19 10:40	11/20/19 01:21	1

Method: 608.3 - Organochlorine Pesticides/PCBs in Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.020	U	0.020	0.012	ug/L		11/19/19 17:11	11/21/19 10:22	1
alpha-BHC	0.020	U	0.020	0.013	ug/L		11/19/19 17:11	11/21/19 10:22	1
beta-BHC	0.030	U	0.030	0.015	ug/L		11/19/19 17:11	11/21/19 10:22	1
delta-BHC	0.020	U	0.020	0.0090	ug/L		11/19/19 17:11	11/21/19 10:22	1
gamma-BHC (Lindane)	0.030	U	0.030	0.013	ug/L		11/19/19 17:11	11/21/19 10:22	1
Chlordane	0.50	U	0.50	0.093	ug/L		11/19/19 17:11	11/21/19 10:22	1
4,4'-DDD	0.040	U	0.040	0.018	ug/L		11/19/19 17:11	11/21/19 10:22	1
4,4'-DDE	0.030	U *	0.030	0.018	ug/L		11/19/19 17:11	11/21/19 10:22	1
4,4'-DDT	0.030	U	0.030	0.025	ug/L		11/19/19 17:11	11/21/19 10:22	1
Dieldrin	0.020	U *	0.020	0.016	ug/L		11/19/19 17:11	11/21/19 10:22	1
Endosulfan I	0.030	U	0.030	0.014	ug/L		11/19/19 17:11	11/21/19 10:22	1
Endosulfan II	0.030	U	0.030	0.017	ug/L		11/19/19 17:11	11/21/19 10:22	1
Endosulfan sulfate	0.030	U	0.030	0.015	ug/L		11/19/19 17:11	11/21/19 10:22	1
Endrin	0.030	U *	0.030	0.021	ug/L		11/19/19 17:11	11/21/19 10:22	1
Endrin aldehyde	0.030	U	0.030	0.024	ug/L		11/19/19 17:11	11/21/19 10:22	1
Endrin ketone	0.030	U	0.030	0.013	ug/L		11/19/19 17:11	11/21/19 10:22	1
Heptachlor	0.030	U	0.030	0.014	ug/L		11/19/19 17:11	11/21/19 10:22	1
Heptachlor epoxide	0.030	U	0.030	0.014	ug/L		11/19/19 17:11	11/21/19 10:22	1
Methoxychlor	0.030	U	0.030	0.030	ug/L		11/19/19 17:11	11/21/19 10:22	1
Toxaphene	0.50	U	0.50	0.20	ug/L		11/19/19 17:11	11/21/19 10:22	1
Aroclor 1016	1.0	U	1.0	0.030	ug/L		11/19/19 17:11	11/21/19 10:22	1
Aroclor 1221	1.0	U	1.0	0.030	ug/L		11/19/19 17:11	11/21/19 10:22	1
Aroclor 1232	1.0	U	1.0	0.030	ug/L		11/19/19 17:11	11/21/19 10:22	1
Aroclor 1242	1.0	U	1.0	0.030	ug/L		11/19/19 17:11	11/21/19 10:22	1
Aroclor 1248	1.0	U	1.0	0.030	ug/L		11/19/19 17:11	11/21/19 10:22	1
Aroclor 1254	1.0	U	1.0	0.037	ug/L		11/19/19 17:11	11/21/19 10:22	1
Aroclor 1260	1.0	U	1.0	0.037	ug/L		11/19/19 17:11	11/21/19 10:22	1
Aroclor 1262	1.0	U	1.0	0.037	ug/L		11/19/19 17:11	11/21/19 10:22	1
Aroclor 1268	1.0	U	1.0	0.037	ug/L		11/19/19 17:11	11/21/19 10:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	89		10 - 150	11/19/19 17:11	11/21/19 10:22	1
Tetrachloro-m-xylene	86		10 - 150	11/19/19 17:11	11/21/19 10:22	1
DCB Decachlorobiphenyl	81		10 - 150	11/19/19 17:11	11/21/19 10:22	1
DCB Decachlorobiphenyl	99		10 - 150	11/19/19 17:11	11/21/19 10:22	1

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	1.2	U	1.2	0.13	ug/L		11/19/19 21:30	11/20/19 12:16	1
Silvex (2,4,5-TP)	1.2	U	1.2	0.11	ug/L		11/19/19 21:30	11/20/19 12:16	1
2,4,5-T	1.2	U	1.2	0.12	ug/L		11/19/19 21:30	11/20/19 12:16	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196770-1

Client Sample ID: WSG-GW1-9.1

Lab Sample ID: 460-196770-16

Date Collected: 11/14/19 11:20

Matrix: Water

Date Received: 11/14/19 19:00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	58		54 - 150	11/19/19 21:30	11/20/19 12:16	1
2,4-Dichlorophenylacetic acid	60		54 - 150	11/19/19 21:30	11/20/19 12:16	1

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	24.7		1.89	0.55	ng/L		11/20/19 06:29	11/22/19 05:47	1
Perfluoroheptanoic acid (PFHpA)	41.7		1.89	0.24	ng/L		11/20/19 06:29	11/22/19 05:47	1
Perfluorooctanoic acid (PFOA)	62.9		1.89	0.80	ng/L		11/20/19 06:29	11/22/19 05:47	1
Perfluorononanoic acid (PFNA)	343		1.89	0.25	ng/L		11/20/19 06:29	11/22/19 05:47	1
Perfluorodecanoic acid (PFDA)	5.53		1.89	0.29	ng/L		11/20/19 06:29	11/22/19 05:47	1
Perfluoroundecanoic acid (PFUnA)	1.89		1.89	1.04	ng/L		11/20/19 06:29	11/22/19 05:47	1
Perfluorododecanoic acid (PFDoA)	1.89	U	1.89	0.52	ng/L		11/20/19 06:29	11/22/19 05:47	1
Perfluorotridecanoic acid (PFTriA)	1.89	U	1.89	1.23	ng/L		11/20/19 06:29	11/22/19 05:47	1
Perfluorotetradecanoic acid (PFTeA)	1.89	U	1.89	0.27	ng/L		11/20/19 06:29	11/22/19 05:47	1
Perfluorobutanesulfonic acid (PFBS)	2.19		1.89	0.19	ng/L		11/20/19 06:29	11/22/19 05:47	1
Perfluorohexanesulfonic acid (PFHxS)	24.4	B	1.89	0.16	ng/L		11/20/19 06:29	11/22/19 05:47	1
Perfluorooctanesulfonic acid (PFOS)	12.4		1.89	0.51	ng/L		11/20/19 06:29	11/22/19 05:47	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	18.9	U	18.9	1.79	ng/L		11/20/19 06:29	11/22/19 05:47	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	18.9	U	18.9	2.93	ng/L		11/20/19 06:29	11/22/19 05:47	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C2 PFHxA	91		25 - 150				11/20/19 06:29	11/22/19 05:47	1
13C4 PFHpA	101		25 - 150				11/20/19 06:29	11/22/19 05:47	1
13C4 PFOA	100		25 - 150				11/20/19 06:29	11/22/19 05:47	1
13C5 PFNA	89		25 - 150				11/20/19 06:29	11/22/19 05:47	1
13C2 PFDA	87		25 - 150				11/20/19 06:29	11/22/19 05:47	1
13C2 PFUnA	90		25 - 150				11/20/19 06:29	11/22/19 05:47	1
13C2 PFDoA	78		25 - 150				11/20/19 06:29	11/22/19 05:47	1
13C2 PFTeDA	78		25 - 150				11/20/19 06:29	11/22/19 05:47	1
18O2 PFHxS	110		25 - 150				11/20/19 06:29	11/22/19 05:47	1
13C4 PFOS	87		25 - 150				11/20/19 06:29	11/22/19 05:47	1
d3-NMeFOSAA	79		25 - 150				11/20/19 06:29	11/22/19 05:47	1
d5-NEtFOSAA	85		25 - 150				11/20/19 06:29	11/22/19 05:47	1

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	2510		150	34.2	ug/L		11/22/19 22:10	11/23/19 16:00	1
Silver	10.0	U	10.0	1.1	ug/L		11/22/19 22:10	11/23/19 16:00	1
Aluminum	200	U	200	28.6	ug/L		11/22/19 22:10	11/23/19 16:00	1
Arsenic	15.0	U	15.0	2.7	ug/L		11/22/19 22:10	11/23/19 16:00	1
Boron	45.4	J	50.0	12.7	ug/L		11/22/19 22:10	11/23/19 16:00	1
Barium	28.2	J	200	7.7	ug/L		11/22/19 22:10	11/23/19 16:00	1
Beryllium	2.0	U	2.0	0.23	ug/L		11/22/19 22:10	11/23/19 16:00	1
Calcium	54500		5000	222	ug/L		11/22/19 22:10	11/23/19 16:00	1
Cadmium	4.0	U	4.0	0.22	ug/L		11/22/19 22:10	11/23/19 16:00	1
Cobalt	3.9	J	50.0	1.7	ug/L		11/22/19 22:10	11/23/19 16:00	1

Eurofins TestAmerica, Edison

Client Sample Results

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196770-1

Client Sample ID: WSG-GW1-9.1

Lab Sample ID: 460-196770-16

Date Collected: 11/14/19 11:20

Matrix: Water

Date Received: 11/14/19 19:00

Method: 6010D - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	10.0	U	10.0	1.3	ug/L		11/22/19 22:10	11/23/19 16:00	1
Copper	25.0	U	25.0	5.1	ug/L		11/22/19 22:10	11/23/19 16:00	1
Potassium	2350	J	5000	323	ug/L		11/22/19 22:10	11/23/19 16:00	1
Magnesium	11100		5000	177	ug/L		11/22/19 22:10	11/23/19 16:00	1
Manganese	628		15.0	0.99	ug/L		11/22/19 22:10	11/23/19 16:00	1
Molybdenum	5.7	J	20.0	3.3	ug/L		11/22/19 22:10	11/23/19 16:00	1
Sodium	3970	J	5000	460	ug/L		11/22/19 22:10	11/23/19 16:00	1
Nickel	6.6	J	40.0	1.7	ug/L		11/22/19 22:10	11/23/19 16:00	1
Lead	10.0	U	10.0	2.5	ug/L		11/22/19 22:10	11/23/19 16:00	1
Antimony	20.0	U	20.0	2.9	ug/L		11/22/19 22:10	11/23/19 16:00	1
Selenium	20.0	U	20.0	6.6	ug/L		11/22/19 22:10	11/23/19 16:00	1
Tin	50.0	U	50.0	2.4	ug/L		11/22/19 22:10	11/23/19 16:00	1
Strontium	159		20.0	0.70	ug/L		11/22/19 22:10	11/23/19 16:00	1
Titanium	3.9	J	20.0	2.0	ug/L		11/22/19 22:10	11/23/19 16:00	1
Thallium	20.0	U	20.0	5.4	ug/L		11/22/19 22:10	11/23/19 16:00	1
Vanadium	50.0	U	50.0	2.5	ug/L		11/22/19 22:10	11/23/19 16:00	1
Zinc	10.1	J	30.0	3.6	ug/L		11/22/19 22:10	11/23/19 16:00	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.12	ug/L		11/26/19 03:05	11/26/19 07:26	1



Appendix C

Data Usability Summary Report

Data Validation Services

120 Cobble Creek Road P. O. Box 208

North Creek, NY 12853

Phone (518) 251-4429

harry@frontiernet.net

May 20, 2020

Erich Zimmerman
HDR
1 International Blvd
Mahwah, NJ 07495

RE: Validation of the Wainscott Sand and Gravel Site Analytical Laboratory Data
Data Usability Summary Report (DUSR)
Eurofins TA SDG Nos. 460-196258, 460-196259, 460-196639, and 460-196770

Dear Mr. Zimmerman:

Review has been completed for the data packages generated by Eurofins that pertain to samples collected between 11/06/19 and 11/14/19 at the Wainscott Sand and Gravel site. Thirty seven soil samples, two soil field duplicates, fourteen aqueous samples, and an aqueous field duplicate were processed for TCL volatiles, TCL semivolatiles, TCL pesticides, Aroclor PCBs, TCL herbicides, an expanded list of metals, and per- and polyfluorinated alkyl substances (PFAS). The aqueous samples were also processed for 1,4-dioxane by SIM. Forty seven soil samples, four soil field duplicates, twenty four aqueous samples, and an aqueous field duplicate were processed for PFAS. Matrix spikes, field and equipment blanks, and trip blank were also processed. The analytical methodologies are those of the USEPA SW846 and a modified USEPA method 537.

The data packages submitted by the laboratory contain full deliverables for validation, and this usability report is generated from review of the QC summary form information, with full review of sample raw data and limited review of associated QC raw data. The reported QC summary forms and sample raw data have been reviewed for application of validation qualifiers, with guidance from the USEPA national and regional validation documents and the specific requirements of the analytical methodology. The following items were reviewed:

- * Data Completeness
- * Case Narrative
- * Custody Documentation
- * Holding Times
- * Surrogate, Isotopic Dilution, and Internal Standard Recoveries
- * Method/Preparation Blanks
- * Matrix Spike Recoveries/Duplicate Correlations
- * Blind Field Duplicate Correlations
- * Laboratory Control Sample (LCS)
- * Instrumental Tunes
- * Initial and Continuing Calibration Standards
- * Serial Dilution Evaluation
- * Method Compliance
- * Sample Result Verification

Those items listed above which show deficiencies are discussed within the text of this narrative. All of the other items were determined to be acceptable for the DUSR level review, as discussed in NYS DER-10 Appendix B Section 2.0 (c). Documentation of the outlying parameters cited in this report can be found in the laboratory data package.

In summary, results for the samples are usable either as reported or with minor qualification, with the exception of the following:

- The fourteen phenolic semivolatile analytes are rejected in one soil sample
- Atrazine in seven samples and three equipment blanks are rejected

Data completeness, accuracy, representativeness, reproducibility, sensitivity, and comparability are acceptable.

The laboratory modifications to the USEPA method 537 are significant, including acceptance ranges, consistent in many respects to the advances in the available monitoring compounds. Validation actions are based on the laboratory procedures, in consideration that the laboratory undergoes NYS DOH certifications and NYS SOP review.

Copies of the client sample identifications are attached to this text. Also included in this report are the client EDDs with recommended qualifiers/edits applied in red.

Chains-of-Custody/Sample Receipt

WSG-GS1-0.5-2.0-0 was received, but not entered onto the custody form. The number of containers field was at times not filled in, or showed transcription errors.

Writeovers should have been dated and initialed.

Blind Field Duplicate

The blind field duplicate evaluations were performed on WSG-GS2-6.0-8.0-0, WSG-MW8-25-0, WSG-S16-0.0-0.2-0, WSG-C12-COMP-0, WSG-GS6-6-8-0, WSG-GS1-0.0-0.2-0, and WSG-GW1-9-0. Correlations are within validation guidelines.

TCL Volatile Analyses by EPA 8260C

The matrix spikes of WSG-MW-6-10-0, WSG-GS9-0.5-2.0-0, and WSG-C11-COMP-0 show recoveries and duplicate correlations that are within validation guidelines, with the exception of the following, the results for which are qualified as estimated in the indicated parent samples:

<u>Parent Sample</u>	<u>Analyte</u>	<u>Outlying % Recoveries</u>
WSG-GS9-0.5-2.0-0	1,2,4-trichlorobenzene	65,65
	1,2-dichlorobenzene	75,73
	1,2-dichloropropane	74,71
	1,3-dichlorobenzene	73,76
	1,4-dichlorobenzene	78,76
	2-hexanone	71,74
WSG-C11-COMP-0	1,2,4-trichlorobenzene	65,67
	1,2-dichlorobenzene	78,76
	1,2-dichloropropane	74,76
	1,4-dichlorobenzene	76,75

Due to low recoveries (61% and 71%) in the associated LCSs, the results for methyl acetate in WSG-C1-COMP-O, WSG-C2-COMP-O, WSG-C3-COMP-O, and WSG-C4-COMP-O are qualified as estimated, with a low bias.

The detected results for toluene and total xylenes in the samples reported in SDG 460-196770 are considered external contamination and edited to reflect non-detection due to presence in the associated method blank.

Calibration standards showed acceptable responses, with the following exceptions, results for which are qualified as estimated in the indicated associated samples:

- Bromomethane (25%D) in WSG-GW7-6-0
- 1,1,2,2-tetrachloroethane (23%D and 24%D) in WSG-GS6-0.0-0.2-0, and WSG-GS6-0.5-2.0-0 WSG-GS1-0.0-0.2-0, WSG-GS1-0.0-0.2-1, WSG-GS9-0.5-2.0-0, WSG-GS2-0.0-0.2-0, WSG-C10-COMP-0, WSG-C12-COMP-0, WSG-C12-COMP-1, WSG-C8-COMP-0, WSG-C7-COMP-0, WSG-C6-COMP-0, WSG-C5-COMP-0, WSG-GS9-0.0-0.2-0, WSG-C11-COMP-0, and WSG-GS1-0.5-2.0-0
- Bromoform (22%D) in WSG-C9-COMP-0

Holding times were met. Surrogate and internal standard recoveries are compliant.

TCL Semivolatile and 1,4-Dioxane Analyses by EPA8270D (Full Scan/SIM)

The results for the fourteen phenolic analytes in WSG-S21-0.5-2.0-0 are rejected due to lack of recovery of an acid surrogate standard. A matrix effect is suspected.

The phenolic analytes are qualified as estimated in WSG-EB-SAMPLER-20191111 due to low recoveries of the acid surrogate standards. Because it is an equipment blank, a matrix effect is not suspected.

The results for atrazine in WSG-MW4-10-0, WSG-MW3-10-0, WSG-MW5-10-0, WSG-GW3-8-0, WSG-EB-MW-20191107, WSG-GW4-5-0, WSG-GW2-9-0, WSB-EB-LINER-20191111, WSG-EB-SAMPLELR-20191111, and WSG-GW6-9-0 are rejected due to lack of recovery in the associated LCSs. A laboratory processing effect is indicated.

The following results are qualified as estimated due to outlying recoveries in the associated LCSs:

<u>Affected Samples</u>	<u>Analyte</u>	<u>Outlying % Recoveries</u>	<u>Outlying %RPD</u>
WSG-MW-6-10-0 and WSG-GW-8-0	di-n-octyl phthalate	56	
	benzo (b) fluoranthene	77	
WSG-MW4-10-0, WSG-MW3-10-0, WSG-MW5-10-0, WSG-GW3-8-0, WSG-EB-MW-20191107, WSG-GW4-5-0, and WSG-GW2-9-0	3,3'-dichlorobenzidine	65,66	

Due to a preponderance of outlying analyte recoveries in the matrix spikes of WSG-GS9-0.5-2.0-0 and WSG-C11-COMP-0, the results for those parent samples have been qualified as estimated in value, generally with a low bias.

The matrix spikes of TCL SVOCs on WSG-MW-6-10-0 and WSG-DEB-GR-0 show acceptable and recoveries within validation guidelines, with the following exceptions, results for which are qualified as estimated in the indicated parent sample:

<u>Parent Sample</u>	<u>Analyte</u>	<u>Outlying % Recoveries</u>
WSG-DEB-GR-0	2,4,6-trichlorophenol	41,55
	2-methylnaphthalene	61,63
	benzo(a)pyrene	63,66
	benzo(b)fluoranthene	66,67
	hexachlorocyclopentadiene	22,20
	hexachloroethane	53,60
	naphthalene	56,60

Matrix spikes were not evaluated for 1,4-dioxane by SIM. Therefore, the effect of the aqueous matrix on the results of that analyte have not been evaluated.

Due to poor mass spectral quality, the results for benzo(a)anthracene in WSG-DEB-GR-0 is edited to reflect non-detection.

Surrogate and internal standard recoveries are within validation guidelines. Holding times were met, and blanks show no contamination.

Calibration standards showed acceptable responses, with the following exceptions, results for which are qualified as estimated in the indicated associated samples:

- Benzo(g,h,i) perylene (30%D) in WSG-GW7-6-0
- Acenaphthene (21%D) in WSG-EB-LINER-20191111, WSG-EB-SAMPLER-20191111, and WSGW6-9-0
- Pentachlorophenol (24%D) in WSG-C1-COMP-O, WSG-C2-COMP-O, WSG-C3-COMP-O, and WSG-C4-COMP-O

TCL Pesticide, TCL Herbicides, and Aroclor PCBs by EPA 608, 8081B, 8151A and 8082A

Many of the detected pesticide results exhibit elevated dual column quantitative correlations, and are qualified to reflect the uncertainty in identification and/or quantitation. The values have been either qualified as estimated (“J”), qualified as tentative in identification and estimated in value (“NJ”), or edited to non-detection (“U”), depending on the degree of variance. In some instances, the adjusted reporting limits are elevated over the original method reporting limits.

The following matrix spikes were processed:

- Aroclors 1016/1260 in WSG-MW-6-10-0, WSG-GS9-0.5-2.0, and WSG-C11-COMP-0
- Herbicides in WSG-MW-6-10-0, WSG-GS2-0.5-2.0-0, WSG-C11-COMP-0, and WSG-GS9-0.5-2.0
- Pesticides in WSG-GS9-0.5-2.0-0 and WSG-C11-COMP-0

Recoveries and correlations within validation guidelines. It is noted that the pesticide spikes of WSG-GS9-0.5-2.0-0 show extract-specific anomalies not reflected in the parent sample.

Results for detected pesticide analytes in WSG-C1-COMP-0 are qualified as estimated, with a high bias, due to elevated surrogate recoveries.

Internal standard recoveries are compliant. Calibration standard responses are within validation guidelines. Blanks show no contamination.

TAL Metals Analyses by EPA 6020B, 7470A, and 7471B

Matrix spikes/duplicate evaluations were performed on WSG-MW-6-6-10-0, WSG-MW4-6-10-0, WSG-C11-COMP-0, WSG-C8-COMP-0, WSG-GS9-0.5-2.0-0, and WSG-GS9-0.5-2.0-0. They show recoveries and correlations within validation guidelines, with the following exceptions, results for which are qualified as estimated in the indicated parent sample:

<u>Parent Sample</u>	<u>Element</u>	<u>Outlying % Recoveries</u>	<u>Outlying % RPD</u>
WSG-GS9-0.5-2.0-0	manganese	126	
	titanium	152	
	mercury	127	
WSG-C8-COMP-0	manganese	152	
	antimony	66	
	lead		36
	titanium	251	
WSG-C11-COMP-0	antimony	67	

The ICP serial dilution evaluations of WSG-MW-6-6-10-0, WSG-MW4-6-10-0, WSG-C8-COMP-0, WSG-GS9-0.5-2.0-0, and WSG-GS9-0.5-2.0-0 show acceptable correlations.

Instrument performance was compliant, and blanks show no contamination.

PFAS by Modified EPA Method 537

PFAS compounds are identified by their common acronyms in this report. The EDDs reference both the technical names and the acronyms.

The following detected results are considered external contamination and edited to reflect non-detection due to presence in the associated method blanks:

- PFHxS in samples reported in SDGs 460-196258, 460-196639, and 460-196770
- PFOS in samples reported in SDG 460-196258 and 460-196639
- PFTeA in SDG 460-196639

The following detected results have been qualified as an Estimated Maximum Possible Concentration (EMPC) due to outlying ion ratio.

- PFDA in WSG-MW-7-10-0
- PFUnA in WSG-S19-0.0-0.2-0

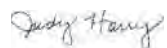
Matrix spikes of WSG-MW-6-10-0, WSG-GS2-0.5-2.0-0, WSG-GW3-18-0, WSG-S14-0.0-0.2-0, WSG-S18-0.5-2.0-0, WSG-S6-0.0-0.2-0, WSG-C11-COMP-0, WSG-GS9-3.5-0, WSG-GS9-0.5-2.0-0, WSG-S7-0.5-2.0-0, and WSG-C1-COMP-0 show recoveries and correlations within validation guidelines.

Holding times were met. Isotopic dilution standard responses are within validation guidelines.

LCS recoveries are within laboratory acceptance ranges.

Please do not hesitate to contact me if questions or comments arise during your review of this report.

Very truly yours,



Judy Harry

Attachments: Validation Qualifier Definitions
 Sample Identifications
 Qualified Laboratory EQUIS EDDs

VALIDATION DATA QUALIFIER DEFINITIONS

- U** The analyte was analyzed for, but was not detected above the level of the associated reported quantitation limit.
- J** The analyte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample.
- J-** The analyte was positively identified; the associated numerical value is an estimated quantity that may be biased low.
- J+** The analyte was positively identified; the associated numerical value is an estimated quantity that may be biased high.
- UJ** The analyte was analyzed for, but was not detected. The associated reported quantitation limit is approximate and may be inaccurate or imprecise.
- NJ** The detection is tentative in identification and estimated in value. Although there is presumptive evidence of the analyte, the result should be used with caution as a potential false positive and/or elevated quantitative value.
- R** The data are unusable. The sample results are rejected due to serious deficiencies in meeting Quality Control limits. The analyte may or may not be present.
- EMPC** The results do not meet all criteria for a confirmed identification. The quantitative value represents the Estimated Maximum Possible Concentration of the analyte in the sample.

Sample Summaries

Sample Summary

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196258-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
460-196258-1	WSG-MW-6-10-0	Water	11/06/19 13:30	11/08/19 20:00	
460-196258-2	WSG-MW-7-10-0	Water	11/06/19 12:15	11/08/19 20:00	
460-196258-3	WSG-GW4-25-0	Water	11/06/19 14:30	11/08/19 20:00	
460-196258-4	WSG-GW5-8-0	Water	11/06/19 12:10	11/08/19 20:00	
460-196258-5	WSG-GW4-15-0	Water	11/06/19 15:15	11/08/19 20:00	
460-196258-6	WSG-MW1-8-0	Water	11/07/19 08:40	11/08/19 20:00	
460-196258-7	WSG-MW4-10-0	Water	11/07/19 09:45	11/08/19 20:00	
460-196258-8	WSG-MW3-10-0	Water	11/07/19 11:00	11/08/19 20:00	
460-196258-9	WSG-MW5-13-0	Water	11/07/19 12:00	11/08/19 20:00	
460-196258-10	WSG-GW3-18-0	Water	11/07/19 12:25	11/08/19 20:00	
460-196258-11	WSG-GW3-28-0	Water	11/07/19 11:30	11/08/19 20:00	
460-196258-12	WSG-GW3-8-0	Water	11/07/19 13:25	11/08/19 20:00	
460-196258-13	WSG-EB-MW-20191107	Water	11/07/19 13:15	11/08/19 20:00	
460-196258-14	WSG-GW4-5-0	Water	11/07/19 08:30	11/08/19 20:00	
460-196258-15	WSG-TB-20191108	Water	11/08/19 00:00	11/08/19 20:00	
460-196258-16	WSG-GW2-9-0	Water	11/08/19 11:30	11/08/19 20:00	
460-196258-17	WSG-GW2-19-0	Water	11/08/19 09:45	11/08/19 20:00	
460-196258-18	WSG-GW2-29-0	Water	11/08/19 08:35	11/08/19 20:00	
460-196258-19	WSG-GW2-29-1	Water	11/08/19 08:35	11/08/19 20:00	
460-196258-20	WSG-GS2-0.5-2.0-0	Solid	11/07/19 14:20	11/08/19 20:00	
460-196258-21	WSG-GS2-6.0-8.0-0	Solid	11/07/19 14:30	11/08/19 20:00	
460-196258-22	WSG-GS2-0.5-2.0-1	Solid	11/07/19 14:20	11/08/19 20:00	
460-196258-23	WSG-S21-0.0-0.2-0	Solid	11/08/19 08:35	11/08/19 20:00	
460-196258-24	WSG-S21-0.5-2.0-0	Solid	11/08/19 08:45	11/08/19 20:00	
460-196258-25	WSG-S22-0.0-0.2-0	Solid	11/08/19 09:05	11/08/19 20:00	
460-196258-26	WSG-S22-0.5-2.0-0	Solid	11/08/19 09:15	11/08/19 20:00	
460-196258-27	WSG-S19-0.0-0.2-0	Solid	11/08/19 11:05	11/08/19 20:00	
460-196258-28	WSG-S19-0.5-2.0-0	Solid	11/08/19 11:15	11/08/19 20:00	
460-196258-29	WSG-S20-0.0-0.2-0	Solid	11/08/19 10:25	11/08/19 20:00	
460-196258-30	WSG-S20-0.5-2.0-0	Solid	11/08/19 10:35	11/08/19 20:00	

Sample Summary

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196259-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
460-196259-1	WSG-S14-0.0-0.2-0	Solid	11/05/19 09:10	11/06/19 18:40	
460-196259-2	WSG-S14-0.5-2.0-0	Solid	11/05/19 09:20	11/06/19 18:40	
460-196259-3	WSG-S10-0.0-0.2-0	Solid	11/05/19 09:35	11/06/19 18:40	
460-196259-4	WSG-S10-0.5-2.0-0	Solid	11/05/19 09:45	11/06/19 18:40	
460-196259-5	WSG-S1-0.0-0.2-0	Solid	11/05/19 09:55	11/06/19 18:40	
460-196259-6	WSG-S1-0.5-2.0-0	Solid	11/05/19 10:05	11/06/19 18:40	
460-196259-7	WSG-S11-0.0-0.2-0	Solid	11/05/19 10:20	11/06/19 18:40	
460-196259-8	WSG-S11-0.5-2.0-0	Solid	11/05/19 10:30	11/06/19 18:40	
460-196259-9	WSG-S16-0.0-0.2-0	Solid	11/05/19 10:45	11/06/19 18:40	
460-196259-10	WSG-S16-0.5-2.0-0	Solid	11/05/19 10:55	11/06/19 18:40	
460-196259-11	WSG-S16-0.0-0.2-1	Solid	11/05/19 10:45	11/06/19 18:40	
460-196259-12	WSG-S17-0.0-0.2-0	Solid	11/05/19 13:35	11/06/19 18:40	
460-196259-13	WSG-S17-0.5-2.0-0	Solid	11/05/19 13:45	11/06/19 18:40	
460-196259-14	WSG-S18-0.0-0.2-0	Solid	11/05/19 14:00	11/06/19 18:40	
460-196259-15	WSG-S18-0.5-2.0-0	Solid	11/05/19 14:10	11/06/19 18:40	
460-196259-16	WSG-S23-0.0-0.2-0	Solid	11/05/19 14:20	11/06/19 18:40	
460-196259-17	WSG-S23-0.5-2.0-0	Solid	11/05/19 14:30	11/06/19 18:40	
460-196259-18	WSG-DEB-GR-0	Solid	11/05/19 12:10	11/06/19 18:40	
460-196259-19	WSG-G55-7-8-0	Solid	11/05/19 12:55	11/06/19 18:40	
460-196259-20	WSG-GS3-0.0-0.2-0	Solid	11/05/19 13:25	11/06/19 18:40	
460-196259-21	WSG-GS3-0.5-2.0-0	Solid	11/05/19 13:30	11/06/19 18:40	
460-196259-22	WSG-GS3-4-6-0	Solid	11/05/19 13:40	11/06/19 18:40	
460-196259-23	WSG-GS4-0.0-0.2-0	Solid	11/04/19 09:00	11/06/19 18:40	
460-196259-24	WSG-GS4-0.5-2.0-0	Solid	11/04/19 09:10	11/06/19 18:40	
460-196259-25	WSG-GS7-0.0-0.2-0	Solid	11/04/19 10:20	11/06/19 18:40	
460-196259-26	WSG-GS7-0.5-2.0-0	Solid	11/04/19 10:30	11/06/19 18:40	
460-196259-27	WSG-GS7-2.0-3.5-0	Solid	11/04/19 10:40	11/06/19 18:40	
460-196259-28	WSG-GS4-2.5-3.5-0	Solid	11/04/19 09:20	11/06/19 18:40	
460-196259-29	WSG-GS8-0.0-0.2-0	Solid	11/04/19 11:20	11/06/19 18:40	
460-196259-30	WSG-GS8-0.5-2.0-0	Solid	11/04/19 11:30	11/06/19 18:40	
460-196259-31	WSG-GS5-0.0-0.2-0	Solid	11/04/19 13:20	11/06/19 18:40	
460-196259-32	WSG-GS5-0.5-2.0-0	Solid	11/04/19 13:30	11/06/19 18:40	
460-196259-33	WSG-S15-0.0-0.2-0	Solid	11/05/19 11:50	11/06/19 18:40	
460-196259-34	WSG-S15-0.5-2.0-0	Solid	11/05/19 12:00	11/06/19 18:40	
460-196259-35	WSG-S12-0.0-0.2-0	Solid	11/04/19 16:05	11/06/19 18:40	
460-196259-36	WSG-S12-0.5-2.0-0	Solid	11/04/19 16:15	11/06/19 18:40	
460-196259-37	WSG-S13-0.0-0.2-0	Solid	11/04/19 15:45	11/06/19 18:40	
460-196259-38	WSG-S13-0.5-2.0-0	Solid	11/04/19 15:55	11/06/19 18:40	
460-196259-39	WSG-GW7-6-0	Water	11/05/19 11:45	11/06/19 18:40	
460-196259-40	WSG-GW7-15-0	Water	11/05/19 10:45	11/06/19 18:40	
460-196259-42	WSG-TB-20191106	Water	11/06/19 00:00	11/06/19 18:40	
460-196259-43	WSG-MW8-25-0	Water	11/06/19 10:00	11/06/19 18:40	
460-196259-44	WSG-MW8-25-1	Water	11/06/19 10:00	11/06/19 18:40	
460-196259-45	WSG-GW5-28-0	Water	11/06/19 10:20	11/06/19 18:40	
460-196259-46	WSG-MW2-10-0	Water	11/06/19 11:10	11/06/19 18:40	
460-196259-47	WSG-GW5-18-0	Water	11/06/19 11:25	11/06/19 18:40	

Sample Summary

Client: New York State D.E.C.
 Project/Site: DEC - WAINSCOTT SAND & GRAVEL
 SITE:15225

Job ID: 460-196639-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
460-196639-1	WSG-GS6-0.0-0.2-0	Solid	11/11/19 08:00	11/15/19 21:07	
460-196639-2	WSG-GS6-0.5-2.0-0	Solid	11/11/19 08:10	11/15/19 21:07	
460-196639-3	WSG-GS6-6-8-0	Solid	11/11/19 08:20	11/15/19 21:07	
460-196639-4	WSG-GS6-6-8-1	Solid	11/11/19 08:20	11/15/19 21:07	
460-196639-5	WSG-S6-0.0-0.2-0	Solid	11/11/19 09:35	11/15/19 21:07	
460-196639-6	WSG-S6-0.5-2.0-0	Solid	11/11/19 09:45	11/15/19 21:07	
460-196639-7	WSG-S2-0.0-0.2-0	Solid	11/11/19 09:55	11/15/19 21:07	
460-196639-8	WSG-S2-0.5-2.0-0	Solid	11/11/19 10:00	11/15/19 21:07	
460-196639-9	WSG-S7-0.0-0.2-0	Solid	11/11/19 10:15	11/15/19 21:07	
460-196639-10	WSG-S7-0.5-2.0-0	Solid	11/11/19 10:25	11/15/19 21:07	
460-196639-11	WSG-S3-0.0-0.2-0	Solid	11/11/19 10:35	11/15/19 21:07	
460-196639-12	WSG-S3-0.5-2.0-0	Solid	11/11/19 10:45	11/15/19 21:07	
460-196639-13	WSG-S4-0.0-0.2-0	Solid	11/11/19 10:55	11/15/19 21:07	
460-196639-14	WSG-S4-0.5-2.0-0	Solid	11/11/19 11:05	11/15/19 21:07	
460-196639-15	WSG-S5-0.0-0.2-0	Solid	11/11/19 11:15	11/15/19 21:07	
460-196639-16	WSG-S5-0.5-2.0-0	Solid	11/11/19 11:25	11/15/19 21:07	
460-196639-17	WSG-S8-0.0-0.2-0	Solid	11/11/19 12:50	11/15/19 21:07	
460-196639-18	WSG-S8-0.5-2.0-0	Solid	11/11/19 12:55	11/15/19 21:07	
460-196639-19	WSG-S9-0.0-0.2-0	Solid	11/11/19 13:15	11/15/19 21:07	
460-196639-20	WSG-S9-0.5-2.0-0	Solid	11/11/19 13:25	11/15/19 21:07	
460-196639-21	WSG-GS1-0.0-0.2-0	Solid	11/11/19 13:35	11/15/19 21:07	
460-196639-22	WSG-GS1-0.0-0.2-1	Solid	11/11/19 13:35	11/15/19 21:07	
460-196639-23	WSG-GS9-0.0-0.2-0	Solid	11/11/19 14:20	11/15/19 21:07	
460-196639-24	WSG-GS9-0.5-2.0-0	Solid	11/11/19 14:30	11/15/19 21:07	
460-196639-25	WSG-GS2-0.0-0.2-0	Solid	11/12/19 07:30	11/15/19 21:07	
460-196639-26	WSG-GS9-3.5-0	Solid	11/12/19 08:15	11/15/19 21:07	
460-196639-27	WSG-C10-COMP-0	Solid	11/12/19 08:50	11/15/19 21:07	
460-196639-28	WSG-C9-COMP-0	Solid	11/12/19 09:10	11/15/19 21:07	
460-196639-29	WSG-C12-COMP-0	Solid	11/12/19 09:25	11/15/19 21:07	
460-196639-30	WSG-C12-COMP-1	Solid	11/12/19 09:25	11/15/19 21:07	
460-196639-31	WSG-C8-COMP-0	Solid	11/12/19 10:00	11/15/19 21:07	
460-196639-32	WSG-C11-COMP-0	Solid	11/12/19 09:45	11/15/19 21:07	
460-196639-33	WSG-C7-COMP-0	Solid	11/12/19 10:30	11/15/19 21:07	
460-196639-34	WSG-EB-LINER-20191111	Water	11/11/19 10:30	11/15/19 21:07	
460-196639-35	WSG-EB-SAMPLER-20191111	Water	11/11/19 13:30	11/15/19 21:07	
460-196639-36	WSG-GW6-29-0	Water	11/11/19 09:55	11/15/19 21:07	
460-196639-37	WSG-GW6-19-0	Water	11/11/19 12:00	11/15/19 21:07	
460-196639-38	WSG-GW6-9-0	Water	11/11/19 12:45	11/15/19 21:07	
460-196639-39	WSG-EB-SPOON-20191112	Water	11/12/19 08:00	11/15/19 21:07	
460-196639-40	WSG-EB-BOWL-20191112	Water	11/12/19 08:15	11/15/19 21:07	
460-196639-41	WSG-TB-20191112	Water	11/12/19 00:00	11/15/19 21:07	
460-196639-42	WSG-GW9-26-0	Water	11/12/19 10:20	11/15/19 21:07	
460-196639-43	WSG-GW9-16-0	Water	11/12/19 11:20	11/15/19 21:07	
460-196639-44	WSG-C6-COMP-0	Solid	11/12/19 10:40	11/15/19 21:07	
460-196639-45	WSG-C5-COMP-0	Solid	11/12/19 10:50	11/15/19 21:07	
460-196639-46	WSG-GS1-0.5-2.0-0	Solid	11/11/19 13:50	11/15/19 21:07	

Sample Summary

Client: New York State D.E.C.
Project/Site: DEC - WAINSCOTT SAND & GRAVEL
SITE:15225

Job ID: 460-196770-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
460-196770-1	WSG-C1-COMP-O	Solid	11/12/19 13:15	11/14/19 19:00	
460-196770-2	WSG-C2-COMP-O	Solid	11/12/19 13:05	11/14/19 19:00	
460-196770-3	WSG-GW9-6.0	Water	11/12/19 12:35	11/14/19 19:00	
460-196770-4	WSG-EB-SAMPLER-20191112	Water	11/12/19 13:30	11/14/19 19:00	
460-196770-5	WSG-C3-COMP-O	Solid	11/12/19 13:00	11/14/19 19:00	
460-196770-6	WSG-C4-COMP-O	Solid	11/12/19 12:45	11/14/19 19:00	
460-196770-7	WSG-GS8-16.5-18.5-0	Solid	11/13/19 07:30	11/14/19 19:00	
460-196770-8	WSG-GW8-39.0	Water	11/13/19 10:30	11/14/19 19:00	
460-196770-9	WSG-GW8-29.0	Water	11/13/19 11:40	11/14/19 19:00	
460-196770-10	WSG-GW8-19.0	Water	11/13/19 12:15	11/14/19 19:00	
460-196770-11	WSG-GS1-6.8-0	Solid	11/14/19 07:20	11/14/19 19:00	
460-196770-12	WSG-TB-20191114	Water	11/14/19 00:00	11/14/19 19:00	
460-196770-13	WSG-GW1-29.0	Water	11/14/19 09:45	11/14/19 19:00	
460-196770-14	WSG-GW1-19.0	Water	11/14/19 10:40	11/14/19 19:00	
460-196770-15	WSG-GW1-9.0	Water	11/14/19 11:20	11/14/19 19:00	
460-196770-16	WSG-GW1-9.1	Water	11/14/19 11:20	11/14/19 19:00	



Appendix D

Soil Boring Logs



**GEOLOGIC
BORING LOG**

DATE / TIME STARTED
11/11/19 @ 1335

BORING ID:
GS-1

PROJECT NAME: WA #51 Wainscott Sand & Gravel

DRILLING CONTRACTOR:
Associated Environmental Services, Ltd.

DATE / TIME COMPLETED
11/11/19 @ 1350

TOTAL DEPTH 8 ft

LOCATION: Wainscott, New York

CLIENT: NYSDEC

DRILLER: "Mike"

GROUNDWATER:

BORING LOCATION:

CONTRACT: D007625 NYSDEC Standby Contract

EQUIPMENT: Geoprobe

DEPTH: 9 ft bgs

X: 89025.32

ASSIGNMENT: Work Assignment # 51

METHOD: Direct Push Technology

DATE / TIME:

Y: 447656.77

HDR PROJECT #: 10178016

BORE DIAM.: 2.25" OD

SAMPLER TYPE

METHOD:

COORDINATE SYSTEM:

HDR INSPECTOR: M. VIOLETTE

Peristaltic pump

Horizontal Datum WGS84

DEPTH (FT)	ELEVATION (msl)	RATE (FT/)	SAMPLE (Y/N)	ADVANCED / RECOVERY	SAMPLE INTERVAL	CO	H2S	PID	DESCRIPTION AND CLASSIFICATION	REMARKS
						LEL	O2			
0					Sample 0 - 0.2'				0 - 6': Not logged	Soil samples 0 - 0.2' and 0.5 - 2.0' submitted for metals, VOCs, SVOCs, PCBs, pesticides, herbicides, PFAS, and 1,4-dioxane analysis.
					Sample 0.5 - 2.0'					
5										Sample 6.0 - 8.0' submitted for PFAS analysis.
					Sample 6.0 - 8.0'					
10										Water samples at 9' submitted for metals, VOCs, SVOCs, PCBs, pesticides, herbicides, PFAS, and 1,4-dioxane analysis.
15										Water samples at 19' and 29' submitted for PFAS analysis.
20										Soil field duplicate collected at surface.
25										Water field duplicate collected at 9'.
30										
35										
40										



**GEOLOGIC
BORING LOG**

DATE / TIME STARTED
11/12/19 @ 0730

BORING ID:
GS-2

PROJECT NAME: WA #51 Wainscott Sand & Gravel

DRILLING CONTRACTOR:
Associated Environmental Services, Ltd.

DATE / TIME COMPLETED
11/12/19 @ 0830

TOTAL DEPTH 8 ft

LOCATION: Wainscott, New York

CLIENT: NYSDEC

DRILLER: "Mike"

GROUNDWATER:

BORING LOCATION:

CONTRACT: D007625 NYSDEC Standby Contract

EQUIPMENT: Geoprobe

DEPTH: 9 ft bgs

X: 88879.86

ASSIGNMENT: Work Assignment # 51

METHOD: Direct Push Technology

DATE / TIME:

Y: 447695.34

HDR PROJECT #: 10178016

BORE DIAM.:
2.25" OD

SAMPLER TYPE
Peristaltic pump

METHOD:

COORDINATE SYSTEM:
Horizontal Datum WGS84

HDR INSPECTOR: C. BUDD

DEPTH (FT)	ELEVATION (msl)	RATE (FT/)	SAMPLE (Y/N)	ADVANCED / RECOVERY	SAMPLE INTERVAL	CO	H2S	PID	DESCRIPTION AND CLASSIFICATION	REMARKS
						LEL	O2			
0					Sample 0 - 0.2'				0 - 6': Not logged	Soil samples 0 - 0.2' and 0.5 - 2.0' submitted for metals, VOCs, SVOCs, PCBs, pesticides, herbicides, PFAS, and 1,4-dioxane analysis. Sample 6.0 - 8.0' submitted for PFAS analysis.
					Sample 0.5 - 2.0'					
5										
					Sample 6.0 - 8.0'					
10										
										Water samples at 9' submitted for metals, VOCs, SVOCs, PCBs, pesticides, herbicides, PFAS, and 1,4-dioxane analysis.
15										Water samples at 19' and 29' submitted for PFAS analysis.
20										Soil field duplicate collected at 0.5 - 2.0'.
										Water field duplicate collected at 29'.
25										
30										
35										
40										



**GEOLOGIC
BORING LOG**

DATE / TIME STARTED
11/5/19 @ 1315

BORING ID:
GS-3

PROJECT NAME: WA #51 Wainscott Sand & Gravel
LOCATION: Wainscott, New York
CLIENT: NYSDEC
CONTRACT: D007625 NYSDEC Standby Contract
ASSIGNMENT: Work Assignment # 51
HDR PROJECT #: 10178016
HDR INSPECTOR: S. ENGLERT

DRILLING CONTRACTOR: Associated Environmental Services, Ltd.
DRILLER: "Mike"
EQUIPMENT: Geoprobe
METHOD: Direct Push Technology
BORE DIAM.: 2.25" OD
SAMPLER TYPE: Peristaltic pump

DATE / TIME COMPLETED: 11/5/19 @ 1340
GROUNDWATER:
DEPTH: 8 ft bgs
DATE / TIME:
METHOD:

TOTAL DEPTH: 6 ft
BORING LOCATION:
X: 88798.9
Y: 447772.58
COORDINATE SYSTEM:
 Horizontal Datum WGS84

DEPTH (FT)	ELEVATION (msl)	RATE (FT/)	SAMPLE (Y/N)	ADVANCED / RECOVERY	SAMPLE INTERVAL	CO	H2S	PID	DESCRIPTION AND CLASSIFICATION	REMARKS
						LEL	O2			
0					Sample 0 - 0.2'				0 - 6': Not logged	Soil samples 0 - 0.2' and 0.5 - 2.0' submitted for metals, VOCs, SVOCs, PCBs, pesticides, herbicides, PFAS, and 1,4-dioxane analysis.
					Sample 0.5 - 2.0'					
5										Sample 4.0 - 6.0' submitted for PFAS analysis.
					Sample 4.0 - 6.0'					
10										Water sample at 8' submitted for metals, VOCs, SVOCs, PCBs, pesticides, herbicides, PFAS, and 1,4-dioxane analysis.
15										Water samples at 18' and 28' submitted for PFAS analysis.
20										Water MS/MSD collected at 18'.
25										
30										
35										
40										



**GEOLOGIC
BORING LOG**

DATE / TIME STARTED
11/4/19 @ 0845

BORING ID:
GS-4

PROJECT NAME: WA #51 Wainscott Sand & Gravel

DRILLING CONTRACTOR:
Associated Environmental Services, Ltd.

DATE / TIME COMPLETED
11/4/19 @ 1000

TOTAL DEPTH 3.5 ft

LOCATION: Wainscott, New York

CLIENT: NYSDEC

DRILLER: "Mike"

GROUNDWATER:

BORING LOCATION:

CONTRACT: D007625 NYSDEC Standby Contract

EQUIPMENT: Geoprobe

DEPTH: 4 ft bgs

X: 88595.01

ASSIGNMENT: Work Assignment # 51

METHOD: Direct Push Technology

DATE / TIME:

Y: 447694.4

HDR PROJECT #: 10178016

BORE DIAM.:
2.25" OD

SAMPLER TYPE
Peristaltic pump

METHOD:

COORDINATE SYSTEM:
Horizontal Datum WGS84

HDR INSPECTOR: S. ENGLERT

DEPTH (FT)	ELEVATION (msl)	RATE (FT/)	SAMPLE (Y/N)	ADVANCED / RECOVERY	SAMPLE INTERVAL	CO	H2S	PID	DESCRIPTION AND CLASSIFICATION	REMARKS
						LEL	O2			
0					Sample 0 - 0.2'				0 - 1': Compacted gravelly soil	Soil samples 0 - 0.2' and 0.5 - 2.0' submitted for metals, VOCs, SVOCs, PCBs, pesticides, herbicides, PFAS, and 1,4-dioxane analysis. Sample 2.5 - 3.5' submitted for PFAS analysis.
					Sample 0.5 - 2.0'				1' - 3.5': Less gravel/less consolidated	
					Sample 2.5 - 3.5'					
5										Water sample at 5' submitted for metals, VOCs, SVOCs, PCBs, pesticides, herbicides, PFAS, and 1,4-dioxane analysis. Water samples at 15' and 25' submitted for PFAS analysis.
10										
15										
20										
25										
30										
35										
40										



**GEOLOGIC
BORING LOG**

DATE / TIME STARTED
11/4/19 @ 1200

BORING ID:
GS-5

PROJECT NAME: WA #51 Wainscott Sand & Gravel
LOCATION: Wainscott, New York
CLIENT: NYSDEC
CONTRACT: D007625 NYSDEC Standby Contract
ASSIGNMENT: Work Assignment # 51
HDR PROJECT #: 10178016
HDR INSPECTOR: S. ENGLERT

DRILLING CONTRACTOR: Associated Environmental Services, Ltd.
DRILLER: "Mike"
EQUIPMENT: Geoprobe
METHOD: Direct Push Technology
BORE DIAM.: 2.25" OD
SAMPLER TYPE: Peristaltic pump

DATE / TIME COMPLETED: 11/5/19 @ 1255
GROUNDWATER:
DEPTH: 8 ft bgs
DATE / TIME:
METHOD:

TOTAL DEPTH: 10 ft
BORING LOCATION:
X: 88664.46
Y: 447808.43
COORDINATE SYSTEM:
 Horizontal Datum WGS84

DEPTH (FT)	ELEVATION (msl)	RATE (FT/)	SAMPLE (Y/N)	ADVANCED / RECOVERY	SAMPLE INTERVAL	CO	H2S	PID	DESCRIPTION AND CLASSIFICATION	REMARKS
						LEL	O2			
0					Sample 0 - 0.2'				0 - 0.2': Compacted till-like sand and gravel	Soil samples 0 - 0.2' and 0.5 - 2.0' submitted for metals, VOCs, SVOCs, PCBs, pesticides, herbicides, PFAS, and 1,4-dioxane analysis. Sample 7.0 - 8.0' submitted for PFAS analysis.
					Sample 0.5 - 2.0'				0.5 - 2.0': SAND and little embedded gravel, reddish brown-orange	
5									Perched water infiltrating at ~2.5 - 3 ft bgs	
					Sample 7.0 - 8.0'				Fill material above water: medium brown-gray SAND, trace fine sand, little silt	Water sample at 8' submitted for metals, VOCs, SVOCs, PCBs, pesticides, herbicides, PFAS, and 1,4-dioxane analysis. Water samples at 18' and 28' submitted for PFAS analysis.
10										
15										
20										
25										
30										
35										
40										



**GEOLOGIC
BORING LOG**

DATE / TIME STARTED

11/11/19 @ 0800

BORING ID:

GS-6

PROJECT NAME: WA #51 Wainscott Sand & Gravel

DRILLING CONTRACTOR:

DATE / TIME COMPLETED

11/11/19 @ 0820

TOTAL DEPTH 8 ft

LOCATION: Wainscott, New York

Associated Environmental Services, Ltd.

CLIENT: NYSDEC

DRILLER: "Mike"

GROUNDWATER:

BORING LOCATION:

CONTRACT: D007625 NYSDEC Standby Contract

EQUIPMENT: Geoprobe

DEPTH: 9 ft bgs

X: 88662.1

ASSIGNMENT: Work Assignment # 51

METHOD: Direct Push Technology

DATE / TIME:

Y: 447921.69

HDR PROJECT #: 10178016

BORE DIAM.: 2.25" OD

SAMPLER TYPE

METHOD:

COORDINATE SYSTEM:

HDR INSPECTOR: M. VIOLETTE

Peristaltic pump

Horizontal Datum WGS84

DEPTH (FT)	ELEVATION (msl)	RATE (FT/)	SAMPLE (Y/N)	ADVANCED / RECOVERY	SAMPLE INTERVAL	CO	H2S	PID	DESCRIPTION AND CLASSIFICATION	REMARKS
						LEL	O2			
0					Sample 0 - 0.2'				0 - 8': Not logged	Soil samples 0 - 0.2' and 0.5 - 2.0' submitted for metals, VOCs, SVOCs, PCBs, pesticides, herbicides, PFAS, and 1,4-dioxane analysis.
					Sample 0.5 - 2.0'					
5										Sample 6.0 - 8.0' submitted for PFAS analysis.
					Sample 6.0 - 8.0'					
10										Water samples at 9' submitted for metals, VOCs, SVOCs, PCBs, pesticides, herbicides, PFAS, and 1,4-dioxane analysis.
15										Water samples at 19' and 29' submitted for PFAS analysis.
20										Soil field duplicate collected at 6.0 - 8.0'.
25										
30										
35										
40										



**GEOLOGIC
BORING LOG**

DATE / TIME STARTED
11/4/19 @ 1015

BORING ID:
GS-7

PROJECT NAME: WA #51 Wainscott Sand & Gravel
LOCATION: Wainscott, New York
CLIENT: NYSDEC
CONTRACT: D007625 NYSDEC Standby Contract
ASSIGNMENT: Work Assignment # 51
HDR PROJECT #: 10178016
HDR INSPECTOR: S. ENGLERT

DRILLING CONTRACTOR: Associated Environmental Services, Ltd.
DRILLER: "Mike"
EQUIPMENT: Geoprobe
METHOD: Direct Push Technology
BORE DIAM.: 2.25" OD
SAMPLER TYPE: Peristaltic pump

DATE / TIME COMPLETED: 11/4/19 @ 1100
GROUNDWATER:
DEPTH: 6 ft bgs
DATE / TIME:
METHOD:

TOTAL DEPTH: 3.5 ft
BORING LOCATION:
X: 88470.86
Y: 447891.57
COORDINATE SYSTEM:
 Horizontal Datum WGS84

DEPTH (FT)	ELEVATION (msl)	RATE (FT/)	SAMPLE (Y/N)	ADVANCED / RECOVERY	SAMPLE INTERVAL	CO	H2S	PID	DESCRIPTION AND CLASSIFICATION	REMARKS
						LEL	O2			
0					Sample 0 - 0.2'				0 - 1': Compacted SAND and gravel 1' - 3.5': Less compacted SAND and gravel	Soil samples 0 - 0.2' and 0.5 - 2.0' submitted for metals, VOCs, SVOCs, PCBs, pesticides, herbicides, PFAS, and 1,4-dioxane analysis. Sample 2.0 - 3.5' submitted for PFAS analysis.
					Sample 0.5 - 2.0'					
					Sample 2.0 - 3.5'					
5										Water samples at 6' submitted for metals, VOCs, SVOCs, PCBs, pesticides, herbicides, PFAS, and 1,4-dioxane analysis. Water samples at 15' and 25' submitted for PFAS analysis.
10										
15										
20										
25										
30										
35										
40										



**GEOLOGIC
BORING LOG**

DATE / TIME STARTED
11/4/19 @ 1110

BORING ID:
GS-8

PROJECT NAME: WA #51 Wainscott Sand & Gravel
LOCATION: Wainscott, New York
CLIENT: NYSDEC
CONTRACT: D007625 NYSDEC Standby Contract
ASSIGNMENT: Work Assignment # 51
HDR PROJECT #: 10178016
HDR INSPECTOR: S. ENGLERT

DRILLING CONTRACTOR: Associated Environmental Services, Ltd.
DRILLER: "Mike"
EQUIPMENT: Geoprobe
METHOD: Direct Push Technology
BORE DIAM.: 2.25" OD
SAMPLER TYPE: Peristaltic pump

DATE / TIME COMPLETED: 11/13/19 @ 1200
GROUNDWATER:
DEPTH: 19 ft bgs
DATE / TIME:
METHOD:

TOTAL DEPTH: 18.5 ft
BORING LOCATION:
X: 88448.82
Y: 447994.47
COORDINATE SYSTEM:
 Horizontal Datum WGS84

DEPTH (FT)	ELEVATION (msl)	RATE (FT/)	SAMPLE (Y/N)	ADVANCED / RECOVERY	SAMPLE INTERVAL	CO	H2S	PID	DESCRIPTION AND CLASSIFICATION	REMARKS
						LEL	O2			
0					Sample 0 - 0.2'				0 - 9.5': Well-sorted fine-to-medium SAND with little embedded gravel, tan-orange	Soil samples 0 - 0.2' and 0.5 - 2.0' submitted for metals, VOCs, SVOCs, PCBs, pesticides, herbicides, PFAS, and 1,4-dioxane analysis. Sample 16.5 - 18.5' submitted for PFAS analysis.
					Sample 0.5 - 2.0'					
5										
10										
15					Sample 16.5 - 18.5'					Water samples at 19' submitted for metals, VOCs, SVOCs, PCBs, pesticides, herbicides, PFAS, and 1,4-dioxane analysis. Water samples at 29' and 39' submitted for PFAS analysis.
20										
25										
30										
35										
40										



**GEOLOGIC
BORING LOG**

DATE / TIME STARTED
11/11/19 @ 1420

BORING ID:
GS-9

PROJECT NAME: WA #51 Wainscott Sand & Gravel

DRILLING CONTRACTOR:
Associated Environmental Services, Ltd.

DATE / TIME COMPLETED
11/11/19 @ 1430

TOTAL DEPTH 5 ft

LOCATION: Wainscott, New York

CLIENT: NYSDEC

DRILLER: "Mike"

GROUNDWATER:

BORING LOCATION:

CONTRACT: D007625 NYSDEC Standby Contract

EQUIPMENT: Geoprobe

DEPTH: 6 ft bgs

X: 88938.43

ASSIGNMENT: Work Assignment # 51

METHOD: Direct Push Technology

DATE / TIME:

Y: 447544.22

HDR PROJECT #: 10178016

BORE DIAM.: 2.25" OD

SAMPLER TYPE

METHOD:

COORDINATE SYSTEM:

HDR INSPECTOR: M. VIOLETTE

Peristaltic pump

Horizontal Datum WGS84

DEPTH (FT)	ELEVATION (msl)	RATE (FT/)	SAMPLE (Y/N)	ADVANCED / RECOVERY	SAMPLE INTERVAL	CO	H2S	PID	DESCRIPTION AND CLASSIFICATION	REMARKS
						LEL	O2			
0					Sample 0 - 0.2'				0 - 6': Not logged	Soil samples 0 - 0.2' and 0.5 - 2.0' submitted for metals, VOCs, SVOCs, PCBs, pesticides, herbicides, PFAS, and 1,4-dioxane analysis. Sample 3.0 - 5.0' submitted for PFAS analysis.
				Sample 0.5 - 2.0'						
				Sample 3.0 - 5.0'						
5										
10										
15										Water samples at 6' submitted for metals, VOCs, SVOCs, PCBs, pesticides, herbicides, PFAS, and 1,4-dioxane analysis. Water samples at 16' and 26' submitted for PFAS analysis.
20										
25										Soil MS/MSD collected at 0.5 - 2.0' and 3.0 - 5.0'.
30										
35										
40										



**GEOLOGIC
BORING LOG**

DATE / TIME STARTED
11/5/19 @ 0955

BORING ID:
S-1

PROJECT NAME: WA #51 Wainscott Sand & Gravel

DRILLING CONTRACTOR:

DATE / TIME COMPLETED
11/5/19 @ 1005

TOTAL DEPTH 2.0 ft

LOCATION: Wainscott, New York

CLIENT: NYSDEC

DRILLER:

GROUNDWATER:

BORING LOCATION:

CONTRACT: D007625 NYSDEC Standby Contract

EQUIPMENT:

DEPTH: ft bgs

X: 88995.92

ASSIGNMENT: Work Assignment # 51

METHOD:

DATE / TIME:

Y: 447441.2

HDR PROJECT #: 10178016

BORE DIAM.:

SAMPLER TYPE

METHOD:

COORDINATE SYSTEM:

HDR INSPECTOR: M. VIOLETTE

Horizontal Datum WGS84

DEPTH (FT)	ELEVATION (msl)	RATE (FT/)	SAMPLE (Y/N)	ADVANCED / RECOVERY	SAMPLE INTERVAL	CO	H2S	PID	DESCRIPTION AND CLASSIFICATION	REMARKS
						LEL	O2			
0					Sample 0 - 0.2'				0 - 2.0': Fine SAND, some 1-inch gravel, light brown, dry	Soil samples 0 - 0.2' and 0.5 - 2.0' submitted for PFAS analysis.
					Sample 0.5 - 2.0'					
5										
10										
15										
20										
25										
30										
35										
40										



**GEOLOGIC
BORING LOG**

DATE / TIME STARTED
11/11/19 @ 0955

BORING ID:
S-2

PROJECT NAME: WA #51 Wainscott Sand & Gravel

DRILLING CONTRACTOR:

DATE / TIME COMPLETED
11/11/19 @ 1000

TOTAL DEPTH 2.0 ft

LOCATION: Wainscott, New York

DRILLER:

GROUNDWATER:

BORING LOCATION:
X: 89046.65

CLIENT: NYSDEC

EQUIPMENT:

DEPTH: ft bgs

Y: 447582.94

CONTRACT: D007625 NYSDEC Standby Contract

METHOD:

DATE / TIME:

COORDINATE SYSTEM:
Horizontal Datum WGS84

ASSIGNMENT: Work Assignment # 51

BORE DIAM.:

METHOD:

COORDINATE SYSTEM:
Horizontal Datum WGS84

HDR PROJECT #: 10178016

SAMPLER TYPE

METHOD:

COORDINATE SYSTEM:
Horizontal Datum WGS84

HDR INSPECTOR: M. VIOLETTE

DEPTH (FT)	ELEVATION (msl)	RATE (FT/)	SAMPLE (Y/N)	ADVANCED / RECOVERY	SAMPLE INTERVAL	CO	H2S	PID	DESCRIPTION AND CLASSIFICATION	REMARKS
						LEL	O2			
0					Sample 0 - 0.2'				0 - 2.0': Mostly TOPSOIL, trace light brown silt at 0.5', trace fine medium sand, brown	Soil samples 0 - 0.2' and 0.5 - 2.0' submitted for PFAS analysis.
					Sample 0.5 - 2.0'					
5										
10										
15										
20										
25										
30										
35										
40										



**GEOLOGIC
BORING LOG**

DATE / TIME STARTED
11/11/19 @ 1035

BORING ID:
S-3

PROJECT NAME: WA #51 Wainscott Sand & Gravel

DRILLING CONTRACTOR:

DATE / TIME COMPLETED
11/11/19 @ 1045

TOTAL DEPTH 2.0 ft

LOCATION: Wainscott, New York

CLIENT: NYSDEC

DRILLER:

GROUNDWATER:

BORING LOCATION:

CONTRACT: D007625 NYSDEC Standby Contract

EQUIPMENT:

DEPTH: ft bgs

X: 89047.05

ASSIGNMENT: Work Assignment # 51

METHOD:

DATE / TIME:

Y: 447623.26

HDR PROJECT #: 10178016

BORE DIAM.:

SAMPLER TYPE

METHOD:

COORDINATE SYSTEM:

HDR INSPECTOR: M. VIOLETTE

Horizontal Datum WGS84

DEPTH (FT)	ELEVATION (msl)	RATE (FT/)	SAMPLE (Y/N)	ADVANCED / RECOVERY	SAMPLE INTERVAL	CO	H2S	PID	DESCRIPTION AND CLASSIFICATION	REMARKS
						LEL	O2			
0					Sample 0 - 0.2'				0 - 2.0': Not logged.	Soil samples 0 - 0.2' and 0.5 - 2.0' submitted for PFAS analysis.
					Sample 0.5 - 2.0'					
5										
10										
15										
20										
25										
30										
35										
40										



**GEOLOGIC
BORING LOG**

DATE / TIME STARTED
11/11/19 @ 1055

BORING ID:
S-4

PROJECT NAME: WA #51 Wainscott Sand & Gravel

DRILLING CONTRACTOR:

DATE / TIME COMPLETED
11/11/19 @ 1105

TOTAL DEPTH 2.0 ft

LOCATION: Wainscott, New York

CLIENT: NYSDEC

DRILLER:

GROUNDWATER:

BORING LOCATION:

CONTRACT: D007625 NYSDEC Standby Contract

EQUIPMENT:

DEPTH: ft bgs

X: 89053.15

ASSIGNMENT: Work Assignment # 51

METHOD:

DATE / TIME:

Y: 447639.98

HDR PROJECT #: 10178016

BORE DIAM.:

SAMPLER TYPE

METHOD:

COORDINATE SYSTEM:
Horizontal Datum WGS84

HDR INSPECTOR: M. VIOLETTE

DEPTH (FT)	ELEVATION (msl)	RATE (FT/)	SAMPLE (Y/N)	ADVANCED / RECOVERY	SAMPLE INTERVAL	CO	H2S	PID	DESCRIPTION AND CLASSIFICATION	REMARKS
						LEL	O2			
0					Sample 0 - 0.2'				0 - 2.0': Not logged.	Soil samples 0 - 0.2' and 0.5 - 2.0' submitted for PFAS analysis.
					Sample 0.5 - 2.0'					
5										
10										
15										
20										
25										
30										
35										
40										



**GEOLOGIC
BORING LOG**

DATE / TIME STARTED
11/11/19 @ 1115

BORING ID:
S-5

PROJECT NAME: WA #51 Wainscott Sand & Gravel

DRILLING CONTRACTOR:

DATE / TIME COMPLETED
11/11/19 @ 1125

TOTAL DEPTH 2.0 ft

LOCATION: Wainscott, New York

CLIENT: NYSDEC

DRILLER:

GROUNDWATER:

BORING LOCATION:

CONTRACT: D007625 NYSDEC Standby Contract

EQUIPMENT:

DEPTH: ft bgs

X: 89057.21

ASSIGNMENT: Work Assignment # 51

METHOD:

DATE / TIME:

Y: 447652.27

HDR PROJECT #: 10178016

BORE DIAM.:

SAMPLER TYPE

METHOD:

COORDINATE SYSTEM:
Horizontal Datum WGS84

HDR INSPECTOR: M. VIOLETTE

DEPTH (FT)	ELEVATION (msl)	RATE (FT/)	SAMPLE (Y/N)	ADVANCED / RECOVERY	SAMPLE INTERVAL	CO	H2S	PID	DESCRIPTION AND CLASSIFICATION	REMARKS
						LEL	O2			
0					Sample 0 - 0.2'				0 - 2.0': Not logged.	Soil samples 0 - 0.2' and 0.5 - 2.0' submitted for PFAS analysis.
					Sample 0.5 - 2.0'					
5										
10										
15										
20										
25										
30										
35										
40										



**GEOLOGIC
BORING LOG**

DATE / TIME STARTED
11/11/19 @ 0935

BORING ID:
S-6

PROJECT NAME: WA #51 Wainscott Sand & Gravel

DRILLING CONTRACTOR:

DATE / TIME COMPLETED
11/11/19 @ 0945

TOTAL DEPTH 2.0 ft

LOCATION: Wainscott, New York

CLIENT: NYSDEC

DRILLER:

GROUNDWATER:

BORING LOCATION:

CONTRACT: D007625 NYSDEC Standby Contract

EQUIPMENT:

DEPTH: ft bgs

X: 89069.88

ASSIGNMENT: Work Assignment # 51

METHOD:

DATE / TIME:

Y: 447683.28

HDR PROJECT #: 10178016

BORE DIAM.:

SAMPLER TYPE

METHOD:

COORDINATE SYSTEM:
Horizontal Datum WGS84

HDR INSPECTOR: M. VIOLETTE

DEPTH (FT)	ELEVATION (msl)	RATE (FT/)	SAMPLE (Y/N)	ADVANCED / RECOVERY	SAMPLE INTERVAL	CO	H2S	PID	DESCRIPTION AND CLASSIFICATION	REMARKS
						LEL	O2			
0					Sample 0 - 0.2'				0 - 2.0': Mostly TOPSOIL, trace light brown silt at 0.5', trace fine medium sand, brown	Soil samples 0 - 0.2' and 0.5 - 2.0' submitted for PFAS analysis. MS/MSD submitted for surface sample.
					Sample 0.5 - 2.0'					
5										
10										
15										
20										
25										
30										
35										
40										



**GEOLOGIC
BORING LOG**

DATE / TIME STARTED
11/11/19 @ 1015

BORING ID:
S-7

PROJECT NAME: WA #51 Wainscott Sand & Gravel

DRILLING CONTRACTOR:

DATE / TIME COMPLETED
11/11/19 @ 1025

TOTAL DEPTH 2.0 ft

LOCATION: Wainscott, New York

CLIENT: NYSDEC

DRILLER:

GROUNDWATER:

BORING LOCATION:

CONTRACT: D007625 NYSDEC Standby Contract

EQUIPMENT:

DEPTH: ft bgs

X: 89024.45

ASSIGNMENT: Work Assignment # 51

METHOD:

DATE / TIME:

Y: 447608.00

HDR PROJECT #: 10178016

BORE DIAM.:

SAMPLER TYPE

METHOD:

COORDINATE SYSTEM:

HDR INSPECTOR: M. VIOLETTE

Horizontal Datum WGS84

DEPTH (FT)	ELEVATION (msl)	RATE (FT/)	SAMPLE (Y/N)	ADVANCED / RECOVERY	SAMPLE INTERVAL	CO	H2S	PID	DESCRIPTION AND CLASSIFICATION	REMARKS
						LEL	O2			
0					Sample 0 - 0.2'				0 - 2.0': Mostly TOPSOIL.	Soil samples 0 - 0.2' and 0.5 - 2.0' submitted for PFAS analysis. MS/MSD submitted for 0.5 - 2.0' sample.
					Sample 0.5 - 2.0'					
5										
10										
15										
20										
25										
30										
35										
40										



**GEOLOGIC
BORING LOG**

DATE / TIME STARTED
11/11/19 @ 1250

BORING ID:
S-8

PROJECT NAME: WA #51 Wainscott Sand & Gravel

DRILLING CONTRACTOR:

DATE / TIME COMPLETED
11/11/19 @ 1255

TOTAL DEPTH 2.0 ft

LOCATION: Wainscott, New York

CLIENT: NYSDEC

DRILLER:

GROUNDWATER:

BORING LOCATION:

CONTRACT: D007625 NYSDEC Standby Contract

EQUIPMENT:

DEPTH: ft bgs

X: 89022.31

ASSIGNMENT: Work Assignment # 51

METHOD:

DATE / TIME:

Y: 447641.78

HDR PROJECT #: 10178016

BORE DIAM.:

SAMPLER TYPE

METHOD:

COORDINATE SYSTEM:

HDR INSPECTOR: M. VIOLETTE

Horizontal Datum WGS84

DEPTH (FT)	ELEVATION (msl)	RATE (FT/)	SAMPLE (Y/N)	ADVANCED / RECOVERY	SAMPLE INTERVAL	CO	H2S	PID	DESCRIPTION AND CLASSIFICATION	REMARKS
						LEL	O2			
0					Sample 0 - 0.2'				0 - 2.0': Not logged.	Soil samples 0 - 0.2' and 0.5 - 2.0' submitted for PFAS analysis.
					Sample 0.5 - 2.0'					
5										
10										
15										
20										
25										
30										
35										
40										



**GEOLOGIC
BORING LOG**

DATE / TIME STARTED
11/11/19 @ 1315

BORING ID:
S-9

PROJECT NAME: WA #51 Wainscott Sand & Gravel

DRILLING CONTRACTOR:

DATE / TIME COMPLETED
11/11/19 @ 1325

TOTAL DEPTH 2.0 ft

LOCATION: Wainscott, New York

CLIENT: NYSDEC

DRILLER:

GROUNDWATER:

BORING LOCATION:

CONTRACT: D007625 NYSDEC Standby Contract

EQUIPMENT:

DEPTH: ft bgs

X: 89032.44

ASSIGNMENT: Work Assignment # 51

METHOD:

DATE / TIME:

Y: 447675.93

HDR PROJECT #: 10178016

BORE DIAM.:

SAMPLER TYPE

METHOD:

COORDINATE SYSTEM:
Horizontal Datum WGS84

HDR INSPECTOR: M. VIOLETTE

DEPTH (FT)	ELEVATION (msl)	RATE (FT/)	SAMPLE (Y/N)	ADVANCED / RECOVERY	SAMPLE INTERVAL	CO	H2S	PID	DESCRIPTION AND CLASSIFICATION	REMARKS
						LEL	O2			
0					Sample 0 - 0.2'				0 - 2.0': Not logged.	Soil samples 0 - 0.2' and 0.5 - 2.0' submitted for PFAS analysis.
					Sample 0.5 - 2.0'					
5										
10										
15										
20										
25										
30										
35										
40										



**GEOLOGIC
BORING LOG**

DATE / TIME STARTED
11/5/19 @ 0935

BORING ID:
S-10

PROJECT NAME: WA #51 Wainscott Sand & Gravel

DRILLING CONTRACTOR:

DATE / TIME COMPLETED
11/5/19 @ 0945

TOTAL DEPTH 2.0 ft

LOCATION: Wainscott, New York

DRILLER:

GROUNDWATER:

BORING LOCATION:

CLIENT: NYSDEC

EQUIPMENT:

DEPTH: ft bgs

X: 89014.32

CONTRACT: D007625 NYSDEC Standby Contract

METHOD:

DATE / TIME:

Y: 447792.27

ASSIGNMENT: Work Assignment # 51

BORE DIAM.:

METHOD:

COORDINATE SYSTEM:

HDR PROJECT #: 10178016

SAMPLER TYPE

METHOD:

Horizontal Datum WGS84

HDR INSPECTOR: M. VIOLETTE

DEPTH (FT)	ELEVATION (msl)	RATE (FT/)	SAMPLE (Y/N)	ADVANCED / RECOVERY	SAMPLE INTERVAL	CO	H2S	PID	DESCRIPTION AND CLASSIFICATION	REMARKS
						LEL	O2			
0					Sample 0 - 0.2'				0 - 2.0': Fine with some medium SAND, little gravel, light brown, dry	Soil samples 0 - 0.2' and 0.5 - 2.0' submitted for PFAS analysis.
					Sample 0.5 - 2.0'					
5										
10										
15										
20										
25										
30										
35										
40										



GEOLOGIC BORING LOG

DATE / TIME STARTED
11/5/19 @ 1020

BORING ID:
S-11

PROJECT NAME: WA #51 Wainscott Sand & Gravel

DRILLING CONTRACTOR:

DATE / TIME COMPLETED
11/5/19 @ 1030

TOTAL DEPTH 2.0 ft

LOCATION: Wainscott, New York

CLIENT: NYSDEC

DRILLER:

GROUNDWATER:

BORING LOCATION:

CONTRACT: D007625 NYSDEC Standby Contract

EQUIPMENT:

DEPTH: ft bgs

X: 88829.63

ASSIGNMENT: Work Assignment # 51

METHOD:

DATE / TIME:

Y: 447461.06

HDR PROJECT #: 10178016

BORE DIAM.:

SAMPLER TYPE

METHOD:

COORDINATE SYSTEM:
Horizontal Datum WGS84

HDR INSPECTOR: M. VIOLETTE

DEPTH (FT)	ELEVATION (msl)	RATE (FT/)	SAMPLE (Y/N)	ADVANCED / RECOVERY	SAMPLE INTERVAL	CO	H2S	PID	DESCRIPTION AND CLASSIFICATION	REMARKS
						LEL	O2			
0					Sample 0 - 0.2'				0 - 2.0': Fine SAND, some 1-inch gravel, light brown, dry	Soil samples 0 - 0.2' and 0.5 - 2.0' submitted for PFAS analysis.
					Sample 0.5 - 2.0'					
5										
10										
15										
20										
25										
30										
35										
40										



**GEOLOGIC
BORING LOG**

DATE / TIME STARTED
11/4/19 @ 1605

BORING ID:
S-12

PROJECT NAME: WA #51 Wainscott Sand & Gravel

DRILLING CONTRACTOR:

DATE / TIME COMPLETED
11/4/19 @ 1615

TOTAL DEPTH 2.0 ft

LOCATION: Wainscott, New York

CLIENT: NYSDEC

DRILLER:

GROUNDWATER:

BORING LOCATION:

CONTRACT: D007625 NYSDEC Standby Contract

EQUIPMENT:

DEPTH: ft bgs

X: 88914.5

ASSIGNMENT: Work Assignment # 51

METHOD:

DATE / TIME:

Y: 447844.12

HDR PROJECT #: 10178016

BORE DIAM.:

SAMPLER TYPE

METHOD:

COORDINATE SYSTEM:

HDR INSPECTOR: S. ENGLERT

Horizontal Datum WGS84

DEPTH (FT)	ELEVATION (msl)	RATE (FT/)	SAMPLE (Y/N)	ADVANCED / RECOVERY	SAMPLE INTERVAL	CO	H2S	PID	DESCRIPTION AND CLASSIFICATION	REMARKS
						LEL	O2			
0					Sample 0 - 0.2'				0 - 2.0': Fine loamy soil, light orangeish brown; sandier than S-13 location	Soil samples 0 - 0.2' and 0.5 - 2.0' submitted for PFAS analysis.
					Sample 0.5 - 2.0'					
5										
10										
15										
20										
25										
30										
35										
40										



**GEOLOGIC
BORING LOG**

DATE / TIME STARTED
11/4/19 @ 1545

BORING ID:
S-13

PROJECT NAME: WA #51 Wainscott Sand & Gravel

DRILLING CONTRACTOR:

DATE / TIME COMPLETED
11/4/19 @ 1555

TOTAL DEPTH 2.0 ft

LOCATION: Wainscott, New York

CLIENT: NYSDEC

DRILLER:

GROUNDWATER:

BORING LOCATION:

CONTRACT: D007625 NYSDEC Standby Contract

EQUIPMENT:

DEPTH: ft bgs

X: 88842.98

ASSIGNMENT: Work Assignment # 51

METHOD:

DATE / TIME:

Y: 447787.46

HDR PROJECT #: 10178016

BORE DIAM.:

SAMPLER TYPE

METHOD:

COORDINATE SYSTEM:

HDR INSPECTOR: S. ENGLERT

Horizontal Datum WGS84

DEPTH (FT)	ELEVATION (msl)	RATE (FT/)	SAMPLE (Y/N)	ADVANCED / RECOVERY	SAMPLE INTERVAL	CO	H2S	PID	DESCRIPTION AND CLASSIFICATION	REMARKS
						LEL	O2			
0					Sample 0 - 0.2'				0 - 2.0': Generally topsoil/clayey till-like, dark brown, dry to damp	Soil samples 0 - 0.2' and 0.5 - 2.0' submitted for PFAS analysis.
					Sample 0.5 - 2.0'					
5										
10										
15										
20										
25										
30										
35										
40										



**GEOLOGIC
BORING LOG**

DATE / TIME STARTED
11/5/19 @ 0910

BORING ID:
S-14

PROJECT NAME: WA #51 Wainscott Sand & Gravel

DRILLING CONTRACTOR:

DATE / TIME COMPLETED
11/5/19 @ 0920

TOTAL DEPTH 2.0 ft

LOCATION: Wainscott, New York

CLIENT: NYSDEC

DRILLER:

GROUNDWATER:

BORING LOCATION:

CONTRACT: D007625 NYSDEC Standby Contract

EQUIPMENT:

DEPTH: ft bgs

X: 88788.88

ASSIGNMENT: Work Assignment # 51

METHOD:

DATE / TIME:

Y: 447847.67

HDR PROJECT #: 10178016

BORE DIAM.:

SAMPLER TYPE

METHOD:

COORDINATE SYSTEM:

HDR INSPECTOR: M. VIOLETTE

Horizontal Datum WGS84

DEPTH (FT)	ELEVATION (msl)	RATE (FT/)	SAMPLE (Y/N)	ADVANCED / RECOVERY	SAMPLE INTERVAL	CO	H2S	PID	DESCRIPTION AND CLASSIFICATION	REMARKS
						LEL	O2			
0					Sample 0 - 0.2'				0 - 2.0': Fine with medium SAND, trace silt, little gravel, light brown, dry	Soil samples 0 - 0.2' and 0.5 - 2.0' submitted for PFAS analysis.
					Sample 0.5 - 2.0'					
5										
10										
15										
20										
25										
30										
35										
40										



**GEOLOGIC
BORING LOG**

DATE / TIME STARTED
11/5/19 @ 1150

BORING ID:
S-15

PROJECT NAME: WA #51 Wainscott Sand & Gravel
 LOCATION: Wainscott, New York
 CLIENT: NYSDEC
 CONTRACT: D007625 NYSDEC Standby Contract
 ASSIGNMENT: Work Assignment # 51
 HDR PROJECT #: 10178016
 HDR INSPECTOR: M. VIOLETTE

DRILLING CONTRACTOR:
 DRILLER:
 EQUIPMENT:
 METHOD:
 BORE DIAM.:
 SAMPLER TYPE:

DATE / TIME COMPLETED
11/5/19 @ 1200
 GROUNDWATER:
 DEPTH: ft bgs
 DATE / TIME:
 METHOD:

TOTAL DEPTH 2.0 ft
 BORING LOCATION:
 X: 88643.88
 Y: 447674.82
 COORDINATE SYSTEM:
 Horizontal Datum WGS84

DEPTH (FT)	ELEVATION (msl)	RATE (FT/)	SAMPLE (Y/N)	ADVANCED / RECOVERY	SAMPLE INTERVAL	CO	H2S	PID	DESCRIPTION AND CLASSIFICATION	REMARKS
						LEL	O2			
0					Sample 0 - 0.2'				0 - 2.0': Fine SAND, some 1-inch gravel, light brown, dry	Soil samples 0 - 0.2' and 0.5 - 2.0' submitted for PFAS analysis.
					Sample 0.5 - 2.0'					
5										
10										
15										
20										
25										
30										
35										
40										



**GEOLOGIC
BORING LOG**

DATE / TIME STARTED
11/5/19 @ 1045

BORING ID:
S-16

PROJECT NAME: WA #51 Wainscott Sand & Gravel

DRILLING CONTRACTOR:

DATE / TIME COMPLETED
11/5/19 @ 1055

TOTAL DEPTH 2.0 ft

LOCATION: Wainscott, New York

DRILLER:

GROUNDWATER:

BORING LOCATION:

CLIENT: NYSDEC

EQUIPMENT:

DEPTH: ft bgs

X: 88600.99

CONTRACT: D007625 NYSDEC Standby Contract

METHOD:

DATE / TIME:

Y: 447567.79

ASSIGNMENT: Work Assignment # 51

BORE DIAM.:

METHOD:

COORDINATE SYSTEM:
Horizontal Datum WGS84

HDR PROJECT #: 10178016

SAMPLER TYPE

HDR INSPECTOR: M. VIOLETTE

DEPTH (FT)	ELEVATION (msl)	RATE (FT/)	SAMPLE (Y/N)	ADVANCED / RECOVERY	SAMPLE INTERVAL	CO	H2S	PID	DESCRIPTION AND CLASSIFICATION	REMARKS
						LEL	O2			
0					Sample 0 - 0.2'				0 - 2.0': Fine SAND, some 1-inch gravel, light brown, dry	Soil samples 0 - 0.2' and 0.5 - 2.0' submitted for PFAS analysis. Collected field duplicate at surface.
					Sample 0.5 - 2.0'					
5										
10										
15										
20										
25										
30										
35										
40										



GEOLOGIC BORING LOG

DATE / TIME STARTED
11/5/19 @ 1335

BORING ID:
S-17

PROJECT NAME: WA #51 Wainscott Sand & Gravel

DRILLING CONTRACTOR:

DATE / TIME COMPLETED
11/5/19 @ 1345

TOTAL DEPTH 2.0 ft

LOCATION: Wainscott, New York

CLIENT: NYSDEC

DRILLER:

GROUNDWATER:

BORING LOCATION:

CONTRACT: D007625 NYSDEC Standby Contract

EQUIPMENT:

DEPTH: ft bgs

X: 88516.93

ASSIGNMENT: Work Assignment # 51

METHOD:

DATE / TIME:

Y: 447758.18

HDR PROJECT #: 10178016

BORE DIAM.:

SAMPLER TYPE

METHOD:

COORDINATE SYSTEM:

HDR INSPECTOR: M. VIOLETTE

Horizontal Datum WGS84

DEPTH (FT)	ELEVATION (msl)	RATE (FT/)	SAMPLE (Y/N)	ADVANCED / RECOVERY	SAMPLE INTERVAL	CO	H2S	PID	DESCRIPTION AND CLASSIFICATION	REMARKS
						LEL	O2			
0					Sample 0 - 0.2'				0 - 0.5': Cement mix	Soil samples 0 - 0.2' and 0.5 - 2.0' submitted for PFAS analysis.
					Sample 0.5 - 2.0'				0.5 - 1.5': Fine orange SAND	
5										
10										
15										
20										
25										
30										
35										
40										



**GEOLOGIC
BORING LOG**

DATE / TIME STARTED
11/5/19 @ 1400

BORING ID:
S-18

PROJECT NAME: WA #51 Wainscott Sand & Gravel

DRILLING CONTRACTOR:

DATE / TIME COMPLETED
11/5/19 @ 1410

LOCATION: Wainscott, New York

TOTAL DEPTH 2.0 ft

CLIENT: NYSDEC

DRILLER:

GROUNDWATER:

BORING LOCATION:

CONTRACT: D007625 NYSDEC Standby Contract

EQUIPMENT:

DEPTH: ft bgs

X: 88601.9

ASSIGNMENT: Work Assignment # 51

METHOD:

DATE / TIME:

Y: 447933.07

HDR PROJECT #: 10178016

BORE DIAM.:

SAMPLER TYPE

METHOD:

COORDINATE SYSTEM:
Horizontal Datum WGS84

HDR INSPECTOR: M. VIOLETTE

DEPTH (FT)	ELEVATION (msl)	RATE (FT/)	SAMPLE (Y/N)	ADVANCED / RECOVERY	SAMPLE INTERVAL	CO	H2S	PID	DESCRIPTION AND CLASSIFICATION	REMARKS
						LEL	O2			
0					Sample 0 - 0.2'				0 - 2.0': Concrete at 9". Fill material.	Soil samples 0 - 0.2' and 0.5 - 2.0' submitted for PFAS analysis.
					Sample 0.5 - 2.0'					
5										
10										
15										
20										
25										
30										
35										
40										



**GEOLOGIC
BORING LOG**

DATE / TIME STARTED
11/8/19 @ 1105

BORING ID:
S-19

PROJECT NAME: WA #51 Wainscott Sand & Gravel

DRILLING CONTRACTOR:

DATE / TIME COMPLETED
11/8/19 @ 1115

LOCATION: Wainscott, New York

TOTAL DEPTH 2.0 ft

CLIENT: NYSDEC

DRILLER:

GROUNDWATER:

BORING LOCATION:

CONTRACT: D007625 NYSDEC Standby Contract

EQUIPMENT:

DEPTH: ft bgs

X: 88530.32

ASSIGNMENT: Work Assignment # 51

METHOD:

DATE / TIME:

Y: 447839.21

HDR PROJECT #: 10178016

BORE DIAM.:

SAMPLER TYPE

METHOD:

COORDINATE SYSTEM:

HDR INSPECTOR: M. VIOLETTE

Horizontal Datum WGS84

DEPTH (FT)	ELEVATION (msl)	RATE (FT/)	SAMPLE (Y/N)	ADVANCED / RECOVERY	SAMPLE INTERVAL	CO	H2S	PID	DESCRIPTION AND CLASSIFICATION	REMARKS
						LEL	O2			
0					Sample 0 - 0.2'				0 - 2.0': Fine SAND with 1-2" cobbles, reddish-brown, dry	Soil samples 0 - 0.2' and 0.5 - 2.0' submitted for metals, VOCs, SVOCs, PCBs, pesticides, herbicides, PFAS, and 1,4-dioxane analysis.
					Sample 0.5 - 2.0'					
5										
10										
15										
20										
25										
30										
35										
40										



**GEOLOGIC
BORING LOG**

DATE / TIME STARTED
11/8/19 @ 1025

BORING ID:
S-20

PROJECT NAME: WA #51 Wainscott Sand & Gravel

DRILLING CONTRACTOR:

DATE / TIME COMPLETED
11/8/19 @ 1035

TOTAL DEPTH 2.0 ft

LOCATION: Wainscott, New York

CLIENT: NYSDEC

DRILLER:

GROUNDWATER:

BORING LOCATION:

CONTRACT: D007625 NYSDEC Standby Contract

EQUIPMENT:

DEPTH: ft bgs

X: 88512.45

ASSIGNMENT: Work Assignment # 51

METHOD:

DATE / TIME:

Y: 447865.38

HDR PROJECT #: 10178016

BORE DIAM.:

SAMPLER TYPE

METHOD:

COORDINATE SYSTEM:

HDR INSPECTOR: M. VIOLETTE

Horizontal Datum WGS84

DEPTH (FT)	ELEVATION (msl)	RATE (FT/)	SAMPLE (Y/N)	ADVANCED / RECOVERY	SAMPLE INTERVAL	CO	H2S	PID	DESCRIPTION AND CLASSIFICATION	REMARKS
						LEL	O2			
0					Sample 0 - 0.2'				0 - 2.0': Fine SAND with cobbles, asphalt/fill, reddish-brown, dry	Soil samples 0 - 0.2' and 0.5 - 2.0' submitted for metals, VOCs, SVOCs, PCBs, pesticides, herbicides, PFAS, and 1,4-dioxane analysis.
					Sample 0.5 - 2.0'					
5										
10										
15										
20										
25										
30										
35										
40										



**GEOLOGIC
BORING LOG**

DATE / TIME STARTED
11/8/19 @ 0835

BORING ID:
S-21

PROJECT NAME: WA #51 Wainscott Sand & Gravel

DRILLING CONTRACTOR:

DATE / TIME COMPLETED
11/8/19 @ 0845

TOTAL DEPTH 2.0 ft

LOCATION: Wainscott, New York

CLIENT: NYSDEC

DRILLER:

GROUNDWATER:

BORING LOCATION:

CONTRACT: D007625 NYSDEC Standby Contract

EQUIPMENT:

DEPTH: ft bgs

X: 88429.72

ASSIGNMENT: Work Assignment # 51

METHOD:

DATE / TIME:

Y: 447825.13

HDR PROJECT #: 10178016

BORE DIAM.:

SAMPLER TYPE

METHOD:

COORDINATE SYSTEM:

HDR INSPECTOR: M. VIOLETTE

Horizontal Datum WGS84

DEPTH (FT)	ELEVATION (msl)	RATE (FT/)	SAMPLE (Y/N)	ADVANCED / RECOVERY	SAMPLE INTERVAL	CO	H2S	PID	DESCRIPTION AND CLASSIFICATION	REMARKS
						LEL	O2			
0					Sample 0 - 0.2'				0 - 2.0': Mostly GRAVEL, refusal at ~1.25'	Soil samples 0 - 0.2' and 0.5 - 2.0' submitted for metals, VOCs, SVOCs, PCBs, pesticides, herbicides, PFAS, and 1,4-dioxane analysis.
					Sample 0.5 - 2.0'					
5										
10										
15										
20										
25										
30										
35										
40										



**GEOLOGIC
BORING LOG**

DATE / TIME STARTED
11/8/19 @ 0905

BORING ID:
S-22

PROJECT NAME: WA #51 Wainscott Sand & Gravel

DRILLING CONTRACTOR:

DATE / TIME COMPLETED
11/8/19 @ 0915

TOTAL DEPTH 2.0 ft

LOCATION: Wainscott, New York

CLIENT: NYSDEC

DRILLER:

GROUNDWATER:

BORING LOCATION:

CONTRACT: D007625 NYSDEC Standby Contract

EQUIPMENT:

DEPTH: ft bgs

X: 88423.82

ASSIGNMENT: Work Assignment # 51

METHOD:

DATE / TIME:

Y: 447837.59

HDR PROJECT #: 10178016

BORE DIAM.:

SAMPLER TYPE

METHOD:

COORDINATE SYSTEM:

HDR INSPECTOR: M. VIOLETTE

Horizontal Datum WGS84

DEPTH (FT)	ELEVATION (msl)	RATE (FT/)	SAMPLE (Y/N)	ADVANCED / RECOVERY	SAMPLE INTERVAL	CO	H2S	PID	DESCRIPTION AND CLASSIFICATION	REMARKS
						LEL	O2			
0					Sample 0 - 0.2'				0 - 2.0': Fine SAND with 1-2" cobbles, reddish-brown, dry	Soil samples 0 - 0.2' and 0.5 - 2.0' submitted for metals, VOCs, SVOCs, PCBs, pesticides, herbicides, PFAS, and 1,4-dioxane analysis.
					Sample 0.5 - 2.0'					
5										
10										
15										
20										
25										
30										
35										
40										



GEOLOGIC BORING LOG

DATE / TIME STARTED
11/5/19 @ 1420

BORING ID:
S-23

PROJECT NAME: WA #51 Wainscott Sand & Gravel

DRILLING CONTRACTOR:

DATE / TIME COMPLETED
11/5/19 @ 1430

TOTAL DEPTH 2.0 ft

LOCATION: Wainscott, New York

CLIENT: NYSDEC

DRILLER:

GROUNDWATER:

BORING LOCATION:

CONTRACT: D007625 NYSDEC Standby Contract

EQUIPMENT:

DEPTH: ft bgs

X:

ASSIGNMENT: Work Assignment # 51

METHOD:

DATE / TIME:

Y:

HDR PROJECT #: 10178016

BORE DIAM.:

SAMPLER TYPE

METHOD:

COORDINATE SYSTEM:

HDR INSPECTOR: M. VIOLETTE

Not Measured

DEPTH (FT)	ELEVATION (msl)	RATE (FT/)	SAMPLE (Y/N)	ADVANCED / RECOVERY	SAMPLE INTERVAL	CO	H2S	PID	DESCRIPTION AND CLASSIFICATION	REMARKS
						LEL	O2			
0					Sample 0 - 0.2'				0 - 2.0': Concrete at 7". Fill/topsoil material.	Soil samples 0 - 0.2' and 0.5 - 2.0' submitted for PFAS analysis.
					Sample 0.5 - 2.0'					
5										
10										
15										
20										
25										
30										
35										
40										



Appendix E

Groundwater Sampling Logs



Well Sampling Log

Well ID No.: MW-3

Well Casing Type: PVC

Start SWL: 8.56

Project: NYSDEC Wainscott Sand and Gravel

Well Depth**: 12

Water Column Ht.:

Date: 11/7/2019

Screened Interval: 2 - 12

Well Volume (gallons): 0.56

Crew: MV CB

Well Elevation**:

SWL During Sampling: 8.57

Pump Intake (ft) 10

Well Diameter (in.) 2

Sample Time: 1100

Meters Used: Horiba U-52, geotechnical peristaltic pump

Well Condition: Good

Sample Method: Low Flow

PID Head Space (ppm): —

Weather Conditions: 57F cloudy

Sample Analyses: Metals, VOCs, SVOCs, PCBs, Pest., Herb. Sample ID: WSG-MW3-10-0

Time	Est. Liters Purged	Purge Rate (Lpm)	Temp. (C°)	Cond. (mS/cm)	ORP (mV)	D.O. (mg/L)	pH	TDS	Salinity (ppt)	Turbidity (NTU)	Depth to Water*	Comments
1020		0.25										
1025	1.25	0.25	13.16	0.256	178	1.37	6.35	0.167	0.1	0	8.57	
1030	2.5	0.28	13.19	0.258	181	2.06	6.27	0.168	0.1	0	8.57	
1035	3.9	0.26	13.22	0.256	176	2.34	6.27	0.166	0.1	0	8.57	
1040	5.2	0.26	13.26	0.256	173	2.54	6.3	0.167	0.1	0	8.58	
1045	6.5	0.26	13.33	0.256	173	2.69	6.28	0.166	0.1	0	8.57	
1050	7.8	0.26	13.41	0.254	174	2.97	6.27	0.164	0.1	0	8.57	
1055	9.1	0.26	13.59	0.253	172	3.2	6.27	0.164	0.1	0	8.57	
1100	10.4	0.26	13.77	0.251	170	3.15	6.28	0.163	0.1	0	8.57	Sample
	11.7											
Comments: GeoPump peri pump, HDPE and silicone tubing												

Notes: * - Measurement taken from top of well casing



Well Sampling Log

Well ID No.: MW-6

Well Casing Type: PVC

Start SWL: 8.50

Project: NYSDEC Wainscott Sand and Gravel

Well Depth**: 14

Water Column Ht.:

Date: 11/6/2019

Screened Interval: 4 - 14

Well Volume (gallons): 0.9

Crew: MV CB

Well Elevation**:

SWL During Sampling: 8.46

Pump Intake (ft) 10

Well Diameter (in.) 2

Sample Time: 1330

Meters Used: Horiba U-52, geotechnical peristaltic pump

Well Condition: Good

Sample Method: Low Flow

PID Head Space (ppm): —

Weather Conditions: 50s, sunny

Sample Analyses: Metals, VOCs, SVOCs, PCBs, Pest., Herb. Sample ID: WSG-MW6-10-0

Time	Est. Liters Purged	Purge Rate (Lpm)	Temp. (C°)	Cond. (mS/cm)	ORP (mV)	D.O. (mg/L)	pH	TDS	Salinity (ppth)	Turbidity (NTU)	Depth to Water*	Comments
1245		0.25										Very clear water
1250	1.25	0.25	16.93	0.078	141	2.21	5.81	0.051	0	4.5	8.46	
1255	2.5	0.25	16.94	0.079	160	1.99	5.78	0.051	0	4.9	8.45	
1300	3.75	0.25	16.99	0.08	171	2.26	5.75	0.052	0	0.3	8.46	
1305	5	0.25	17.12	0.081	180	2.76	5.74	0.053	0	2.7	8.46	Turbidity <5 considered stable
1310	6.25	0.27	17.27	0.082	187	3.08	5.74	0.053	0	1.9	8.46	
1315	7.6	0.26	17.42	0.082	191	3.31	5.75	0.053	0	4	8.46	
1320	8.9	0.26	17.6	0.083	196	3.45	5.73	0.054	0	1.6	8.46	
1325	10.2	0.26	17.72	0.084	200	3.66	5.73	0.054	0	2.8	8.46	
1330	11.5	0.26	17.78	0.084	203	3.77	5.73	0.055	0	2.7	8.46	Sample
	12.8											
Comments:												
GeoPump peri pump, HDPE and silicone tubing. Triplicate volume collected for MS/MSD for all parameters.												

Notes: * - Measurement taken from top of well casing



Appendix F

NYSDEC Site Record



Environmental Site Remediation Database Search Details

Site Record

Administrative Information

Site Name: Wainscott Sand and Gravel

Site Code: 152254

Program: State Superfund Program

Classification: P *

EPA ID Number:

Location

DEC Region: 1

Address: Georgica Drive

City: East Hampton Zip: 11975

County: Suffolk

Latitude: 40.952222222

Longitude: -72.245555556

Site Type:

Estimated Size: 71.24 Acres

Site Owner(s) and Operator(s)

Current Owner Name: Wainscott Commercial center llc

Current Owner(s) Address: 241 pantigo road
east hampton,NY, 11937

Current Owner Name: Wainscott Industrial llc

Current Owner(s) Address: 241 pantigo road
east hampton,NY, 11937

Current Owner Name: Wainscott hamlet center llc

Current Owner(s) Address: 241 pantigo road
east hampton,NY, 11937

Site Description

Location: The Wainscott Sand and Gravel site is located off Georgica Drive in East Hampton, NY. It is an approximately 70-acre parcel located between the Long Island Railroad (LIRR) on the north, Montauk Highway (New York Route 27) on the south, Hedges Lane on the east, and Wainscott Northwest Road on the west. The land use to the west, south, and east of the site is residential, and land beyond the LIRR to the north is occupied by the East Hampton Airport and East Hampton Industrial Park, which is located on both sides of Industrial Road. **Site Features:** The property is mostly open land with a few commercial and industrial facilities concentrated at the southern end of the property. The site lies in a depression relative to the surrounding area as the result of it being a former sand and gravel mine. Only a small portion in the southeast corner is relatively level and close to the elevation of the adjacent properties. The surface of the bottom of the depression is moderately level with the exception of scattered piles of fill materials sitting on the relatively level surface. **Current Zoning and Land Use:** The site is currently a reclaimed sand and gravel mine with multi-use commercial and industrial tenants at the southern end, and the rest of the property (70 to 75% of the site

acreage) is undeveloped. Current businesses operating on the site include a ready-mix concrete plant, a masonry shop/manufacturing plant, a landscaping business, diesel truck repair, and a dock builder. Past Use of the Site: The site was a sand and gravel mine when the Wainscott Commercial Center (WCC) owners purchased the property in 1984. According to information provided by WCC, the New York State mining permit ended in July of 1998 when the New York State Department of Environmental Conservation (NYSDEC) approved the final reclamation of the site and released the financial reclamation surety bond. The site was already in use by various commercial and industrial clients by 1998. These tenants were located primarily at the southern end of the site, as they are now. These tenants included a contracting business, a furniture repair shop, equipment and materials storage, a pool contractor, a landscaping business, and a toilet storage business. Site Geology and Hydrogeology: The water table lies between 3.0 to slightly more than 8.0 feet below the site and is more than 10.0 feet below ground surface around the edges of the site. Ground water flow beneath the site is from the northwest toward the southeast. Ground water is recharged from direct precipitation to the land surface and from storm water runoff that collects on the surface and percolates to the water table. Ground water flows down the hydraulic gradient (downgradient) to the southeast toward its natural recharge area at Georgica Pond. The soil at the site consists of fine to coarse sand fill with trace gravel that overlies similar geologic material at depth. The fill sand contains small quantities of anthropogenic (human made) material.

Site Environmental Assessment

Limited investigation activities have been undertaken at the site. Various PFAS compounds have been detected in the groundwater in on-site monitoring wells. The East Hampton Airport is a potential source of groundwater PFAS contamination. A full site characterization was conducted in November 2019. A Site Characterization report is expected to be submitted in February 2020.

Site Health Assessment

As information for this site becomes available, it will be reviewed by the NYSDOH to determine if site contamination presents public health exposure concerns.

*** Class P Sites:** "DEC offers this information with the caution that it should not be used to form conclusions about site contamination beyond what is implied by the classification of this site, namely, that there is a potential for concern about site contamination. Information regarding a Class P site (potential Registry site) is by definition preliminary in nature and unverified because the DEC's investigation of the site is not yet complete. Due to the preliminary nature of this information, significant conclusions or decisions should not be based solely upon this summary."

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