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REMEDIAL INVESTIGATION WORK PLAN

157 Great Arrow Avenue Site
Buffalo, New York 14207

June 4, 2018
File No. 21.0056831.20

PREPARED FOR:
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1.0 INTRODUCTION

1.1 PURPOSE AND OBJECTIVE

The 157 Great Arrow Avenue Site (Site) is a brownfield site with known contamination of on-site soil and groundwater. The Site is planned to be redeveloped into residential apartments. The Site is part of the former heavy manufacturing facility known as the Former Pierce Arrow Manufacturing Facility. The on-Site soil and groundwater contamination will require further investigation and remediation prior to Site redevelopment. The cost of environmental investigation and remediation of the site is prohibitive to Site redevelopment. With intention to make the redevelopment project financially viable, the Site owner has applied to participate in the New York State Department of Environmental Conservation (NYSDECs) Brownfield Cleanup Program (BCP) for the tax credit and liability relief incentives offered by the program.

The nature, extent, and impact of the environmental contamination is not yet sufficiently defined, thus further environmental investigation work must be completed to provide information necessary to evaluate and select remedial measures. This Remedial Investigation Work Plan (RIWP) provides descriptions of the investigation procedures to be implemented to characterize the environmental conditions of the Site. This RIWP has been prepared in general accordance with the NYSDEC Division of Environmental Remediation's Technical Guidance for Site Investigation and Remediation (DER-10). Data collected through the RI will be used to define the nature and extent of environmental contamination and the related risks to human health, if any. Potential remedial alternatives will then be identified and assessed in a Remedial Alternatives Analysis (RAA). Recommended remedial actions will then be presented a Remedial Work Plan (RWP).

1.2 SITE DESCRIPTION

The Site address is 157 Great Arrow Avenue, Buffalo, New York, 14207. The Site is land-locked with no road frontage. Rather, it is an internal portion of the larger former Pierce Arrow motor car manufacturing facility with an access easement extending northward from Great Arrow Avenue **(see Figures 1 and 2**).

Located in an urban setting, the site is bounded as follows:

- North: by Conrail railroad property;
- East: by the Tapestry Charter School which is undergoing expansion;
- South: by Building I of the former Pierce Arrow Manufacturing facility;
- West: by Building C of the former Pierce Arrow Manufacturing facility.

The single prominent site feature is a long four-story building known as Building D of the former Pierce Arrow manufacturing facility. Building D is approximately 410 feet long (east/west) and 60 feet wide (north/south). Building D is currently vacant.

Large, open areas located north and south of Building D are mostly covered with weathered asphalt pavement. A raised berm of soil/fill is present along the entire northern wooded site boundary. A second on-Site building, approximately 40' X 20' in size, is present near the northwest corner of the property. This single-story building is constructed of cement block is build slab on grade.

A long narrow north to south oriented "arm" of the site projects southward from the western end of Building D and occupies an asphalt covered corridor between Buildings C and E.

The total parcel size is 4.36 acres, with approximately 0.65 acres covered by Building D and the remaining 3.71 acres consisting of open space.

1.3 SITE HISTORY

The Site is part of the former Pierce Arrow manufacturing facility at which automobiles were manufactured from approximately 1906 to 1938. The subject site contains one large building, Building D, and one small building. The one-story building reportedly was most recently used for automotive repairs. Several smaller storage buildings historically occupied areas to the north and south of Building D, however have since been removed, leaving just Building D and the small cement block building on the present 4.36-acre Site.

Building D was built in 1916 and has four stories, and was reportedly used for the following purposes:

- First Floor: warehousing, shipping, and receiving;
- Second Floor: machine shop;
- Third Floor: machine shop; and
- Fourth Floor: tin shop.

Building D was constructed as slab-on-grade with no basement, however a raised loading dock adjoins the entire northern and eastern exterior walls of the building. The loading dock is known to be hollow. Several railroad sidings or spurs were present to the north and south of Building D. Some, if not all, of these steel rails are anticipated to remain on the site and covered by asphalt pavement) (see Figure 2).

1.4 SITE GEOLOGY AND HYDROGEOLOGY

The following description of site geology and hydrogeology was based on the findings from 33 environmental soil borings (20 by LCS Inc. and 13 by GZA) advanced on Site to date. Borings were completed to depths of 8 feet below grade at most locations. Three borings located near the former location of a boiler fuel tank along the east side of Building C, were advanced to depths of 12 feet.

Weathered asphalt pavement covers a majority of the Site exterior of Building D. Beneath this asphalt pavement a layer of urban fill material was encountered at all drilling locations. The fill layer is described as sand and gravel with traces of anthropogenic material including wood, brick, glass, and ash. Evidence of slag was not noted at any of the 33 on-Site boring locations. Thickness of the fill ranged from 0.5 feet to 13 feet, with most borings encountering fill at thicknesses ranging between 0.5 and 5.0 feet. Fill material was not observed beneath Building D.

Beneath the fill layer at all drilling locations, a native silty clay soil was encountered and was described as brown silty clay with traces of gravel and sand. The silty clay was reported directly beneath the Building D concrete floor. The silty clay was the deepest geologic layer observed at the boring locations which attained a maximum depth of 16 feet bgs. Bedrock was not encountered during previous investigations although is reportedly at depths greater than 50 feet in areas proximate to this Site.

Groundwater was encountered in eight of 33 borings drilled on the Site. Where encountered groundwater was present in the relatively more porous urban fill material above the native clay. The depth to groundwater ranged from 1.5 and 12 feet bgs with most showings of water at the 4.0 to 6.0-foot depth range. The discontinuous presence of groundwater indicates that, where present, it is perched and not indicative of an area-wide groundwater aquifer.

2.0 SUMMARY OF ENVIRONMENTAL CONDITIONS

2.1 ENVIRONMENTAL REPORTS

There are three known environmental reports that include the subject site, these are:

- Phase I Environmental Site Assessment, May 2004, GZA GeoEnvironmental of New York;
- Limited and Focused Subsurface Soil Investigation, September 20014, LCS Inc.; and
- Subsurface Investigation Report, July 2017, GZA GeoEnvironmental of New York.

The first two studies listed above included the entire approximate 16-acre former Pierce Arrow facility. The third listed study included just the current 4.36-acre subject Site. Copies of the referenced previous environmental reports are provided (electronically) in **Appendix A.** A brief summary of each of these reports follows.

2.1.1 2004 – GZA Phase I Environmental Site Assessment Report

The Phase I ESA completed by GZA in 2004 identified many potential sources of environmental contamination. Those identified on the 4.36-acre subject site in include:

- Long history of heavy manufacturing;
- On-site Rail Road use;
- Coal fueled heating and coal storage;
- Underground fuel oil tank in support of a boiler on the east side of Building C
- Soil/fill berm along the northern site boundary
- Existing UST with oily sludge on the ground surface north of Building D
- approximately 20 drums stored on the ground outside and south of the Building D western loading dock. Drums labels included “used oil”, “good oil”, and “used lathe oil”. Heavy staining was observed on the ground surface near these drums.
- Records of a 15,000-gallon No. 6 fuel oil UST and a 6,000-gallon UST installed exterior of Building C.

2.1.2 2004 – LCS Limited and Focused Subsurface Soil Investigation

LCS conducted a focused subsurface soil investigation in 2004 to characterize the potential sources of contamination identified by GZA in the Phase I ESA report. LCS advanced soil borings at 56 locations (BH1 through BH56) across the greater Pierce Arrow facility. Samples were collected of the subsurface soil and fill from the borings and submitted for chemical analyses. Of the 56 drilling locations, 20 were located on the subject BCP Site, these include borings identified as BH21 to BH28 and BH36 to 47. The 20 borings were clustered in four locations, each targeting a specific potential source of contamination, see **Figure 3.** The four targeted contaminant sources were as follows:

- The Southwestern loading dock area of Building D where drum storage and stained ground was noted (BH27 and BH28);
- The former coal pile location (BH36, BH37, and BH38);
- The historic UST location to the east of Building C boiler room (BH45, BH46, and BH47); and

- Historical operations to the south of Building D (BH21 to BH26 and BH39 to BH44).
  Approximately half of the borings sampled by LCS on the subject BCP site yielded samples containing contaminants at concentrations greater than their respective restricted residential soil cleanup objective (RSCO). These contaminants were mostly semi-volatile organic compounds (SVOCs) and metals, see **Figure 3**. LCS did not sample in other areas of the subject site nor did they sample other media such as groundwater or air as part of their study.

2.1.3 2017 – GZA Subsurface Investigation Report

To further characterize the subject BCP Site, GZA advanced soil borings at 13 locations inside and outside of Building D. Samples were collected from the urban fill at each location and of groundwater at the only two locations at which groundwater was encountered. GZA also collected samples of the near surface (6-inch depth) soil/fill from the raised berm along the northern property boundary, see Figure 3. Similar to the findings of the LCS report, GZA confirmed further distribution of SVOC and metals contamination several sampling locations exterior of the building. One location (SP-13) contained trichlorethylene (TCE) above the RSCO in the urban fill as well as in groundwater.

2.2 IDENTIFIED ENVIRONMENTAL CONTAMINATION

Soil Impacts:

Volatile organic compounds (VOCs), SVOCs and metals were detected at concentrations greater than restricted residential, commercial, and in some cases industrial SCOs throughout the site. **Figure 3** provides a summary of soil impacts with sample locations, analytes detected, and analyte concentrations shaded were exceeding the various SCOs.

Groundwater Impacts:

Water, believed to be perched groundwater, was encountered at eight of the 33 soil boring locations. LCS did not sample water from the six locations where encountered in 2004. GZA collected samples of groundwater at both locations at which water was encountered in 2017. Both groundwater samples contained SVOCs at concentrations greater than the NYSDEC Class GA groundwater standards. One of the two samples also contained trichloroethene (TCE) at a concentration greater than the standard. **Figure 4** provides a map summarizing the groundwater impacts at the Site.

3.0 REMEDIAL INVESTIGATION

3.1 OBJECTIVES

The objectives of the RI are as follow:

- To environmentally characterize those areas and media not yet characterized;
- To define the nature and extent of environmental contamination throughout the Site;
- To provide a conceptual site model in support of the qualitative risk assessment;

3.2 REMEDIAL INVESTIGATION WORK TASKS

3.2.1 Environmental Characterization of Berm

A large, apparent earthen berm is located along the entire, approximately 600 feet, northern property boundary. The berm is estimated to be approximately 40 feet wide (north/south) and having a maximum height of eight feet. It appears to be composed mostly of soil materials although was observed to include various solid waste debris including; rock, concrete, brick, and glass. The berm is heavily vegetated and supports various brush and mature trees.

Four near-surface soil samples (identified as SS-1 through SS-4) were collected from the 6-inch depth along the berm in July 2017. These samples contained several SVOCs and metals at concentrations above SCOs, see **Figure 3**. Further evaluation of the physical and chemical composition of the berm will be performed during the RI. The NYSDEC Project Manager will be given prior notice of test pitting activity and will be consulted prior to backfilling the test pits. A visual assessment of the entire length of the berm will be conducted to assess the surface composition and to assess for potential sources of contamination such as containers of liquids or specific solid wastes. Following the visual assessment, an excavator will be used to breach the surface of the berm at a minimum of six locations along its length to characterize the internal composition and obtain environmental samples of the internal material. Four samples of soil from the berm are planned for further characterization of the berm material. Sample depths will be determined in the field based on observations of the berm internal composition and targeting depths with greatest evidence of potential contamination and unique fill types. If no evidence of potential contamination nor distinct fill types are observed in the berm excavations, then samples will be collected from variable depths at each location to characterize the full vertical depth of the berm. In this case the proposed depths of the four samples would be 0-2 feet, 2-4 feet, 4-6 feet, and 6-8 feet. Depending on the analytical results of the berm soil samples and planned fate of the berm soil, additional characterization of the berm soil may be required.

3.2.1.1 Berm Soil Sampling Analyte List

- TCL Volatile Organic Compounds (VOCs);
- TCL Semi-Volatile Organic Compounds (SVOCs);
- TCL Pesticides and Herbicides;
- TCL Polychlorinated Biphenyls (PCBs);
- TAL Metals; and
- Tics
- and
- Waste Characterization Samples (2) for:
- TCLP: VOCs, SVOCs, pesticides, herbicides, and metals
- PCBs
- Reactivity
- Corrosivity
- Ignitability

3.2.2 Surficial Soil Sampling

If Grossly Contaminated Soil (GCS), as defined in 6NYCRR Part 375-1.2(u), is encountered on the ground surface it will be documented and may be sampled as appropriate. GCS is soil that contains substantial quantities of mobile Non-Aqueous Phase Liquid (NAPL) that is identifiable visually, and/or by it strong odor, and/or by elevated readings on an organic vapor meter.

Most of the Site is covered by pavement and buildings. The planned site redevelopment retains most of the current cover materials including Building D, the paved area to the north of Building D (future parking), and the corridor between buildings C and D, Site entryway. Currently, the only exposed on-Site soil is the northern earthen berm, the upper 6-inches of which has been characterized. The interior of the berm is planned for characterization, as discussed in Section 3.2.1.

The large, approximately 250 feet by 250 feet, open area located to the south of Building D is currently covered with severely weathered asphalt pavement. As part of the Site redevelopment plan, this area will be converted to greenspace. Greenspace construction may involve the removal of the current weathered pavement cover. As requested by the New York State Department of Health (NYDOH), the upper two feet of surface soil/fill will be characterized at three separate vertical depths as follows:

- The uppermost 0 to 2 inches directly beneath the asphalt pavement and subbase, if present;
- The 2 to 12-inch interval; and
- The 12 to 24-inch interval.

The three depth intervals will be sampled at five locations within the proposed greenspace area to the south of the building. The samples will be collected using decontaminated, stainless steel spoons, hand trowels and/or using the direct-push drilling rig. Sample locations have been selected to spatially represent the area, See **Figure 6**.

3.2.2.1 Surface Soil Sampling Analyte List

- TCL VOCs
- TCL SVOCs
- TCL Pesticides and herbicides
- Polychlorinated Biphenyls (PCBs)
- TAL Metals
- TICs

3.2.3 Site-Wide Soil Boring Program

The purpose of the general site-wide soil boring exploration is to address the lateral and vertical extent of the fill unit, identify the potential for contamination, and determine the presence of groundwater. Approximately 40 soil borings will be distributed to provide spatial distribution and characterization of the entire site, including inside of Building D, as follows:

- Southern Paved Lot – 20 Soil Borings;
- Northern Paved Lot and Loading Dock – 14 Soil Borings;
- Former Southwest Loading Dock – 1 Soil Boring;
- Western interior of Building D – 3 Soil Borings
- Corridor between Buildings C and D – 2 Soil Borings

3.2.3.1 Subsurface Soil Characterization (Urban Fill & Native Soils

Soil borings will be completed throughout the site to delineate the vertical and lateral extent of the fill layer as well as the physical and chemical composition of the fill layer and the underlying native silty clay soil. This will involve the advancement of approximately 40 soil borings through the fill and into the native soil unit.

Based on the 33 borings advanced at the site to date, the thickness of the fill layer is not more than two feet in most areas south and west of Building D. The fill thickness is greater to the north of Building D, ranging from 3.0 to 5.0 feet in most areas and up to 13 feet at one location to the northeast of the building.

Direct push technology (i.e. Geoprobe Systems®) will be utilized to complete the soil borings. Macrocore barrel samplers with disposable acetate liners will be continuously advanced in 4-foot sample intervals for characterizing the subsurface materials. The macrocore barrels will penetrate through the fill layer and extend into the underlying native soils a minimum vertical distance of 4-feet. Anticipated boring depth is 8-feet at most locations and will vary depending on subsurface stratigraphy observations and evidence of contamination, if encountered. To avoid cross contamination, new and dedicated acetate liners will be used and non-disposable sampling equipment such as spatula or spoons will be decontaminated between sampling runs and each soil boring.

Extracted soil cores from each four-foot run, will be screened in the field for volatile organic vapors in 2-foot increments with a calibrated photo-ionization detector (PID) with a 10.6 electron volt (eV) or equivalent probe for the qualitative detection of VOCs. Soils samples will be logged by a qualified GZA field Geologist using the Burmeister soil classification method. If evidence of potential contamination (elevated PID measurements, odors, visible staining, or the presence of suspicious fill material) is encountered, a grab sample will be collected. The following are the proposed sampling depth intervals for the remedial investigation:

Upper Fill Unit No. 1: from the surface of fill to base of fill (maximum 24.0 inches); For example, if fill unit is 18-inches thick, the sample will be from 0 to 18 inches vertical composite. If fill is 30 inches thick, upper sample will be from 0 to 24-inches vertical composite, with fill beneath the 24-inch depth characterized with additional samples.

Additional Fill Unit Samples: at locations where the fill thickness is greater than 24-inches, samples will be collected beginning at 24-inch depth to base of fill unit, not exceeding 24 inches in any one sample– extending to the base of fill unit, total sample count dependent upon total thickness of fill. For example, if the fill is a total of 7 feet thick, there would be three samples collected after the upper fill sample. The three additional fill samples would be collected from 2’ to 4’, from 4’ to 6’, and from 6’ to 7’.

Native Unit Characterization (12 – inch intervals) – Two samples will be collected from the upper two feet of the native soil unit. The upper 12-inches and the next underlying 12-inches. Analysis of the second 12-inches will be

contingent upon the results of the upper 12-inches. If the sample of upper sample of native soil exceeds SCOs, the second sample will be analyzed for only those parameters that exceeded SCOs in the upper sample.

The above-described soil sampling depths may be adjusted based on field conditions encountered during sampling. Samples of native soils will not be homogenized with material from the fill unit. Soil boring logs will be completed and include soil descriptions, PID readings, etc. The boring logs will be included in the RI report.

Also, as required by NYSDEC, at five of the six boring locations at which groundwater monitoring wells are proposed a subsurface soil sample will be collected at the 15-feet depth for laboratory analyses.

3.2.3.2 Characterization of AOIs

Directly after completion of the Site-wide boring program, a focused site soil boring exploration will occur in areas of interest (AOIs) where previous investigations have identified contamination. At a minimum three soil borings will be completed at each AOI to further delineate the area of impact. Additional borings may be warranted dependent upon visual-manual classification of extracted soil cores and PID screening measurements. The three AOIs identified at the time of the writing of this RIWP are:

- Former UST Excavation site along the eastern side of Building C by the former boiler room;
- GZA SP-13 (TCE detected in the fill and groundwater)
- GZA SP-9 (Thick fill and groundwater unit encountered, PAHs and metals present above criteria)

The collected field samples will then be evaluated for submittal to the analytical laboratory. Evaluation will include sample depth and location, relative position to known or suspected sources of contamination, physical composition, PID reading. An estimated total of 27 field samples of the urban fill material and 12 of the native soil will be submitted for laboratory characterization analyses. These sample counts include those of both the site-wide work and the three AOIs.

Additional AOIs may be identified in the course of performing the RI and may warrant further characterization sampling. If GCS, as defined in 6NYCRR Part 375-1.2(u), is encountered in the subsurface, it will be documented and may be sampled as appropriate. Soil samples will be collected from the soil borings will include the following:

- TCL VOCs
- TCL SVOCs
- TCL Pesticides and herbicides
- Polychlorinated Biphenyls (PCBs)
- TAL Metals
- TICs

- Waste Characterization Samples (4 urban fill and 2 native soil) for:
- TCLP: VOCs, SVOCs, pesticides, herbicides, and metals
- PCBs
- Reactivity
- Corrosivity
- ignitability

3.2.4 Groundwater Characterization

Groundwater was encountered at 10 of the 33 previous on-Site boring locations. These occurrences of groundwater appear to be perched and coincident with areas of relatively thick fill material. Beneath the fill, the silty clay native soil does not yield water on its own to the maximum depth drilled to date (16-feet). This tight silty clay appears to be an aquitard that likely greatly limits water, and contaminant, transport. The thickness of this tight silty clay is reportedly greater than 50-feet at the Site. Based on the current understanding of the hydrogeologic conditions of the Site, exploration greater than 16 feet below grade at the site is not warranted and could create a vertical contaminant migration pathway through the confining layer.

To further characterize the hydrogeologic conditions on-site and groundwater quality, installation and sampling of up to six groundwater monitoring wells will be attempted, subject to the presence of water. The groundwater monitoring wells will be installed after and based on the subsurface soil characterization program. Up to six wells will be installed at locations that exhibited the presence of groundwater in the overburden across the Site and will include one location in the northeastern corner of the site, the presumed upgradient location and one located in the southwestern corner of the Site, the presumed down-gradient location., see **Figure 6.** The total depth of the wells is assumed to be 16 feet bgs.

Monitoring wells will be constructed to intersect either the groundwater table or the surface of the perched groundwater in the fill unit, whichever is encountered first. Monitoring wells will be constructed of 2-inch inner diameter (ID) Schedule 40 Poly Vinyl Chloride (PVC), and each well will be completed with 5 to 10 feet of 0.010-slot well screen, dependent upon subsurface stratigraphy. The monitoring well annulus space will be backfilled with a quartz sand filter pack extending from total depth up to one to two feet above the top of well screen, followed by one to two feet of bentonite chips above the sand pack. The remainder of the annulus will be either backfilled with bentonite chips or grouted to the surface. Actual monitoring well construction and depths will be determined in the field by the GZA environmental Geologist based on subsurface conditions encountered and actual presence of groundwater. Monitoring wells will be completed either as a flush mount or protective stick-up, dependent upon location and the monitoring wells impact on planned site use and traffic.

Not sooner than 24 hours following installation, the monitoring wells will be developed through the removal of up to ten well volumes of water, or until dry-like conditions, whichever occurs first, using either decontaminated PVC bailers, a peristaltic or submersible pump with new dedicated high-density polyethylene (HDPE) tubing. Water quality parameters including temperature, pH, conductivity, dissolved oxygen (DO), oxidation reduction potential (ORP), and turbidity will be measured throughout the development process to document progress and stabilization of water quality.

Not sooner than one week following monitoring well development, site groundwater characterization sampling will commence; groundwater samples will be collected either using dedicated and decontaminated PVC bailers or low-flow purging and sampling techniques using HDPE tubing. Actual method of groundwater sampling will be determined by a qualified environmental professional after a review of the soil boring logs, monitoring well construction reports, and well development reports. Prior to purging any monitoring wells, a sitewide round of synoptic water levels will be measured using an electric water level meter. Decontamination of reusable sampling equipment is required after each well is sampled to reduce the likelihood of cross contamination.

Groundwater sampling equipment calibration records, monitoring well development and sampling records, and static water level measurements will be recorded in a project field log book, and are to be provided in the RI Report.

The groundwater samples from all monitoring wells will be analyzed for the following analyte list:

- TCL Volatile Organic Compounds - EPA Method 8260C;
- TCL Semi-Volatile Organic Compounds – EPA Method 8270D;
- TAL Metals – EPA Method 6010C;
- TCL Polychlorinated Biphenyls (PCBs) – EPA Method 8082A;
- TCL Pesticides – EPA Method 8081B; and
- Herbicides – EPA Method 8151A.

In addition, three of the monitoring wells will also be sampled for emerging contaminants as required by NYSDEC in the letter to Great Arrow dated March 26, 2018, including:

- Full NYSDEC list of 21 PFAS Target Analytes using USEPA Method 537
- 1,4-Dioxane

As monitoring wells have not yet been installed at the Site, the selection of the three wells to be sampled will be determined once the wells have been installed, developed, and water levels mapped to determine horizontal gradient. The selection of wells to be sampled for emerging contaminants will target one upgradient, one on-site, and one downgradient well, the sampling of which will take place only with prior concurrence of the NYSDEC Project Manager.

SAMPLING GROUNDWATER FOR PFAS AND 1,4-DIOXANE:

Sampling protocols as outlined in NYSDEC's March 26, 2018 letter and attachments will be followed **(Appendix B)**. Because PFAS compounds are widely used in many products and because the analytical detection limits are minute (in units of parts per trillion), extreme care must be taken during sampling to minimize the probability of false positive detections of PFAS. Specifically, care will be taken to use sampling equipment and supplies made of currently acceptable materials including stainless steel, high density polyethylene (HDPE), Polyvinyl chloride (PVC), silicone, acetate, and polypropylene. Sampling equipment that encounters groundwater will be decontaminated between uses using a two-step process using Alconox powered soap and water solution followed by a triple rinse of laboratory provided PFAS-free water. Sampling equipment shall not be composed of nor samples encounter; aluminum foil, low density polyethylene (LDPE), glass, or polytetrafluoroethylene (PTFE or Teflon).

Sampling personnel shall:

- wear only old cotton clothing (no water proof materials such as Gortex) that has been laundered many times and most recently rinsed without detergent or fabric softener and lined dried;
- wear leather belt and steel-toed shoes or boots;
- no use of cosmetics or personal care items the day of sampling;
- no use of insect repellent or sunscreens;
- no fast-food consumption for 48-hours prior to sampling;
- Field notes will be kept on traditional paper, not water proof paper;

- Ball point pens, not marking pens, shall be used to take notes and label sample containers;
- Regular water ice will be used to chill samples, not dry ice;
- New Nitrile gloves will be used and changed as follows:
- Before handling containers;
- After purging each well, before sampling;
- After sampling, prior to collection of field/sampler blank samples.

3.2.5 Investigation-Derived Waste

Anticipated Investigation-Derived-Waste (IDW) water includes water used for decontamination of drilling rig and excavator, monitoring well development water, and purge water generated during pre-sample purging of wells. These IDW water will be observed and screened for evidence of organic contamination including presence of NAPL, sheen, odor, and/or elevated PID (>10 PPM above background) readings. If no evidence of contamination is observed, the IDW water will be allowed to infiltrate the on-site ground surface near the site of generation. If the IDW water exhibits evidence of organic contamination then the IDW water will be containerized in NYSDOT-approved 55-gallon steel drums, characterized, and properly disposed off-site at a NYSDEC-permitted and approved disposal facility.

Similarly, for soil IDW generated from the soil probes and monitoring well drilling, if no evidence of petroleum contamination is observed, the IDW soil will be placed on the soil berm for eventual removal or covering during site remediation. If the IDW soil yields evidence of petroleum contamination it will be containerized in NYSDOT-approved 55-gallon steel drums, characterized, and properly disposed off-site at a NYSDEC-permitted and approved disposal facility.

3.2.6 Soil Vapor Intrusion Survey

Building D has approximate dimensions of 410-feet by 60-feet; occupying a foundational area of approximately 25,000 ft^2. Five sub-slab soil vapor samples and five companion indoor air samples will be co-located and collected concurrently from within the Building D (**Figure 6**). One outdoor air sample will be collected concurrently with the sub-slab vapor and indoor air samples from an upwind location exterior to Building D. Samples will be collected using dedicated, pre-cleaned, laboratory-supplied 1 or 6-liter sample canisters over a 24-hour duration in accordance with NYSDOH guidance. The air samples will be submitted to a NELAP certified laboratory for analyses of VOCs via USEPA Method TO-15.

Each sub-slab vapor sample will be collected from under the slab-on-grade floor through an approximate ½-inch diameter hole drilled in a competent portion of the concrete floor away from cracks, sumps, or drains. Clean, dedicated tubing will be placed into the drilled hole to the bottom of the concrete slab and sealed at the floor surface with modeling clay. A leak check of the sampling system will be performed by releasing a tracer gas (e.g., helium) under an enclosure placed over the top of the sealed sample tubing setup to check for surface infiltration of the tracer gas into the subsurface vapor space. A helium detector (i.e., Mark Model 9822 Helium Detector or equivalent) will be used to determine if helium gas from inside the enclosure is being drawn into the subsurface. Once it is determined that the sampling system is sealed and there is no infiltration into the subsurface, the sub-slab tubing will be connected to the sample canister and regulator. New York State Department of Health (NYSDOH) Guidance allows for up to 10 percent helium to be detected within the sub-slab sampling system and still be considered acceptable for sampling.

During the indoor air sampling event, observations of chemicals and chemical products stored/staged in the areas of the sampling will be listed and photographed. In addition, a PID with an 11.7 eV bulb will be used to screen each

indoor and outdoor air sampling point and individual product containers observed, and will be used to quantify background levels of total organic vapors in the general area of the sampling locations.

The analytical results for all characterization samples collected during the RI will include an ASP Level B report and a NYSDEC EQuIS EDD. Following receipt of the analytical results, the results will be forwarded to a third-party for independent data validation and preparation of a Data Usability Summary Report (DUSR).

3.2.7 Site Survey

Horizontal location of soil probes, sampling points, and monitoring wells will be measured in the field using a combination of geographic positioning system (GPS) technology and measuring tape/wheel to locate them for placement on the existing property survey map. An elevation survey will be conducted by the environmental consultant using surveyors level to tie in existing special and topographic data provided by a licensed surveyor, for mapping groundwater elevations.

4.0 REPORTING

Upon completion of the RI, the RI Report will be prepared and will include a summary of the RI work completed along with presentation, summary, and interpretation of the physical and chemical data collected. Analytical results will be presented in table form highlighting exceedances of applicable chemical criteria. Maps depicting the locations of contamination, thickness of fill, groundwater surface contours are also planned in the RI report. The RI Report also will include presentation of a conceptual site model and a qualitative risk assessment in support of the Remedial Alternatives Analysis (RAA) and Remedial Work Plan (RWP).

5.0 SCHEDULE

The preliminary anticipated schedule if milestones of the BCP project is as follows:

Milestone:	**Anticipated Date:**
Submittal of BCP Application with RIWP	October 2017
NYSDEC and public review and finalization of BCP App and RIWP	Nov. 2017 – June 2018
Execution of the Brownfield Cleanup Agreement (BCA)	April 2018
Implementation of the RI	June - August 2018
Preparation of RI Report/Alternatives Analysis Report/ Remedial Work Plan	August -October 2018
Public and NYSDEC Review and approval of RWP	November 2018
Environmental Site Remediation* (* dependent upon the findings of RI)	April to July 2019
Completion and approval of Final Engineering Report (FER) And Site Management Plan (SMP) if applicable	August 2019
Completion of remainder of Site Redevelopment work	September 2019
Receipt of Certificate of Completion	October 2019

6.0 QUALITY ASSURANCE PROJECT PLAN

The Quality Assurance Project Plan (QAPP) to be used for this project provided as **Attachment C**. The QAPP presents the sampling procedures, analytical methods and QA/QC procedures associated with the activities planned for BCP Site. Protocols for sample collection, sample handling and storage, Chain of Custody procedures, and laboratory and field analyses are described or specifically referenced to related investigation documents.

7.0 HEALTH AND SAFETY PLAN

The health and safety protocols to be used for the 157 Great Arrow RI activities are provided in the Health and Safety Plan (HASP) in **Appendix D**. The HASP presents the specific health and safety protocols associated with the activities planned for BCP Site, including a Community Air Monitoring Plan (CAMP).

TABLES

Table 1

SUMMARY OF REMEDIAL INVESTIGATION SAMPLING PROGRAM

Sample Type	Matrix	Summary of Estiamted Number of Samples					
		Field	Field Duplicate°°	Matrix Spike°°	Matrix Spike Duplicate°°	Rinsate Blank°°	Trip Blank°°
Urban Fill Soil*	Soil	27	2	2	2	2	5
Native Soil*	Soil	17	1	1	1	1	1
Surfical Soil*	Soil	15	1	1	1	1	1
Berm Fill Soil*	Soil	4	1	1	1	1	1
Groundwater**	Water	6	1	1	1	1	1
Soil Vapor & Indoor Air***	Air	11	1	1	1	NA	1
	Total	80	7	7	7	6	10

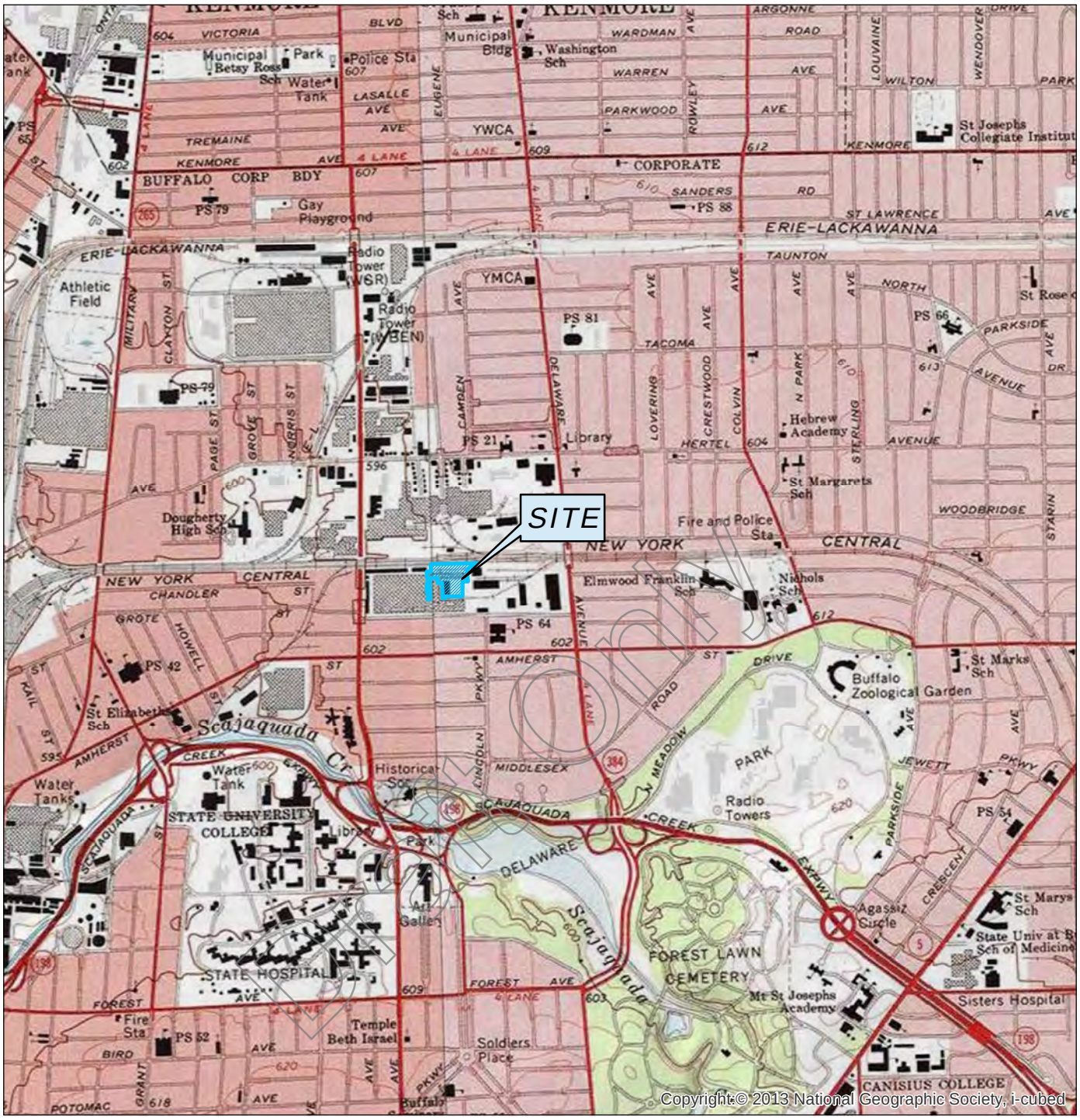
* Soil samples are to be analyzed for the follwing parameters:
TCL Volatile Organic Compounds (EPA Methods 8260);
TCL Semi-Voatile Organic Compounds (EPA Method 8270);
TAL Metals (EPA Method 6010);
Pesticides/herbicides (EPA Method 8081);
Poly-Chlorinated Biphenyls (EPA Method 8082); including Tentatively Identified Compounds.

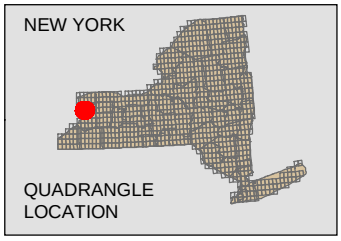
** Water samples are to be analyzed using USEPA SW-846 methodology for:
TCL Volatile Organic Compounds (EPA Methods 8260);
TCL Semi-Voatile Organic Compounds (EPA Method 8270);
TAL Metals (EPA Method 6010);
Pesticides/Herbicides (EPA Method 8081);
Poly-Chlorinated Biphenyls (EPA Method 8082);
including Tentatively Identified Compounds Three wells to be also sampled for 1,4 Dioxane, and NYSDEC list PFAS.

*** Air samples are to be analyzed for the following parameters:
Volatile Organic Compounds (EPA Method TO-15)

°° Quality Assurance & Quality Control Samples
NA - Not Applicable

FIGURES





SOURCE : THIS MAP CONTAINS THE ESRI ARCGIS ONLINE USA TOPOGRAPHIC MAP SERVICE, PUBLISHED DECEMBER 12, 2009 BY ESRI ARCIMS SERVICES AND UPDATED AS NEEDED. THIS SERVICE USES UNIFORM NATIONALLY RECOGNIZED DATUM AND CARTOGRAPHY STANDARDS AND A VARIETY OF AVAILABLE SOURCES FROM SEVERAL DATA PROVIDERS

Data Supplied by : esri

0 1,000 2,000 4,000

SCALE IN FEET

N W E S

NO.	ISSUE/DESCRIPTION	BY	DATE

REMEDIAL INVESTIGATION WORK PLAN
157 GREAT ARROW AVENUE
BUFFALO, NEW YORK 14207

Final Engineering Report

Greater Property Locus Map

PREPARED BY:
GZA GeoEnvironmental, Inc. of Buffalo
Engineers and Scientists
535 WASHINGTON ST
BUFFALO, NEW YORK 14203

PREPARED FOR:
GREAT ARROW DEVELOPMENT, LLC

PROJ MGR: JJR	REVIEWED BY: TGB	CHECKED BY: BK	FIGURE 1
DESIGNED BY: TGB	DRAWN BY: DCF	SCALE: 1 " = 2,000 '	
DATE: August 2017	PROJECT NO. 21.0056831.20	REVISION NO.	

 T:\Clients\56831 Pierce Arrow BCP Application for Sinatra\Remedial Investigation Work plan\MXD's\Figure1_SiteLocus.mxd, 8/25/2017, 12:49:32 PM, dustin.fletcher

Legend:

Approximate Tax Parcel Boundary and BCP Site Boundary

NOTES:

1. THE SIZE AND LOCATION OF EXISTING AND FORMER SITE FEATURES SHOULD BE CONSIDERED APPROXIMATE

2. HISTORICAL FEATURES DEPICTED ON THIS FIGURE ARE BASED ON A SITE PLAN PROVIDED BY THE SITE CONTACT, ON THE DAY OF INVESTIGATION FOR UTILITY CLEARING PURPOSES.

0 30 60 120

SCALE IN FEET

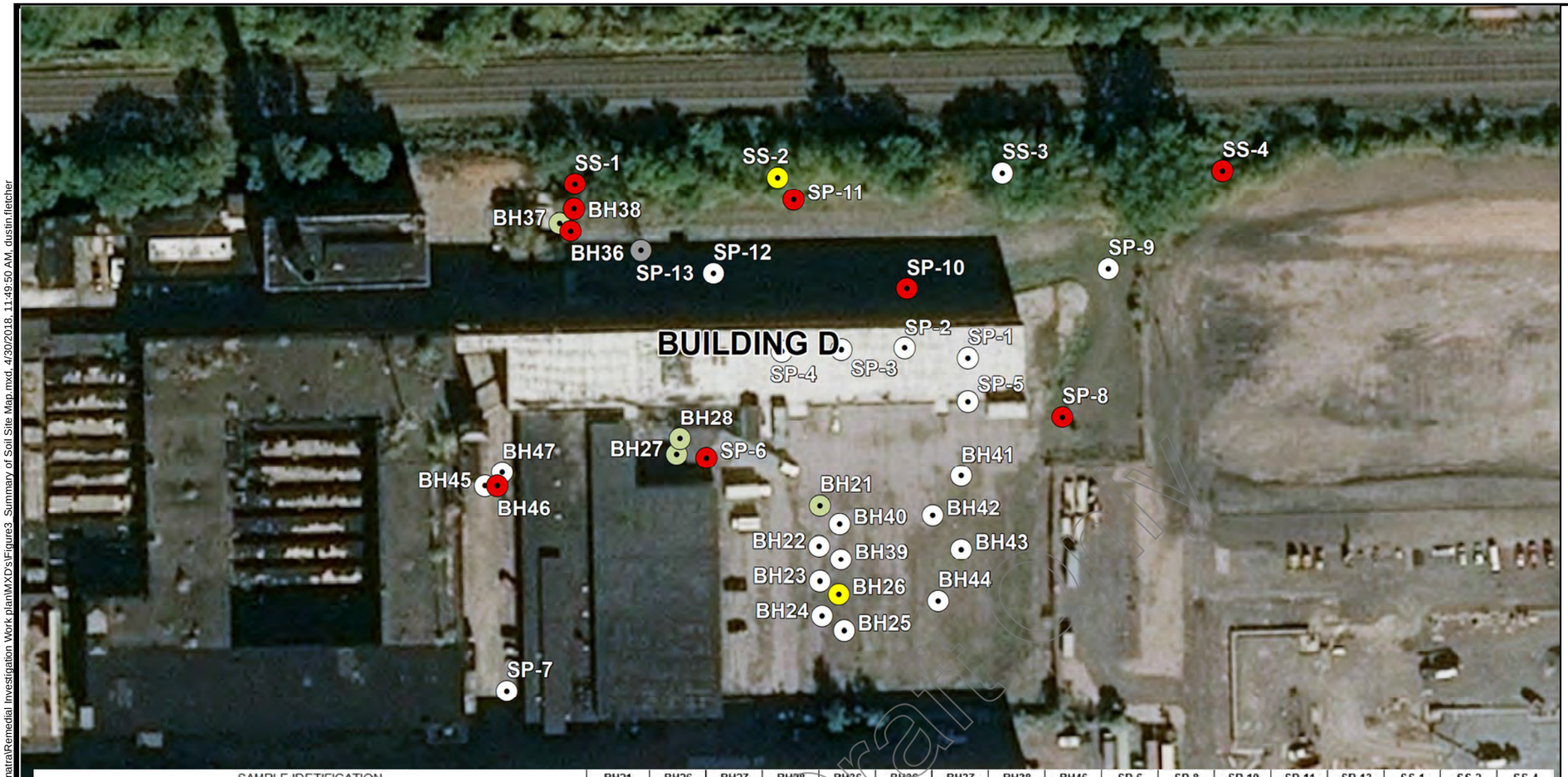
N W E S

Source: Erie County GIS Mapping Website
Notes: All features should be considered approximate

REMIDIAL INVESTIGATION WORK PLAN
157 GREAT ARROW AVENUE
BUFFALO, NEW YORK 14207

SITE MAP

PREPARED BY:		PREPARED FOR:	
GZA GeoEnvironmental, Inc. Engineers and Scientists www.gza.com		GREAT ARROW DEVELOPMENT, LLC	
PROJ MGR: JJR	REVIEWED BY: TGB	CHECKED BY: BK	FIGURE 2
DESIGNED BY: TGB	DRAWN BY: DCF	SCALE: 1 in = 60 ft	
DATE: AUGUST 2017	PROJECT NO. 21.0056831.20	REVISION NO.	



SAMPLE IDETIFICATION						BH21	BH26	BH27	BH28	BH36	BH36	BH37	BH38	BH46	SP-6	SP-8	SP-10	SP-11	SP-13	SS-1	SS-2	SS-4
SAMPLING DATE						8/11/2004	8/11/2004	8/11/2004	8/11/2004	8/12/2004	8/12/2004	8/12/2004	8/12/2004	8/13/2004	7/11/2017	7/11/2017	7/11/2017	7/11/2017	7/11/2017	7/11/2017	7/11/2017	7/11/2017
SAMPLE TYPE (SS = SURFACE SOIL : SP = SOIL PROBE)						SP	SP	SP	SP	SP	SP	SP	SP	SP	SP	SP	SP	SP	SP	SS	SS	SS
SAMPLE DEPTH IN FEET						2 - 4'	0 - 2'	0 - 2'	0 - 2'	2 - 4'	4 - 8'	4 - 6'	4 - 6'	4 - 6'	0 - 1'	0 - 1'	0 - 4.5'	0.5 - 4.5'	4.5'	0.5'	0.5'	0.5'
	NYSDEC Soil Cleanup Ojectives																					
	Unrestircted	Residential	Restricted Residential	Commercial	Industrial																	
Volatile Organic Compounds (mg/kg)																						
Acetone	0.05	100	100	500	1000	0.087	0.167	0.057	ND	ND	0.034	0.084	0.023	ND	NT	NT	NT	NT	0.064	NT	NT	NT
Benzene	0.06	2.9	4.8	44	89	NT	NT	NT	ND	NT	NT	NT	NT	NT	NT	NT	NT	NT	0.068	NT	NT	NT
Methylene Chloride	0.05	51	100	500	1000	0.084	0.018	0.007	0.014	ND	0.005	0.005	0.004	ND	NT	NT	NT	NT	0.73	NT	NT	NT
Trichloroethene	0.47	10	21	200	400	ND	ND	ND	ND	ND	ND	ND	ND	-	NT	NT	NT	NT	23	NT	NT	NT
Semi Volatile Organic Compounds (mg/kg)																						
Benzo (a) Anthracene	1	1	1	5.6		ND	1.36	ND	ND	ND	ND	ND	ND	4.83	2.3	0.12	2.2	0.19	ND	3.6	0.18	2.4
Benzo (b) Fluoranthene	1	1	1	5.6		ND	1.35	ND	ND	ND	ND	ND	ND	5.17	3.1	0.18	3.9	0.21	ND	3.6	0.23	2.4
Benzo (k) Fluoranthene	0.8	1	3.9	56		ND	0.457	ND	ND	ND	ND	ND	ND	4.16	0.95	0.066	1.4	0.56	ND	1.2	0.68	0.67
Benzo (a) pyrene	1	1	1	1	1.1	ND	1.1	ND	ND	ND	ND	ND	ND	4.16	2.1	0.12	2.5	0.15	ND	2.7	0.16	1.5
chrysene	1	1	3.9	56		ND	1.2	ND	ND	ND	ND	ND	ND	4.47	2.4	0.13	2.7	0.27	ND	3.1	0.17	2.4
Dibenz (a,h) anthracene	0.33	0.33	0.33	0.56		ND	0.122	ND	ND	ND	ND	ND	ND	0.779	0.35	0.024	0.44	0.038	ND	0.38	0.032	0.26
Indeno (1,2,3-cd) pyrene	0.5	0.5	0.5	5.6	11	ND	0.251	ND	ND	ND	ND	ND	ND	1.35	1.4	0.086	2.1	0.11	ND	1.6	0.13	1.1
Total Metals (mg/kg)																						
Arsenic, Total	13	16	16	16	16	5.25	14.4	ND	4.99	280	70.9	ND	24.1	ND	4.41	7.15	14.6	52.7	ND	5.38	5.71	3.3
Chromium Total (assumed all Trivalent)	30	36	180	1,500	6,800	24	130	ND	21.6	13.2	11.4	ND	21.3	ND	7	1510	20.5	17.3	ND	26.6	277	11.5
Copper, Total	50	270	270	270	10000	ND	ND	ND	NT	ND	ND	ND	ND	ND	29.2	200	494	49.5	ND	45	48.6	18.8
Manganese, Total	1,600	2,000	2,000	10,000	10,000	ND	ND	ND	NT	ND	ND	ND	ND	ND	2,180	38,500	388	87.3	ND	677	642	305
Nickel, Total	30	140	310	310	10,000	ND	ND	ND	NT	ND	ND	ND	ND	ND	6.32	72	34.7	8.96	ND	23.2	482	13
Selenium	3.9	36	180	1,500	6,800	5.53	5.33	ND	7.83	22.8	5.13	ND	6.72	ND	1.97	8.23	0.737	1.88	1.76	1.89	0.647	1.6

Legend:

Approximate Tax Parcel Boundary and BCP Site Boundary

Exceedance of NYSDEC Soil Cleanup Objectives

- All Analytes Below Unrestricted Use Criteria
- Sample Exceeds Unrestricted Use Criteria For One Or More Analytes
- Sample Exceeds Residential Use Criteria For One Or More Analytes
- Sample Exceeds Restricted Residential Use Criteria For One Or More Analytes
- Sample Exceeds Commercial Use Criteria For One Or More Analytes
- Sample Exceeds Industrial Use Criteria For One Or More Analytes

0 50 100 200

SCALE IN FEET

N W E S

Source: Erie County GIS Mapping Website and Bing Basemap
Notes: All features should be considered

REMEDIAL INVESTIGATION WORK PLAN
157 GREAT ARROW AVENUE
BUFFALO, NEW YORK 14207

SUMMARY OF SOIL IMPACTS

PREPARED BY:
GZA GeoEnvironmental, Inc.
Engineers and Scientists
www.gza.com

PREPARED FOR:
GREAT ARROW DEVELOPMENT, LLC

PROJ MGR: JJR	REVIEWED BY: TGB	CHECKED BY: BK	FIGURE
DESIGNED BY: TGB	DRAWN BY: DCF	SCALE: 1 in = 100 ft	3
DATE: APRIL 2018	PROJECT NO. 21.0056831.20	REVISION NO.	

Parameter	Class GA Groundwater Standard or Guidance Value	SP-9-GW 7/11/2017	SP-13-GW 7/11/2017
Volatile Organic Compounds - EPA Method 8260 TCL + CP-51 (ug/L)			
Acetone	50	< 1.5	9.3
1,1-Dichloroethane	5	< 0.7	3.2
cis-1,2-Dichloroethene	5	0.96 J	2.3 J
Methylcyclohexane	NV	< 0.4	0.54 J
Trichloroethene	5	0.29 J	28
Polycyclic Aromatic Hydrocarbons - EPA Method 8270 (ug/L)			
Acenaphthylene	NV	0.07 J	14 J
Anthracene	50	0.1	71
Benzo(a)anthracene	0.002	0.52	120
Benzo(a)pyrene	Non-Detect	0.59	36
Benzo(b)fluoranthene	0.002	0.86	28
Benzo(g,h,i)perylene	NV	0.55	23
Benzo(k)fluoranthene	0.002	0.29	< 8.4*
Chrysene	0.002	0.63	140
Dibenzo(a,h)anthracene	NV	0.11	< 7.8
Fluoranthene	50	0.93	70
Fluorene	50	0.04 J	< 7.4
Indeno(1,2,3-cd)pyrene	0.002	0.53	9.4 J
Phenanthrene	50	0.41	< 3
Pyrene	50	0.9	390

= Analyte detected at a concentration at or above the Class GA Groundwater Standard or Guidance Value.

Notes:

1. Compounds detected in one or more samples are presented on this table. Refer to Appendix C for a list of all compounds included in the analysis.
2. Analytical testing completed by Alpha Analytical in Westborough, MA.
3. ug/L = parts per billion.
4. < = not detected at a concentration at or above the laboratory's method detection limit. Method Standards and Guidance Values and detection limit is indicated.
5. Class GA Groundwater Standards and Guidance Values are from NYSDEC Ambient Water Quality Groundater Effluent Limitations, effective June 2008.
6. NV = No Value.
7. * - Method Detection Limit exceeded criterion.

Legend:

Approximate Tax Parcel Boundary and BCP Site Boundary

Temporary Groundwater Monitoring Well

N W E S

0 50 100 200

SCALE IN FEET

Source: Erie County GIS Mapping Website and Bing Basemap
Notes: All features should be considered

bing™

REMEDIAL INVESTIGATION WORK PLAN
157 GREAT ARROW AVENUE
BUFFALO, NEW YORK 14207

SUMMARY OF GROUNDWATER IMPACTS

PREPARED BY:
GZA GeoEnvironmental, Inc.
Engineers and Scientists
www.gza.com

PREPARED FOR:
GREAT ARROW DEVELOPMENT, LLC

PROJ MGR: JJR	REVIEWED BY: TGB	CHECKED BY: BK	FIGURE 4
DESIGNED BY: TGB	DRAWN BY: DCF	SCALE: 1 in = 100 ft	
DATE: AUGUST 2017	PROJECT NO. 21.0056831.20	REVISION NO.	

Legend:

- Approximate Tax Parcel Boundary and BCP Site Boundary

Former Building Locations From Sanborn Maps

- Buildings On 1916 Map
- Buildings On 1935 Map
- Buildings On 1950 Map
- Railroad

NOTES:

1. THE SIZE AND LOCATION OF EXISTING AND FORMER SITE FEATURES SHOULD BE CONSIDERED APPROXIMATE

2. HISTORICAL FEATURES DEPICTED ON THIS FIGURE ARE BASED ON A SITE PLAN PROVIDED BY THE SITE CONTACT, ON THE DAY OF INVESTIGATION FOR UTILITY CLEARING PURPOSES.

0 40 80 160

SCALE IN FEET

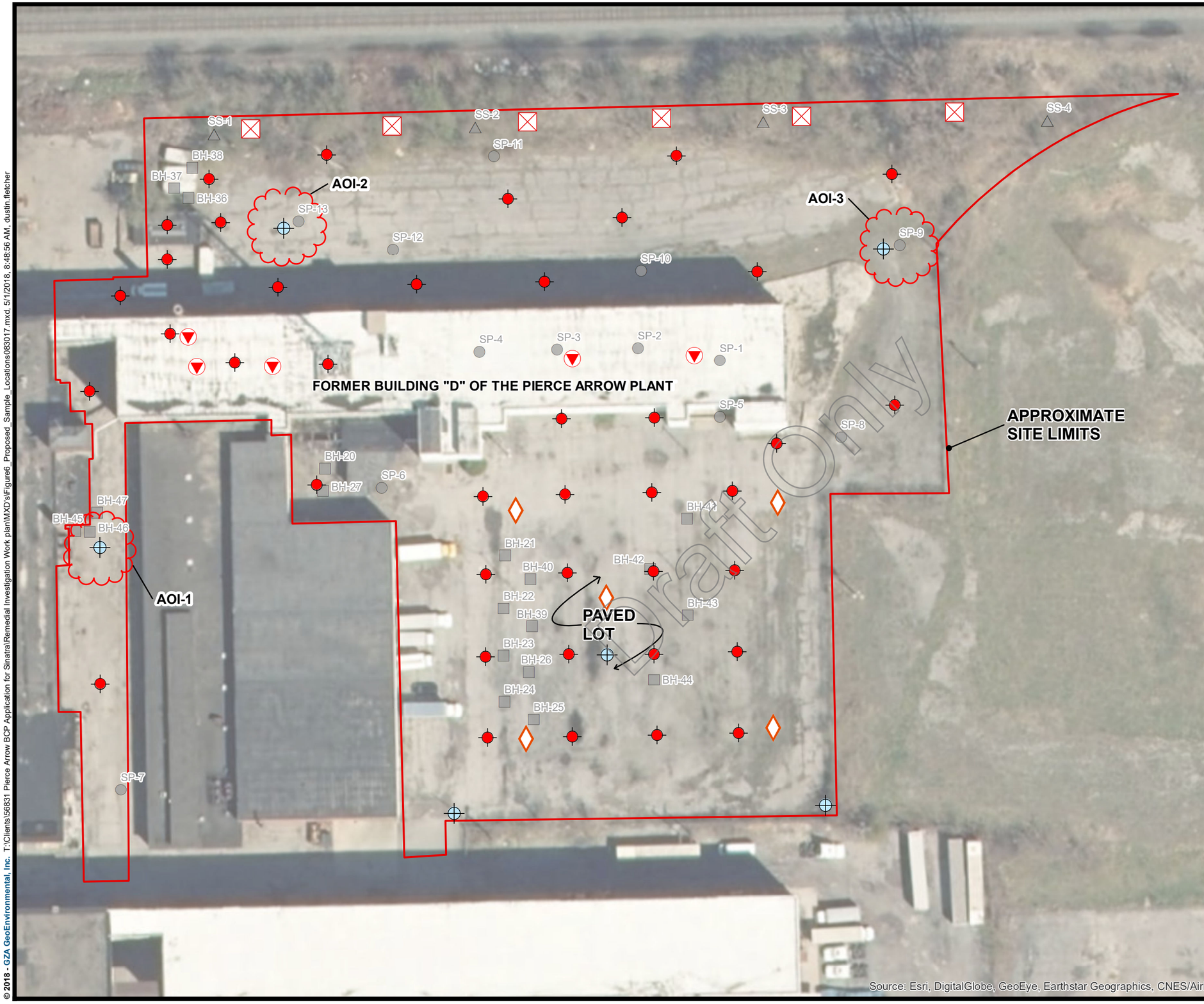
N W E S

Source: Erie County GIS Mapping Website and The Sanborn Library, LLC
Notes: All features should be considered

REMIDIAL INVESTIGATION WORK PLAN
157 GREAT ARROW AVENUE
BUFFALO, NEW YORK 14207

HISTORIC POTENTIAL ENVIRONMENTAL CONCERNS

PREPARED BY:		PREPARED FOR:	
GZA GeoEnvironmental, Inc. Engineers and Scientists www.gza.com		GREAT ARROW DEVELOPMENT, LLC	
PROJ MGR: JJR	REVIEWED BY: TGB	CHECKED BY: BK	FIGURE
DESIGNED BY: TGB	DRAWN BY: DCF	SCALE: 1 in = 80 ft	5
DATE: AUGUST 2017	PROJECT NO. 21.0056831.20	REVISION NO.	



Legend:

- Proposed Surface Soil Sample Location
- Proposed Soil Probe Location
- Proposed Sub-Slab Soil Vapor and Indoor Air Quality Sampling Location
- Proposed Test Pit Location
- Proposed Groundwater Monitoring Well
- Area of Interest
- Approximate Tax Parcel Boundary and BCP Site Boundary
- SP-1 GZA Soil Probe Location (July 2017)
- SS-1 GZA Surface Soil Sample Location (July 2017)
- BH-21 LCS Soil Boring Location (2004)

NOTES:

1. THE SIZE AND LOCATION OF EXISTING AND FORMER SITE FEATURES SHOULD BE CONSIDERED APPROXIMATE

2. HISTORICAL FEATURES DEPICTED ON THIS FIGURE ARE BASED ON A SITE PLAN PROVIDED BY THE SITE CONTACT, ON THE DAY OF INVESTIGATION FOR UTILITY CLEARING PURPOSES.

0 30 60 120
SCALE IN FEET

N W E S

Source: Erie County GIS Mapping Website
Notes: All features should be considered approximate

REMIDIAL INVESTIGATION WORK PLAN
157 GREAT ARROW AVENUE
BUFFALO, NEW YORK 14207

PROPOSED SAMPLE LOCATIONS

PREPARED BY:		PREPARED FOR:	
GZA GeoEnvironmental, Inc. Engineers and Scientists www.gza.com		GREAT ARROW DEVELOPMENT, LLC	
PROJ MGR: JJR	REVIEWED BY: TGB	CHECKED BY: BK	FIGURE 6
DESIGNED BY: TGB	DRAWN BY: MJD	SCALE: 1 in = 60 ft	
DATE: MAY 2018	PROJECT NO. 21.0056831.20	REVISION NO.	

 T:\Clients\56831 Pierce Arrow BCP Application for Sinatra\Remedial Investigation Work plan\MXD's\Figure6_Proposed_Sample_Locations083017.mxd, 5/1/2018, 8:48:56 AM, dustin.fletcher

APPENDIX A

PREVIOUS ENVIRONMENTAL REPORTS (On CD for hard copy)

LCS INC.
Environmental and Real Estate Consultants

CORPORATE OFFICE
P.O. Box 406
Buffalo, New York 14205
716-845-6145
1-800-474-6802
FAX 716-845-6164
mail@lenderconsulting.com

September 8, 2004

Mr. Gerald Stay
FourthofAugust, LLC
D-175 Great Arrow, Inc.
KVell, Inc.
GTS Trust
C/O Nesper, Ferber and DiGiacomo, LLP
One Town Centre – Suite 300
501 John James Audubon Parkway
Amherst, NY 14228

Re: Limited and Focused Subsurface Soil Investigation
177 & 255 Great Arrow Avenue
Buffalo, New York
LCS Project #04B1552.22
NYSDEC Spill No. 04-05957

Dear Mr. Stay:

At your request, Lender Consulting Services, Inc. (LCS) performed a limited and focused subsurface soil investigation at 177 & 255 Great Arrow Avenue, Buffalo, New York (See Figure 1) between August 9, 2004 and August 16, 2004.

This investigation was recommended based LCS' review of a Phase I Environmental Site Assessment prepared by GZA Geo Environmental (GZA) dated May 2004. Through that study, the subject property was identified as historically being utilized for various industrial and commercial uses, notably including an automobile manufacturing operation. Several potential areas of concern were identified on-site which warranted further intrusive study.

The purpose of this intrusive study was to better assess the likelihood that soils in the suspected areas of concern (AOC) noted above had been impacted by volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), metals and/or PCBs, typically associated with the historic on-site operations. Soil samples were collected for stratigraphic characterization and field monitoring with selected samples submitted for laboratory analysis. The scope was not intended to assess the extent of any soil impact or to assess groundwater quality.

Due to the discovery of petroleum-impacted soils on-site, as required by law, the NYSDEC was notified and spill #04-05957 was assigned to the site. Mr. Michael Franks of the NYSDEC is the Spill Investigator assigned to the subject property.

The following is a summary of the methods and results of the investigation.

ROCHESTER OFFICE
1 ALEXANDER STREET, SUITE 213
ROCHESTER, NEW YORK 14604
585-546-6250
FAX 585-546-6263

SYRACUSE OFFICE
120 WASHINGTON ST. SUITE 205
SYRACUSE, NEW YORK 13202
315-473-9438
FAX 315-473-9784

NEW YORK OFFICE
P.O. BOX 756
VALLEY COTTAGE, NY 10989
845-268-1752
FAX 845-268-4736

PENNSYLVANIA OFFICE
P.O. BOX 4770
HARRISBURG, PA. 17111
717-671-5000
FAX 717-671-5041

Methods of Investigation

The sample locations were generally located in the AOC as identified within GZA's Phase I study report. The following table summarizes the AOCs and the test borings completed in those areas.

Sample Locations	Area of Concern
BH1-BH4, BH11-BH16	Gasoline USTs - south of Building H
BH5-BH6	Oil staining/Drum Storage north of Building A
BH7-BH8	Suspect fill ports – west and north Building A
BH9-BH10, BH17-BH19	USTs – south of Building B
BH20, BH27	Drum storage – south of Building D
BH21-BH26, BH39-BH44	Historic operations/former RR - south of Building D
BH28-BH35	Historic use - accessible interior areas – Building B
BH36-BH38	Coal Pile- north of Building D
BH45-BH47	Suspect vent pipe / Suspect UST location - east of Building C
BH48-BH50	Historic Cyanide room – interior Building A
BH51-BH56	Historic use - accessible interior areas – Building A
Inaccessible*	Suspect UST – between Buildings G and H.

* This area was not accessible to the drilling equipment. As such this AOC could not be included with the intrusive study. As discussed later within this report, LCS confirmed the presence of an approximate 1,000 gallon UST in that area.

A truck-mounted percussion and hydraulically driven drive system was used to advance an approximate 1.5-inch diameter, approximate 48 inch long macro-core sampler into the soil for each of the boreholes.

Boreholes BH1 through BH56 were completed between August 9, 2004 and August 16, 2004 (See Figure 2). Soil samples were generally collected within each borehole continuously from the ground surface until the target depth of approximately 8 to 12 feet below the ground surface (ft. bgs) was reached or equipment refusal was encountered.

LCS personnel examined each of the samples collected for characterization of the surficial geology in the area of the investigation. Where applicable, another new sampling device was inserted in the borehole and advanced to the next desired depth, retracted, and another sample retrieved. Any down-hole equipment was decontaminated with an Alconox and tap water wash and tap water rinse between boreholes. The cutting shoes were decontaminated in a similar manner between collection of each sample.

The physical characteristics of all soil samples were classified using the Unified Soil Classification System (USCS) (Visual-Manual Method) and placed in separate sealable containers to allow any vapors to accumulate in the headspace. After several minutes, the container was opened slightly and total VOC concentrations in air within the sample container were measured using a photoionization detector (PID). (The PID is designed to detect VOCs, such as those associated with petroleum and some solvents.) The results of this screening are included in the attached boring logs. Based on the field observations and/or screening results, soils were selected for analysis (see below).

Sample Analysis

Following labeling of the laboratory-supplied sample containers, selected soils were placed on ice. The samples were then submitted, under standard chain-of-custody, to a New York State Department of Health (NYSDOH) approved laboratory for analysis in accordance with United States Environmental Protection Agency (USEPA) SW-846 methods as summarized below.

The following table summarizes the specific analytical testing performed and their respective sample locations.

Areas of Concern	Analytical Testing Performed
Gasoline USTs – south of Building H	
BH1 (2-4 ft. bgs)	8260 STARS List + 10 TICs
BH2 (4-6 ft. bgs)	8260 STARS List + 10 TICs
BH3 (4-6 ft. bgs)	8260 STARS List + 10 TICs
BH11 (4-6 ft. bgs)	8260 STARS List + 10 TICs
BH12 (2-4 ft. bgs)	8260 STARS List + 10 TICs
BH13 (6-8 ft. bgs)	8260 STARS List + 10 TICs
BH15 (4-6 ft. bgs)	8260 STARS List + 10 TICs
BH16 (4-6 ft. bgs)	8260 STARS List + 10 TICs
Oil Staining - north of Building A	
BH5 (0-4 ft. bgs)	8260 TCL,8270 TCL,6010/7000
BH6 (4-6 ft. bgs)	8260 TCL,8270 TCL,6010/7000
Suspect Fill Ports – west and north Building A	
BH7 (4-6 ft. bgs)	8260 STARS List + 10 TICs, 8270 STARS List + 20 TICs
BH8 (0-4 ft. bgs)	8260 STARS List + 10 TICs, 8270 STARS List + 20 TICs
USTs – Building B	
BH9 (4-6 ft. bgs)	8260 STARS List + 10 TICs
BH10 (2-4 ft. bgs)	8260 STARS List + 10 TICs, 8270 STARS List + 20 TICs
BH17 (6-8 ft. bgs)	8260 STARS List + 10 TICs, 8270 STARS List + 20 TICs
BH19 (8-10 ft. bgs)	8260 STARS List + 10 TICs
Drum Storage – south of Building D	
BH20 (2-4 ft. bgs)	8260 TCL, 8270 TCL
BH27 (2-4 ft. bgs)	8260 TCL, 8270 TCL, 6010/7000, 8082
Historic Operations/Former RR - south of Building D	
BH21 (2-4 ft. bgs)	8260 TCL, 8270 TCL, 6010/7000, 8082
BH22 (6-8 ft. bgs)	8260 TCL, 8270 TCL, 6010/7000, 8082
BH23 (0-2 ft. bgs)	8260 TCL, 8270 TCL, 6010/7000, 8082
BH24 (0-2 ft. bgs)	8260 TCL, 8270 TCL, 6010/7000, 8082
BH25 (2-4 ft. bgs)	8260 TCL, 8270 TCL, 6010/7000, 8082
BH26 (0-2 ft. bgs)	8260 TCL, 8270 TCL, 6010/7000, 8082
BH42 (2-4 ft. bgs)	8260 TCL, 8270 TCL, 6010/7000, 8082
BH43 (2-4 ft. bgs)	8260 TCL, 8270 TCL, 6010/7000, 8082
Historic Use - accessible interior areas – Building B	
BH28 (0-2 ft. bgs)	8260 TCL, 8270 TCL, 6010/7000, 8082
BH29 (0-2 ft. bgs)	8260 TCL, 8270 TCL, 6010/7000, 8082
BH33 (0-2 ft. bgs)	8260 TCL, 8270 TCL, 6010/7000, 8082
BH35 (2-4 ft. bgs)	8260 TCL, 8270 TCL, 6010/7000, 8082
Coal Pile- north of Building D	
BH36 (2-4 ft. bgs)	6010/7000, 8082
BH36 (4-8 ft. bgs)	8260 TCL, 8270 TCL
BH37 (4-6 ft. bgs)	8260 TCL, 8270 TCL
BH38 (4-6 ft. bgs)	8260 TCL, 8270 TCL
Suspect Vent Pipe - east of Building C	
BH45 (10-12 ft. bgs)	8260 STARS List + 10 TICs, 8270 STARS List + 20 TICs
BH46 (0-2 ft. bgs)	8260 STARS List + 10 TICs, 8270 STARS List + 20 TICs
BH46 (4-6 ft. bgs)	8260 STARS List + 10 TICs, 8270 STARS List + 20 TICs
Historic Cyanide Room – Interior Building A	
BH48 (2-4 ft. bgs)	8260 TCL, 8270 TCL, 6010/7000, 8082
BH49 (0-2 ft. bgs)	8260 TCL, 8270 TCL, 6010/7000, 8082
Historic Use - Accessible Interior Areas – Building A	
BH51 (0-2 ft. bgs)	8260 TCL, 8270 TCL, 6010/7000, 8082
BH52 (0-2 ft. bgs)	8260 TCL, 8270 TCL, 6010/7000, 8082
BH53 (0-2 ft. bgs)	8260 TCL, 8270 TCL, 6010/7000, 8082
BH54 (1-3 ft. bgs)	8260 TCL, 8270 TCL, 6010/7000, 8082
BH55 (0-2 ft. bgs)	8260 TCL, 8270 TCL, 6010/7000, 8082
BH56 (0-2 ft. bgs)	8260 TCL, 8270 TCL, 6010/7000, 8082

missing

Results of Field Investigation

Fifty-six boreholes (BH1 through BH56) were completed in accessible areas inside and outside of the subject structures between August 9, 2004 and August 16, 2004 (See Figure 2). A total of 245 soil samples were collected for geologic description. The boreholes generally encountered miscellaneous wood, sandy gravel, silty sand, and gravelly sand fill materials to depths of approximately 6.5 ft. bgs. Apparent native soils consisting of lean or silty clay were generally noted beneath the fill material. Groundwater was encountered in 12 of the 56 test borings between approximately 1.5 and 10 ft. bgs. Equipment refusal was encountered in BH35 (4 ft. bgs), BH36 (3 ft. bgs) and BH54 (8 ft. bgs). The cause(s) of the equipment refusal could not be determined.

PID measurements were above total ambient air background VOC measurements (i.e., 0.0 parts per million, ppm) in 230 of the 245 samples collected. These elevated concentrations ranged from 0.7 parts per million (ppm) to 668 ppm (BH10, 2-4 ft. bgs). Petroleum-type odors were detected in BH3 (~3-5 ft. bgs), BH10 (~2-4 ft. bgs), BH13 (~2-6 ft. bgs), BH17 (~5-8 ft. bgs), BH19 (~5-8 ft. bgs), BH45 (~0.5-12 ft. bgs), and BH46 (~0-12 ft. bgs). In LCS' experience, the PID measurements and field observations suggest some petroleum impact.

As discussed above, due to limited access to an area between Building G and Building H, test borings proximate to a suspected UST was not possible. However, LCS did confirm that one approximate 1,000 gallon UST is present. According to personnel at the subject property, the UST is out-of-service.

Refer to the attached subsurface logs for soil classification for each sample interval, field observations and PID measurements.

Analytical Testing Results

The soil samples collected and analyzed detected the analytes listed on the analytical summary tables attached to this report. The respective concentrations as well as applicable regulatory guidance values are also listed for comparison. Analytes not detected are not shown.

Conclusion

Based on the results of the investigation completed, impacted soils (i.e., soils exhibiting petroleum-type odors and/or resulted in elevated analytical results for specific analytes) were discovered in various locations on-site, as summarized below.

Boreholes	Petroleum-type odors	Analytical Testing Performed	Analytical Results above STARS	Analytical Results above TAGM
BH3	~3-5 ft. bgs	VOCs	None	None
BH5	None	VOCs, SVOCs, RCRA Metals	None	SVOCs, RCRA Metals
BH6	None	VOCs, SVOCs, RCRA Metals	None	SVOCs, RCRA Metals
BH10	~2-4 ft. bgs	VOCs, SVOCs	SVOCs	None
BH13	~2-6 ft. bgs	VOCs	None	None
BH17	~5-8 ft. bgs	VOCs, SVOCs	SVOCs	None
BH19	~5-8 ft. bgs	VOCs	None	None
BH21	None	VOCs, SVOCs, RCRA Metals, PCBs	None	RCRA Metals
BH22	None	VOCs, SVOCs, RCRA Metals, PCBs	None	RCRA Metals
BH23	None	VOCs, SVOCs, RCRA Metals, PCBs	None	RCRA Metals
BH24	None	VOCs, SVOCs, RCRA Metals, PCBs	None	SVOCs, RCRA Metals
BH25	None	VOCs, SVOCs, RCRA Metals, PCBs	None	SVOCs, RCRA Metals
BH26	None	VOCs, SVOCs, RCRA Metals, PCBs	None	SVOCs, RCRA Metals
BH27	None	VOCs, SVOCs, RCRA Metals	None	SVOCs
BH28	None	VOCs, SVOCs, RCRA Metals, PCBs	None	RCRA Metals
BH29	None	VOCs, SVOCs, RCRA Metals, PCBs	None	RCRA Metals
BH30	None	VOCs, SVOCs, RCRA Metals, PCBs	None	RCRA Metals
BH33	None	VOCs, SVOCs, RCRA Metals, PCBs	None	SVOCs, RCRA Metals
BH35	None	VOCs, SVOCs, RCRA Metals, PCBs	SVOCs	SVOCs
BH45	~0.5-12	VOCs, SVOCs	None	None
BH46	~0-12 ft. bgs	VOCs, SVOCs	VOCs, SVOCs	None
BH49	None	VOCs, SVOCs, RCRA Metals, PCBs	None	SVOCs, RCRA Metals
BH51	None	VOCs, SVOCs, RCRA Metals, PCBs	None	RCRA Metals
BH53	None	VOCs, SVOCs, RCRA Metals, PCBs	None	RCRA Metals
BH55	None	VOCs, SVOCs, RCRA Metals, PCBs	None	SVOCs
BH56	None	VOCs, SVOCs, RCRA Metals, PCBs	None	SVOCs
BH57	None	VOCs, SVOCs, RCRA Metals, PCBs	None	RCRA Metals

With the exception of apparent petroleum-impact identified proximate to former UST locations, most of the impact identified cannot be linked to specific sources of contamination. Rather it appears that historic operations resulted in what are likely localized areas of impact. Such impact is common for industrial properties with similar historical uses.

This study is subject to the limitations located within the appendix.

Recommendations

The UST located between Building G and Building H should be properly removed or closed-in-place and appropriate remedial action completed if impacted soils are encountered. In addition, a copy of this report should be provided to the NYSDEC for their review. If further investigation or remediation is required by the NYSDEC, LCS can provide a cost estimate to provide that work.

As with any property, if impacted soils are encountered during intrusive work (i.e., site redevelopment, utility work, etc.), such should be handled properly.

Thank you for allowing LCS to service your environmental needs. If you have any questions or require additional information, please do not hesitate to call our office.

Sincerely,

Jeffrey M. Rowley
Geologist

Reviewed by:

Douglas B. Reid
VP, Environmental Services
Environmental Scientist

Attachments

LCS INC.
Environmental and Real Estate Consultants

ANALYTICAL RESULTS SUMMARY TABLES

Soil Results- STARS SVOCs
Great Arrow Complex
177-255 Great Arrow Drive
Buffalo, New York

	Sample ID:	BH7 (4-6)	BH8 (0-4)	BH10 (2-4)	BH17 (6-8)	BH45 (10-12)	BH46 (0-2)	BH46 (4-6)	NYSDEC Rec. Soil Cleanup Objectives	NYSDEC STARS Memo #1 Guidance ValuesGuide
	Sample Date:	8/9/2004	8/9/2004	8/9/2004	8/9/2004	8/13/2004	8/13/2004	8/13/2004	UG/KG	UG/KG
SVOCs-STARS										
Napthalene	UG/KG	ND	ND	**385**	ND	ND	ND	**1,080**	13,000	200
Anthracene	UG/KG	ND	ND	388	ND	ND	357	**2,500**	50,000***	1,000
Acenaphthene	UG/KG	ND	ND	286	ND	ND	215	**1,390**	50,000***	400
Benzo (a) anthracene	UG/KG	ND	ND	**1,700**	**306**	ND	**843**	**4,830**	224 or MDL	0.04
Benzo (b) fluoranthene	UG/KG	ND	ND	**2,520**	**276**	ND	**722**	**5,170**	220 or MDL	0.04
Benzo (k) fluoranthene	UG/KG	ND	ND	**2,140**	**308**	ND	**877**	**4,160**	220 or MDL	0.04
Benzo (g,h,i) perylene	UG/KG	ND	ND	**948**	**291**	ND	**348**	**1,440**	50,000***	0.04
Benzo (a) pyrene	UG/KG	ND	ND	**1,990**	**299**	ND	**772**	**4,160**	61 or MDL	0.04
chrysene	UG/KG	ND	ND	**1,660**	**322**	ND	**884**	**4,470**	400	0.04
Dibenz (a,h) anthracene	UG/KG	ND	ND	ND	**83**	ND	**154**	**779**	14 or MDL	1,000
fluoranthene	UG/KG	ND	ND	**2,610**	636	ND	**2,070**	**12,600**	50,000***	1,000
fluorene	UG/KG	ND	ND	243	ND	ND	169	**1,480**	50,000***	1,000
Indeno (1,2,3-cd) pyrene	UG/KG	ND	ND	**799**	**220**	ND	**299**	**1,350**	3,200	0.04
phenanthrene	UG/KG	ND	ND	**1,540**	261	ND	**1,610**	**10,100**	50,000***	1,000
pyrene	UG/KG	ND	ND	**3,030**	601	ND	**1,730**	**9,720**	50,000***	1,000
TICS	UG/KG	ND	ND	22,322 J	201 J	235 J	2,772J	3,199J	500,000	NL

Shading indicates analytes that were detected above the New York Stae Department of Environmental Conservation (NYSDEC) Recommended Soil Cleanup Guide
Bold indicates analytes that were detected above the NYSDEC STARS Memo Guide
TICS = Tentatively Identified Compounds
NL = Not Listed
***As per TAGM 4046 individual and sum of VOCs not listed (tentatively identified compounds (TICs)) must be less than or equal to 10,000 ug/kg
J = This value is estimated
NL = Not Listed

Soil Results- RCRA Metals
Great Arrow Complex
177-255 Great Arrow Avenue
Buffalo, New York

	Sample ID:	BH5 (0-4)	BH6 (4-6)	BH21 (2-4)	BH22 (6-8)	BH23 (0-2)	BH24 (0-2)	BH25 (2-4)	BH26 (0-2)	BH28 (0-2)	BH29 (0-2)	BH33 (0-2)	BH35 (0-2)	BH36 (2-4)	Eastern USA	Recommended Soil
	Sample Date:	8/9/2004	8/9/2004	8/11/2004	8/11/2004	8/11/2004	8/11/2004	8/11/2004	8/11/2004	8/11/2004	8/11/2004	8/11/2004	8/11/2004	8/12/2004	Background Levels	Cleanup Objectives
Metals	**Units**															
Mercury	mg/kg	**0.304**	**0.181**	0.039	ND	0.056	**0.142**	**0.147**	**0.306**	0.033	ND	0.025	0.055	0.063	0.001-0.2	0.1
Silver	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	SB
Arsenic	mg/kg	**11.9**	**17.8**	5.25	4.42	4.33	**12.1**	**10.6**	**14.4**	4.99	2.18	4.74	4.3	**280**	3-12*	7.5 or SB
Barium	mg/kg	261	195	106	120	134	144	137	130	162	201	158	78.5	55.7	15-600	300 or SB
Cadmium	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.05	0.1-1	1 or SB
Chromium	mg/kg	**32.8**	**174**	**23.9**	**23.5**	**26.5**	**18.6**	**20.2**	**34.2**	**21.6**	8.65	**16.9**	**19.6**	**13.2**	1.5-40*	10 or SB
Lead	mg/kg	426	393	12.3	10.6	17.1	378	617	422	13.3	ND	146	14.2	16	**	SB**
Selenium	mg/kg	ND	ND	**5.53**	**5.14**	**5.08**	**6.06**	**3.72**	**5.33**	**7.83**	**8.93**	**6.94**	2.84	**22.8**	0.1-3.9	2 or SB

Bold indicates analytes above New York State Department of Environmental Conservation Guidance Value
Shaded indicates analytes above Eastern USA Background Concentrations

	Sample ID:	BH36 (4-8)	BH37 (4-6)	BH38 (4-6)	BH42 (2-4)	BH43 (2-4)	BH48 (2-4)	BH49 (0-2)	BH51 (0-2)	BH52 (0-2)	BH53 (0-2)	BH54 (1-3)	BH55 (0-2)	BH56 (0-2)	Eastern USA	Recommended Soil
	Sample Date:	8/12/2004	8/12/2004	8/12/2004	8/12/2004	8/12/2004	8/13/2004	8/13/2004	8/16/2004	8/16/2004	8/16/2004	8/16/2004	8/16/2004	8/16/2004	Background Levels	Cleanup Objectives
Metals	**Units**															
Mercury	mg/kg	**0.141**	0.036	0.024	0.041	0.029	0.017	0.017	ND	ND	0.084	0.056	0.051	ND	0.001-0.2	0.1
Silver	mg/kg	ND	ND	ND	ND	ND	ND	ND	1.58	2.07	0.608	ND	1.43	ND	NA	SB
Arsenic	mg/kg	70.9	5.07	**24.1**	2.51	2.92	5.2	4.5	ND	2.5	4.89	4.55	2.47	3.46	3-12*	7.5 or SB
Barium	mg/kg	30.1	100	94.7	76.7	95	99.3	125	278	106	259	115	169	55.4	15-600	300 or SB
Cadmium	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.1-1	1 or SB
Chromium	mg/kg	**11.4**	**21.3**	19.9	17.3	19.4	**20**	8.65	6.79	7.64	**19.7**	8.12	**11.6**	**11.4**	1.5-40	10 or SB
Lead	mg/kg	11	111	22.5	13.6	12.5	10.9	176	ND	14.8	30.4	17.5	18.3	32.4	**	SB**
Selenium	mg/kg	**5.13**	**4.44**	**6.72**	**3.26**	**3.28**	**3.02**	**4.91**	**3.86**	**2.01**	**4.51**	**3.55**	**3.34**	ND	0.1-3.9	2 or SB

Bold indicates analytes above New York State Department of Environmental Conservation Guidance Value
Shaded indicates analytes above Eastern USA Background Concentrations
* = New York State Background
**=Background levels for lead vary widely. Average levels in undeveloped, rural areas may range from 4-61ppm. Average background levels in metropolitan or suburban aras or near highways are much higher and typically range from 200-500ppm.

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SITE LOCATION MAP

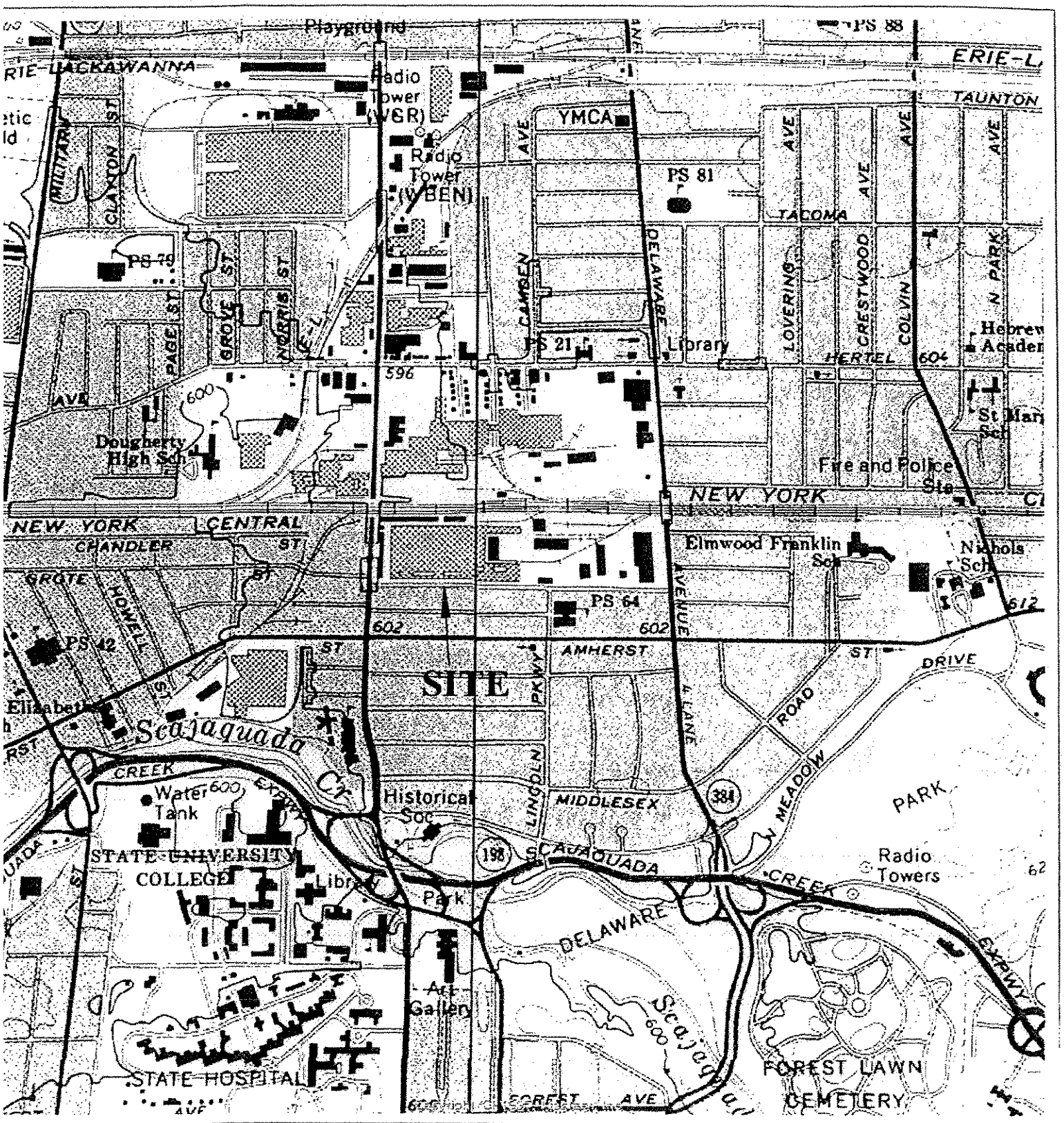

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Figure 1- Site Location Map
Great Arrow Complex
177-255 Great Arrow Avenue
Buffalo, New York
LCS Project No. 04B1552.22

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SUBSURFACE INVESTIGATION MAP

Soil Results- RCRA Metals
Great Arrow Complex
177-255 Great Arrow Avenue
Buffalo, New York

Metals	Units	Sample ID: BH5 (0-4) Sample Date: 8/9/2004	BH6 (4-6) 8/9/2004	BH21 (2-4) 8/11/2004	BH22 (6-8) 8/11/2004	BH23 (0-2) 8/11/2004	BH24 (0-2) 8/11/2004	BH25 (2-4) 8/11/2004	BH26 (0-2) 8/11/2004	BH28 (0-2) 8/11/2004	BH29 (0-2) 8/11/2004	BH33 (0-2) 8/11/2004	BH35 (0-2) 8/11/2004	BH36 (2-4) 8/12/2004	Eastern USA Background Levels	Recommended Soil Cleanup Objectives
Mercury	mg/kg	0.304	0.184	0.039	ND	0.056	0.142	0.147	0.306	0.033	ND	0.025	0.055	0.063	0.001-0.2	0.1
Silver	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	SB
Arsenic	mg/kg	11.9	17.8	5.25	4.42	4.33	12.1	10.6	14.4	4.99	2.18	4.74	4.3	280	3-12*	7.5 or SB
Barium	mg/kg	261	195	106	120	134	144	137	130	162	201	158	78.5	55.7	15-600	300 or SB
Cadmium	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.05	0.1-1	1 or SB
Chromium	mg/kg	32.9	174	23.9	23.5	26.5	18.6	20.2	34.2	21.6	8.65	16.9	19.6	13.2	1.5-40*	10 or SB
Lead	mg/kg	426	393	12.3	10.6	17.1	378	617	422	13.3	ND	146	14.2	16	**	SB**
Selenium	mg/kg	ND	ND	5.53	5.14	5.08	6.06	3.72	5.33	7.83	8.93	6.94	2.84	22.8	0.1-3.9	2 or SB

Bold indicates analytes above New York State Department of Environmental Conservation Guidance Value
Shaded indicates analytes above Eastern USA Background Concentrations

Metals	Units	Sample ID: BH36 (4-8) Sample Date: 8/12/2004	BH37 (4-6) 8/12/2004	BH38 (4-6) 8/12/2004	BH42 (2-4) 8/12/2004	BH43 (2-4) 8/12/2004	BH48 (2-4) 8/13/2004	BH49 (0-2) 8/13/2004	BH51 (0-2) 8/16/2004	BH52 (0-2) 8/16/2004	BH53 (0-2) 8/16/2004	BH54 (1-3) 8/16/2004	BH55 (0-2) 8/16/2004	BH56 (0-2) 6/16/2004	Eastern USA Background Levels	Recommended Soil Cleanup Objectives
Mercury	mg/kg	0.141	0.036	0.024	0.041	0.029	0.017	0.017	ND	ND	0.084	0.056	0.051	ND	0.001-0.2	0.1
Silver	mg/kg	ND	ND	ND	ND	ND	ND	ND	1.58	2.07	0.608	ND	1.43	ND	NA	SB
Arsenic	mg/kg	70.9	5.07	24.1	2.51	2.92	5.2	4.5	ND	2.5	4.89	4.55	2.47	3.46	3-12*	7.5 or SB
Barium	mg/kg	30.1	100	94.7	76.7	95	99.3	125	278	106	259	115	169	55.4	15-600	300 or SB
Cadmium	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.1-1	1 or SB
Chromium	mg/kg	11.4	21.3	19.9	17.3	19.4	20	8.65	6.79	7.64	19.7	8.12	11.6	11.4	1.5-40	10 or SB
Lead	mg/kg	11	111	22.5	13.6	12.5	10.9	176	ND	14.8	30.4	17.5	18.3	32.4	**	SB**
Selenium	mg/kg	5.13	4.44	6.72	3.26	3.28	3.02	4.01	3.86	2.01	4.51	3.55	3.34	ND	0.1-3.9	2 or SB

Bold indicates analytes above New York State Department of Environmental Conservation Guidance Value
Shaded indicates analytes above Eastern USA Background Concentrations
* = New York State Background
**=Background levels for lead vary widely. Average levels in undeveloped, rural areas may range from 4-61ppm. Average background levels in metropolitan or suburban aras or near highways are much higher and typically range from 200-500ppm.

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SUBSURFACE LOGS

LCS Inc. SUBSURFACE LOG

PROJECT/ LOCATION: 177 & 255 Great Arrow Avenue, Buffalo, New York PROJECT No: 04B1552.22

CLIENT: Nesper, Ferber & DiGiacomo, LLP WELL/BORING No. BH1

DATE STARTED: 8/9/04 DATE COMPLETED: 8/9/04 RECORDED BY: JMR

GROUNDWATER DEPTH WHILE DRILLING: NA AFTER COMPLETION: NA

WEATHER: ~70F, Sunny DRILL RIG: Geoprobe DRILLER: BMS Drilling

DRILL SIZE/TYPE: Macro-core SAMPLE HAMMER: WEIGHT NA FALL NA

Sample No.	PID/HNu Reading (ppm)	Depth (Feet)	Type *	Blows/6"	N	Recovery (Inches)	Material Classification and Description (Unified Soil Classification System-Visual Manual Method)
1	16.2	0-2	U	-	-	12	0-0.4ft: Concrete
2	19.8	2-4	U	-	-	12	0.4-3ft: Brown sandy clayey silt (low plasticity, moist)
3	19.1	4-6	U	-	-	20	3-10ft: Brown silty clay (low plasticity, stiff, moist)
4	14.9	6-8	U	-	-	20	10-12ft: Brown clay (high plasticity, soft, moist)
5	16.5	8-10	U	-	-	24	
6	19.7	10-12	U	-	-	24	

NOTES NA = Not Applicable

ft. bgs = feet below ground surface

Fill to ~3 ft. bgs

No suspect odors detected

*SS - SPLIT-SPOON SAMPLE U - UNDISTURBED TUBE P - PISTON TUBE C - CORE

LCS Inc. SUBSURFACE LOG

PROJECT/ LOCATION: 177 & 255 Great Arrow Avenue, Buffalo, New York PROJECT No. 04B1552.22

CLIENT: Nesper, Ferber & DiGiacomo, LLP WELL/BORING No. BH2

DATE STARTED: 8/9/04 DATE COMPLETED: 8/9/04 RECORDED BY: JMR

GROUNDWATER DEPTH WHILE DRILLING: NA AFTER COMPLETION: NA

WEATHER: ~70F, Sunny DRILL RIG: Geoprobe DRILLER: BMS Drilling

DRILL SIZE/TYPE: Macro-core SAMPLE HAMMER: WEIGHT NA FALL NA

Sample No.	PID/HNu Reading (ppm)	Depth (Feet)	Type *	Blows/6"	N	Recovery (Inches)	Material Classification and Description (Unified Soil Classification System-Visual Manual Method)
1	22.9	0-2	U	-	-	12	0-0.4ft: Concrete
2	25.6	2-4	U	-	-	12	0.4-3ft: Brown gravelly sand (coarse, medium, fine, medium dense, moist)
3	33.8	4-6	U	-	-	12	3-4ft: Gray gravelly sand (coarse, medium, fine, medium dense, moist)
4	6.7	6-8	U	-	-	12	4-6ft: Brown silty clayey sand (fine, medium dense, moist)
5	7.2	8-10	U	-	-	24	6-12ft: Brown silty clay (moderate plasticity, soft, moist)
6	9.7	10-12	U	-	-	24	

NOTES NA = Not Applicable

ft. bgs = feet below ground surface

Fill to ~3 ft. bgs

No suspect odors detected

*SS - SPLIT-SPOON SAMPLE U - UNDISTURBED TUBE P - PISTON TUBE C - CORE

LCS Inc. SUBSURFACE LOG

PROJECT/ LOCATION: 177 & 255 Great Arrow Avenue, Buffalo, New York PROJECT No. 04B1552.22

CLIENT: Nesper, Ferber & DiGiacomo, LLP WELL/BORING No. BH3

DATE STARTED: 8/9/04 DATE COMPLETED: 8/9/04 RECORDED BY: JMR

GROUNDWATER DEPTH WHILE DRILLING: NA AFTER COMPLETION: NA

WEATHER: ~70F, Sunny DRILL RIG: Geoprobe DRILLER: BMS Drilling

DRILL SIZE/TYPE: Macro-core SAMPLE HAMMER: WEIGHT NA FALL NA

Sample No.	PID/HNu Reading (ppm)	Depth (Feet)	Type *	Blows/6"	N	Recovery (Inches)	Material Classification and Description (Unified Soil Classification System-Visual Manual Method)
1	7.1	0-4	U	-	-	10	0-0.4ft: Concrete
2	26.9	4-6	U	-	-	12	0.4-3ft: Brown gravelly sand (coarse, medium, fine, medium dense, moist)
3	16.8	6-8	U	-	-	12	3-12ft: Brown clay (moderate plasticity, soft, moist)
4	18.1	8-10	U	-	-	20	
5	6.8	10-12	U	-	-	20	

NOTES NA = Not Applicable

ft. bgs = feet below ground surface

Fill to ~3 ft. bgs

Petroleum-type odors detected @ ~3-5 ft. bgs

*SS - SPLIT-SPOON SAMPLE U - UNDISTURBED TUBE P - PISTON TUBE C - CORE

LCS Inc. SUBSURFACE LOG

PROJECT/ LOCATION: 177 & 255 Great Arrow Avenue, Buffalo, New York | PROJECT No.: 04B1552.22

CLIENT: Nesper, Ferber & DiGiacomo, LLP | WELL/BORING No.: BH4

DATE STARTED: 8/9/04 | DATE COMPLETED: 8/9/04 | RECORDED BY: JMR

GROUNDWATER DEPTH WHILE DRILLING: NA | AFTER COMPLETION: NA

WEATHER: ~70F, Sunny | DRILL RIG: Geoprobe | DRILLER: BMS Drilling

DRILL SIZE/TYPE: Macro-core | SAMPLE HAMMER: WEIGHT NA | FALL NA

Sample No.	PID/HNu Reading (ppm)	Depth (Feet)	Type*	Blows/6"	N	Recovery (Inches)	Material Classification and Description (Unified Soil Classification System-Visual Manual Method)
1	13.1	0-4	U	-	-	10	0-0.4ft: Concrete
2	11.0	4-6	U	-	-	12	0.4-3ft: Light brown gravelly sand (coarse, medium, fine, medium dense, moist)
3	7.1	6-8	U	-	-	12	3-5ft: Black gravelly sand (coarse, medium dense, moist)
4	7.9	8-10	U	-	-	20	5-12ft: Brown silty clay (moderate to high plasticity, stiff to soft, moist)
5	8.5	10-12	U	-	-	20	

NOTES NA = Not Applicable

ft. bgs = feet below ground surface

Fill to ~3 ft. bgs

No suspect odors detected

*SS - SPLIT-SPOON SAMPLE U - UNDISTURBED TUBE P - PISTON TUBE C - CORE

LCS Inc. SUBSURFACE LOG

PROJECT/ LOCATION: 177 & 255 Great Arrow Avenue, Buffalo, New York PROJECT No. 04B1552.22

CLIENT: Nesper, Ferber & DiGiacomo, LLP WELL/BORING No. BH5

DATE STARTED: 8/9/04 DATE COMPLETED: 8/9/04 RECORDED BY: JMR

GROUNDWATER DEPTH WHILE DRILLING: ~5 ft. bgs AFTER COMPLETION: NA

WEATHER: ~70F, Sunny DRILL RIG: Geoprobe DRILLER: BMS Drilling

DRILL SIZE/TYPE: Macro-core SAMPLE HAMMER: WEIGHT NA FALL NA

Sample No.	PID/HNu Reading (ppm)	Depth (Feet)	Type *	Blows/6"	N	Recovery (Inches)	Material Classification and Description (Unified Soil Classification System-Visual Manual Method)
1	16.5	0-4	U	-	-	10	0-2ft: Brown gravelly sand (coarse, medium, fine, medium dense, moist)
2	12.2	4-6	U	-	-	10	2-6ft: Gray gravelly silty clay (high plasticity, soft, moist to wet)
3	7.0	6-8	U	-	-	10	6-8ft: Brown silty clay (moderate plasticity, stiff, wet)

NOTES NA = Not Applicable

ft. bgs = feet below ground surface

Fill to ~2 ft. bgs

No suspect odors detected

*SS - SPLIT-SPOON SAMPLE U - UNDISTURBED TUBE P - PISTON TUBE C - CORE

LCS Inc. SUBSURFACE LOG

PROJECT/ LOCATION: 177 & 255 Great Arrow Avenue, Buffalo, New York PROJECT No. 04B1552.22

CLIENT: Nesper, Ferber & DiGiacomo, LLP WELL/BORING No. BH6

DATE STARTED: 8/9/04 DATE COMPLETED: 8/9/04 RECORDED BY: JMR

GROUNDWATER DEPTH WHILE DRILLING: ~5 ft. bgs AFTER COMPLETION: NA

WEATHER: ~70F, Sunny DRILL RIG: Geoprobe DRILLER: BMS Drilling

DRILL SIZE/TYPE: Macro-core SAMPLE HAMMER: WEIGHT NA FALL NA

Sample No.	PID/HNu Reading (ppm)	Depth (Feet)	Type *	Blows/6"	N	Recovery (Inches)	Material Classification and Description (Unified Soil Classification System-Visual Manual Method)
1	7.0	0-4	U	-	-	10	0-2ft: Brown gravelly sand (coarse, medium, fine, medium dense, moist)
2	7.5	4-6	U	-	-	12	2-4ft: Brown gravelly sand (fine, medium dense, moist)
3	6.2	6-8	U	-	-	12	4-6ft: Brown/gray gravelly silty clay (moderate plasticity, soft, moist to wet)
							6-7ft: Black sandy gravel (coarse, angular, loose, wet)
							7-8ft: Brown silty clay (high plasticity, soft, wet)

NOTES NA = Not Applicable

ft. bgs = feet below ground surface

Fill to ~4 ft. bgs

No suspect odors detected

*SS - SPLIT-SPOON SAMPLE U - UNDISTURBED TUBE P - PISTON TUBE C - CORE

LCS Inc. SUBSURFACE LOG

PROJECT/ LOCATION: 177 & 255 Great Arrow Avenue, Buffalo, New York PROJECT No. 04B1552.22

CLIENT: Nesper, Ferber & DiGiacomo, LLP WELL/BORING No. BH7

DATE STARTED: 8/9/04 DATE COMPLETED: 8/9/04 RECORDED BY: JMR

GROUNDWATER DEPTH WHILE DRILLING: NA AFTER COMPLETION: NA

WEATHER: ~70F, Sunny DRILL RIG: Geoprobe DRILLER: BMS Drilling

DRILL SIZE/TYPE: Macro-core SAMPLE HAMMER: WEIGHT NA FALL NA

Sample No.	PID/HNu Reading (ppm)	Depth (Feet)	Type *	Blows/6"	N	Recovery (Inches)	Material Classification and Description (Unified Soil Classification System-Visual Manual Method)
1	4.8	0-2	U	-	-	12	0-0.4ft: Asphalt
2	9.5	2-4	U	-	-	12	0.4-1ft: Black sandy gravel (coarse, angular, loose, moist)
3	9.0	4-6	U	-	-	20	1-4ft: Brown silty gravelly sand (coarse, medium, fine, medium dense, moist)
4	4.9	6-8	U	-	-	20	4-12ft: Brown clay (low plasticity, stiff, moist)
5	4.0	8-10	U	-	-	24	
6	1.2	10-12	U	-	-	24	

NOTES NA = Not Applicable

ft. bgs = feet below ground surface

Fill to ~4 ft. bgs

No suspect odors detected

*SS - SPLIT-SPOON SAMPLE U - UNDISTURBED TUBE P - PISTON TUBE C - CORE

LCS Inc. SUBSURFACE LOG

PROJECT/ LOCATION: 177 & 255 Great Arrow Avenue, Buffalo, New York PROJECT No. 04B1552.22

CLIENT: Nesper, Ferber & DiGiacomo, LLP WELL/BORING No. BH8

DATE STARTED: 8/9/04 DATE COMPLETED: 8/9/04 RECORDED BY: JMR

GROUNDWATER DEPTH WHILE DRILLING: NA AFTER COMPLETION: NA

WEATHER: ~70F, Sunny DRILL RIG: Geoprobe DRILLER: BMS Drilling

DRILL SIZE/TYPE: Macro-core SAMPLE HAMMER: WEIGHT NA FALL NA

Sample No.	PID/HNu Reading (ppm)	Depth (Feet)	Type *	Blows/6"	N	Recovery (Inches)	Material Classification and Description (Unified Soil Classification System-Visual Manual Method)
1	25.2	0-4	U	-	-	10	0-0.4ft: Asphalt
2	1.3	4-6	U	-	-	12	0.4-1ft: Black sandy gravel (coarse, angular, loose, moist)
3	2.0	6-8	U	-	-	12	1-4ft: Brown silty gravelly sand (coarse, medium, fine, medium
							dense, moist) (red brick)
4	1.3	8-10	U	-	-	24	4-12ft: Brown clay (low plasticity, stiff, moist)
5	2.1	10-12	U	-	-	24	

NOTES NA = Not Applicable

ft. bgs = feet below ground surface

Fill to ~4 ft. bgs

No suspect odors detected

*SS - SPLIT-SPOON SAMPLE U - UNDISTURBED TUBE P - PISTON TUBE C - CORE

LCS Inc. SUBSURFACE LOG

PROJECT/ LOCATION: 177 & 255 Great Arrow Avenue, Buffalo, New York | PROJECT No. 04B1552.22

CLIENT: Nesper, Ferber & DiGiacomo, LLP | WELL/BORING No. BH9

DATE STARTED: 8/9/04 | DATE COMPLETED: 8/9/04 | RECORDED BY: JMR

GROUNDWATER DEPTH WHILE DRILLING: NA | AFTER COMPLETION: NA

WEATHER: ~70F, Sunny | DRILL RIG: Geoprobe | DRILLER: BMS Drilling

DRILL SIZE/TYPE: Macro-core | SAMPLE HAMMER: WEIGHT NA | FALL NA

Sample No.	PID/HNu Reading (ppm)	Depth (Feet)	Type *	Blows/6"	N	Recovery (Inches)	Material Classification and Description (Unified Soil Classification System-Visual Manual Method)
1	3.4	0-2	U	-	-	10	0-2ft: Black gravelly sand (coarse, medium, fine, medium dense, moist)
2	2.0	2-4	U	-	-	10	2-3ft: Light brown sand (fine, medium dense, moist)
3	3.2	4-6	U	-	-	12	3-12ft: Brown clay (low plasticity, stiff, moist)
4	1.3	6-8	U	-	-	12	
5	2.3	8-10	U	-	-	20	
6	1.9	10-12	U	-	-	20	

NOTES NA = Not Applicable

ft. bgs = feet below ground surface

Fill to ~3 ft. bgs

No suspect odors detected

*SS - SPLIT-SPOON SAMPLE U - UNDISTURBED TUBE P - PISTON TUBE C - CORE

LCS Inc. SUBSURFACE LOG

PROJECT/ LOCATION: 177 & 255 Great Arrow Avenue, Buffalo, New York PROJECT No. 04B1552.22

CLIENT: Nesper, Ferber & DiGiacomo, LLP WELL/BORING No. BH10

DATE STARTED: 8/9/04 DATE COMPLETED: 8/9/04 RECORDED BY: JMR

GROUNDWATER DEPTH WHILE DRILLING: ~6 ft. bgs AFTER COMPLETION: NA

WEATHER: ~75F, Sunny DRILL RIG: Geoprobe DRILLER: BMS Drilling

DRILL SIZE/TYPE: Macro-core SAMPLE HAMMER: WEIGHT NA FALL NA

Sample No.	PID/HNu Reading (ppm)	Depth (Feet)	Type *	Blows/6"	N	Recovery (Inches)	Material Classification and Description (Unified Soil Classification System-Visual Manual Method)
1	5.2	0-2	U	-	-	20	0-2ft: Black gravelly sand (coarse, medium, fine, medium dense, moist)
2	668	2-4	U	-	-	20	2-4ft: Brown/gray sand (fine, medium dense, moist)
3	13.1	4-8	U	-	-	10	4-8ft: Gray sandy gravel (coarse, angular, loose, moist to wet)
4	7.4	8-10	U	-	-	24	8-12ft: Brown silty clay (high plasticity, soft, moist)
5	4.3	10-12	U	-	-	24	

NOTES NA = Not Applicable

ft. bgs = feet below ground surface

Fill to ~4 ft. bgs

Strong petroleum-type odors detected @ ~2-4 ft. bgs

*SS - SPLIT-SPOON SAMPLE U - UNDISTURBED TUBE P - PISTON TUBE C - CORE

LCS Inc. SUBSURFACE LOG

PROJECT/ LOCATION: 177 & 255 Great Arrow Avenue, Buffalo, New York | PROJECT No.: 04B1552.22

CLIENT: Nesper, Ferber & DiGiacomo, LLP | WELL/BORING No.: BH11

DATE STARTED: 8/10/04 | DATE COMPLETED: 8/10/04 | RECORDED BY: JMR

GROUNDWATER DEPTH WHILE DRILLING: NA | AFTER COMPLETION: NA

WEATHER: ~75F, Sunny | DRILL RIG: Geoprobe | DRILLER: BMS Drilling

DRILL SIZE/TYPE: Macro-core | SAMPLE HAMMER: WEIGHT NA | FALL NA

Sample No.	PID/HNu Reading (ppm)	Depth (Feet)	Type *	Blows/6"	N	Recovery (Inches)	Material Classification and Description (Unified Soil Classification System-Visual Manual Method)
1	19.2	0-2	U	-	-	12	0-0.4ft: Concrete
2	24	2-4	U	-	-	12	0.4-1ft: Gray gravelly sand (coarse, medium, fine, medium dense, moist)
3	70.8	4-6	U	-	-	20	1-4ft: Brown sandy silty clay (no plasticity, stiff, moist)
4	45.6	6-8	U	-	-	20	4-12ft: Brown silty clay (high plasticity, soft, moist)
5	30.8	8-10	U	-	-	20	
6	20.8	10-12	U	-	-	20	

NOTES NA = Not Applicable

ft. bgs = feet below ground surface

Fill to ~4 ft. bgs

No suspect odors detected

*SS - SPLIT-SPOON SAMPLE U - UNDISTURBED TUBE P - PISTON TUBE C - CORE

LCS Inc. SUBSURFACE LOG

PROJECT/ LOCATION: 177 & 255 Great Arrow Avenue, Buffalo, New York | PROJECT No. 04B1552.22

CLIENT: Nesper, Ferber & DiGiacomo, LLP | WELL/BORING No. BH12

DATE STARTED: 8/10/04 | DATE COMPLETED: 8/10/04 | RECORDED BY: JMR

GROUNDWATER DEPTH WHILE DRILLING: NA | AFTER COMPLETION: NA

WEATHER: ~75F, Sunny | DRILL RIG: Geoprobe | DRILLER: BMS Drilling

DRILL SIZE/TYPE: Macro-core | SAMPLE HAMMER: WEIGHT NA | FALL NA

Sample No.	PID/HNu Reading (ppm)	Depth (Feet)	Type*	Blows/6"	N	Recovery (Inches)	Material Classification and Description (Unified Soil Classification System-Visual Manual Method)
1	9.2	0-2	U	-	-	12	0-0.4ft: Concrete
2	40.9	2-4	U	-	-	12	0.4-1ft: Gray gravelly sand (coarse, medium, fine, medium dense, moist)
3	25.2	4-6	U	-	-	20	1-4ft: Brown sandy silty clay (no plasticity, stiff, moist)
4	28.3	6-8	U	-	-	20	4-12ft: Brown silty clay (high plasticity, soft, moist)
5	20.8	8-10	U	-	-	20	
6	22.1	10-12	U	-	-	20	

NOTES NA = Not Applicable

ft. bgs = feet below ground surface

Fill to ~4 ft. bgs

No suspect odors detected

*SS - SPLIT-SPOON SAMPLE U - UNDISTURBED TUBE P - PISTON TUBE C - CORE

LCS Inc. SUBSURFACE LOG

PROJECT/ LOCATION: 177 & 255 Great Arrow Avenue, Buffalo, New York | PROJECT No. 04B1552.22

CLIENT: Nesper, Ferber & DiGiacomo, LLP | WELL/BORING No. BH13

DATE STARTED: 8/10/04 | DATE COMPLETED: 8/10/04 | RECORDED BY: JMR

GROUNDWATER DEPTH WHILE DRILLING: NA | AFTER COMPLETION: NA

WEATHER: ~75F, Sunny | DRILL RIG: Geoprobe | DRILLER: BMS Drilling

DRILL SIZE/TYPE: Macro-core | SAMPLE HAMMER: WEIGHT NA | FALL NA

Sample No.	PID/HNu Reading (ppm)	Depth (Feet)	Type *	Blows/6"	N	Recovery (Inches)	Material Classification and Description (Unified Soil Classification System-Visual Manual Method)
1	24.2	0-2	U	-	-	12	0-0.4ft: Concrete
2	15.7	2-4	U	-	-	12	0-4-2ft: Brown clayey silty sand (fine, medium dense, moist)
3	19.3	4-6	U	-	-	20	2-12ft: Brown silty clay (high plasticity, soft, moist)
4	24.9	6-8	U	-	-	20	
5	21.6	8-10	U	-	-	20	
6	12.0	10-12	U	-	-	20	

NOTES NA = Not Applicable

ft. bgs = feet below ground surface

Fill to ~2 ft. bgs

Moderate petroleum-type odors @ ~2-6 ft. bgs

*SS - SPLIT-SPOON SAMPLE U - UNDISTURBED TUBE P - PISTON TUBE C - CORE

LCS Inc. SUBSURFACE LOG

PROJECT/ LOCATION: 177 & 255 Great Arrow Avenue, Buffalo, New York | PROJECT No. 04B1552.22

CLIENT: Nesper, Ferber & DiGiacomo, LLP | WELL/BORING No. BH14

DATE STARTED: 8/10/04 | DATE COMPLETED: 8/10/04 | RECORDED BY: JMR

GROUNDWATER DEPTH WHILE DRILLING: NA | AFTER COMPLETION: NA

WEATHER: ~75F, Sunny | DRILL RIG: Geoprobe | DRILLER: BMS Drilling

DRILL SIZE/TYPE: Macro-core | SAMPLE HAMMER: WEIGHT NA | FALL NA

Sample No.	PID/HNu Reading (ppm)	Depth (Feet)	Type*	Blows/6"	N	Recovery (Inches)	Material Classification and Description (Unified Soil Classification System-Visual Manual Method)
1	6.8	0-4	U	-	-	10	0-0.4ft: Concrete
2	11.2	4-6	U	-	-	12	0.4-3ft: Brown gravelly sand (coarse, medium, fine, medium dense, moist)
3	13.0	6-8	U	-	-	20	3-4ft: Gray gravelly sand (coarse, medium, fine, medium dense, moist)
4	7.4	8-10	U	-	-	24	4-6ft: Brown silty clayey sand (fine, medium dense, moist)
5	24.9	10-12	U	-	-	24	6-12ft: Brown silty clay (moderate plasticity, soft, moist)

NOTES NA = Not Applicable

ft. bgs = feet below ground surface

Fill to ~4 ft. bgs

No suspect odors detected

*SS - SPLIT-SPOON SAMPLE U - UNDISTURBED TUBE P - PISTON TUBE C - CORE

LCS Inc. SUBSURFACE LOG

PROJECT/ LOCATION: 177 & 255 Great Arrow Avenue, Buffalo, New York | PROJECT No. 04B1552.22

CLIENT: Nesper, Ferber & DiGiacomo, LLP | WELL/BORING No. BH15

DATE STARTED: 8/10/04 | DATE COMPLETED: 8/10/04 | RECORDED BY: JMR

GROUNDWATER DEPTH WHILE DRILLING: NA | AFTER COMPLETION: NA

WEATHER: ~75F, Sunny | DRILL RIG: Geoprobe | DRILLER: BMS Drilling

DRILL SIZE/TYPE: Macro-core | SAMPLE HAMMER: WEIGHT NA | FALL NA

Sample No.	PID/HNu Reading (ppm)	Depth (Feet)	Type *	Blows/6"	N	Recovery (Inches)	Material Classification and Description (Unified Soil Classification System-Visual Manual Method)
1	25.2	0-2	U	-	-	10	0-0.4ft: Concrete
2	13.0	2-4	U	-	-	10	0.4-1ft: Gray gravelly sand (coarse, medium, fine, medium dense, moist)
3	15.8	4-6	U	-	-	20	1-4ft: Brown sandy silty clay (no plasticity, very stiff, moist)
4	13.8	6-8	U	-	-	20	4-12ft: Brown silty clay (high plasticity, soft, moist)
5	10.5	8-10	U	-	-	24	
6	13.4	10-12	U	-	-	24	

NOTES NA = Not Applicable

ft. bgs = feet below ground surface

Fill to ~4 ft. bgs

No suspect odors detected

*SS - SPLIT-SPOON SAMPLE U - UNDISTURBED TUBE P - PISTON TUBE C - CORE

LCS Inc. SUBSURFACE LOG

PROJECT/ LOCATION: 177 & 255 Great Arrow Avenue, Buffalo, New York PROJECT No.: 04B1552.22

CLIENT: Nesper, Ferber & DiGiacomo, LLP WELL/BORING No.: BH16

DATE STARTED: 8/10/04 DATE COMPLETED: 8/10/04 RECORDED BY: JMR

GROUNDWATER DEPTH WHILE DRILLING: NA AFTER COMPLETION: NA

WEATHER: ~75F, Sunny DRILL RIG: Geoprobe DRILLER: BMS Drilling

DRILL SIZE/TYPE: Macro-core SAMPLE HAMMER: WEIGHT NA FALL NA

Sample No.	PID/HNu Reading (ppm)	Depth (Feet)	Type *	Blows/6"	N	Recovery (Inches)	Material Classification and Description (Unified Soil Classification System-Visual Manual Method)
1	14.7	0-2	U	-	-	20	0-0.4ft: Concrete
2	10.5	2-4	U	-	-	20	0-4-1ft: Gray sandy gravel (coarse, angular, loose, moist)
3	18.4	4-6	U	-	-	20	1-3ft: Black/brown sandy gravel (coarse, angular, loose, moist)
4	17.7	6-8	U	-	-	20	3-8ft: Brown clayey silt (low plasticity, moist)
5	11.7	8-10	U	-	-	24	8-12ft: Reddish brown clay (high plasticity, soft, moist)
6	10.1	10-12	U	-	-	24	

NOTES NA = Not Applicable

ft. bgs = feet below ground surface

Fill to ~3 ft. bgs

No suspect odors detected

*SS - SPLIT-SPOON SAMPLE U - UNDISTURBED TUBE P - PISTON TUBE C - CORE

LCS Inc. SUBSURFACE LOG

PROJECT/ LOCATION: 177 & 255 Great Arrow Avenue, Buffalo, New York PROJECT No. 04B1552.22

CLIENT: Nesper, Ferber & DiGiacomo, LLP WELL/BORING No. BH17

DATE STARTED: 8/10/04 DATE COMPLETED: 8/10/04 RECORDED BY: JMR

GROUNDWATER DEPTH WHILE DRILLING: NA AFTER COMPLETION: NA

WEATHER: ~75F, Sunny DRILL RIG: Geoprobe DRILLER: BMS Drilling

DRILL SIZE/TYPE: Macro-core SAMPLE HAMMER: WEIGHT NA FALL NA

Sample No.	PID/HNu Reading (ppm)	Depth (Feet)	Type*	Blows/6"	N	Recovery (Inches)	Material Classification and Description (Unified Soil Classification System-Visual Manual Method)
1	21.7	0-2	U	-	-	10	0-0.5ft: Brown silty sand (fine, medium dense, moist)
2	22.3	2-4	U	-	-	10	0.5-2ft: Brown gravelly sand (coarse, medium, fine, medium dense, moist)
3	20.3	4-6	U	-	-	20	2-3ft: Brown sandy gravel (coarse, angular, loose, moist)
4	373	6-8	U	-	-	20	3-6ft: Brown/gray silty gravelly sand (fine, medium dense, moist)
5	14.1	8-10	U	-	-	20	6-12ft: Brown silty clay (low plasticity, stiff, moist)
6	6.4	10-12	U	-	-	20	

NOTES NA = Not Applicable

ft. bgs = feet below ground surface

Fill to ~3 ft. bgs

Moderate petroleum-type odors detected @ ~5-8 ft. bgs

*SS - SPLIT-SPOON SAMPLE U - UNDISTURBED TUBE P - PISTON TUBE C - CORE

LCS Inc. SUBSURFACE LOG

PROJECT/ LOCATION: 177 & 255 Great Arrow Avenue, Buffalo, New York PROJECT No. 04B1552.22

CLIENT: Nesper, Ferber & DiGiacomo, LLP WELL/BORING No. BH18

DATE STARTED: 8/10/04 DATE COMPLETED: 8/10/04 RECORDED BY: JMR

GROUNDWATER DEPTH WHILE DRILLING: ~6 ft. bgs AFTER COMPLETION: NA

WEATHER: ~75F, Sunny DRILL RIG: Geoprobe DRILLER: BMS Drilling

DRILL SIZE/TYPE: Macro-core SAMPLE HAMMER: WEIGHT NA FALL NA

Sample No.	PID/HNu Reading (ppm)	Depth (Feet)	Type *	Blows/6"	N	Recovery (Inches)	Material Classification and Description (Unified Soil Classification System-Visual Manual Method)
1	11.2	0-2	U	-	-	12	0-1.5ft: Black/gray sandy gravel (coarse, angular, loose, moist)
2	13.5	2-4	U	-	-	12	1.5-3ft: Black sandy gravel (coarse, sub-angular, loose, moist)
3	12.2	4-6	U	-	-	20	3-8ft: Brown silty clay (moderate plasticity, stiff, moist)
4	18.2	6-8	U	-	-	20	8-12ft: Reddish brown clay (high plasticity, soft, moist)
5	13.3	8-10	U	-	-	20	
6	10.2	10-12	U	-	-	20	

NOTES NA = Not Applicable

ft. bgs = feet below ground surface

Fill to ~3 ft. bgs

No suspect odors detected

*SS - SPLIT-SPOON SAMPLE U - UNDISTURBED TUBE P - PISTON TUBE C - CORE

LCS Inc. SUBSURFACE LOG

PROJECT/ LOCATION: 177 & 255 Great Arrow Avenue, Buffalo, New York | PROJECT No. 04B1552.22

CLIENT: Nesper, Ferber & DiGiacomo, LLP | WELL/BORING No. BH19

DATE STARTED: 8/10/04 | DATE COMPLETED: 8/10/04 | RECORDED BY: JMR

GROUNDWATER DEPTH WHILE DRILLING: ~10 ft. bgs | AFTER COMPLETION: NA

WEATHER: ~75F, Sunny | DRILL RIG: Geoprobe | DRILLER: BMS Drilling

DRILL SIZE/TYPE: Macro-core | SAMPLE HAMMER: WEIGHT NA | FALL NA

Sample No.	PID/HNu Reading (ppm)	Depth (Feet)	Type *	Blows/6"	N	Recovery (Inches)	Material Classification and Description (Unified Soil Classification System-Visual Manual Method)
1	-	0-4	U	-	-	-	0-4ft: No Recovery
2	9.2	4-6	U	-	-	24	4-6ft: Black/brown sandy gravel (coarse, angular, loose, moist)
3	13.4	6-8	U	-	-	24	6-9ft: Brown silty sand (fine, medium dense, moist)
4	27.0	8-10	U	-	-	24	9-11ft: Light brown sandy silt (low plasticity, moist to wet)
5	12.0	10-12	U	-	-	24	11-12ft: Reddish brown clay (high plasticity, soft, wet)

NOTES NA = Not Applicable

ft. bgs = feet below ground surface

Fill to ~3 ft. bgs

Moderate petroleum-type odors detected @ ~5-8 ft. bgs

*SS - SPLIT-SPOON SAMPLE U - UNDISTURBED TUBE P - PISTON TUBE C - CORE

LCS Inc. SUBSURFACE LOG

PROJECT/ LOCATION: 177 & 255 Great Arrow Avenue, Buffalo, New York | PROJECT No. 04B1552.22

CLIENT: Nesper, Ferber & DiGiacomo, LLP | WELL/BORING No. BH20

DATE STARTED: 8/10/04 | DATE COMPLETED: 8/10/04 | RECORDED BY: JMR

GROUNDWATER DEPTH WHILE DRILLING: ~8 ft. bgs | AFTER COMPLETION: NA

WEATHER: ~75F, Sunny | DRILL RIG: Geoprobe | DRILLER: BMS Drilling

DRILL SIZE/TYPE: Macro-core | SAMPLE HAMMER: WEIGHT NA | FALL NA

Sample No.	PID/HNu Reading (ppm)	Depth (Feet)	Type *	Blows/6"	N	Recovery (Inches)	Material Classification and Description (Unified Soil Classification System-Visual Manual Method)
1	10.8	0-2	U	-	-	20	0-0.3ft: Asphalt
2	10.3	2-4	U	-	-	20	0.3-1ft: Gray sandy gravel (coarse, angular, loose, moist)
3	6.8	4-6	U	-	-	20	1-1.5ft: Black sandy gravel (coarse, sub-angular, loose, moist)
4	4.0	6-8	U	-	-	20	1.5-3ft: Brown silty gravelly sand (coarse, medium, fine, medium dense, moist) 3-6ft: Brown clayey silt (no plasticity, moist) 6-12ft: Reddish brown clay (high plasticity, soft, moist to wet)

NOTES NA = Not Applicable

ft. bgs = feet below ground surface

Fill to ~3 ft. bgs

No suspect odors detected

*SS - SPLIT-SPOON SAMPLE U - UNDISTURBED TUBE P - PISTON TUBE C - CORE

LCS Inc. SUBSURFACE LOG

PROJECT/ LOCATION: 177 & 255 Great Arrow Avenue, Buffalo, New York PROJECT No. 04B1552.22

CLIENT: Nesper, Ferber & DiGiacomo, LLP WELL/BORING No. BH21

DATE STARTED: 8/11/04 DATE COMPLETED: 8/11/04 RECORDED BY: JMR

GROUNDWATER DEPTH WHILE DRILLING: ~8 ft. bgs AFTER COMPLETION: NA

WEATHER: ~75F, Sunny DRILL RIG: Geoprobe DRILLER: BMS Drilling

DRILL SIZE/TYPE: Macro-core SAMPLE HAMMER: WEIGHT NA FALL NA

Sample No.	PID/HNu Reading (ppm)	Depth (Feet)	Type*	Blows/6"	N	Recovery (Inches)	Material Classification and Description (Unified Soil Classification System-Visual Manual Method)
1	5.2	0-2	U	-	-	20	0-0.3ft: Asphalt
2	6.1	2-4	U	-	-	20	0.3-1ft: Brown sandy gravel (coarse, angular, loose, moist) (wood chips)
3	6.4	4-6	U	-	-	22	1-5ft: Gray/Black sandy clayey silt (low plasticity, moist)
4	2.1	6-8	U	-	-	22	5-8ft: Brown silty clay (low plasticity, soft, moist to wet)

NOTES NA = Not Applicable

ft. bgs = feet below ground surface

Fill to ~1 ft. bgs

No suspect odors detected

*SS - SPLIT-SPOON SAMPLE U - UNDISTURBED TUBE P - PISTON TUBE C - CORE

LCS Inc. SUBSURFACE LOG

PROJECT/ LOCATION: 177 & 255 Great Arrow Avenue, Buffalo, New York PROJECT No. 04B1552.22

CLIENT: Nesper, Ferber & DiGiacomo, LLP WELL/BORING No. BH22

DATE STARTED: 8/11/04 DATE COMPLETED: 8/11/04 RECORDED BY: JMR

GROUNDWATER DEPTH WHILE DRILLING: NA AFTER COMPLETION: NA

WEATHER: ~75F, Sunny DRILL RIG: Geoprobe DRILLER: BMS Drilling

DRILL SIZE/TYPE: Macro-core SAMPLE HAMMER: WEIGHT NA FALL NA

Sample No.	PID/HNu Reading (ppm)	Depth (Feet)	Type *	Blows/6"	N	Recovery (Inches)	Material Classification and Description (Unified Soil Classification System-Visual Manual Method)
1	4.5	0-2	U	-	-	12	0-0.3ft: Asphalt
2	4.7	2-4	U	-	-	12	0.3-1ft: Brown sandy gravel (coarse, angular, loose, moist)
3	6.4	4-6	U	-	-	24	1-5.5ft: Gray/Black sandy clayey silt (low plasticity, moist)
4	6.5	6-8	U	-	-	24	5.5-6.5ft: Brown sandy gravel (coarse, angular, medium dense, moist)
							6.5-8ft: Brown silty clay (low plasticity, stiff, moist)

NOTES NA = Not Applicable

ft. bgs = feet below ground surface

Fill to ~6.5 ft. bgs

No suspect odors detected

*SS - SPLIT-SPOON SAMPLE U - UNDISTURBED TUBE P - PISTON TUBE C - CORE

LCS Inc. SUBSURFACE LOG

PROJECT/ LOCATION: 177 & 255 Great Arrow Avenue, Buffalo, New York | PROJECT No. 04B1552.22

CLIENT: Nesper, Ferber & DiGiacomo, LLP | WELL/BORING No. BH23

DATE STARTED: 8/11/04 | DATE COMPLETED: 8/11/04 | RECORDED BY: JMR

GROUNDWATER DEPTH WHILE DRILLING: NA | AFTER COMPLETION: NA

WEATHER: ~75F, Sunny | DRILL RIG: Geoprobe | DRILLER: BMS Drilling

DRILL SIZE/TYPE: Macro-core | SAMPLE HAMMER: WEIGHT NA | FALL NA

Sample No.	PID/HNu Reading (ppm)	Depth (Feet)	Type *	Blows/6"	N	Recovery (Inches)	Material Classification and Description (Unified Soil Classification System-Visual Manual Method)
1	14.6	0-2	U	-	-	20	0-0.3ft: Asphalt
2	7.2	2-4	U	-	-	20	0.3-1ft: Brown sandy gravel (coarse, angular, loose, moist)
3	8.4	4-6	U	-	-	24	1-5.5ft: Gray/Black sandy clayey silt (low plasticity, moist)
4	7.2	6-8	U	-	-	24	5.5-6.5ft: Brown sandy gravel (coarse, angular, medium dense, moist) 6.5-8ft: Brown silty clay (low plasticity, stiff, moist)

NOTES NA = Not Applicable

ft. bgs = feet below ground surface

Fill to ~6.5 ft. bgs

No suspect odors detected

*SS - SPLIT-SPOON SAMPLE U - UNDISTURBED TUBE P - PISTON TUBE C - CORE

LCS Inc. SUBSURFACE LOG

PROJECT/ LOCATION: 177 & 255 Great Arrow Avenue, Buffalo, New York | PROJECT No.: 04B1552.22

CLIENT: Nesper, Ferber & DiGiacomo, LLP | WELL/BORING No.: BH24

DATE STARTED: 8/11/04 | DATE COMPLETED: 8/11/04 | RECORDED BY: JMR

GROUNDWATER DEPTH WHILE DRILLING: NA | AFTER COMPLETION: NA

WEATHER: ~75F, Sunny | DRILL RIG: Geoprobe | DRILLER: BMS Drilling

DRILL SIZE/TYPE: Macro-core | SAMPLE HAMMER: WEIGHT NA | FALL NA

Sample No.	PID/HNu Reading (ppm)	Depth (Feet)	Type *	Blows/6"	N	Recovery (Inches)	Material Classification and Description (Unified Soil Classification System-Visual Manual Method)
1	5.7	0-2	U	-	-	20	0-0.3ft: Asphalt
2	4.3	2-4	U	-	-	20	0.3-1ft: Brown sandy gravel (coarse, angular, loose, moist) (wood chips)
3	4.8	4-6	U	-	-	24	1-5ft: Gray/Black sandy clayey silt (low plasticity, moist)
4	4.1	6-8	U	-	-	24	5-8ft: Brown silty clay (low plasticity, soft, moist)

NOTES NA = Not Applicable

ft. bgs = feet below ground surface

Fill to ~5 ft. bgs

No suspect odors detected

*SS - SPLIT-SPOON SAMPLE U - UNDISTURBED TUBE P - PISTON TUBE C - CORE

LCS Inc. SUBSURFACE LOG

PROJECT/ LOCATION: 177 & 255 Great Arrow Avenue, Buffalo, New York PROJECT No. 04B1552.22

CLIENT: Nesper, Ferber & DiGiacomo, LLP WELL/BORING No. BH25

DATE STARTED: 8/11/04 DATE COMPLETED: 8/11/04 RECORDED BY: JMR

GROUNDWATER DEPTH WHILE DRILLING: NA AFTER COMPLETION: NA

WEATHER: ~75F, Sunny DRILL RIG: Geoprobe DRILLER: BMS Drilling

DRILL SIZE/TYPE: Macro-core SAMPLE HAMMER: WEIGHT NA FALL NA

Sample No.	PID/HNu Reading (ppm)	Depth (Feet)	Type *	Blows/6"	N	Recovery (Inches)	Material Classification and Description (Unified Soil Classification System-Visual Manual Method)
1	7.6	0-2	U	-	-	20	0-0.3ft: Asphalt
2	7.6	2-4	U	-	-	20	0.3-2ft: Black gravelly sand (coarse, medium, fine, medium dense, moist)
3	2.5	4-6	U	-	-	24	2-4ft: Gray sandy clayey silt (low plasticity, moist)
4	3.2	6-8	U	-	-	24	4-8ft: Reddish brown clay (no plasticity, very stiff, moist)

NOTES NA = Not Applicable

ft. bgs = feet below ground surface

Fill to ~4 ft. bgs

No suspect odors detected

*SS - SPLIT-SPOON SAMPLE U - UNDISTURBED TUBE P - PISTON TUBE C - CORE

LCS Inc. SUBSURFACE LOG

PROJECT/ LOCATION: 177 & 255 Great Arrow Avenue, Buffalo, New York PROJECT No. 04B1552.22

CLIENT: Nesper, Ferber & DiGiacomo, LLP WELL/BORING No. BH26

DATE STARTED: 8/11/04 DATE COMPLETED: 8/11/04 RECORDED BY: JMR

GROUNDWATER DEPTH WHILE DRILLING: NA AFTER COMPLETION: NA

WEATHER: ~75F, Sunny DRILL RIG: Geoprobe DRILLER: BMS Drilling

DRILL SIZE/TYPE: Macro-core SAMPLE HAMMER: WEIGHT NA FALL NA

Sample No.	PID/HNu Reading (ppm)	Depth (Feet)	Type *	Blows/6"	N	Recovery (inches)	Material Classification and Description (Unified Soil Classification System-Visual Manual Method)
1	3.0	0-2	U	-	-	10	0-0.3ft: Asphalt
2	2.5	2-4	U	-	-	10	0.3-2ft: Black gravelly sand (coarse, medium, fine, medium dense, moist)
3	3.3	4-6	U	-	-	20	2-4ft: Gray sandy clayey silt (low plasticity, moist)
4	2.2	6-8	U	-	-	20	4-8ft: Reddish brown clay (no plasticity, stiff, moist)

NOTES NA = Not Applicable

ft. bgs = feet below ground surface

Fill to ~4 ft. bgs

No suspect odors detected

*SS - SPLIT-SPOON SAMPLE U - UNDISTURBED TUBE P - PISTON TUBE C - CORE

LCS Inc. SUBSURFACE LOG

PROJECT/ LOCATION: 177 & 255 Great Arrow Avenue, Buffalo, New York | PROJECT No. 04B1552.22

CLIENT: Nesper, Ferber & DiGiacomo, LLP | WELL/BORING No. BH27

DATE STARTED: 8/11/04 | DATE COMPLETED: 8/11/04 | RECORDED BY: JMR

GROUNDWATER DEPTH WHILE DRILLING: NA | AFTER COMPLETION: NA

WEATHER: ~75F, Sunny | DRILL RIG: Geoprobe | DRILLER: BMS Drilling

DRILL SIZE/TYPE: Macro-core | SAMPLE HAMMER: WEIGHT NA | FALL NA

Sample No.	PID/HNu Reading (ppm)	Depth (Feet)	Type *	Blows/6"	N	Recovery (Inches)	Material Classification and Description (Unified Soil Classification System-Visual Manual Method)
1	6.4	0-2	U	-	-	10	0-0.3ft: Asphalt
2	6.2	2-4	U	-	-	10	0.3-2ft: Black gravelly sand (coarse, medium, fine, medium dense, moist)
3	4.0	4-6	U	-	-	20	2-4ft: Gray sandy clayey silt (low plasticity, moist)
4	5.1	6-8	U	-	-	20	4-8ft: Reddish brown clay (no plasticity, stiff, moist)

NOTES NA = Not Applicable

ft. bgs = feet below ground surface

Fill to ~4 ft. bgs

No suspect odors detected

*SS - SPLIT-SPOON SAMPLE U - UNDISTURBED TUBE P - PISTON TUBE C - CORE

LCS Inc. SUBSURFACE LOG

PROJECT/ LOCATION:	177 & 255 Great Arrow Avenue, Buffalo, New York	PROJECT No.	04B1552.22
CLIENT:	Nesper, Ferber & DiGiacomo, LLP	WELL/BORING No.	BH28
DATE STARTED:	8/11/04	DATE COMPLETED:	8/11/04
RECORDED BY:	JMR		
GROUNDWATER DEPTH WHILE DRILLING:	NA	AFTER COMPLETION:	NA
WEATHER:	~75F, Sunny	DRILL RIG:	Geoprobe
DRILLER:	BMS Drilling		
DRILL SIZE/TYPE:	Macro-core	SAMPLE HAMMER: WEIGHT	NA
FALL	NA		

Sample No.	PID/HNu Reading (ppm)	Depth (Feet)	Type *	Blows/6"	N	Recovery (Inches)	Material Classification and Description (Unified Soil Classification System-Visual Manual Method)
1	26.4	0-2	U	-	-	22	0-1.5ft: Brown gravelly sand (coarse, loose, moist)
2	6.2	2-4	U	-	-	22	1.5-4.5ft: Gray/black clayey silt (low plasticity, moist)
3	5.2	4-6	U	-	-	24	4.5-8ft: Reddish brown clay (low plasticity, stiff, moist)
4	5.5	6-8	U	-	-	24	

NOTES NA = Not Applicable

ft. bgs = feet below ground surface

Fill to ~4.5 ft. bgs

No suspect odors detected

*SS - SPLIT-SPOON SAMPLE U - UNDISTURBED TUBE P - PISTON TUBE C - CORE

LCS Inc. SUBSURFACE LOG

PROJECT/ LOCATION: 177 & 255 Great Arrow Avenue, Buffalo, New York | PROJECT No. 04B1552.22

CLIENT: Nesper, Ferber & DiGiacomo, LLP | WELL/BORING No. BH29

DATE STARTED: 8/11/04 | DATE COMPLETED: 8/11/04 | RECORDED BY: JMR

GROUNDWATER DEPTH WHILE DRILLING: NA | AFTER COMPLETION: NA

WEATHER: ~75F, Sunny | DRILL RIG: Geoprobe | DRILLER: BMS Drilling

DRILL SIZE/TYPE: Macro-core | SAMPLE HAMMER: WEIGHT NA | FALL NA

Sample No.	PID/HNu Reading (ppm)	Depth (Feet)	Type *	Blows/6"	N	Recovery (Inches)	Material Classification and Description (Unified Soil Classification System-Visual Manual Method)
1	8.0	0-2	U	-	-	20	0-2ft: Brown gravelly sand (coarse, medium dense, moist)
2	4.7	2-4	U	-	-	20	2-4ft: Gray/black sandy silt (low plasticity, moist)
3	4.0	4-6	U	-	-	24	4-6ft: Gray/black sandy silty clay (high plasticity, soft, moist)
4	4.5	6-8	U	-	-	24	6-8ft: Reddish brown clay (low plasticity, stiff, moist)

NOTES NA = Not Applicable

ft. bgs = feet below ground surface

Fill to ~4 ft. bgs

No suspect odors detected

*SS - SPLIT-SPOON SAMPLE U - UNDISTURBED TUBE P - PISTON TUBE C - CORE

LCS Inc. SUBSURFACE LOG

PROJECT/ LOCATION: 177 & 255 Great Arrow Avenue, Buffalo, New York | PROJECT No. 04B1552.22

CLIENT: Nesper, Ferber & DiGiacomo, LLP | WELL/BORING No. BH30

DATE STARTED: 8/11/04 | DATE COMPLETED: 8/11/04 | RECORDED BY: JMR

GROUNDWATER DEPTH WHILE DRILLING: NA | AFTER COMPLETION: NA

WEATHER: ~75F, Sunny | DRILL RIG: Geoprobe | DRILLER: BMS Drilling

DRILL SIZE/TYPE: Macro-core | SAMPLE HAMMER: WEIGHT NA | FALL NA

Sample No.	PID/HNu Reading (ppm)	Depth (Feet)	Type *	Blows/6"	N	Recovery (Inches)	Material Classification and Description (Unified Soil Classification System-Visual Manual Method)
1	4.1	0-4	U	-	-	10	0-1.5ft: Brown gravelly sand (coarse, medium, fine, loose, moist)
2	5.9	4-6	U	-	-	20	1.5-3ft: Brown/gray silty sand (fine, medium dense, moist)
3	4.3	6-8	U	-	-	20	3-5ft: Gray/black sandy silt (low plasticity, moist)
							5-8ft: Reddish brown silty clay (low plasticity, stiff, moist)

NOTES NA = Not Applicable

ft. bgs = feet below ground surface

Fill to ~5 ft. bgs

No suspect odors detected

*SS - SPLIT-SPOON SAMPLE U - UNDISTURBED TUBE P - PISTON TUBE C - CORE

LCS Inc. SUBSURFACE LOG

PROJECT/ LOCATION: 177 & 255 Great Arrow Avenue, Buffalo, New York PROJECT No. 04B1552.22

CLIENT: Nesper, Ferber & DiGiacomo, LLP WELL/BORING No. BH31

DATE STARTED: 8/11/04 DATE COMPLETED: 8/11/04 RECORDED BY: JMR

GROUNDWATER DEPTH WHILE DRILLING: NA AFTER COMPLETION: NA

WEATHER: ~75F, Sunny DRILL RIG: Geoprobe DRILLER: BMS Drilling

DRILL SIZE/TYPE: Macro-core SAMPLE HAMMER: WEIGHT NA FALL NA

Sample No.	PID/HNu Reading (ppm)	Depth (Feet)	Type *	Blows/6"	N	Recovery (Inches)	Material Classification and Description (Unified Soil Classification System-Visual Manual Method)
1	6.2	0-2	U	-	-	12	0-1.5ft: Brown gravelly sand (coarse, medium, fine, loose, moist)
2	6.6	2-4	U	-	-	12	1.5-3ft: Brown/gray silty sand (fine, medium dense, moist)
3	5.5	4-6	U	-	-	24	3-5ft: Gray/black sandy silt (low plasticity, moist)
4	7.2	6-8	U	-	-	24	5-8ft: Reddish brown silty clay (low plasticity, stiff, moist)

NOTES NA = Not Applicable

ft. bgs = feet below ground surface

Fill to ~3 ft. bgs

No suspect odors detected

*SS - SPLIT-SPOON SAMPLE U - UNDISTURBED TUBE P - PISTON TUBE C - CORE

LCS Inc. SUBSURFACE LOG

PROJECT/ LOCATION: 177 & 255 Great Arrow Avenue, Buffalo, New York PROJECT No. 04B1552.22

CLIENT: Nesper, Ferber & DiGiacomo, LLP WELL/BORING No. BH32

DATE STARTED: 8/11/04 DATE COMPLETED: 8/11/04 RECORDED BY: JMR

GROUNDWATER DEPTH WHILE DRILLING: NA AFTER COMPLETION: NA

WEATHER: ~75F, Sunny DRILL RIG: Geoprobe DRILLER: BMS Drilling

DRILL SIZE/TYPE: Macro-core SAMPLE HAMMER: WEIGHT NA FALL NA

Sample No.	PID/HNu Reading (ppm)	Depth (Feet)	Type *	Blows/6"	N	Recovery (Inches)	Material Classification and Description (Unified Soil Classification System-Visual Manual Method)
1	6.0	0-2	U	-	-	12	0-1.5ft: Brown/light brown gravelly sand (coarse, medium, fine, medium dense, moist)
2	6.8	2-4	U	-	-	12	1.5-4.5ft: Gray sandy silty clay (high plasticity, very soft, moist)
3	4.0	4-6	U	-	-	22	4.5-5.5ft: Light brown/brown sandy clayey silt (no plasticity, moist)
4	3.0	6-8	U	-	-	22	5.5-8ft: Reddish brown clay (low plasticity, very stiff, moist)

NOTES NA = Not Applicable

ft. bgs = feet below ground surface

Fill to ~4.5 ft. bgs

No suspect odors detected

*SS - SPLIT-SPOON SAMPLE U - UNDISTURBED TUBE P - PISTON TUBE C - CORE

LCS Inc. SUBSURFACE LOG

PROJECT/ LOCATION: 177 & 255 Great Arrow Avenue, Buffalo, New York | PROJECT No. 04B1552.22

CLIENT: Nesper, Ferber & DiGiacomo, LLP | WELL/BORING No. BH33

DATE STARTED: 8/11/04 | DATE COMPLETED: 8/11/04 | RECORDED BY: JMR

GROUNDWATER DEPTH WHILE DRILLING: NA | AFTER COMPLETION: NA

WEATHER: ~75F, Sunny | DRILL RIG: Geoprobe | DRILLER: BMS Drilling

DRILL SIZE/TYPE: Macro-core | SAMPLE HAMMER: WEIGHT NA | FALL NA

Sample No.	PID/HNu Reading (ppm)	Depth (Feet)	Type *	Blows/6"	N	Recovery (Inches)	Material Classification and Description (Unified Soil Classification System-Visual Manual Method)
1	9.6	0-2	U	-	-	10	0-2ft: Gravelly sand (coarse, loose, moist)
2	5.9	2-4	U	-	-	10	2-4ft: Light brown sandy silt (low plasticity, moist)
3	8.3	4-6	U	-	-	22	4-5ft: Light brown sandy silt (no plasticity, moist)
4	5.3	6-8	U	-	-	22	5-8ft: Reddish brown clay (no plasticity, very stiff, moist)

NOTES NA = Not Applicable

ft. bgs = feet below ground surface

Fill to ~4 ft. bgs

No suspect odors detected

*SS - SPLIT-SPOON SAMPLE U - UNDISTURBED TUBE P - PISTON TUBE C - CORE

LCS Inc. SUBSURFACE LOG

PROJECT/ LOCATION: 177 & 255 Great Arrow Avenue, Buffalo, New York | PROJECT No. 04B1552.22

CLIENT: Nesper, Ferber & DiGiacomo, LLP | WELL/BORING No. BH34

DATE STARTED: 8/11/04 | DATE COMPLETED: 8/11/04 | RECORDED BY: JMR

GROUNDWATER DEPTH WHILE DRILLING: NA | AFTER COMPLETION: NA

WEATHER: ~75F, Sunny | DRILL RIG: Geoprobe | DRILLER: BMS Drilling

DRILL SIZE/TYPE: Macro-core | SAMPLE HAMMER: WEIGHT NA | FALL NA

Sample No.	PID/HNu Reading (ppm)	Depth (Feet)	Type *	Blows/6"	N	Recovery (Inches)	Material Classification and Description (Unified Soil Classification System-Visual Manual Method)
1	5.0	0-2	U	-	-	15	0-2ft: Gravelly sand (coarse, loose, moist)
2	7.5	2-4	U	-	-	15	2-4ft: Light brown sandy silt (low plasticity, moist)
3	3.5	4-6	U	-	-	24	4-5ft: Light brown sandy silt (no plasticity, moist)
4	5.8	6-8	U	-	-	24	5-8ft: Reddish brown clay (no plasticity, very stiff, moist)

NOTES NA = Not Applicable

ft. bgs = feet below ground surface

Fill to ~4 ft. bgs

No suspect odors detected

*SS - SPLIT-SPOON SAMPLE U - UNDISTURBED TUBE P - PISTON TUBE C - CORE

LCS Inc. SUBSURFACE LOG

PROJECT/ LOCATION: 177 & 255 Great Arrow Avenue, Buffalo, New York PROJECT No. 04B1552.22

CLIENT: Nesper, Ferber & DiGiacomo, LLP WELL/BORING No. BH35

DATE STARTED: 8/11/04 DATE COMPLETED: 8/11/04 RECORDED BY: JMR

GROUNDWATER DEPTH WHILE DRILLING: NA AFTER COMPLETION: NA

WEATHER: ~75F, Sunny DRILL RIG: Geoprobe DRILLER: BMS Drilling

DRILL SIZE/TYPE: Macro-core SAMPLE HAMMER: WEIGHT NA FALL NA

Sample No.	PID/HNu Reading (ppm)	Depth (Feet)	Type *	Blows/6"	N	Recovery (Inches)	Material Classification and Description (Unified Soil Classification System-Visual Manual Method)
1	7.6	0-2	U	-	-	10	0-2ft. Light brown sandy gravel (coarse, angular, loose, moist)
2	8.5	2-4	U	-	-	10	2-2.5ft: Brown gravelly sand (coarse, medium, fine, dense, moist) 2.5-4ft: Gray clayey silt (low plasticity, moist) Refusal @ ~4 ft. bgs

NOTES NA = Not Applicable

ft. bgs = feet below ground surface

Fill to ~4 ft. bgs

No suspect odors detected

*SS - SPLIT-SPOON SAMPLE U - UNDISTURBED TUBE P - PISTON TUBE C - CORE

LCS Inc. SUBSURFACE LOG

PROJECT/ LOCATION: 177 & 255 Great Arrow Avenue, Buffalo, New York | PROJECT No. 04B1552.22

CLIENT: Nesper, Ferber & DiGiacomo, LLP | WELL/BORING No. BH36

DATE STARTED: 8/12/04 | DATE COMPLETED: 8/12/04 | RECORDED BY: JMR

GROUNDWATER DEPTH WHILE DRILLING: ~4 ft. bgs | AFTER COMPLETION: NA

WEATHER: ~75F, Sunny | DRILL RIG: Geoprobe | DRILLER: BMS Drilling

DRILL SIZE/TYPE: Macro-core | SAMPLE HAMMER: WEIGHT NA | FALL NA

Sample No.	PID/HNu Reading (ppm)	Depth (Feet)	Type *	Blows/6"	N	Recovery (Inches)	Material Classification and Description (Unified Soil Classification System-Visual Manual Method)
1	1.3	0-2	U	-	-	10	0-1ft: Brown silty sand (medium, fine, loose, moist)
2	2.5	2-4	U	-	-	10	1-2ft: Black sandy gravel (coarse, fine, sub-angular, loose, moist)
3	3.5	4-8	U	-	-	10	2-4ft: Brown/black gravelly sand (coarse, medium, fine, dense, moist) 4-8ft: Black/gray gravelly sand (fine, medium dense, wet) Refusal @ ~8 ft. bgs

NOTES NA = Not Applicable

ft. bgs = feet below ground surface

Fill to ~4 ft. bgs

No suspect odors detected

*SS - SPLIT-SPOON SAMPLE U - UNDISTURBED TUBE P - PISTON TUBE C - CORE

LCS Inc. SUBSURFACE LOG

PROJECT/ LOCATION: 177 & 255 Great Arrow Avenue, Buffalo, New York PROJECT No. 04B1552.22

CLIENT: Nesper, Ferber & DiGiacomo, LLP WELL/BORING No. BH37

DATE STARTED: 8/12/04 DATE COMPLETED: 8/12/04 RECORDED BY: JMR

GROUNDWATER DEPTH WHILE DRILLING: NA AFTER COMPLETION: NA

WEATHER: ~75F, Sunny DRILL RIG: Geoprobe DRILLER: BMS Drilling

DRILL SIZE/TYPE: Macro-core SAMPLE HAMMER: WEIGHT NA FALL NA

Sample No.	PID/HNu Reading (ppm)	Depth (Feet)	Type *	Blows/6"	N	Recovery (Inches)	Material Classification and Description (Unified Soil Classification System-Visual Manual Method)
1	4.4	0-2	U	-	-	10	0-1.5ft: Black sandy gravel (coarse, fine, angular, loose, moist)
2	5.3	2-4	U	-	-	10	1.5-4ft: Brown/black sandy gravel (coarse, fine, angular, loose, moist)
3	9.9	4-6	U	-	-	20	4-7ft: Gray clayey silt (low plasticity, moist)
4	2.9	6-8	U	-	-	20	7-8ft: Reddish brown clay (low plasticity, stiff, moist)

NOTES NA = Not Applicable

ft. bgs = feet below ground surface

Fill to ~4 ft. bgs

No suspect odors detected

*SS - SPLIT-SPOON SAMPLE U - UNDISTURBED TUBE P - PISTON TUBE C - CORE

LCS Inc. SUBSURFACE LOG

PROJECT/ LOCATION: 177 & 255 Great Arrow Avenue, Buffalo, New York PROJECT No. 04B1552.22

CLIENT: Nesper, Ferber & DiGiacomo, LLP WELL/BORING No. BH38

DATE STARTED: 8/12/04 DATE COMPLETED: 8/12/04 RECORDED BY: JMR

GROUNDWATER DEPTH WHILE DRILLING: ~6 ft. bgs AFTER COMPLETION: NA

WEATHER: ~75F, Sunny DRILL RIG: Geoprobe DRILLER: BMS Drilling

DRILL SIZE/TYPE: Macro-core SAMPLE HAMMER: WEIGHT NA FALL NA

Sample No.	PID/HNu Reading (ppm)	Depth (Feet)	Type *	Blows/6"	N	Recovery (Inches)	Material Classification and Description (Unified Soil Classification System-Visual Manual Method)
1	1.5	0-2	U	-	-	10	0-1.5ft: Black gravelly sand (coarse, loose, moist)
2	7.8	2-4	U	-	-	10	1.5-4.5ft: Brown/black sandy gravel (coarse, fine, angular, loose, moist)
3	10.7	4-6	U	-	-	20	4.5-6ft: Gray sandy silt (low plasticity, moist to wet)
4	2.3	6-8	U	-	-	20	6-8ft: Reddish brown clay (no plasticity, very stiff, moist)

NOTES NA = Not Applicable

ft. bgs = feet below ground surface

Fill to ~4.5 ft. bgs

No suspect odors detected

*SS - SPLIT-SPOON SAMPLE U - UNDISTURBED TUBE P - PISTON TUBE C - CORE

LCS Inc. SUBSURFACE LOG

PROJECT/ LOCATION: 177 & 255 Great Arrow Avenue, Buffalo, New York | PROJECT No. 04B1552.22

CLIENT: Nesper, Ferber & DiGiacomo, LLP | WELL/BORING No. BH39

DATE STARTED: 8/12/04 | DATE COMPLETED: 8/12/04 | RECORDED BY: JMR

GROUNDWATER DEPTH WHILE DRILLING: NA | AFTER COMPLETION: NA

WEATHER: ~75F, Sunny | DRILL RIG: Geoprobe | DRILLER: BMS Drilling

DRILL SIZE/TYPE: Macro-core | SAMPLE HAMMER: WEIGHT NA | FALL NA

Sample No.	PID/HNu Reading (ppm)	Depth (Feet)	Type *	Blows/6"	N	Recovery (Inches)	Material Classification and Description (Unified Soil Classification System-Visual Manual Method)
1	5.1	0-24	U	-	-	10	0-0.4ft: Asphalt
2	4.0	4-6	U	-	-	20	0.4-2ft: Black sandy gravel (coarse, angular, loose, moist0
3	2.8	6-8	U	-	-	20	2-6ft: Reddish brown clay (no plasticity, stiff, moist)
							6-7.5ft: Gray clayey silt (low plasticity, moist)
							7.5-8ft: Reddish brown clay (no plasticity, stiff, moist)

NOTES NA = Not Applicable

ft. bgs = feet below ground surface

Fill to ~2 ft. bgs

No suspect odors detected

*SS - SPLIT-SPOON SAMPLE U - UNDISTURBED TUBE P - PISTON TUBE C - CORE

LCS Inc. SUBSURFACE LOG

PROJECT/ LOCATION: 177 & 255 Great Arrow Avenue, Buffalo, New York | PROJECT No. 04B1552.22

CLIENT: Nesper, Ferber & DiGiacomo, LLP | WELL/BORING No. BH40

DATE STARTED: 8/12/04 | DATE COMPLETED: 8/12/04 | RECORDED BY: JMR

GROUNDWATER DEPTH WHILE DRILLING: NA | AFTER COMPLETION: NA

WEATHER: ~75F, Sunny | DRILL RIG: Geoprobe | DRILLER: BMS Drilling

DRILL SIZE/TYPE: Macro-core | SAMPLE HAMMER: WEIGHT NA | FALL NA

Sample No.	PID/HNu Reading (ppm)	Depth (Feet)	Type *	Blows/6"	N	Recovery (Inches)	Material Classification and Description (Unified Soil Classification System-Visual Manual Method)
1	10.5	0-2	U	-	-	15	0-0.4ft: Asphalt
2	10.8	2-4	U	-	-	15	0.4-2ft: Black sandy gravel (coarse, angular, loose, moist)
3	7.9	4-6	U	-	-	20	2-6ft: Reddish brown clay (no plasticity, stiff, moist)
4	3.3	6-8	U	-	-	20	6-7.5ft: Gray clayey silt (low plasticity, moist)
							7.5-8ft: Reddish brown clay (no plasticity, stiff, moist)

NOTES NA = Not Applicable

ft. bgs = feet below ground surface

Fill to ~2 ft. bgs

No suspect odors detected

*SS - SPLIT-SPOON SAMPLE U - UNDISTURBED TUBE P - PISTON TUBE C - CORE

LCS Inc. SUBSURFACE LOG

PROJECT/ LOCATION:	177 & 255 Great Arrow Avenue, Buffalo, New York	PROJECT No.	04B1552.22
CLIENT:	Nesper, Ferber & DiGiacomo, LLP	WELL/BORING No.	BH41
DATE STARTED:	8/12/04	DATE COMPLETED:	8/12/04
RECORDED BY:	JMR		
GROUNDWATER DEPTH WHILE DRILLING:	~5 ft. bgs	AFTER COMPLETION:	NA
WEATHER:	~75F, Sunny	DRILL RIG:	Geoprobe
DRILLER:	BMS Drilling		
DRILL SIZE/TYPE:	Macro-core	SAMPLE HAMMER: WEIGHT	NA
FALL	NA		

Sample No.	PID/HNu Reading (ppm)	Depth (Feet)	Type *	Blows/6"	N	Recovery (Inches)	Material Classification and Description (Unified Soil Classification System-Visual Manual Method)
1	3.9	0-4	U	-	-	10	0-0.4ft: Asphalt
2	12.5	4-6	U	-	-	20	0.4-2ft: Black/brown sandy gravel (coarse, angular, loose, moist)
3	11.3	6-8	U	-	-	20	2-6ft: Gray sandy clayey silt (low plasticity, moist to wet)
							6-8ft: Reddish brown clay (low plasticity, stiff, moist)

NOTES NA = Not Applicable

ft. bgs = feet below ground surface

Fill to ~2 ft. bgs

No suspect odors detected

*SS - SPLIT-SPOON SAMPLE U - UNDISTURBED TUBE P - PISTON TUBE C - CORE

LCS Inc. SUBSURFACE LOG

PROJECT/ LOCATION: 177 & 255 Great Arrow Avenue, Buffalo, New York | PROJECT No. 04B1552.22

CLIENT: Nesper, Ferber & DiGiacomo, LLP | WELL/BORING No. BH42

DATE STARTED: 8/12/04 | DATE COMPLETED: 8/12/04 | RECORDED BY: JMR

GROUNDWATER DEPTH WHILE DRILLING: ~5 ft. bgs | AFTER COMPLETION: NA

WEATHER: ~75F, Sunny | DRILL RIG: Geoprobe | DRILLER: BMS Drilling

DRILL SIZE/TYPE: Macro-core | SAMPLE HAMMER: WEIGHT NA | FALL NA

Sample No.	PID/HNu Reading (ppm)	Depth (Feet)	Type *	Blows/6"	N	Recovery (Inches)	Material Classification and Description (Unified Soil Classification System-Visual Manual Method)
1	1.3	0-2	U	-	-	10	0-0.4ft: Asphalt
2	4.2	2-4	U	-	-	10	0.4-2ft: Black/brown sandy gravel (coarse, angular, loose, moist)
3	1.5	4-6	U	-	-	22	2-6ft: Gray sandy clayey silt (low plasticity, moist to wet)
4	0.7	6-8	U	-	-	22	6-8ft: Reddish brown clay (low plasticity, stiff, moist)

NOTES NA = Not Applicable

ft. bgs = feet below ground surface

Fill to ~2 ft. bgs

No suspect odors detected

*SS - SPLIT-SPOON SAMPLE U - UNDISTURBED TUBE P - PISTON TUBE C - CORE

LCS Inc. SUBSURFACE LOG

PROJECT/ LOCATION: 177 & 255 Great Arrow Avenue, Buffalo, New York PROJECT No. 04B1552.22

CLIENT: Nesper, Ferber & DiGiacomo, LLP WELL/BORING No. BH43

DATE STARTED: 8/12/04 DATE COMPLETED: 8/12/04 RECORDED BY: JMR

GROUNDWATER DEPTH WHILE DRILLING: NA AFTER COMPLETION: NA

WEATHER: ~75F, Sunny DRILL RIG: Geoprobe DRILLER: BMS Drilling

DRILL SIZE/TYPE: Macro-core SAMPLE HAMMER: WEIGHT NA FALL NA

Sample No.	PID/HNu Reading (ppm)	Depth (Feet)	Type *	Blows/6"	N	Recovery (Inches)	Material Classification and Description (Unified Soil Classification System-Visual Method)
1	1.2	0-2	U	-	-	10	0-0.3ft: Asphalt
2	1.6	2-4	U	-	-	10	0.3-3ft: Black gravelly sand (coarse, dense, moist)
3	0.8	4-6	U	-	-	24	3-6ft: Gray clayey sandy silt (no plasticity, moist)
4	0.7	6-8	U	-	-	24	6-8ft: Reddish brown clay (no plasticity, very stiff, moist)

NOTES NA = Not Applicable

ft. bgs = feet below ground surface

Fill to ~3 ft. bgs

No suspect odors detected

*SS - SPLIT-SPOON SAMPLE U - UNDISTURBED TUBE P - PISTON TUBE C - CORE

LCS Inc. SUBSURFACE LOG

PROJECT/ LOCATION: 177 & 255 Great Arrow Avenue, Buffalo, New York | PROJECT No. 04B1552.22

CLIENT: Nesper, Ferber & DiGiacomo, LLP | WELL/BORING No. BH44

DATE STARTED: 8/12/04 | DATE COMPLETED: 8/12/04 | RECORDED BY: JMR

GROUNDWATER DEPTH WHILE DRILLING: NA | AFTER COMPLETION: NA

WEATHER: ~75F, Sunny | DRILL RIG: Geoprobe | DRILLER: BMS Drilling

DRILL SIZE/TYPE: Macro-core | SAMPLE HAMMER: WEIGHT NA | FALL NA

Sample No.	PID/HNu Reading (ppm)	Depth (Feet)	Type *	Blows/6"	N	Recovery (Inches)	Material Classification and Description (Unified Soil Classification System-Visual Manual Method)
1	1.2	0-2	U	-	-	12	0-0.3ft: Asphalt
2	1.0	2-4	U	-	-	12	0.3-2.5ft: Black gravelly sand (coarse, dense, moist) (red brick)
3	0.6	4-6	U	-	-	24	2.5-5ft: Gray sandy silt (low plasticity, moist)
4	0.4	6-8	U	-	-	24	5-8ft: Reddish brown clay (low plasticity, very stiff, moist)

NOTES NA = Not Applicable

ft. bgs = feet below ground surface

Fill to ~2.5 ft. bgs

No suspect odors detected

*SS - SPLIT-SPOON SAMPLE U - UNDISTURBED TUBE P - PISTON TUBE C - CORE

LCS Inc. SUBSURFACE LOG

PROJECT/ LOCATION: 177 & 255 Great Arrow Avenue, Buffalo, New York | PROJECT No. 04B1552.22

CLIENT: Nesper, Ferber & DiGiacomo, LLP | WELL/BORING No. BH45

DATE STARTED: 8/13/04 | DATE COMPLETED: 8/13/04 | RECORDED BY: BFB

GROUNDWATER DEPTH WHILE DRILLING: NA | AFTER COMPLETION: NA

WEATHER: ~65F, Sunny | DRILL RIG: Geoprobe | DRILLER: BMS Drilling

DRILL SIZE/TYPE: Macro-core | SAMPLE HAMMER: WEIGHT NA | FALL NA

Sample No.	PID/HNu Reading (ppm)	Depth (Feet)	Type *	Blows/6"	N	Recovery (Inches)	Material Classification and Description (Unified Soil Classification System-Visual Manual Method)
1	118	0-2	U	-	-	20	0-0.3ft: Asphalt
2	2.5	2-4	U	-	-	20	0.3-0.5ft: Gray gravelly sand (fine, medium, moist)
3	15.1	4-6	U	-	-	22	0.5-12ft: Brown/gray silty clay (low plasticity, medium stiff to stiff, moist)
4	7.6	6-8	U	-	-	22	
5	8.1	8-10	U	-	-	20	
6	8.8	10-12	U	-	-	20	

NOTES NA = Not Applicable

ft. bgs = feet below ground surface

Fill to ~0.5 ft. bgs

Moderate petroleum-type odors @ ~0.5-12 ft. bgs

*SS - SPLIT-SPOON SAMPLE U - UNDISTURBED TUBE P - PISTON TUBE C - CORE

LCS Inc. SUBSURFACE LOG

PROJECT/ LOCATION: 177 & 255 Great Arrow Avenue, Buffalo, New York | PROJECT No. 04B1552.22

CLIENT: Nesper, Ferber & DiGiacomo, LLP | WELL/BORING No. BH46

DATE STARTED: 8/13/04 | DATE COMPLETED: 8/13/04 | RECORDED BY: BFB

GROUNDWATER DEPTH WHILE DRILLING: ~1.5 ft. bgs | AFTER COMPLETION: NA

WEATHER: ~65F, Sunny | DRILL RIG: Geoprobe | DRILLER: BMS Drilling

DRILL SIZE/TYPE: Macro-core | SAMPLE HAMMER: WEIGHT NA | FALL NA

Sample No.	PID/HNu Reading (ppm)	Depth (Feet)	Type *	Blows/6"	N	Recovery (Inches)	Material Classification and Description (Unified Soil Classification System-Visual Manual Method)
1	170	0-2	U	-	-	12	0-0.3ft: Asphalt
2	70.6	2-4	U	-	-	12	0.3-0.5ft: Gray gravelly sand (fine, medium, moist)
3	54.4	4-6	U	-	-	20	0.5-12ft: Brown/gray silty clay (low plasticity, medium stiff to stiff, moist)
4	19.2	6-8	U	-	-	20	
5	19.2	8-10	U	-	-	20	
6	18.8	10-12	U	-	-	20	

NOTES NA = Not Applicable

ft. bgs = feet below ground surface

Fill to ~0.5 ft. bgs

Strong to medium petroleum-type odors @ ~0-12 ft. bgs

*SS - SPLIT-SPOON SAMPLE U - UNDISTURBED TUBE P - PISTON TUBE C - CORE

LCS Inc. SUBSURFACE LOG

PROJECT/ LOCATION: 177 & 255 Great Arrow Avenue, Buffalo, New York PROJECT No: 04B1552.22

CLIENT: Nesper, Ferber & DiGiacomo, LLP WELL/BORING No. BH47

DATE STARTED: 8/13/04 DATE COMPLETED: 8/13/04 RECORDED BY: BFB

GROUNDWATER DEPTH WHILE DRILLING: NA AFTER COMPLETION: NA

WEATHER: ~65F, Sunny DRILL RIG: Geoprobe DRILLER: BMS Drilling

DRILL SIZE/TYPE: Macro-core SAMPLE HAMMER: WEIGHT NA FALL NA

Sample No.	PID/HNu Reading (ppm)	Depth (Feet)	Type *	Blows/6"	N	Recovery (Inches)	Material Classification and Description (Unified Soil Classification System-Visual Manual Method)
1	0.6	0-2	U	-	-	12	0-0.3ft: Asphalt
2	0.3	2-4	U	-	-	12	0.3-2ft: Gray gravelly sand (coarse, dense, moist)
3	0.2	4-6	U	-	-	24	2-12ft: Brown/gray silty clay (low plasticity, medium stiff to stiff, moist)
4	0.0	6-8	U	-	-	24	
5	0.0	8-10	U	-	-	24	
6	0.0	10-12	U	-	-	24	

NOTES NA = Not Applicable

ft. bgs = feet below ground surface

Fill to ~0.5 ft. bgs

No suspect odors detected

*SS - SPLIT-SPOON SAMPLE U - UNDISTURBED TUBE P - PISTON TUBE C - CORE

LCS Inc. SUBSURFACE LOG

PROJECT/ LOCATION: 177 & 255 Great Arrow Avenue, Buffalo, New York PROJECT No. 04B1552.22

CLIENT: Nesper, Ferber & DiGiacomo, LLP WELL/BORING No. BH48

DATE STARTED: 8/13/04 DATE COMPLETED: 8/13/04 RECORDED BY: BFB

GROUNDWATER DEPTH WHILE DRILLING: NA AFTER COMPLETION: NA

WEATHER: ~65F, Sunny DRILL RIG: Geoprobe DRILLER: BMS Drilling

DRILL SIZE/TYPE: Macro-core SAMPLE HAMMER: WEIGHT NA FALL NA

Sample No.	PID/HNu Reading (ppm)	Depth (Feet)	Type *	Blows/6"	N	Recovery (Inches)	Material Classification and Description (Unified Soil Classification System-Visual Manual Method)
1	0.0	0-2	U	-	-	18	0-1.5ft: Wood
2	0.0	2-4	U	-	-	18	1.5-8ft: Gray/brown silty clay (high to low plasticity, soft to stiff, moist)
3	0.0	4-6	U	-	-	24	
4	0.0	6-8	U	-	-	24	

NOTES NA = Not Applicable

ft. bgs = feet below ground surface

Fill to ~1.5 ft. bgs

No suspect odors detected

*SS - SPLIT-SPOON SAMPLE U - UNDISTURBED TUBE P - PISTON TUBE C - CORE

LCS Inc. SUBSURFACE LOG

PROJECT/ LOCATION: 177 & 255 Great Arrow Avenue, Buffalo, New York | PROJECT No. 04B1552.22

CLIENT: Nesper, Ferber & DiGiacomo, LLP | WELL/BORING No. BH49

DATE STARTED: 8/13/04 | DATE COMPLETED: 8/13/04 | RECORDED BY: BFB

GROUNDWATER DEPTH WHILE DRILLING: NA | AFTER COMPLETION: NA

WEATHER: ~65F, Sunny | DRILL RIG: Geoprobe | DRILLER: BMS Drilling

DRILL SIZE/TYPE: Macro-core | SAMPLE HAMMER: WEIGHT NA | FALL NA

Sample No.	PID/HNu Reading (ppm)	Depth (Feet)	Type *	Blows/6"	N	Recovery (Inches)	Material Classification and Description (Unified Soil Classification System-Visual Manual Method)
1	0.0	0-2	U	-	-	18	0-0.5ft: Wood
2	0.0	2-4	U	-	-	18	0.5-8ft: Gray/brown silty clay (high to low plasticity, soft to stiff, moist)
3	0.0	4-6	U	-	-	24	
4	0.0	6-8	U	-	-	24	

NOTES NA = Not Applicable

ft. bgs = feet below ground surface

Fill to ~0.5 ft. bgs

No suspect odors detected

*SS - SPLIT-SPOON SAMPLE U - UNDISTURBED TUBE P - PISTON TUBE C - CORE

LCS Inc. SUBSURFACE LOG

PROJECT/ LOCATION: 177 & 255 Great Arrow Avenue, Buffalo, New York | PROJECT No. 04B1552.22

CLIENT: Nesper, Ferber & DiGiacomo, LLP | WELL/BORING No. BH50

DATE STARTED: 8/13/04 | DATE COMPLETED: 8/13/04 | RECORDED BY: BFB

GROUNDWATER DEPTH WHILE DRILLING: NA | AFTER COMPLETION: NA

WEATHER: ~65F, Sunny | DRILL RIG: Geoprobe | DRILLER: BMS Drilling

DRILL SIZE/TYPE: Macro-core | SAMPLE HAMMER: WEIGHT NA | FALL NA

Sample No.	PID/HNu Reading (ppm)	Depth (Feet)	Type *	Blows/6"	N	Recovery (Inches)	Material Classification and Description (Unified Soil Classification System-Visual Manual Method)
1	0.0	0-2	U	-	-	18	0-1.5ft: Wood
2	0.0	2-4	U	-	-	18	1.5-8ft: Gray/brown silty clay (high to low plasticity, soft to stiff, moist)
3	0.0	4-6	U	-	-	24	
4	0.0	6-8	U	-	-	24	

NOTES NA = Not Applicable

ft. bgs = feet below ground surface

Fill to ~1.5 ft. bgs

No suspect odors detected

*SS - SPLIT-SPOON SAMPLE U - UNDISTURBED TUBE P - PISTON TUBE C - CORE

LCS Inc. SUBSURFACE LOG

PROJECT/ LOCATION: 177 & 255 Great Arrow Avenue, Buffalo, New York PROJECT No. 04B1552.22

CLIENT: Nesper, Ferber & DiGiacomo, LLP WELL/BORING No. BH51

DATE STARTED: 8/16/04 DATE COMPLETED: 8/16/04 RECORDED BY: JMR

GROUNDWATER DEPTH WHILE DRILLING: NA AFTER COMPLETION: NA

WEATHER: ~80F, Sunny DRILL RIG: Geoprobe DRILLER: BMS Drilling

DRILL SIZE/TYPE: Macro-core SAMPLE HAMMER: WEIGHT NA FALL NA

Sample No.	PID/HNu Reading (ppm)	Depth (Feet)	Type *	Blows/6"	N	Recovery (Inches)	Material Classification and Description (Unified Soil Classification System-Visual Manual Method)
1	14.4	0-2	U	-	-	18	0-0.4ft: Concrete
2	13.1	2-4	U	-	-	18	0.4-2ft: Brown sandy gravel (coarse, angular, loose, moist) (slag)
3	11.8	4-6	U	-	-	20	2-5ft: Brown silty sand (fine, medium dense, moist)
4	11.7	6-8	U	-	-	20	5-8ft: Reddish brown clay (low plasticity, stiff, moist)

NOTES NA = Not Applicable

ft. bgs = feet below ground surface

Fill to ~2 ft. bgs

No suspect odors detected

*SS - SPLIT-SPOON SAMPLE U - UNDISTURBED TUBE P - PISTON TUBE C - CORE

LCS Inc. SUBSURFACE LOG

PROJECT/ LOCATION: 177 & 255 Great Arrow Avenue, Buffalo, New York PROJECT No. 04B1552.22

CLIENT: Nesper, Ferber & DiGiacomo, LLP WELL/BORING No. BH52

DATE STARTED: 8/16/04 DATE COMPLETED: 8/16/04 RECORDED BY: BFB

GROUNDWATER DEPTH WHILE DRILLING: NA AFTER COMPLETION: NA

WEATHER: ~80F, Sunny DRILL RIG: Geoprobe DRILLER: BMS Drilling

DRILL SIZE/TYPE: Macro-core SAMPLE HAMMER: WEIGHT NA FALL NA

Sample No.	PID/HNu Reading (ppm)	Depth (Feet)	Type *	Blows/6"	N	Recovery (Inches)	Material Classification and Description (Unified Soil Classification System-Visual Manual Method)
1	15.4	0-2	U	-	-	18	0-0.4ft: Concrete
2	15.0	2-4	U	-	-	18	0.4-2ft: Brown sandy gravel (coarse, angular, loose, moist) (slag)
3	14.3	4-6	U	-	-	20	2-5ft: Brown silty sand (fine, medium dense, moist)
4	9.0	6-8	U	-	-	20	5-8ft: Reddish brown clay (low plasticity, stiff, moist)

NOTES NA = Not Applicable

ft. bgs = feet below ground surface

Fill to ~2 ft. bgs

No suspect odors detected

*SS - SPLIT-SPOON SAMPLE U - UNDISTURBED TUBE P - PISTON TUBE C - CORE

LCS Inc. SUBSURFACE LOG

PROJECT/ LOCATION: 177 & 255 Great Arrow Avenue, Buffalo, New York PROJECT No. 04B1552.22

CLIENT: Nesper, Ferber & DiGiacomo, LLP WELL/BORING No. BH53

DATE STARTED: 8/16/04 DATE COMPLETED: 8/16/04 RECORDED BY: BFB

GROUNDWATER DEPTH WHILE DRILLING: NA AFTER COMPLETION: NA

WEATHER: ~80F, Sunny DRILL RIG: Geoprobe DRILLER: BMS Drilling

DRILL SIZE/TYPE: Macro-core SAMPLE HAMMER: WEIGHT NA FALL NA

Sample No.	PID/HNu Reading (ppm)	Depth (Feet)	Type *	Blows/6"	N	Recovery (Inches)	Material Classification and Description (Unified Soil Classification System-Visual Manual Method)
1	6.7	0-2	U	-	-	20	0-0.4ft: Concrete
2	8.2	2-4	U	-	-	20	0.4-1ft: Brown sandy gravel (coarse, angular, loose, moist) (slag)
3	7.1	4-6	U	-	-	20	1-7ft: Brown silty sand (fine, medium dense, moist)
4	4.5	6-8	U	-	-	20	7-8ft: Reddish brown clay (low plasticity, stiff, moist)

NOTES NA = Not Applicable

ft. bgs = feet below ground surface

Fill to ~1 ft. bgs

No suspect odors detected

*SS - SPLIT-SPOON SAMPLE U - UNDISTURBED TUBE P - PISTON TUBE C - CORE

LCS Inc. SUBSURFACE LOG

PROJECT/ LOCATION: 177 & 255 Great Arrow Avenue, Buffalo, New York PROJECT No. 04B1552.22

CLIENT: Nesper, Ferber & DiGiacomo, LLP WELL/BORING No. BH54

DATE STARTED: 8/16/04 DATE COMPLETED: 8/16/04 RECORDED BY: BFB

GROUNDWATER DEPTH WHILE DRILLING: NA AFTER COMPLETION: NA

WEATHER: ~80F, Sunny DRILL RIG: Geoprobe DRILLER: BMS Drilling

DRILL SIZE/TYPE: Macro-core SAMPLE HAMMER: WEIGHT NA FALL NA

Sample No.	PID/HNu Reading (ppm)	Depth (Feet)	Type *	Blows/6"	N	Recovery (Inches)	Material Classification and Description (Unified Soil Classification System-Visual Manual Method)
1	33.2	0-3	U	-	-	12	0-0.3ft: Concrete 0.3-1ft: Gray gravelly sand (fine, medium dense, moist) 1-3ft: Brown silty gravelly sand (fine, medium dense, moist) Refusal @ ~3 ft. bgs

NOTES NA = Not Applicable

ft. bgs = feet below ground surface

Fill to ~3 ft. bgs

No suspect odors detected

*SS - SPLIT-SPOON SAMPLE U - UNDISTURBED TUBE P - PISTON TUBE C - CORE

LCS Inc. SUBSURFACE LOG

PROJECT/ LOCATION: 177 & 255 Great Arrow Avenue, Buffalo, New York | PROJECT No. 04B1552.22

CLIENT: Nesper, Ferber & DiGiacomo, LLP | WELL/BORING No. BH55

DATE STARTED: 8/16/04 | DATE COMPLETED: 8/16/04 | RECORDED BY: BFB

GROUNDWATER DEPTH WHILE DRILLING: NA | AFTER COMPLETION: NA

WEATHER: ~80F, Sunny | DRILL RIG: Geoprobe | DRILLER: BMS Drilling

DRILL SIZE/TYPE: Macro-core | SAMPLE HAMMER: WEIGHT NA | FALL NA

Sample No.	PID/HNu Reading (ppm)	Depth (Feet)	Type *	Blows/6"	N	Recovery (Inches)	Material Classification and Description (Unified Soil Classification System-Visual Manual Method)
1	7.3	0-2	U	-	-	15	0-0.4ft: Concrete
2	7.5	2-4	U	-	-	15	0.4-3.5ft: Brown sandy gravel (coarse, angular, loose, moist) (slag)
3	5.1	4-6	U	-	-	15	3.5-5ft: Brown silty sand (fine, medium dense, moist)
4	4.9	6-8	U	-	-	15	5-8ft: Reddish brown clay (low plasticity, stiff, moist)

NOTES NA = Not Applicable

ft. bgs = feet below ground surface

Fill to ~3.5 ft. bgs

No suspect odors detected

*SS - SPLIT-SPOON SAMPLE U - UNDISTURBED TUBE P - PISTON TUBE C - CORE

LCS Inc. SUBSURFACE LOG

PROJECT/ LOCATION: 177 & 255 Great Arrow Avenue, Buffalo, New York | PROJECT No. 04B1552.22

CLIENT: Nesper, Ferber & DiGiacomo, LLP | WELL/BORING No. BH56

DATE STARTED: 8/16/04 | DATE COMPLETED: 8/16/04 | RECORDED BY: BFB

GROUNDWATER DEPTH WHILE DRILLING: NA | AFTER COMPLETION: NA

WEATHER: ~80F, Sunny | DRILL RIG: Geoprobe | DRILLER: BMS Drilling

DRILL SIZE/TYPE: Macro-core | SAMPLE HAMMER: WEIGHT NA | FALL NA

Sample No.	PID/HNu Reading (ppm)	Depth (Feet)	Type *	Blows/6"	N	Recovery (Inches)	Material Classification and Description (Unified Soil Classification System-Visual Manual Method)
1	16.8	0-2	U	-	-	10	0-0.4ft: Concrete
2	16.2	2-4	U	-	-	10	0.4-2ft: Brown gravelly sand (coarse, loose, moist)
3	9.7	4-8	U	-	-	15	2-5ft: Brown silty sand (fine, medium dense, moist)
							5-8ft: Reddish brown clay (low plasticity, stiff, moist)

NOTES NA = Not Applicable

ft. bgs = feet below ground surface

Fill to ~2 ft. bgs

No suspect odors detected

*SS - SPLIT-SPOON SAMPLE U - UNDISTURBED TUBE P - PISTON TUBE C - CORE

LCS INC.
Environmental and Real Estate Consultants

ANALYTICAL RESULTS

WASTE STREAM TECHNOLOGY, INC.

302 Grote Street
Buffalo, NY 14207
(716) 876-5290

Analytical Data Report
Report Date: 08/13/04
Work Order Number: 4H09008

Prepared For
Doug Reid
Lender Consulting Service
P.O. Box 406
Buffalo, NY 14205
Fax: (716) 845-6164

Site: Lender Consulting Service - 04B1552.22

closed are the results of analyses for samples received by the laboratory on 08/09/04. If you have any estions concerning this report, please feel free to contact me.

icerely,

Daniel W. Vollmer

niel W. Vollmer, Laboratory QA/QC Officer

ENVIRONMENTAL LABORATORY ACCREDITATION CERTIFICATION NUMBERS
NYSDOH ELAP #11179 NJDEPE #73977 PADEP #68757

Lender Consulting Service P.O. Box 406 Buffalo NY, 14205	Project: New York State Projects Project Number: Lender Consulting Service - 04B1552.22 Project Manager: Doug Reid	**Reported:** 08/18/04 16:44

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH1 (2-4)	4H09008-01	Soil	08/09/04 00:00	08/09/04 16:45
BH2 (4-6)	4H09008-02	Soil	08/09/04 00:00	08/09/04 16:45
BH3 (4-6)	4H09008-03	Soil	08/09/04 00:00	08/09/04 16:45
BH5 (0-4)	4H09008-04	Soil	08/09/04 00:00	08/09/04 16:45
BH6 (4-6)	4H09008-05	Soil	08/09/04 00:00	08/09/04 16:45
BH7 (4-6)	4H09008-06	Soil	08/09/04 00:00	08/09/04 16:45
BH8 (0-4)	4H09008-07	Soil	08/09/04 00:00	08/09/04 16:45
BH9 (4-6)	4H09008-08	Soil	08/09/04 00:00	08/09/04 16:45
BH10 (2-4)	4H09008-09	Soil	08/09/04 00:00	08/09/04 16:45

Lender Consulting Service P.O. Box 406 Buffalo NY, 14205	Project: New York State Projects Project Number: Lender Consulting Service - 04B1552.22 Project Manager: Doug Reid	**Reported:** 08/13/04 15:59

Volatile Organic Compounds by EPA Method 8260B

Waste Stream Technology Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BH1 (2-4) (4H09008-01) Soil Sampled: 08/09/04 00:00 Received: 08/09/04 16:45									
Methyl tert-butyl ether	ND	10	ug/kg dry	1	AH41007	08/10/04	08/10/04	8260	U
benzene	ND	10	"	"	"	"	"	"	U
toluene	ND	10	"	"	"	"	"	"	U
ethylbenzene	ND	10	"	"	"	"	"	"	U
m,p-xylene	ND	20	"	"	"	"	"	"	U
o-xylene	ND	10	"	"	"	"	"	"	U
isopropylbenzene	ND	10	"	"	"	"	"	"	U
n-propylbenzene	ND	10	"	"	"	"	"	"	U
1,3,5-trimethylbenzene	ND	10	"	"	"	"	"	"	U
tert-butylbenzene	ND	10	"	"	"	"	"	"	U
1,2,4-trimethylbenzene	ND	10	"	"	"	"	"	"	U
sec-butylbenzene	ND	10	"	"	"	"	"	"	U
p-isopropyltoluene	ND	10	"	"	"	"	"	"	U
n-butylbenzene	ND	10	"	"	"	"	"	"	U
naphthalene	ND	10	"	"	"	"	"	"	U
Surrogate: 1,2-Dichloroethane-d4		*103 %*	*69-132*		"	"	"	"	
Surrogate: Toluene-d8		*98.7 %*	*81-121*		"	"	"	"	
Surrogate: Bromofluorobenzene		*104 %*	*83-121*		"	"	"	"	
BH2 (4-6) (4H09008-02) Soil Sampled: 08/09/04 00:00 Received: 08/09/04 16:45									
Methyl tert-butyl ether	ND	9	ug/kg dry	1	AH41007	08/10/04	08/10/04	8260	U
benzene	ND	9	"	"	"	"	"	"	U
toluene	ND	9	"	"	"	"	"	"	U
ethylbenzene	ND	9	"	"	"	"	"	"	U
m,p-xylene	ND	18	"	"	"	"	"	"	U
o-xylene	ND	9	"	"	"	"	"	"	U
isopropylbenzene	**14**	9	"	"	"	"	"	"	
n-propylbenzene	**35**	9	"	"	"	"	"	"	
1,3,5-trimethylbenzene	ND	9	"	"	"	"	"	"	U
tert-butylbenzene	ND	9	"	"	"	"	"	"	U
1,2,4-trimethylbenzene	**22**	9	"	"	"	"	"	"	
sec-butylbenzene	ND	9	"	"	"	"	"	"	U
p-isopropyltoluene	ND	9	"	"	"	"	"	"	U
n-butylbenzene	**17**	9	"	"	"	"	"	"	
naphthalene	ND	9	"	"	"	"	"	"	U
Surrogate: 1,2-Dichloroethane-d4		*99.7 %*	*69-132*		"	"	"	"	
Surrogate: Toluene-d8		*100 %*	*81-121*		"	"	"	"	
Surrogate: Bromofluorobenzene		*105 %*	*83-121*		"	"	"	"	

Lender Consulting Service P.O. Box 406 Buffalo NY, 14205	Project: New York State Projects Project Number: Lender Consulting Service - 04B1552.22 Project Manager: Doug Reid	**Reported:** 08/13/04 15:59

Volatile Organic Compounds by EPA Method 8260B

Waste Stream Technology Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BH3 (4-6) (4H09008-03) Soil Sampled: 08/09/04 00:00 Received: 08/09/04 16:45									
Methyl tert-butyl ether	ND	10	ug/kg dry	1	AH41007	08/10/04	08/10/04	8260	U
benzene	ND	10	"	"	"	"	"	"	U
toluene	ND	10	"	"	"	"	"	"	U
ethylbenzene	ND	10	"	"	"	"	"	"	U
m,p-xylene	ND	20	"	"	"	"	"	"	U
o-xylene	ND	10	"	"	"	"	"	"	U
isopropylbenzene	ND	10	"	"	"	"	"	"	U
n-propylbenzene	ND	10	"	"	"	"	"	"	U
1,3,5-trimethylbenzene	ND	10	"	"	"	"	"	"	U
tert-butylbenzene	ND	10	"	"	"	"	"	"	U
1,2,4-trimethylbenzene	ND	10	"	"	"	"	"	"	U
sec-butylbenzene	ND	10	"	"	"	"	"	"	U
p-isopropyltoluene	ND	10	"	"	"	"	"	"	U
n-butylbenzene	ND	10	"	"	"	"	"	"	U
naphthalene	ND	10	"	"	"	"	"	"	U
Surrogate: 1,2-Dichloroethane-d4		*104 %*	*69-132*		"	"	"	"	
Surrogate: Toluene-d8		*102 %*	*81-121*		"	"	"	"	
Surrogate: Bromofluorobenzene		*108 %*	*83-121*		"	"	"	"	
BH5 (0-4) (4H09008-04) Soil Sampled: 08/09/04 00:00 Received: 08/09/04 16:45									
Methyl tert-butyl ether	ND	9	ug/kg dry	1	AH41007	08/10/04	08/10/04	8260	U
benzene	ND	9	"	"	"	"	"	"	U
toluene	ND	9	"	"	"	"	"	"	U
ethylbenzene	ND	9	"	"	"	"	"	"	U
m,p-xylene	ND	17	"	"	"	"	"	"	U
o-xylene	ND	9	"	"	"	"	"	"	U
isopropylbenzene	ND	9	"	"	"	"	"	"	U
n-propylbenzene	ND	9	"	"	"	"	"	"	U
1,3,5-trimethylbenzene	ND	9	"	"	"	"	"	"	U
tert-butylbenzene	ND	9	"	"	"	"	"	"	U
1,2,4-trimethylbenzene	ND	9	"	"	"	"	"	"	U
sec-butylbenzene	ND	9	"	"	"	"	"	"	U
p-isopropyltoluene	ND	9	"	"	"	"	"	"	U
n-butylbenzene	ND	9	"	"	"	"	"	"	U
naphthalene	**15**	9	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*114 %*	*69-132*		"	"	"	"	
Surrogate: Toluene-d8		*101 %*	*81-121*		"	"	"	"	
Surrogate: Bromofluorobenzene		*119 %*	*83-121*		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Waste Stream Technology Inc.

nalyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
16 (4-6) (4H09008-05) Soil Sampled: 08/09/04 00:00 Received: 08/09/04 16:45									
ethyl tert-butyl ether	ND	8	ug/kg dry	1	AH41007	08/10/04	08/10/04	8260	U
nzene	ND	8	"	"	"	"	"	"	U
uene	ND	8	"	"	"	"	"	"	U
ylbenzene	ND	8	"	"	"	"	"	"	U
p-xylene	ND	17	"	"	"	"	"	"	U
ylene	ND	8	"	"	"	"	"	"	U
propylbenzene	ND	8	"	"	"	"	"	"	U
ropylbenzene	ND	8	"	"	"	"	"	"	U
,5-trimethylbenzene	ND	8	"	"	"	"	"	"	U
t-butylbenzene	ND	8	"	"	"	"	"	"	U
,4-trimethylbenzene	ND	8	"	"	"	"	"	"	U
-butylbenzene	ND	8	"	"	"	"	"	"	U
sopropyltoluene	ND	8	"	"	"	"	"	"	U
utylbenzene	ND	8	"	"	"	"	"	"	U
phthalene	ND	8	"	"	"	"	"	"	U
rogate: 1,2-Dichloroethane-d4		*103 %*	*69-132*		"	"	"	"	
rogate: Toluene-d8		*92.7 %*	*81-121*		"	"	"	"	
rogate: Bromofluorobenzene		*105 %*	*83-121*		"	"	"	"	
17 (4-6) (4H09008-06) Soil Sampled: 08/09/04 00:00 Received: 08/09/04 16:45									
thyl tert-butyl ether	ND	10	ug/kg dry	1	AH41007	08/10/04	08/10/04	8260	U
nzene	ND	10	"	"	"	"	"	"	U
uene	ND	10	"	"	"	"	"	"	U
ylbenzene	ND	10	"	"	"	"	"	"	U
-xylene	ND	20	"	"	"	"	"	"	U
ylene	ND	10	"	"	"	"	"	"	U
propylbenzene	ND	10	"	"	"	"	"	"	U
ropylbenzene	ND	10	"	"	"	"	"	"	U
,5-trimethylbenzene	ND	10	"	"	"	"	"	"	U
-butylbenzene	ND	10	"	"	"	"	"	"	U
,4-trimethylbenzene	ND	10	"	"	"	"	"	"	U
-butylbenzene	ND	10	"	"	"	"	"	"	U
sopropyltoluene	ND	10	"	"	"	"	"	"	U
utylbenzene	ND	10	"	"	"	"	"	"	U
phthalene	ND	10	"	"	"	"	"	"	U
rogate: 1,2-Dichloroethane-d4		*108 %*	*69-132*		"	"	"	"	
rogate: Toluene-d8		*101 %*	*81-121*		"	"	"	"	
rogate: Bromofluorobenzene		*109 %*	*83-121*		"	"	"	"	

Lender Consulting Service	Project: New York State Projects	
P.O. Box 406	Project Number: Lender Consulting Service - 04B1552.22	**Reported:**
Buffalo NY, 14205	Project Manager: Doug Reid	08/13/04 15:59

Volatile Organic Compounds by EPA Method 8260B

Waste Stream Technology Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SH8 (0-4) (4H09008-07) Soil Sampled: 08/09/04 00:00 Received: 08/09/04 16:45									
Methyl tert-butyl ether	ND	10	ug/kg dry	1	AH41007	08/10/04	08/10/04	8260	U
Benzene	ND	10	"	"	"	"	"	"	U
Toluene	ND	10	"	"	"	"	"	"	U
Ethylbenzene	ND	10	"	"	"	"	"	"	U
m,p-xylene	ND	20	"	"	"	"	"	"	U
o-xylene	ND	10	"	"	"	"	"	"	U
Isopropylbenzene	ND	10	"	"	"	"	"	"	U
n-propylbenzene	ND	10	"	"	"	"	"	"	U
1,3,5-trimethylbenzene	ND	10	"	"	"	"	"	"	U
tert-butylbenzene	ND	10	"	"	"	"	"	"	U
1,2,4-trimethylbenzene	ND	10	"	"	"	"	"	"	U
sec-butylbenzene	ND	10	"	"	"	"	"	"	U
p-isopropyltoluene	ND	10	"	"	"	"	"	"	U
n-butylbenzene	ND	10	"	"	"	"	"	"	U
Naphthalene	ND	10	"	"	"	"	"	"	U
Surrogate: 1,2-Dichloroethane-d4		*116 %*	*69-132*		"	"	"	"	
Surrogate: Toluene-d8		*98.0 %*	*81-121*		"	"	"	"	
Surrogate: Bromofluorobenzene		*113 %*	*83-121*		"	"	"	"	
SH9 (4-6) (4H09008-08) Soil Sampled: 08/09/04 00:00 Received: 08/09/04 16:45									
Methyl tert-butyl ether	ND	10	ug/kg dry	1	AH41007	08/10/04	08/10/04	8260	U
Benzene	ND	10	"	"	"	"	"	"	U
Toluene	ND	10	"	"	"	"	"	"	U
Ethylbenzene	ND	10	"	"	"	"	"	"	U
m,p-xylene	ND	20	"	"	"	"	"	"	U
o-xylene	ND	10	"	"	"	"	"	"	U
Isopropylbenzene	ND	10	"	"	"	"	"	"	U
n-propylbenzene	ND	10	"	"	"	"	"	"	U
1,3,5-trimethylbenzene	ND	10	"	"	"	"	"	"	U
tert-butylbenzene	ND	10	"	"	"	"	"	"	U
1,2,4-trimethylbenzene	ND	10	"	"	"	"	"	"	U
sec-butylbenzene	ND	10	"	"	"	"	"	"	U
p-isopropyltoluene	ND	10	"	"	"	"	"	"	U
n-butylbenzene	ND	10	"	"	"	"	"	"	U
Naphthalene	ND	10	"	"	"	"	"	"	U
Surrogate: 1,2-Dichloroethane-d4		*113 %*	*69-132*		"	"	"	"	
Surrogate: Toluene-d8		*96.7 %*	*81-121*		"	"	"	"	
Surrogate: Bromofluorobenzene		*108 %*	*83-121*		"	"	"	"	

ender Consulting Service	Project: New York State Projects	
.O. Box 406	Project Number: Lender Consulting Service - 04B1552.22	**Reported:**
uffalo NY, 14205	Project Manager: Doug Reid	08/13/04 15:59

Volatile Organic Compounds by EPA Method 8260B

Waste Stream Technology Inc.

alyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
110 (2-4) (4H09008-09) Soil Sampled: 08/09/04 00:00 Received: 08/09/04 16:45									
thyl tert-butyl ether	ND	10	ug/kg dry	1	AH41007	08/10/04	08/10/04	8260	U
nzene	ND	10	"	"	"	"	"	"	U
ene	ND	10	"	"	"	"	"	"	U
ylbenzene	**35**	10	"	"	"	"	"	"	
o-xylene	ND	20	"	"	"	"	"	"	U
ylene	ND	10	"	"	"	"	"	"	U
propylbenzene	**46**	10	"	"	"	"	"	"	
ropylbenzene	**322**	10	"	"	"	"	"	"	
,5-trimethylbenzene	**26**	10	"	"	"	"	"	"	
-butylbenzene	ND	10	"	"	"	"	"	"	U
,4-trimethylbenzene	ND	10	"	"	"	"	"	"	U
-butylbenzene	**75**	10	"	"	"	"	"	"	
sopropyltoluene	**11**	10	"	"	"	"	"	"	
utylbenzene	**222**	10	"	"	"	"	"	"	
phthalene	**98**	10	"	"	"	"	"	"	
rogate: 1,2-Dichloroethane-d4		*109 %*	*69-132*		"	"	"	"	
rogate: Toluene-d8		*98.0 %*	*81-121*		"	"	"	"	
rogate: Bromofluorobenzene		*110 %*	*83-121*		"	"	"	"	

Lender Consulting Service	Project: New York State Projects	
P.O. Box 406	Project Number: Lender Consulting Service - 04B1552.22	**Reported:**
Buffalo NY, 14205	Project Manager: Doug Reid	08/13/04 15:59

Semivolatile Organic Compounds by EPA Method 8270C

Waste Stream Technology Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
H7 (4-6) (4H09008-06) Soil Sampled: 08/09/04 00:00 Received: 08/09/04 16:45									
aphthalene	ND	67	ug/kg dry	1	AH41105	08/11/04	08/11/04	8270	U
nthracene	ND	67	"	"	"	"	"	"	U
cenaphthene	ND	67	"	"	"	"	"	"	U
cenaphthylene	ND	67	"	"	"	"	"	"	U
enzo (a) anthracene	ND	67	"	"	"	"	"	"	U
enzo (b) fluoranthene	ND	67	"	"	"	"	"	"	U
enzo (k) fluoranthene	ND	67	"	"	"	"	"	"	U
enzo (g,h,i) perylene	ND	67	"	"	"	"	"	"	U
enzo (a) pyrene	ND	67	"	"	"	"	"	"	U
hrysene	ND	67	"	"	"	"	"	"	U
ibenz (a,h) anthracene	ND	67	"	"	"	"	"	"	U
uoranthene	ND	67	"	"	"	"	"	"	U
uorene	ND	67	"	"	"	"	"	"	U
ideno (1,2,3-cd) pyrene	ND	67	"	"	"	"	"	"	U
henanthrene	ND	67	"	"	"	"	"	"	U
yrene	ND	67	"	"	"	"	"	"	U
urrogate: Nitrobenzene-d5		*82.2 %*		*48-122*	"	"	"	"	
urrogate: 2-Fluorobiphenyl		*91.9 %*		*50-121*	"	"	"	"	
urrogate: Terphenyl-d14		*106 %*		*36-134*	"	"	"	"	
H8 (0-4) (4H09008-07) Soil Sampled: 08/09/04 00:00 Received: 08/09/04 16:45									
aphthalene	ND	67	ug/kg dry	1	AH41105	08/11/04	08/11/04	8270	U
nthracene	ND	67	"	"	"	"	"	"	U
cenaphthene	ND	67	"	"	"	"	"	"	U
cenaphthylene	ND	67	"	"	"	"	"	"	U
enzo (a) anthracene	ND	67	"	"	"	"	"	"	U
enzo (b) fluoranthene	ND	67	"	"	"	"	"	"	U
enzo (k) fluoranthene	ND	67	"	"	"	"	"	"	U
enzo (g,h,i) perylene	ND	67	"	"	"	"	"	"	U
enzo (a) pyrene	ND	67	"	"	"	"	"	"	U
hrysene	ND	67	"	"	"	"	"	"	U
ibenz (a,h) anthracene	ND	67	"	"	"	"	"	"	U
luoranthene	ND	67	"	"	"	"	"	"	U
luorene	ND	67	"	"	"	"	"	"	U
ideno (1,2,3-cd) pyrene	ND	67	"	"	"	"	"	"	U
henanthrene	ND	67	"	"	"	"	"	"	U
yrene	ND	67	"	"	"	"	"	"	U
urrogate: Nitrobenzene-d5		*81.3 %*		*48-122*	"	"	"	"	
urrogate: 2-Fluorobiphenyl		*84.5 %*		*50-121*	"	"	"	"	
urrogate: Terphenyl-d14		*100 %*		*36-134*	"	"	"	"	

Lender Consulting Service	Project: New York State Projects	
P.O. Box 406	Project Number: Lender Consulting Service - 04B1552.22	**Reported:**
Buffalo NY, 14205	Project Manager: Doug Reid	08/13/04 15:59

Semivolatile Organic Compounds by EPA Method 8270C

Waste Stream Technology Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
H10 (2-4) (4H09008-09) Soil	**Sampled: 08/09/04 00:00**	**Received: 08/09/04 16:45**							
aphthalene	**385**	67	ug/kg dry	1	AH41105	08/11/04	08/12/04	8270	
nthracene	**388**	67	"	"	"	"	"	"	
cenaphthene	**286**	67	"	"	"	"	"	"	
cenaphthylene	ND	67	"	"	"	"	"	"	U
enzo (a) anthracene	**1700**	67	"	"	"	"	"	"	
enzo (b) fluoranthene	**2520**	67	"	"	"	"	"	"	
enzo (k) fluoranthene	**2140**	67	"	"	"	"	"	"	
enzo (g,h,i) perylene	**948**	67	"	"	"	"	"	"	
enzo (a) pyrene	**1990**	67	"	"	"	"	"	"	
ırysene	**1660**	67	"	"	"	"	"	"	
ibenz (a,h) anthracene	ND	67	"	"	"	"	"	"	U
uoranthene	**2610**	67	"	"	"	"	"	"	
uorene	**243**	67	"	"	"	"	"	"	
ıdeno (1,2,3-cd) pyrene	**799**	67	"	"	"	"	"	"	
ıenanthrene	**1540**	67	"	"	"	"	"	"	
yrene	**3030**	67	"	"	"	"	"	"	
urrogate: Nitrobenzene-d5		*90.8 %*	*48-122*		"	"	"	"	
urrogate: 2-Fluorobiphenyl		*97.9 %*	*50-121*		"	"	"	"	
urrogate: Terphenyl-d14		*143 %*	*36-134*		"	"	"	"	*S-04*

Lender Consulting Service	Project: New York State Projects	
P.O. Box 406	Project Number: Lender Consulting Service - 04B1552.22	**Reported:**
Buffalo NY, 14205	Project Manager: Doug Reid	08/18/04 16:44

RCRA Metals by EPA 6000/7000 Series Methods

Waste Stream Technology Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
H5 (0-4) (4H09008-04) Soil Sampled: 08/09/04 00:00 Received: 08/09/04 16:45									
ercury	**0.304**	0.014	mg/kg dry	1	AH41216	08/12/04	08/12/04	EPA 7471A	
lver	ND	2.50	"	5	AH41001	08/10/04	08/13/04	EPA 6010B	
rsenic	**11.9**	8.50	"	"	"	"	08/13/04	"	
ırium	**261**	5.00	"	"	"	"	08/13/04	"	
ıdmium	ND	5.00	"	"	"	"	08/13/04	"	
hromium	**32.8**	5.00	"	"	"	"	"	"	
:ad	**426**	20.5	"	"	"	"	"	"	
lenium	ND	7.00	"	"	"	"	"	"	
16 (4-6) (4H09008-05) Soil Sampled: 08/09/04 00:00 Received: 08/09/04 16:45									
ercury	**0.181**	0.014	mg/kg dry	1	AH41216	08/12/04	08/12/04	EPA 7471A	
lver	ND	2.50	"	5	AH41001	08/10/04	08/13/04	EPA 6010B	
rsenic	**17.8**	8.50	"	"	"	"	"	"	
ırium	**195**	5.00	"	"	"	"	"	"	
ıdmium	ND	5.00	"	"	"	"	"	"	
ıromium	**174**	5.00	"	"	"	"	"	"	
:ad	**393**	20.5	"	"	"	"	"	"	
lenium	ND	7.00	"	"	"	"	"	"	

ender Consulting Service	Project: New York State Projects	
.O. Box 406	Project Number: Lender Consulting Service - 04B1552.22	**Reported:**
Buffalo NY, 14205	Project Manager: Doug Reid	08/18/04 16:44

Polychlorinated Biphenyls by EPA Method 8082

Waste Stream Technology Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
H5 (0-4) (4H09008-04) Soil Sampled: 08/09/04 00:00 Received: 08/09/04 16:45									
Aroclor 1016	ND	3.30	ug/kg dry	1	AH41014	08/10/04	08/12/04	8082	U
Aroclor 1221	ND	3.30	"	"	"	"	"	"	U
Aroclor 1232	ND	3.30	"	"	"	"	"	"	U
Aroclor 1242	ND	3.30	"	"	"	"	"	"	U
Aroclor 1248	ND	3.30	"	"	"	"	"	"	U
Aroclor 1254	ND	3.30	"	"	"	"	"	"	U
Aroclor 1260	**113**	3.30	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*94.0 %*	*74-122*		"	"	"	"	
Surrogate: Decachlorobiphenyl		*86.1 %*	*64-127*		"	"	"	"	
H6 (4-6) (4H09008-05) Soil Sampled: 08/09/04 00:00 Received: 08/09/04 16:45									
Aroclor 1016	ND	3.30	ug/kg dry	1	AH41014	08/10/04	08/12/04	8082	U
Aroclor 1221	ND	3.30	"	"	"	"	"	"	U
Aroclor 1232	ND	3.30	"	"	"	"	"	"	U
Aroclor 1242	ND	3.30	"	"	"	"	"	"	U
Aroclor 1248	ND	3.30	"	"	"	"	"	"	U
Aroclor 1254	ND	3.30	"	"	"	"	"	"	U
Aroclor 1260	ND	3.30	"	"	"	"	"	"	U
Surrogate: Tetrachloro-meta-xylene		*88.2 %*	*74-122*		"	"	"	"	
Surrogate: Decachlorobiphenyl		*%*	*64-127*		"	"	"	"	*S-04*

ender Consulting Service	Project: New York State Projects	
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Buffalo NY, 14205	Project Manager: Doug Reid	08/18/04 16:44

Volatile Organic Compounds by EPA Method 8260B

Waste Stream Technology Inc.

nalyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
45 (0-4) (4H09008-04) Soil Sampled: 08/09/04 00:00 Received: 08/09/04 16:45									
loromethane	ND	43	ug/kg dry	1	AH41007	08/10/04	08/10/04	8260	U
ıyl chloride	ND	43	"	"	"	"	"	"	U
ɔmomethane	ND	43	"	"	"	"	"	"	U
loroethane	ND	43	"	"	"	"	"	"	U
l-dichloroethene	ND	9	"	"	"	"	"	"	U
ɛtone	ND	43	"	"	"	"	"	"	U
·bon disulfide	ND	9	"	"	"	"	"	"	U
ɛthylene chloride	ND	9	"	"	"	"	"	"	U
ns-1,2-dichloroethene	ND	9	"	"	"	"	"	"	U
-dichloroethane	ND	9	"	"	"	"	"	"	U
ıyl acetate	ND	43	"	"	"	"	"	"	U
ɔutanone	ND	43	"	"	"	"	"	"	U
-1,2-dichloroethene	ND	9	"	"	"	"	"	"	U
.oroform	ND	9	"	"	"	"	"	"	U
.1-trichloroethane	ND	9	"	"	"	"	"	"	U
·bon tetrachloride	ND	9	"	"	"	"	"	"	U
ızene	ND	9	"	"	"	"	"	"	U
-dichloroethane	ND	9	"	"	"	"	"	"	U
ɛhloroethene	ND	9	"	"	"	"	"	"	U
-dichloropropane	ND	9	"	"	"	"	"	"	U
ɔmodichloromethane	ND	9	"	"	"	"	"	"	U
Methyl-2-pentanone (MIBK)	ND	43	"	"	"	"	"	"	U
-1,3-dichloropropene	ND	9	"	"	"	"	"	"	U
uene	ND	9	"	"	"	"	"	"	U
ıs-1,3-dichloropropene	ND	9	"	"	"	"	"	"	U
.2-trichloroethane	ND	9	"	"	"	"	"	"	U
ɛxanone	ND	43	"	"	"	"	"	"	U
·achloroethene	ND	9	"	"	"	"	"	"	U
romochloromethane	ND	9	"	"	"	"	"	"	U
orobenzene	ND	9	"	"	"	"	"	"	U
ylbenzene	ND	9	"	"	"	"	"	"	U
ɔ-xylene	ND	17	"	"	"	"	"	"	U
ylene	ND	9	"	"	"	"	"	"	U
ɛne	ND	9	"	"	"	"	"	"	U
moform	ND	9	"	"	"	"	"	"	U
.2,2-tetrachloroethane	ND	9	"	"	"	"	"	"	U
rogate: 1,2-Dichloroethane-d4		*114 %*	*69-132*		"	"	"	"	
rogate: Toluene-d8		*101 %*	*81-121*		"	"	"	"	
rogate: Bromofluorobenzene		*119 %*	*83-121*		"	"	"	"	

Lender Consulting Service	Project: New York State Projects	
P.O. Box 406	Project Number: Lender Consulting Service - 04B1552.22	**Reported:**
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Volatile Organic Compounds by EPA Method 8260B

Waste Stream Technology Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
:H6 (4-6) (4H09008-05) Soil Sampled: 08/09/04 00:00 Received: 08/09/04 16:45									
hloromethane	ND	42	ug/kg dry	1	AH41007	08/10/04	08/10/04	8260	U
inyl chloride	ND	42	"	"	"	"	"	"	U
romomethane	ND	42	"	"	"	"	"	"	U
hloroethane	ND	42	"	"	"	"	"	"	U
,1-dichloroethene	ND	8	"	"	"	"	"	"	U
cetone	ND	42	"	"	"	"	"	"	U
arbon disulfide	ND	8	"	"	"	"	"	"	U
ıethylene chloride	ND	8	"	"	"	"	"	"	U
ans-1,2-dichloroethene	ND	8	"	"	"	"	"	"	U
,1-dichloroethane	ND	8	"	"	"	"	"	"	U
inyl acetate	ND	42	"	"	"	"	"	"	U
-butanone	ND	42	"	"	"	"	"	"	U
s-1,2-dichloroethene	ND	8	"	"	"	"	"	"	U
ıloroform	ND	8	"	"	"	"	"	"	U
,1,1-trichloroethane	ND	8	"	"	"	"	"	"	U
ırbon tetrachloride	ND	8	"	"	"	"	"	"	U
enzene	ND	8	"	"	"	"	"	"	U
2-dichloroethane	ND	8	"	"	"	"	"	"	U
ichloroethene	ND	8	"	"	"	"	"	"	U
2-dichloropropane	ND	8	"	"	"	"	"	"	U
romodichloromethane	ND	8	"	"	"	"	"	"	U
-Methyl-2-pentanone (MIBK)	ND	42	"	"	"	"	"	"	U
s-1,3-dichloropropene	ND	8	"	"	"	"	"	"	U
luene	ND	8	"	"	"	"	"	"	U
ans-1,3-dichloropropene	ND	8	"	"	"	"	"	"	U
1,2-trichloroethane	ND	8	"	"	"	"	"	"	U
hexanone	ND	42	"	"	"	"	"	"	U
trachloroethene	ND	8	"	"	"	"	"	"	U
bromochloromethane	ND	8	"	"	"	"	"	"	U
ılorobenzene	ND	8	"	"	"	"	"	"	U
hylbenzene	ND	8	"	"	"	"	"	"	U
,p-xylene	ND	17	"	"	"	"	"	"	U
xylene	ND	8	"	"	"	"	"	"	U
yrene	ND	8	"	"	"	"	"	"	U
omoform	ND	8	"	"	"	"	"	"	U
1,2,2-tetrachloroethane	ND	8	"	"	"	"	"	"	U
ırrogate: 1,2-Dichloroethane-d4		*103 %*	*69-132*		"	"	"	"	
ırrogate: Toluene-d8		*92.7 %*	*81-121*		"	"	"	"	
ırrogate: Bromofluorobenzene		*105 %*	*83-121*		"	"	"	"	

Lender Consulting Service	Project: New York State Projects	
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Buffalo NY, 14205	Project Manager: Doug Reid	08/18/04 16:44

Semivolatile Organic Compounds by EPA Method 8270C

Waste Stream Technology Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
3H5 (0-4) (4H09008-04) Soil	**Sampled: 08/09/04 00:00**	**Received: 08/09/04 16:45**							
N-Nitrosodimethylamine	ND	335	ug/kg dry	5	AH41105	08/11/04	08/18/04	8270	U
bis(2-chloroethyl)ether	ND	335	"	"	"	"	"	"	U
phenol	ND	650	"	"	"	"	"	"	U
2-chlorophenol	ND	650	"	"	"	"	"	"	U
1,3-dichlorobenzene	ND	335	"	"	"	"	"	"	U
1,4-dichlorobenzene	ND	335	"	"	"	"	"	"	U
1,2-dichlorobenzene	ND	335	"	"	"	"	"	"	U
benzyl alcohol	ND	335	"	"	"	"	"	"	U
bis(2-chloroisopropyl)ether	ND	335	"	"	"	"	"	"	U
2-methylphenol	ND	335	"	"	"	"	"	"	U
hexachloroethane	ND	335	"	"	"	"	"	"	U
N-Nitrosodi-n-propylamine	ND	335	"	"	"	"	"	"	U
3 & 4-methylphenol	ND	650	"	"	"	"	"	"	U
nitrobenzene	ND	335	"	"	"	"	"	"	U
isophorone	ND	335	"	"	"	"	"	"	U
2-nitrophenol	ND	650	"	"	"	"	"	"	U
2,4-dimethylphenol	ND	650	"	"	"	"	"	"	U
Bis(2-chloroethoxy)methane	ND	335	"	"	"	"	"	"	U
benzoic acid	ND	1650	"	"	"	"	"	"	U
2,4-dichlorophenol	ND	650	"	"	"	"	"	"	U
1,2,4-trichlorobenzene	ND	335	"	"	"	"	"	"	U
naphthalene	ND	335	"	"	"	"	"	"	U
4-chloroaniline	ND	335	"	"	"	"	"	"	U
hexachlorobutadiene	ND	335	"	"	"	"	"	"	U
4-chloro-3-methylphenol	ND	650	"	"	"	"	"	"	U
2-methylnaphthalene	ND	335	"	"	"	"	"	"	U
hexachlorocyclopentadiene	ND	650	"	"	"	"	"	"	U
2,4,6-trichlorophenol	ND	650	"	"	"	"	"	"	U
2,4,5-trichlorophenol	ND	335	"	"	"	"	"	"	U
2-chloronaphthalene	ND	335	"	"	"	"	"	"	U
2-nitroaniline	ND	335	"	"	"	"	"	"	U
acenaphthylene	ND	335	"	"	"	"	"	"	U
Dimethyl phthalate	ND	335	"	"	"	"	"	"	U
2,6-dinitrotoluene	ND	335	"	"	"	"	"	"	U
acenaphthene	**522**	335	"	"	"	"	"	"	
3-nitroaniline	ND	335	"	"	"	"	"	"	U
2,4-dinitrophenol	ND	650	"	"	"	"	"	"	U
dibenzofuran	**458**	335	"	"	"	"	"	"	
2,4-dinitrotoluene	ND	335	"	"	"	"	"	"	U
4-nitrophenol	ND	650	"	"	"	"	"	"	U
fluorene	**576**	335	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	335	"	"	"	"	"	"	U

ender Consulting Service	Project: New York State Projects	
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Buffalo NY, 14205	Project Manager: Doug Reid	08/18/04 16:44

Semivolatile Organic Compounds by EPA Method 8270C

Waste Stream Technology Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
H5 (0-4) (4H09008-04) Soil Sampled: 08/09/04 00:00 Received: 08/09/04 16:45									
iethyl phthalate	ND	335	ug/kg dry	5	AH41105	08/11/04	08/18/04	8270	U
nitroaniline	ND	335	"	"	"	"	"	"	U
6-Dinitro-2-methylphenol	ND	650	"	"	"	"	"	"	U
nitrosodiphenylamine	ND	335	"	"	"	"	"	"	U
bromophenylphenylether	ND	335	"	"	"	"	"	"	U
xachlorobenzene	ND	335	"	"	"	"	"	"	U
ntachlorophenol	ND	650	"	"	"	"	"	"	U
ienanthrene	**5370**	335	"	"	"	"	"	"	
ithracene	**1240**	335	"	"	"	"	"	"	
rbazole	**542**	335	"	"	"	"	"	"	
-n-butyl phthalate	**149000**	3350	"	50	"	"	"	"	
nzidine	ND	1650	"	5	"	"	"	"	U
ioranthene	**6460**	335	"	"	"	"	"	"	
rene	**10100**	335	"	"	"	"	"	"	
ityl benzyl phthalate	ND	335	"	"	"	"	"	"	U
3'-Dichlorobenzidine	ND	335	"	"	"	"	"	"	U
nzo (a) anthracene	**3350**	335	"	"	"	"	"	"	
rysene	**3520**	335	"	"	"	"	"	"	
s(2-ethylhexyl)phthalate	**1220**	335	"	"	"	"	"	"	
-n-octyl phthalate	**3520**	335	"	"	"	"	"	"	
nzo (b) fluoranthene	**8510**	335	"	"	"	"	"	"	
nzo (k) fluoranthene	**2840**	335	"	"	"	"	"	"	
nzo (a) pyrene	**4040**	335	"	"	"	"	"	"	
deno (1,2,3-cd) pyrene	**2000**	335	"	"	"	"	"	"	
benz (a,h) anthracene	**759**	335	"	"	"	"	"	"	
nzo (g,h,i) perylene	**1930**	335	"	"	"	"	"	"	
rrogate: 2-Fluorophenol		*49.1 %*	*50-112*		"	"	"	"	
rrogate: Phenol-d6		*54.0 %*	*52-117*		"	"	"	"	
rrogate: Nitrobenzene-d5		*70.1 %*	*48-122*		"	"	"	"	
rrogate: 2-Fluorobiphenyl		*65.3 %*	*50-121*		"	"	"	"	
rrogate: 2,4,6-Tribromophenol		*75.7 %*	*50-132*		"	"	"	"	
rrogate: Terphenyl-d14		*128 %*	*36-134*		"	"	"	"	

Lender Consulting Service	Project: New York State Projects	
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Buffalo NY, 14205	Project Manager: Doug Reid	08/18/04 16:44

Semivolatile Organic Compounds by EPA Method 8270C

Waste Stream Technology Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
H6 (4-6) (4H09008-05) Soil Sampled: 08/09/04 00:00 Received: 08/09/04 16:45									
-Nitrosodimethylamine	ND	67	ug/kg dry	1	AH41105	08/11/04	08/18/04	8270	U
is(2-chloroethyl)ether	ND	67	"	"	"	"	"	"	U
henol	ND	130	"	"	"	"	"	"	U
-chlorophenol	ND	130	"	"	"	"	"	"	U
,3-dichlorobenzene	ND	67	"	"	"	"	"	"	U
.4-dichlorobenzene	ND	67	"	"	"	"	"	"	U
.2-dichlorobenzene	ND	67	"	"	"	"	"	"	U
is(2-chloroisopropyl)ether	ND	67	"	"	"	"	"	"	U
enzyl alcohol	ND	67	"	"	"	"	"	"	U
-methylphenol	ND	67	"	"	"	"	"	"	U
exachloroethane	ND	67	"	"	"	"	"	"	U
-Nitrosodi-n-propylamine	ND	67	"	"	"	"	"	"	U
& 4-methylphenol	ND	130	"	"	"	"	"	"	U
itrobenzene	ND	67	"	"	"	"	"	"	U
ophorone	ND	67	"	"	"	"	"	"	U
nitrophenol	ND	130	"	"	"	"	"	"	U
4-dimethylphenol	ND	130	"	"	"	"	"	"	U
is(2-chloroethoxy)methane	ND	67	"	"	"	"	"	"	U
enzoic acid	ND	330	"	"	"	"	"	"	U
4-dichlorophenol	ND	130	"	"	"	"	"	"	U
2,4-trichlorobenzene	ND	67	"	"	"	"	"	"	U
aphthalene	ND	67	"	"	"	"	"	"	U
chloroaniline	ND	67	"	"	"	"	"	"	U
exachlorobutadiene	ND	67	"	"	"	"	"	"	U
chloro-3-methylphenol	ND	130	"	"	"	"	"	"	U
methylnaphthalene	**88**	67	"	"	"	"	"	"	
exachlorocyclopentadiene	ND	130	"	"	"	"	"	"	U
4,6-trichlorophenol	ND	130	"	"	"	"	"	"	U
4,5-trichlorophenol	ND	67	"	"	"	"	"	"	U
chloronaphthalene	ND	67	"	"	"	"	"	"	U
nitroaniline	ND	67	"	"	"	"	"	"	U
enaphthylene	ND	67	"	"	"	"	"	"	U
imethyl phthalate	ND	67	"	"	"	"	"	"	U
6-dinitrotoluene	ND	67	"	"	"	"	"	"	U
enaphthene	ND	67	"	"	"	"	"	"	U
nitroaniline	ND	67	"	"	"	"	"	"	U
4-dinitrophenol	ND	130	"	"	"	"	"	"	U
benzofuran	ND	67	"	"	"	"	"	"	U
4-dinitrotoluene	ND	67	"	"	"	"	"	"	U
nitrophenol	ND	130	"	"	"	"	"	"	U
iorene	ND	67	"	"	"	"	"	"	U
Chlorophenyl phenyl ether	ND	67	"	"	"	"	"	"	U

ender Consulting Service	Project: New York State Projects	
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uffalo NY, 14205	Project Manager: Doug Reid	08/18/04 16:44

Semivolatile Organic Compounds by EPA Method 8270C

Waste Stream Technology Inc.

alyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
16 (4-6) (4H09008-05) Soil	**Sampled: 08/09/04 00:00**	**Received: 08/09/04 16:45**							
ethyl phthalate	ND	67	ug/kg dry	1	AH41105	08/11/04	08/18/04	8270	U
itroaniline	ND	67	"	"	"	"	"	"	U
-Dinitro-2-methylphenol	ND	130	"	"	"	"	"	"	U
itrosodiphenylamine	ND	67	"	"	"	"	"	"	U
romophenylphenylether	ND	67	"	"	"	"	"	"	U
achlorobenzene	ND	67	"	"	"	"	"	"	U
tachlorophenol	ND	130	"	"	"	"	"	"	U
enanthrene	**766**	67	"	"	"	"	"	"	
thracene	**142**	67	"	"	"	"	"	"	
bazole	ND	67	"	"	"	"	"	"	U
n-butyl phthalate	ND	67	"	"	"	"	"	"	U
zidine	ND	330	"	"	"	"	"	"	U
oranthene	**796**	67	"	"	"	"	"	"	
rene	**1880**	67	"	"	"	"	"	"	
tyl benzyl phthalate	ND	67	"	"	"	"	"	"	U
'-Dichlorobenzidine	ND	67	"	"	"	"	"	"	U
nzo (a) anthracene	**709**	67	"	"	"	"	"	"	
ysene	**706**	67	"	"	"	"	"	"	
(2-ethylhexyl)phthalate	**645**	67	"	"	"	"	"	"	
n-octyl phthalate	ND	67	"	"	"	"	"	"	U
nzo (b) fluoranthene	**785**	67	"	"	"	"	"	"	
nzo (k) fluoranthene	**259**	67	"	"	"	"	"	"	
nzo (a) pyrene	**475**	67	"	"	"	"	"	"	
leno (1,2,3-cd) pyrene	**189**	67	"	"	"	"	"	"	
enz (a.h) anthracene	ND	67	"	"	"	"	"	"	U
nzo (g,h,i) perylene	**233**	67	"	"	"	"	"	"	
rogate: 2-Fluorophenol		*73.6 %*	*50-112*		"	"	"	"	
rogate: Phenol-d6		*79.7 %*	*52-117*		"	"	"	"	
rogate: Nitrobenzene-d5		*83.7 %*	*48-122*		"	"	"	"	
rogate: 2-Fluorobiphenyl		*101 %*	*50-121*		"	"	"	"	
rogate: 2,4,6-Tribromophenol		*107 %*	*50-132*		"	"	"	"	
rogate: Terphenyl-d14		*206 %*	*36-134*		"	"	"	"	*S-04*

Lender Consulting Service	Project: New York State Projects	
P.O. Box 406	Project Number: Lender Consulting Service - 04B1552.22	**Reported:**
Buffalo NY, 14205	Project Manager: Doug Reid	08/18/04 16:44

Conventional Chemistry Parameters by APHA/EPA Methods

Waste Stream Technology Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SH1 (2-4) (4H09008-01) Soil	**Sampled: 08/09/04 00:00**	**Received: 08/09/04 16:45**							
% Solids	80.6	0.1	%	1	AH41101	08/10/04	08/11/04	% calculation	
SH2 (4-6) (4H09008-02) Soil	**Sampled: 08/09/04 00:00**	**Received: 08/09/04 16:45**							
% Solids	77.4	0.1	%	1	AH41101	08/10/04	08/11/04	% calculation	
SH3 (4-6) (4H09008-03) Soil	**Sampled: 08/09/04 00:00**	**Received: 08/09/04 16:45**							
% Solids	75.5	0.1	%	1	AH41101	08/10/04	08/11/04	% calculation	
SH5 (0-4) (4H09008-04) Soil	**Sampled: 08/09/04 00:00**	**Received: 08/09/04 16:45**							
% Solids	83.0	0.1	%	1	AH41101	08/10/04	08/11/04	% calculation	
SH6 (4-6) (4H09008-05) Soil	**Sampled: 08/09/04 00:00**	**Received: 08/09/04 16:45**							
% Solids	75.3	0.1	%	1	AH41101	08/10/04	08/11/04	% calculation	
SH7 (4-6) (4H09008-06) Soil	**Sampled: 08/09/04 00:00**	**Received: 08/09/04 16:45**							
% Solids	75.0	0.1	%	1	AH41101	08/10/04	08/11/04	% calculation	
SH8 (0-4) (4H09008-07) Soil	**Sampled: 08/09/04 00:00**	**Received: 08/09/04 16:45**							
% Solids	80.8	0.1	%	1	AH41101	08/10/04	08/11/04	% calculation	
SH9 (4-6) (4H09008-08) Soil	**Sampled: 08/09/04 00:00**	**Received: 08/09/04 16:45**							
% Solids	82.7	0.1	%	1	AH41101	08/10/04	08/11/04	% calculation	
SH10 (2-4) (4H09008-09) Soil	**Sampled: 08/09/04 00:00**	**Received: 08/09/04 16:45**							
% Solids	87.4	0.1	%	1	AH41101	08/10/04	08/11/04	% calculation	

Notes and Definitions

U	Analyte included in the analysis, but not detected
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.
AH41007-BLK1

Lab Name: Waste Stream Technology Contract: LCS

Project No.: 04B1552.22 Site: Location: Group: 4H09008

Matrix: (soil/water) soil Lab Sample ID: AH41007-BLK1

Sample wt/vol: 1.00 (g/mL) g Lab File ID: 0024275

Level: (low/med) low Date Received: na

% Moisture: not dec. na Date Analyzed: 08/10/04

GC Column: Rtx 502.2 ID: 0.18 (mm) Dilution Factor: na

Soil Extract Volume: na (uL) Soil Aliquot Volume: na (uL)

Number TICs found: 1 Concentration Units: (ug/L or ug/Kg) µg/Kg

	CAS Number	Compound Name	RT	Est. Conc.	Q
1.	000075-09-2	Methylene Chloride	3.45	32	J
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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.
BH1(2-4)

Lab Name: Waste Stream Technology Contract: LCS

Project No.: 04B1552.22 Site: _____ Location: _____ Group: 4H09008

Matrix: (soil/water) soil Lab Sample ID: 4H09008-01

Sample wt/vol: 1.05 (g/mL) g Lab File ID: 0024276

Level: (low/med) low Date Received: 08/09/04

% Moisture: not dec. 19.4 Date Analyzed: 08/10/04

GC Column: Rtx 502.2 ID: 0.18 (mm) Dilution Factor: na

Soil Extract Volume: na (uL) Soil Aliquot Volume: na (uL)

Number TICs found: 1 Concentration Units: (ug/L or ug/Kg) µg/Kg

CAS Number	Compound Name	RT	Est. Conc.	Q
1. 000075-09-2	Methylene Chloride	3.45	26	J, B
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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.
BH2(4-6)

Lab Name: Waste Stream Technology Contract: LCS

Project No.: 04B1552.22 Site: Location: Group: 4H09008

Matrix: (soil/water) soil Lab Sample ID: 4H09008-02

Sample wt/vol: 1.13 (g/mL) g Lab File ID: 0024279

Level: (low/med) low Date Received: 08/09/04

% Moisture: not dec. 22.6 Date Analyzed: 08/10/04

GC Column: Rtx 502.2 ID: 0.18 (mm) Dilution Factor: na

Soil Extract Volume: na (uL) Soil Aliquot Volume: na (uL)

Number TICs found: 10 Concentration Units: (ug/L or ug/Kg) µg/Kg

CAS Number	Compound Name	RT	Est. Conc.	Q
1.	Cyclopentane, 1,2-dimethyl isom	6.94	231	J
2.	Substituted Cyclopentane	8.01	139	J
3.	Cyclopentane, 1,2,4-trimethyl isc	8.55	121	J
4.	Substituted Hydrocarbon	8.88	120	J
5.	Unknown	10.14	138	J
6.	Cyclohexane, dimethyl isomer	10.94	121	J
7.	Cyclohexane, trimethyl isomer	12.20	169	J
8.	Benzene, diethyl isomer	19.88	202	J
9.	Benzene, methyl-propyl isomer	20.47	120	J
10.	Benzene, tetramethyl isomer	21.84	140	J
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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.
BH3(4-6)

Lab Name: Waste Stream Technology Contract: LCS

Project No.: 04B1552.22 Site: Location: Group: 4H09008

Matrix: (soil/water) soil Lab Sample ID: 4H09008-03

Sample wt/vol: 1.02 (g/mL) g Lab File ID: 0024280

Level: (low/med) low Date Received: 08/09/04

% Moisture: not dec. 24.5 Date Analyzed: 08/10/04

GC Column: Rtx 502.2 ID: 0.18 (mm) Dilution Factor: na

Soil Extract Volume: na (uL) Soil Aliquot Volume: na (uL)

Number TICs found: 10 Concentration Units: (ug/L or ug/Kg) µg/Kg

CAS Number	Compound Name	RT	Est. Conc.	Q
1. 000079-29-8	Butane, 2,3-dimethyl-	3.23	49	J
2. 000075-09-2	Methylene Chloride	3.47	32	J, B
3. 000110-54-3	Hexane	3.92	20	J
4.	Unknown Hydrocarbon	10.95	29	J
5.	Benzene, diethyl isomer	19.88	44	J
6.	Benzene, methyl-propyl isomer	20.47	20	J
7.	Unknown Hydrocarbon	21.41	62	J
8.	Benzene, tetramethyl isomer	21.84	47	J
9.	Unknown Hydrocarbon	22.67	44	J
10.	Unknown	23.10	33	J
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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.
BH7(4-6)

Lab Name: Waste Stream Technology Contract: LCS

Project No.: 04B1552.22 Site: Location: Group: 4H09008

Matrix: (soil/water) soil Lab Sample ID: 4H09008-06

Sample wt/vol: 1.01 (g/mL) g Lab File ID: 0024283

Level: (low/med) low Date Received: 08/09/04

% Moisture: not dec. 25.0 Date Analyzed: 08/10/04

GC Column: Rtx 502.2 ID: 0.18 (mm) Dilution Factor: na

Soil Extract Volume: na (uL) Soil Aliquot Volume: na (uL)

Number TICs found: 8 Concentration Units: (ug/L or ug/Kg) µg/Kg

	CAS Number	Compound Name	RT	Est. Conc.	Q
1.	000075-09-2	Methylene Chloride	3.46	41	J, B
2.	000110-54-3	Hexane	3.92	21	J
3.	000064-19-7	Acetic Acid	7.34	25	J
4.	004516-69-2	Cyclopentane, 1,1,3-trimethyl-	7.99	37	J
5.	000108-87-2	Cyclohexane, methyl-	8.31	31	J
6.		Cyclopentane, trimethyl isomer	8.56	31	J
7.		Unknown hydrocarbon	9.63	21	J
8.		Cyclohexane, dimethyl isomer	10.95	26	J
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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.
BH8(0-4)

Lab Name: Waste Stream Technology Contract: LCS

Project No.: 04B1552.22 Site: Location: Group: 4H09008

Matrix: (soil/water) soil Lab Sample ID: 4H09008-07

Sample wt/vol: 1.05 (g/mL) g Lab File ID: 0024284

Level: (low/med) low Date Received: 08/09/04

% Moisture: not dec. 19.2 Date Analyzed: 08/10/04

GC Column: Rtx 502.2 ID: 0.18 (mm) Dilution Factor: na

Soil Extract Volume: na (uL) Soil Aliquot Volume: na (uL)

Number TICs found: 10 Concentration Units: (ug/L or ug/Kg) µg/Kg

CAS Number	Compound Name	RT	Est. Conc.	Q
1. 000075-09-2	Methylene Chloride	3.46	36	J, B
2. 000110-54-3	Hexane	3.91	26	J
3. 000064-19-7	Acetic Acid	7.57	24	J
4.	Unknown	7.99	29	J
5.	Unknown	9.60	24	J
6.	Cyclohexane, dimethyl isomer	10.14	68	J
7.	Cyclohexane, dimethyl isomer	10.93	50	J
8.	Cyclohexane, dimethyl isomer	11.22	24	J
9.	Unknown hydrocarbon	12.20	30	J
10. 001678-91-7	Cyclohexane, ethyl-	12.28	24	J
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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.
BH9(4-6)

Lab Name: Waste Stream Technology Contract: LCS

Project No.: 04B1552.22 Site: Location: Group: 4H09008

Matrix: (soil/water) soil Lab Sample ID: 4H09008-08

Sample wt/vol: 1.00 (g/mL) g Lab File ID: 0024285

Level: (low/med) low Date Received: 08/09/04

% Moisture: not dec. 17.3 Date Analyzed: 08/10/04

GC Column: Rtx 502.2 ID: 0.18 (mm) Dilution Factor: na

Soil Extract Volume: na (uL) Soil Aliquot Volume: na (uL)

Number TICs found: 2 Concentration Units: (ug/L or ug/Kg) µg/Kg

	CAS Number	Compound Name	RT	Est. Conc.	Q
1.	000075-09-2	Methylene Chloride	3.46	36	J, B
2.	000079-01-6	Trichloroethylene	8.20	56	J
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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.
BH10(2-4)

Lab Name: Waste Stream Technology Contract: LCS

Project No.: 04B1552.22 Site: Location: Group: 4H09008

Matrix: (soil/water) soil Lab Sample ID: 4H09008-09

Sample wt/vol: 1.08 (g/mL) g Lab File ID: 0024286

Level: (low/med) low Date Received: 08/09/04

% Moisture: not dec. 12.6 Date Analyzed: 08/10/04

GC Column: Rtx 502.2 ID: 0.18 (mm) Dilution Factor: na

Soil Extract Volume: na (uL) Soil Aliquot Volume: na (uL)

Number TICs found: 10 Concentration Units: (ug/L or ug/Kg) ug/Kg

	CAS Number	Compound Name	RT	Est. Conc.	Q
1.	000107-83-5	Pentane, 2-methyl-	3.24	847	J
2.	000096-14-0	Pentane, 3-methyl-	3.56	602	J
3.	000591-76-4	Hexane, 2-methyl-	5.78	1030	J
4.	000589-34-4	Hexane, 3-methyl-	6.12	2240	J
5.	000589-43-5	Hexane, 2,4-dimethyl-	8.01	813	J
6.		Substituted Alkane	9.07	727	J
7.		Substituted Alkane	9.26	702	J
8.	000589-81-1	Heptane, 3-methyl-	9.50	1740	J
9.		Cyclohexane, dimethyl isomer	10.13	712	J
10.		Benzene, ethyl-dimethyl isomer	20.99	549	J
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

Lab Name: WASTE STREAM TECHNOLOGY Contract:

Project No.: LCS Site: Location: BH7 (4-6) Group: 4H09008

Matrix: (soil/water) SOIL Lab Sample ID: 4H09008-06

Sample wt/vol: 30.0 (g/mL) g Lab File ID: 0017224.D

Level: (low/med) LOW Date Received: 8/9/2004

% Moisture: 25 decanted: (Y/N) N Date Extracted: 8/11/2004

Concentrated Extract Volume: 1 (ML) Date Analyzed: 8/11/2004

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

Number TICs found: 0 Concentration Units: (ug/L or ug/Kg) ug/Kg

CAS Number	Compound Name	RT	Est. Conc.	Q
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

Lab Name: WASTE STREAM TECHNOLOGY Contract:

Project No.: LCS Site: Location: BH8 (0-4) Group: 4H09008

Matrix: (soil/water) SOIL Lab Sample ID: 4H09008-07

Sample wt/vol: 30.1 (g/mL) g Lab File ID: 0017222.D

Level: (low/med) LOW Date Received: 8/9/2004

% Moisture: 19.2 decanted: (Y/N) N Date Extracted: 8/11/2004

Concentrated Extract Volume: 1 (ML) Date Analyzed: 8/11/2004

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

Number TICs found: 0 Concentration Units: (ug/L or ug/Kg) ug/Kg

CAS Number	Compound Name	RT	Est. Conc.	Q
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SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: WASTE STREAM TECHNOLOGY Contract:

Project No.: LCS Site: Location: BH10 (2-116) Group: 4H09008

Matrix: (soil/water) SOIL Lab Sample ID: 4H09008-09

Sample wt/vol: 30.1 (g/mL) g Lab File ID: 0018431.D

Level: (low/med) LOW Date Received: 8/9/2004

% Moisture: 12.6 decanted: (Y/N) N Date Extracted: 8/11/2004

Concentrated Extract Volume: 1 (ML) Date Analyzed: 8/12/2004

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

Number TICs found: 20 Concentration Units: (ug/L or ug/Kg) ug/Kg

CAS Number	Compound Name	RT	Est. Conc.	Q
1.	UNKNOWN	3.11	6250	J
2.	BENZENE, DIETHYL ISOMER	3.39	1520	J
3.	BENZENE, 1,2,4,5- TETRAMETH	3.72	357	J
4.	UNKNOWN	3.80	381	J
5.	UNKNOWN	3.85	344	J
6.	UNKNOWN AROMATIC	3.90	411	J
7.	UNKNOWN	4.31	571	J
8.	UNKNOWN	4.56	271	J
9.	UNKNOWN	4.46	462	J
10.	UNKNOWN	4.77	508	J
11.	UNKNOWN	5.18	301	J
12.	NAPHTHALENE, DIMETHYL ISO	5.24	607	J
13.	NAPHTHALENE, DIMETHYL ISO	5.33	1510	J
14.	NAPHTHALENE, TRIMETHYL IS	5.88	530	J
15.	NAPHTHALENE, TRIMETHYL IS	6.03	291	J
16.	UNKNOWN PAH	8.01	296	J
17.	UNKNOWN	8.39	5630	J
18.	UNKNOWN PAH	16.84	1390	J
19.	UNKNOWN	18.28	343	J
20.	UNKNOWN	20.76	349	J
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TECHNOLOGY

Waste Stream Technology Inc.
302 Grote Street, Buffalo, NY 14207
(716) 876-5290 • FAX (716) 876-2412

REPORT TO: LCS

CONTACT: Dana Reid
PH. # ( ) 875-6115
FAX # ( ) 875-6164
BILL TO: LCS
PO#
04 BFS 1552.01
PROJECT DESCRIPTION
SAMPLER SIGNATURE [signature]

GROUP # 4H09008
DUE DATE

DW DRINKING WATER
GW GROUND WATER
SW SURFACE WATER
WW WASTE WATER
O OIL
SL SLUDGE
SO SOIL
S SOLID
W WIPE
OTHER

TURN AROUND TIME: 5BD
QUOTATION NUMBER:

ARE SPECIAL DETECTION LIMITS REQUIRED: YES (NO) STD
If yes please attach requirements.

Is a QC Package required: YES (NO) Elec...
If yes please attach requirements

ANALYSES TO BE PERFORMED

	SAMPLE I.D.	DATE SAMPLED	TIME OF SAMPLING	SAMPLE TYPE	TOTAL NO. OF CONTAINERS	8260 STARS list	8270 STARS list	RCRA Metals	PCBs							TYPE OF CONTAINER/ COMMENTS:	OFFICE USE ONLY WST. I.D.
1	BH1 (2-4)	8/9/04		SO	1	X										2oz	01
2	BH2 (4-6)				1	X										2oz	02
3	BH3 (4-6)				1	X										2oz	03
4	BH5 (0-2)				3	X	X	X	X							2,4,8 oz	04
5	BH6 (4-6)				3	X	X	X	X							2,4,8 oz	05
6	BH7 (4-6)				2	X	X									2,4 oz	06
7	BH8 (0-4)				2	X	X									2,4 oz	07
8	BH9 (4-6)				1	X										2oz	08
9	BH10 (2-4)	8/9/04		SO	2	X	X									2,4 oz	09
10																	

REMARKS:

RELINQUISHED BY:	DATE:	TIME:	RECEIVED BY:	DATE:	TIME:
[signature]	8/9/04	4:45	[signature]	8/9/04	4:45
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WASTE STREAM TECHNOLOGY, INC.

302 Grote Street
Buffalo, NY 14207
(716) 876-5290

Analytical Data Report
Report Date: 08/24/04
Work Order Number: 4H11024

Prepared For
Doug Reid
Lender Consulting Service
P.O. Box 406
Buffalo, NY 14205
Fax: (716) 845-6164

Site: 177 & 255 Great Arrow - 04B1552.22

Enclosed are the results of analyses for samples received by the laboratory on 08/11/04. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Brian S. Schepart, Ph.D., Laboratory Director

ENVIRONMENTAL LABORATORY ACCREDITATION CERTIFICATION NUMBERS
NYSDOH ELAP #11179 NJDEPE #73977 PADEP #68757

Lender Consulting Service	Project: New York State Projects	
P.O. Box 406	Project Number: 177 & 255 Great Arrow - 04B1552.22	**Reported:**
Buffalo NY, 14205	Project Manager: Doug Reid	08/24/04 15:37

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH11 (4-6)	4H11024-01	Soil	08/09/04 00:00	08/11/04 15:20
BH12 (2-4)	4H11024-02	Soil	08/09/04 00:00	08/11/04 15:20
BH13 (6-8)	4H11024-03	Soil	08/09/04 00:00	08/11/04 15:20
BH15 (4-6)	4H11024-04	Soil	08/09/04 00:00	08/11/04 15:20
BH16 (4-6)	4H11024-05	Soil	08/09/04 00:00	08/11/04 15:20
BH17 (6-8)	4H11024-06	Soil	08/09/04 00:00	08/11/04 15:20
BH19 (8-10)	4H11024-07	Soil	08/09/04 00:00	08/11/04 15:20

Lender Consulting Service	Project: New York State Projects	
P.O. Box 406	Project Number: 177 & 255 Great Arrow - 04B1552.22	**Reported:**
Buffalo NY, 14205	Project Manager: Doug Reid	08/24/04 15:37

Volatile Organic Compounds by EPA Method 8260B

Waste Stream Technology Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SH11 (4-6) (4H11024-01) Soil Sampled: 08/09/04 00:00 Received: 08/11/04 15:20									
Methyl tert-butyl ether	ND	10	ug/kg dry	1	AH41703	08/13/04	08/17/04	8260	U
Benzene	ND	10	"	"	"	"	"	"	U
Toluene	ND	10	"	"	"	"	"	"	U
Ethylbenzene	ND	10	"	"	"	"	"	"	U
m,p-xylene	ND	20	"	"	"	"	"	"	U
o-xylene	ND	10	"	"	"	"	"	"	U
Isopropylbenzene	ND	10	"	"	"	"	"	"	U
n-propylbenzene	ND	10	"	"	"	"	"	"	U
1,3,5-trimethylbenzene	ND	10	"	"	"	"	"	"	U
tert-butylbenzene	ND	10	"	"	"	"	"	"	U
1,2,4-trimethylbenzene	ND	10	"	"	"	"	"	"	U
sec-butylbenzene	ND	10	"	"	"	"	"	"	U
p-isopropyltoluene	ND	10	"	"	"	"	"	"	U
n-butylbenzene	ND	10	"	"	"	"	"	"	U
Naphthalene	ND	10	"	"	"	"	"	"	U
Surrogate: 1,2-Dichloroethane-d4		*80.0 %*	*69-132*		"	"	"	"	
Surrogate: Toluene-d8		*80.7 %*	*81-121*		"	"	"	"	
Surrogate: Bromofluorobenzene		*88.3 %*	*83-121*		"	"	"	"	
SH12 (2-4) (4H11024-02) Soil Sampled: 08/09/04 00:00 Received: 08/11/04 15:20									
Methyl tert-butyl ether	ND	10	ug/kg dry	1	AH41703	08/13/04	08/17/04	8260	U
Benzene	ND	10	"	"	"	"	"	"	U
Toluene	ND	10	"	"	"	"	"	"	U
Ethylbenzene	ND	10	"	"	"	"	"	"	U
m,p-xylene	ND	20	"	"	"	"	"	"	U
o-xylene	ND	10	"	"	"	"	"	"	U
Isopropylbenzene	ND	10	"	"	"	"	"	"	U
n-propylbenzene	ND	10	"	"	"	"	"	"	U
1,3,5-trimethylbenzene	ND	10	"	"	"	"	"	"	U
tert-butylbenzene	ND	10	"	"	"	"	"	"	U
1,2,4-trimethylbenzene	ND	10	"	"	"	"	"	"	U
sec-butylbenzene	ND	10	"	"	"	"	"	"	U
p-isopropyltoluene	ND	10	"	"	"	"	"	"	U
n-butylbenzene	ND	10	"	"	"	"	"	"	U
Naphthalene	ND	10	"	"	"	"	"	"	U
Surrogate: 1,2-Dichloroethane-d4		*83.3 %*	*69-132*		"	"	"	"	
Surrogate: Toluene-d8		*86.3 %*	*81-121*		"	"	"	"	
Surrogate: Bromofluorobenzene		*90.3 %*	*83-121*		"	"	"	"	

Lender Consulting Service	Project: New York State Projects	
P.O. Box 406	Project Number: 177 & 255 Great Arrow - 04B1552.22	**Reported:**
Buffalo NY, 14205	Project Manager: Doug Reid	08/24/04 15:37

Volatile Organic Compounds by EPA Method 8260B

Waste Stream Technology Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
H13 (6-8) (4H11024-03) Soil Sampled: 08/09/04 00:00 Received: 08/11/04 15:20									
Methyl tert-butyl ether	ND	9	ug/kg dry	1	AH41703	08/13/04	08/17/04	8260	U
Benzene	ND	9	"	"	"	"	"	"	U
Toluene	ND	9	"	"	"	"	"	"	U
Ethylbenzene	ND	9	"	"	"	"	"	"	U
m,p-xylene	ND	18	"	"	"	"	"	"	U
o-xylene	ND	9	"	"	"	"	"	"	U
Isopropylbenzene	ND	9	"	"	"	"	"	"	U
n-propylbenzene	ND	9	"	"	"	"	"	"	U
1,3,5-trimethylbenzene	ND	9	"	"	"	"	"	"	U
tert-butylbenzene	ND	9	"	"	"	"	"	"	U
1,2,4-trimethylbenzene	ND	9	"	"	"	"	"	"	U
sec-butylbenzene	ND	9	"	"	"	"	"	"	U
p-isopropyltoluene	ND	9	"	"	"	"	"	"	U
n-butylbenzene	ND	9	"	"	"	"	"	"	U
Naphthalene	ND	9	"	"	"	"	"	"	U
Surrogate: 1,2-Dichloroethane-d4		*98.7 %*	*69-132*		"	"	"	"	
Surrogate: Toluene-d8		*103 %*	*81-121*		"	"	"	"	
Surrogate: Bromofluorobenzene		*105 %*	*83-121*		"	"	"	"	
H15 (4-6) (4H11024-04) Soil Sampled: 08/09/04 00:00 Received: 08/11/04 15:20									
Methyl tert-butyl ether	ND	10	ug/kg dry	1	AH41703	08/13/04	08/17/04	8260	U
Benzene	ND	10	"	"	"	"	"	"	U
Toluene	ND	10	"	"	"	"	"	"	U
Ethylbenzene	ND	10	"	"	"	"	"	"	U
m,p-xylene	ND	20	"	"	"	"	"	"	U
o-xylene	ND	10	"	"	"	"	"	"	U
Isopropylbenzene	ND	10	"	"	"	"	"	"	U
n-propylbenzene	ND	10	"	"	"	"	"	"	U
1,3,5-trimethylbenzene	ND	10	"	"	"	"	"	"	U
tert-butylbenzene	ND	10	"	"	"	"	"	"	U
1,2,4-trimethylbenzene	ND	10	"	"	"	"	"	"	U
sec-butylbenzene	ND	10	"	"	"	"	"	"	U
p-isopropyltoluene	ND	10	"	"	"	"	"	"	U
n-butylbenzene	ND	10	"	"	"	"	"	"	U
Naphthalene	ND	10	"	"	"	"	"	"	U
Surrogate: 1,2-Dichloroethane-d4		*109 %*	*69-132*		"	"	"	"	
Surrogate: Toluene-d8		*106 %*	*81-121*		"	"	"	"	
Surrogate: Bromofluorobenzene		*101 %*	*83-121*		"	"	"	"	

Lender Consulting Service	Project: New York State Projects	
P.O. Box 406	Project Number: 177 & 255 Great Arrow - 04B1552.22	**Reported:**
Buffalo NY, 14205	Project Manager: Doug Reid	08/24/04 15:37

Volatile Organic Compounds by EPA Method 8260B

Waste Stream Technology Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
H16 (4-6) (4H11024-05) Soil Sampled: 08/09/04 00:00 Received: 08/11/04 15:20									
Methyl tert-butyl ether	ND	10	ug/kg dry	1	AH41703	08/13/04	08/17/04	8260	U
Benzene	ND	10	"	"	"	"	"	"	U
Toluene	ND	10	"	"	"	"	"	"	U
Ethylbenzene	ND	10	"	"	"	"	"	"	U
m,p-xylene	ND	20	"	"	"	"	"	"	U
o-xylene	ND	10	"	"	"	"	"	"	U
Isopropylbenzene	ND	10	"	"	"	"	"	"	U
n-propylbenzene	ND	10	"	"	"	"	"	"	U
1,3,5-trimethylbenzene	ND	10	"	"	"	"	"	"	U
tert-butylbenzene	ND	10	"	"	"	"	"	"	U
1,2,4-trimethylbenzene	ND	10	"	"	"	"	"	"	U
sec-butylbenzene	ND	10	"	"	"	"	"	"	U
p-isopropyltoluene	ND	10	"	"	"	"	"	"	U
n-butylbenzene	ND	10	"	"	"	"	"	"	U
Naphthalene	ND	10	"	"	"	"	"	"	U
Surrogate: 1,2-Dichloroethane-d4		*110 %*	*69-132*		"	"	"	"	
Surrogate: Toluene-d8		*103 %*	*81-121*		"	"	"	"	
Surrogate: Bromofluorobenzene		*100 %*	*83-121*		"	"	"	"	
H17 (6-8) (4H11024-06) Soil Sampled: 08/09/04 00:00 Received: 08/11/04 15:20									
Methyl tert-butyl ether	ND	10	ug/kg dry	1	AH41703	08/13/04	08/17/04	8260	U
Benzene	ND	10	"	"	"	"	"	"	U
Toluene	ND	10	"	"	"	"	"	"	U
Ethylbenzene	**59**	10	"	"	"	"	"	"	
m,p-xylene	ND	20	"	"	"	"	"	"	U
o-xylene	ND	10	"	"	"	"	"	"	U
Isopropylbenzene	**26**	10	"	"	"	"	"	"	
n-propylbenzene	**110**	10	"	"	"	"	"	"	
1,3,5-trimethylbenzene	**75**	10	"	"	"	"	"	"	
tert-butylbenzene	ND	10	"	"	"	"	"	"	U
1,2,4-trimethylbenzene	**233**	10	"	"	"	"	"	"	
sec-butylbenzene	**28**	10	"	"	"	"	"	"	
p-isopropyltoluene	**13**	10	"	"	"	"	"	"	
n-butylbenzene	**80**	10	"	"	"	"	"	"	
Naphthalene	**36**	10	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*93.7 %*	*69-132*		"	"	"	"	
Surrogate: Toluene-d8		*91.0 %*	*81-121*		"	"	"	"	
Surrogate: Bromofluorobenzene		*101 %*	*83-121*		"	"	"	"	

ender Consulting Service .O. Box 406 Buffalo NY, 14205	Project: New York State Projects Project Number: 177 & 255 Great Arrow - 04B1552.22 Project Manager: Doug Reid	**Reported:** 08/24/04 15:37

Volatile Organic Compounds by EPA Method 8260B

Waste Stream Technology Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
H19 (8-10) (4H11024-07) Soil	**Sampled: 08/09/04 00:00**	**Received: 08/11/04 15:20**							
ethyl tert-butyl ether	ND	10	ug/kg dry	1	AH41703	08/13/04	08/17/04	8260	U
nzene	ND	10	"	"	"	"	"	"	U
luene	ND	10	"	"	"	"	"	"	U
ylbenzene	ND	10	"	"	"	"	"	"	U
p-xylene	ND	20	"	"	"	"	"	"	U
xylene	ND	10	"	"	"	"	"	"	U
opropylbenzene	ND	10	"	"	"	"	"	"	U
propylbenzene	ND	10	"	"	"	"	"	"	U
3,5-trimethylbenzene	ND	10	"	"	"	"	"	"	U
rt-butylbenzene	ND	10	"	"	"	"	"	"	U
2,4-trimethylbenzene	ND	10	"	"	"	"	"	"	U
c-butylbenzene	ND	10	"	"	"	"	"	"	U
isopropyltoluene	ND	10	"	"	"	"	"	"	U
butylbenzene	ND	10	"	"	"	"	"	"	U
phthalene	ND	10	"	"	"	"	"	"	U
rrogate: 1,2-Dichloroethane-d4		*92.3 %*	*69-132*		"	"	"	"	
rrogate: Toluene-d8		*83.7 %*	*81-121*		"	"	"	"	
rrogate: Bromofluorobenzene		*101 %*	*83-121*		"	"	"	"	

Lender Consulting Service P.O. Box 406 Buffalo NY, 14205	Project: New York State Projects Project Number: 177 & 255 Great Arrow - 04B1552.22 Project Manager: Doug Reid	**Reported:** 08/24/04 15:37

Semivolatile Organic Compounds by EPA Method 8270C

Waste Stream Technology Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BH17 (6-8) (4H11024-06) Soil	**Sampled: 08/09/04 00:00**	**Received: 08/11/04 15:20**							
naphthalene	ND	67	ug/kg dry	1	AH41727	08/17/04	08/18/04	8270	U
anthracene	ND	67	"	"	"	"	"	"	U
acenaphthene	ND	67	"	"	"	"	"	"	U
Acenaphthylene	ND	67	"	"	"	"	"	"	U
Benzo (a) anthracene	306	67	"	"	"	"	"	"	
Benzo (b) fluoranthene	276	67	"	"	"	"	"	"	
Benzo (k) fluoranthene	308	67	"	"	"	"	"	"	
Benzo (g,h,i) perylene	291	67	"	"	"	"	"	"	
Benzo (a) pyrene	299	67	"	"	"	"	"	"	
chrysene	322	67	"	"	"	"	"	"	
Dibenz (a,h) anthracene	83	67	"	"	"	"	"	"	
fluoranthene	636	67	"	"	"	"	"	"	
fluorene	ND	67	"	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	220	67	"	"	"	"	"	"	
phenanthrene	261	67	"	"	"	"	"	"	
pyrene	601	67	"	"	"	"	"	"	
Surrogate: Nitrobenzene-d5		*89.6 %*	*48-122*		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		*92.9 %*	*50-121*		"	"	"	"	
Surrogate: Terphenyl-d14		*108 %*	*36-134*		"	"	"	"	

Lender Consulting Service P.O. Box 406 Buffalo NY, 14205	Project: New York State Projects Project Number: 177 & 255 Great Arrow - 04B1552.22 Project Manager: Doug Reid	**Reported:** 08/24/04 15:37

Conventional Chemistry Parameters by APHA/EPA Methods

Waste Stream Technology Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
H11 (4-6) (4H11024-01) Soil	**Sampled: 08/09/04 00:00**	**Received: 08/11/04 15:20**							
% Solids	79.2	0.1	%	1	AH41805	08/17/04	08/18/04	% calculation	
H12 (2-4) (4H11024-02) Soil	**Sampled: 08/09/04 00:00**	**Received: 08/11/04 15:20**							
% Solids	81.2	0.1	%	1	AH41805	08/17/04	08/18/04	% calculation	
H13 (6-8) (4H11024-03) Soil	**Sampled: 08/09/04 00:00**	**Received: 08/11/04 15:20**							
% Solids	82.9	0.1	%	1	AH41805	08/17/04	08/18/04	% calculation	
H15 (4-6) (4H11024-04) Soil	**Sampled: 08/09/04 00:00**	**Received: 08/11/04 15:20**							
% Solids	88.7	0.1	%	1	AH41805	08/17/04	08/18/04	% calculation	
H16 (4-6) (4H11024-05) Soil	**Sampled: 08/09/04 00:00**	**Received: 08/11/04 15:20**							
% Solids	79.5	0.1	%	1	AH41805	08/17/04	08/18/04	% calculation	
H17 (6-8) (4H11024-06) Soil	**Sampled: 08/09/04 00:00**	**Received: 08/11/04 15:20**							
% Solids	83.3	0.1	%	1	AH41805	08/17/04	08/18/04	% calculation	
H19 (8-10) (4H11024-07) Soil	**Sampled: 08/09/04 00:00**	**Received: 08/11/04 15:20**							
% Solids	84.2	0.1	%	1	AH41805	08/17/04	08/18/04	% calculation	

Lender Consulting Service	Project: New York State Projects	
P.O. Box 406	Project Number: 177 & 255 Great Arrow - 04B1552.22	**Reported:**
Buffalo NY, 14205	Project Manager: Doug Reid	08/24/04 15:37

Notes and Definitions

U	Analyte included in the analysis, but not detected
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.
AH41703-BLK1

Lab Name: Waste Stream Technology Contract: LCS

Project No.: 04B15522.22 Site: Great Arrow Location: Group: 4H11024

Matrix: (soil/water) soil Lab Sample ID: AH41703-BLK1

Sample wt/vol: 1.00 (g/mL) g Lab File ID: 0024350

Level: (low/med) low Date Received: na

% Moisture: not dec. na Date Analyzed: 08/17/04

GC Column: Rtx 502.2 ID: 0.18 (mm) Dilution Factor: na

Soil Extract Volume: na (uL) Soil Aliquot Volume: na (uL)

Number TICs found: 4 Concentration Units: (ug/L or ug/Kg) ug/Kg

	CAS Number	Compound Name	RT	Est. Conc.	Q
1.	000075-09-2	Methylene Chloride	3.43	49	J
2.	000110-54-3	Hexane	3.90	46	J
3.	000629-59-4	Tetradecane	24.17	27	J
4.		Unknown Alkane	24.69	21	J
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
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23.					
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28.					
29.					
30.					

1E

SAMPLE NO.

BH11 (4-6)

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Waste Stream Technology Contract: LCS

Project No.: 04B15522.22 Site: Great Arrow Location: Group: 4H11024

Matrix: (soil/water) soil Lab Sample ID: 4H11024-01

Sample wt/vol: 1.02 (g/mL) g Lab File ID: 0024353

Level: (low/med) low Date Received: 08/11/04

% Moisture: not dec. 20.8 Date Analyzed: 08/17/04

GC Column: Rtx 502.2 ID: 0.18 (mm) Dilution Factor: na

Soil Extract Volume: na (uL) Soil Aliquot Volume: na (uL)

Number TICs found: 10 Concentration Units: (ug/L or ug/Kg) µg/Kg

CAS Number	Compound Name	RT	Est. Conc.	Q
1. 000075-09-2	Methylene Chloride	3.44	78	J, B
2. 000110-54-3	Hexane	3.89	42	J
3.	Substituted Alkane	6.42	44	J
4.	Substituted Hexane	7.98	20	J
5.	Substituted Hexane	8.76	29	J
6.	Unknown Aromatic	22.42	34	J
7.	Unknown Alkane	22.83	43	J
8.	Unknown	23.52	38	J
9.	Substituted Benzene	23.96	21	J
10.	Unknown Alkane	24.73	33	J
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
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20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

1E

SAMPLE NO.

BH12 (2-4)

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Waste Stream Technology Contract: LCS

Project No.: 04B15522.22 Site: Great Arrow Location: Group: 4H11024

Matrix: (soil/water) soil Lab Sample ID: 4H11024-02

Sample wt/vol: 1.09 (g/mL) g Lab File ID: 0024354

Level: (low/med) low Date Received: 08/11/04

% Moisture: not dec. 18.8 Date Analyzed: 08/17/04

GC Column: Rtx 502.2 ID: 0.18 (mm) Dilution Factor: na

Soil Extract Volume: na (uL) Soil Aliquot Volume: na (uL)

Number TICs found: 10 Concentration Units: (ug/L or ug/Kg) µg/Kg

	CAS Number	Compound Name	RT	Est. Conc.	Q
1.	000075-09-2	Methylene Chloride	3.44	60	J, B
2.		Substituted Alkane	6.42	89	J
3.	000592-13-2	Hexane, 2,5-dimethyl-	7.88	54	J
4.	000565-75-3	Pentane, 2,3,4-trimethyl-	8.77	61	J
5.		Heptane, dimethyl- isomer	11.59	46	J
6.		Substituted Aromatic	22.98	47	J
7.		Substituted Aromatic	23.06	42	J
8.		Substituted Aromatic	23.47	63	J
9.		1H-Indene, -dihydro-dimethyl isoı	23.83	59	J
10.		Substituted Aromatic	23.93	57	J
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

BH13 (6-8)

Lab Name: Waste Stream Technology Contract: LCS

Project No.: 04B15522.22 Site: Great Arrow Location: Group: 4H11024

Matrix: (soil/water) soil Lab Sample ID: 4H11024-03

Sample wt/vol: 1.13 (g/mL) g Lab File ID: 0024355

Level: (low/med) low Date Received: 08/11/04

% Moisture: not dec. 17.1 Date Analyzed: 08/17/04

GC Column: Rtx 502.2 ID: 0.18 (mm) Dilution Factor: na

Soil Extract Volume: na (uL) Soil Aliquot Volume: na (uL)

Number TICs found: 1 Concentration Units: (ug/L or ug/Kg) µg/Kg

CAS Number	Compound Name	RT	Est. Conc.	Q
1. 000075-09-2	Methylene Chloride	3.44	55	J, B
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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.
BH15 (4-6)

Lab Name: Waste Stream Technology Contract: LCS

Project No.: 04B15522.22 Site: Great Arrow Location: Group: 4H11024

Matrix: (soil/water) soil Lab Sample ID: 4H11024-04

Sample wt/vol: 1.06 (g/mL) g Lab File ID: 0024356

Level: (low/med) low Date Received: 08/11/04

% Moisture: not dec. 11.3 Date Analyzed: 08/17/04

GC Column: Rtx 502.2 ID: 0.18 (mm) Dilution Factor: na

Soil Extract Volume: na (uL) Soil Aliquot Volume: na (uL)

Number TICs found: 1 Concentration Units: (ug/L or ug/Kg) µg/Kg

CAS Number	Compound Name	RT	Est. Conc.	Q
1. 000075-09-2	Methylene Chloride	3.44	55	J, B
2.				
3.				
4.				
5.				
6.				
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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

BH16 (4-6)

Lab Name: Waste Stream Technology Contract: LCS

Project No.: 04B15522.22 Site: Great Arrow Location: Group: 4H11024

Matrix: (soil/water) soil Lab Sample ID: 4H11024-05

Sample wt/vol: 1.02 (g/mL) g Lab File ID: 0024357

Level: (low/med) low Date Received: 08/11/04

% Moisture: not dec. 20.5 Date Analyzed: 08/17/04

GC Column: Rtx 502.2 ID: 0.18 (mm) Dilution Factor: na

Soil Extract Volume: na (uL) Soil Aliquot Volume: na (uL)

Number TICs found: 2 Concentration Units: (ug/L or ug/Kg) µg/Kg

CAS Number	Compound Name	RT	Est. Conc.	Q
1.	Unknown	3.07	19	J
2. 000075-09-2	Methylene Chloride	3.44	78	J, B
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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

BH17 (6-8)

Lab Name: Waste Stream Technology Contract: LCS

Project No.: 04B15522.22 Site: Great Arrow Location: Group: 4H11024

Matrix: (soil/water) soil Lab Sample ID: 4H11024-06

Sample wt/vol: 1.02 (g/mL) g Lab File ID: 0024358

Level: (low/med) low Date Received: 08/11/04

% Moisture: not dec. 16.7 Date Analyzed: 08/17/04

GC Column: Rtx 502.2 ID: 0.18 (mm) Dilution Factor: na

Soil Extract Volume: na (uL) Soil Aliquot Volume: na (uL)

Number TICs found: 10 Concentration Units: (ug/L or ug/Kg) ug/Kg

	CAS Number	Compound Name	RT	Est. Conc.	Q
1.	000589-34-4	Hexane, 3-methyl-	6.10	158	J
2.	000589-81-1	Heptane, 3-methyl-	9.48	263	J
3.	002216-34-4	Octane, 4-methyl-	12.59	302	J
4.	002216-33-3	Octane, 3-methyl-	12.87	287	J
5.		Substituted Alkane	15.74	188	J
6.		Substituted Benzene	17.95	181	J
7.		Benzene, methyl-propyl isomer	19.85	280	J
8.		Benzene, methyl-(methylethyl) is	20.97	231	J
9.		Benzene, tetramethyl isomer	21.95	156	J
10.		1H-Indene, dihydro-methyl isome	22.66	185	J
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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

BH19 (8-10)

Lab Name: Waste Stream Technology Contract: LCS

Project No.: 04B15522.22 Site: Great Arrow Location: Group: 4H11024

Matrix: (soil/water) soil Lab Sample ID: 4H11024-07

Sample wt/vol: 1.09 (g/mL) g Lab File ID: 0024359

Level: (low/med) low Date Received: 08/11/04

% Moisture: not dec. 15.8 Date Analyzed: 08/17/04

GC Column: Rtx 502.2 ID: 0.18 (mm) Dilution Factor: na

Soil Extract Volume: na (uL) Soil Aliquot Volume: na (uL)

Number TICs found: 1 Concentration Units: (ug/L or ug/Kg) µg/Kg

CAS Number	Compound Name	RT	Est. Conc.	Q
1. 0000075-09-2	Methylene Chloride	3.45	74	J, B
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

Lab Name: WASTE STREAM TECHNOLOGY Contract:

Project No.: LCS Site: Location: BH17 (6-8) Group: 4H11024

Matrix: (soil/water) SOIL Lab Sample ID: 4H11024-06

Sample wt/vol: 30.2 (g/mL) g Lab File ID: 18468

Level: (low/med) LOW Date Received: 8/11/2004

% Moisture: 5.7 decanted: (Y/N) N Date Extracted: 8/17/2004

Concentrated Extract Volume: 1 (ML) Date Analyzed: 8/18/2004

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

Number TICs found: 1 Concentration Units: (ug/L or ug/Kg) ug/Kg

CAS Number	Compound Name	RT	Est. Conc.	Q
1.	UNKNOWN PAH	16.88	201	J
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CHAIN OF CUSTODY

WASTE STREAM TECHNOLOGY

Waste Stream Technology Inc.
302 Grote Street, Buffalo, NY 14207
(716) 876-5290 • FAX (716) 876-2412

OFFICE USE ONLY
GROUP # 411024
DUE DATE

PAGE 1 OF 1

REPORT TO: LCS
CONTACT Doug Reid
PH. # ( ) 845-[illegible]
FAX # ( ) 845-[illegible]
BILL TO: LCS
PO# [illegible]
PROJECT DESCRIPTION [illegible]
SAMPLER SIGNATURE

DW DRINKING WATER
GW GROUND WATER
SW SURFACE WATER
WW WASTE WATER
O OIL
SL SLUDGE
SO SOIL
S SOLID
W WIPE
OTHER

TURN AROUND TIME: 1 DAY
QUOTATION NUMBER:

ARE SPECIAL DETECTION LIMITS REQUIRED: YES NO STD
If yes please attach requirements.

Is a QC Package required: YES NO Electronic
If yes please attach requirements

ANALYSES TO BE PERFORMED

	SAMPLE I.D.	DATE SAMPLED	TIME OF SAMPLING	SAMPLE TYPE	TOTAL NO. OF CONTAINERS	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	TYPE OF CONTAINER/ COMMENTS:	OFFICE USE ONLY WST. I.D.
1	BH11 (0-2)	8/9		SO	1	X ✓			1	X						[illegible]	01
2	BH12 (2-4)				1	X ✓										[illegible]	02
3	BH13 (4-6)				1	X ✓										[illegible]	03
4	BH15 (4-6)				1	X ✓										[illegible]	04
5	BH16 (4-6)				1	X ✓										[illegible]	05
6	BH17 (6-8)				2	X ✓	X ✓									[illegible]	06
7	BH19 (8-10)	8/9			1	X ✓				X						[illegible]	07
8																	
9																	
10																	

REMARKS:

RELINQUISHED BY:	DATE:	TIME:	RECEIVED BY:	DATE:	TIME:
[illegible]	8/11/04	11:20	[illegible]	8/11/04	[illegible]
[illegible]	8/11/04	11:30	[illegible]	8/11/04	[illegible]

WASTE STREAM TECHNOLOGY, INC.

302 Grote Street
Buffalo, NY 14207
(716) 876-5290

Analytical Data Report
Report Date: 08/25/04
Work Order Number: 4H12020

Prepared For
Doug Reid
Lender Consulting Service
P.O. Box 406
Buffalo, NY 14205
Fax: (716) 845-6164

Site: 177 & 255 Great Arrow

Enclosed are the results of analyses for samples received by the laboratory on 08/12/04. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Brian S. Schepart, Ph.D., Laboratory Director

ENVIRONMENTAL LABORATORY ACCREDITATION CERTIFICATION NUMBERS
NYSDOH ELAP #11179 NJDEPE #73977 PADEP #68757

Lender Consulting Service	Project: LCS Price List	
P.O. Box 406	Project Number: 177 & 255 Great Arrow	**Reported:**
Buffalo NY, 14205	Project Manager: Doug Reid	08/25/04 15:13

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH20 (2-4)	4H12020-01	Soil	08/11/04 00:00	08/12/04 15:54
BH21 (2-4)	4H12020-02	Soil	08/11/04 00:00	08/12/04 15:54
BH22 (6-8)	4H12020-03	Soil	08/11/04 00:00	08/12/04 15:54
BH23 (0-2)	4H12020-04	Soil	08/11/04 00:00	08/12/04 15:54
BH24 (0-2)	4H12020-05	Soil	08/11/04 00:00	08/12/04 15:54
BH25 (2-4)	4H12020-06	Soil	08/11/04 00:00	08/12/04 15:54
BH26 (0-2)	4H12020-07	Soil	08/11/04 00:00	08/12/04 15:54
BH27 (2-4)	4H12020-08	Soil	08/11/04 00:00	08/12/04 15:54
BH28 (0-2)	4H12020-09	Soil	08/11/04 00:00	08/12/04 15:54
BH29 (0-2)	4H12020-10	Soil	08/11/04 00:00	08/12/04 15:54
BH33 (0-2)	4H12020-11	Soil	08/11/04 00:00	08/12/04 15:54
BH35 (0-2)	4H12020-12	Soil	08/11/04 00:00	08/12/04 15:54
BH36 (2-4)	4H12020-13	Soil	08/12/04 00:00	08/12/04 15:54
BH37 (4-6)	4H12020-14	Soil	08/12/04 00:00	08/12/04 15:54
BH38 (4-6)	4H12020-15	Soil	08/12/04 00:00	08/12/04 15:54
BH42 (2-4)	4H12020-16	Soil	08/12/04 00:00	08/12/04 15:54
BH43 (2-4)	4H12020-17	Soil	08/12/04 00:00	08/12/04 15:54
BH36 (4-8)	4H12020-18	Soil	08/12/04 00:00	08/12/04 15:54

Lender Consulting Service	Project: LCS Price List	
P.O. Box 406	Project Number: 177 & 255 Great Arrow	**Reported:**
Buffalo NY, 14205	Project Manager: Doug Reid	08/25/04 15:13

RCRA Metals by EPA 6000/7000 Series Methods

Waste Stream Technology Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BH21 (2-4) (4H12020-02) Soil	**Sampled: 08/11/04 00:00**	**Received: 08/12/04 15:54**							
Mercury	**0.039**	0.014	mg/kg dry	1	AH42309	08/23/04	08/23/04	EPA 7471A	
Silver	ND	0.500	"	"	AH41617	08/16/04	08/17/04	EPA 6010B	
Arsenic	**5.25**	1.70	"	"	"	"	08/17/04	"	
Barium	**106**	1.00	"	"	"	"	08/17/04	"	
Cadmium	ND	1.00	"	"	"	"	08/17/04	"	
Chromium	**23.9**	1.00	"	"	"	"	08/17/04	"	
Lead	**12.3**	4.10	"	"	"	"	08/17/04	"	
Selenium	**5.53**	1.40	"	"	"	"	"	"	
BH22 (6-8) (4H12020-03) Soil	**Sampled: 08/11/04 00:00**	**Received: 08/12/04 15:54**							
Mercury	ND	0.016	mg/kg dry	1	AH42309	08/23/04	08/23/04	EPA 7471A	
Silver	ND	0.500	"	"	AH41617	08/16/04	08/17/04	EPA 6010B	
Arsenic	**4.42**	1.70	"	"	"	"	"	"	
Barium	**120**	1.00	"	"	"	"	"	"	
Cadmium	ND	1.00	"	"	"	"	"	"	
Chromium	**23.5**	1.00	"	"	"	"	"	"	
Lead	**10.6**	4.10	"	"	"	"	"	"	
Selenium	**5.14**	1.40	"	"	"	"	"	"	
BH23 (0-2) (4H12020-04) Soil	**Sampled: 08/11/04 00:00**	**Received: 08/12/04 15:54**							
Mercury	**0.056**	0.014	mg/kg dry	1	AH42309	08/23/04	08/23/04	EPA 7471A	
Silver	ND	0.500	"	"	AH41617	08/16/04	08/17/04	EPA 6010B	
Arsenic	**4.33**	1.70	"	"	"	"	"	"	
Barium	**134**	1.00	"	"	"	"	"	"	
Cadmium	ND	1.00	"	"	"	"	"	"	
Chromium	**26.5**	1.00	"	"	"	"	"	"	
Lead	**17.1**	4.10	"	"	"	"	"	"	
Selenium	**5.08**	1.40	"	"	"	"	"	"	

Lender Consulting Service	Project: LCS Price List	
P.O. Box 406	Project Number: 177 & 255 Great Arrow	**Reported:**
Buffalo NY, 14205	Project Manager: Doug Reid	08/25/04 15:13

RCRA Metals by EPA 6000/7000 Series Methods

Waste Stream Technology Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
3H24 (0-2) (4H12020-05) Soil	**Sampled: 08/11/04 00:00**	**Received: 08/12/04 15:54**							
Mercury	**0.142**	0.012	mg/kg dry	1	AH42309	08/23/04	08/23/04	EPA 7471A	
Silver	ND	0.500	"	"	AH41617	08/16/04	08/17/04	EPA 6010B	
Arsenic	**12.1**	1.70	"	"	"	"	08/17/04	"	
Barium	**144**	1.00	"	"	"	"	08/17/04	"	
Cadmium	ND	1.00	"	"	"	"	"	"	
Chromium	**18.6**	1.00	"	"	"	"	08/17/04	"	
Lead	**378**	4.10	"	"	"	"	08/17/04	"	
Selenium	**6.06**	1.40	"	"	"	"	08/17/04	"	
3H25 (2-4) (4H12020-06) Soil	**Sampled: 08/11/04 00:00**	**Received: 08/12/04 15:54**							
Mercury	**0.147**	0.014	mg/kg dry	1	AH42410	08/24/04	08/24/04	EPA 7471A	
Silver	ND	0.500	"	"	AH41617	08/16/04	08/17/04	EPA 6010B	
Arsenic	**10.6**	1.70	"	"	"	"	"	"	
Barium	**137**	1.00	"	"	"	"	"	"	
Cadmium	ND	1.00	"	"	"	"	"	"	
Chromium	**20.2**	1.00	"	"	"	"	"	"	
Lead	**617**	4.10	"	"	"	"	"	"	
Selenium	**3.72**	1.40	"	"	"	"	"	"	
3H26 (0-2) (4H12020-07) Soil	**Sampled: 08/11/04 00:00**	**Received: 08/12/04 15:54**							
Mercury	**0.306**	0.014	mg/kg dry	1	AH42410	08/24/04	08/24/04	EPA 7471A	
Silver	ND	0.500	"	"	AH41617	08/16/04	08/17/04	EPA 6010B	
Arsenic	**14.4**	1.70	"	"	"	"	"	"	
Barium	**130**	1.00	"	"	"	"	"	"	
Cadmium	ND	1.00	"	"	"	"	"	"	
Chromium	**34.2**	1.00	"	"	"	"	"	"	
Lead	**422**	4.10	"	"	"	"	"	"	
Selenium	**5.33**	1.40	"	"	"	"	"	"	

Lender Consulting Service	Project: LCS Price List	
P.O. Box 406	Project Number: 177 & 255 Great Arrow	**Reported:**
Buffalo NY, 14205	Project Manager: Doug Reid	08/25/04 15:13

RCRA Metals by EPA 6000/7000 Series Methods

Waste Stream Technology Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BH28 (0-2) (4H12020-09) Soil Sampled: 08/11/04 00:00 Received: 08/12/04 15:54									
Mercury	**0.033**	0.014	mg/kg dry	1	AH42410	08/24/04	08/24/04	EPA 7471A	
Silver	ND	0.500	"	"	AH41617	08/16/04	08/17/04	EPA 6010B	
Arsenic	**4.99**	1.70	"	"	"	"	"	"	
Barium	**162**	1.00	"	"	"	"	"	"	
Cadmium	ND	1.00	"	"	"	"	"	"	
Chromium	**21.6**	1.00	"	"	"	"	"	"	
Lead	**13.3**	4.10	"	"	"	"	"	"	
Selenium	**7.83**	1.40	"	"	"	"	"	"	
BH29 (0-2) (4H12020-10) Soil Sampled: 08/11/04 00:00 Received: 08/12/04 15:54									
Mercury	ND	0.017	mg/kg dry	1	AH42410	08/24/04	08/24/04	EPA 7471A	
Silver	ND	0.500	"	"	AH41617	08/16/04	08/17/04	EPA 6010B	
Arsenic	**2.18**	1.70	"	"	"	"	08/17/04	"	
Barium	**201**	1.00	"	"	"	"	08/17/04	"	
Cadmium	ND	1.00	"	"	"	"	08/17/04	"	
Chromium	**8.65**	1.00	"	"	"	"	"	"	
Lead	ND	4.10	"	"	"	"	"	"	
Selenium	**8.93**	1.40	"	"	"	"	"	"	
BH33 (0-2) (4H12020-11) Soil Sampled: 08/11/04 00:00 Received: 08/12/04 15:54									
Mercury	**0.025**	0.014	mg/kg dry	1	AH42410	08/24/04	08/24/04	EPA 7471A	
Silver	ND	0.500	"	"	AH41617	08/16/04	08/17/04	EPA 6010B	
Arsenic	**4.74**	1.70	"	"	"	"	"	"	
Barium	**158**	1.00	"	"	"	"	"	"	
Cadmium	ND	1.00	"	"	"	"	"	"	
Chromium	**16.9**	1.00	"	"	"	"	"	"	
Lead	**146**	4.10	"	"	"	"	"	"	
Selenium	**6.94**	1.40	"	"	"	"	"	"	

Lender Consulting Service P.O. Box 406 Buffalo NY, 14205	Project: LCS Price List Project Number: 177 & 255 Great Arrow Project Manager: Doug Reid	**Reported:** 08/25/04 15:13

RCRA Metals by EPA 6000/7000 Series Methods

Waste Stream Technology Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BH35 (0-2) (4H12020-12) Soil	**Sampled: 08/11/04 00:00**	**Received: 08/12/04 15:54**							
Mercury	**0.055**	0.016	mg/kg dry	1	AH42410	08/24/04	08/24/04	EPA 7471A	
Silver	ND	0.500	"	"	AH41617	08/16/04	08/17/04	EPA 6010B	
Arsenic	**4.30**	1.70	"	"	"	"	08/17/04	"	
Barium	**78.5**	1.00	"	"	"	"	08/17/04	"	
Cadmium	ND	1.00	"	"	"	"	08/17/04	"	
Chromium	**19.6**	1.00	"	"	"	"	"	"	
Lead	**14.2**	4.10	"	"	"	"	"	"	
Selenium	**2.84**	1.40	"	"	"	"	"	"	
BH36 (2-4) (4H12020-13) Soil	**Sampled: 08/12/04 00:00**	**Received: 08/12/04 15:54**							
Mercury	**0.063**	0.014	mg/kg dry	1	AH42410	08/24/04	08/24/04	EPA 7471A	
Silver	ND	0.500	"	"	AH41617	08/16/04	08/17/04	EPA 6010B	
Arsenic	**280**	1.70	"	"	"	"	"	"	
Barium	**55.7**	1.00	"	"	"	"	"	"	
Cadmium	**1.05**	1.00	"	"	"	"	"	"	
Chromium	**13.2**	1.00	"	"	"	"	"	"	
Lead	**16.0**	4.10	"	"	"	"	"	"	
Selenium	**22.8**	1.40	"	"	"	"	"	"	
BH37 (4-6) (4H12020-14) Soil	**Sampled: 08/12/04 00:00**	**Received: 08/12/04 15:54**							
Mercury	**0.036**	0.016	mg/kg dry	1	AH42410	08/24/04	08/24/04	EPA 7471A	
Silver	ND	0.500	"	"	AH41617	08/16/04	08/17/04	EPA 6010B	
Arsenic	**5.07**	1.70	"	"	"	"	"	"	
Barium	**100**	1.00	"	"	"	"	"	"	
Cadmium	ND	1.00	"	"	"	"	"	"	
Chromium	**21.3**	1.00	"	"	"	"	"	"	
Lead	**111**	4.10	"	"	"	"	"	"	
Selenium	**4.44**	1.40	"	"	"	"	"	"	

Lender Consulting Service P.O. Box 406 Buffalo NY, 14205	Project: LCS Price List Project Number: 177 & 255 Great Arrow Project Manager: Doug Reid	**Reported:** 08/25/04 15:13

RCRA Metals by EPA 6000/7000 Series Methods

Waste Stream Technology Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
H38 (4-6) (4H12020-15) Soil	**Sampled: 08/12/04 00:00**	**Received: 08/12/04 15:54**							
Mercury	**0.024**	0.017	mg/kg dry	1	AH42410	08/24/04	08/24/04	EPA 7471A	
Silver	ND	0.500	"	"	AH41617	08/16/04	08/17/04	EPA 6010B	
Arsenic	**24.1**	1.70	"	"	"	"	"	"	
Barium	**94.7**	1.00	"	"	"	"	"	"	
Cadmium	ND	1.00	"	"	"	"	"	"	
Chromium	**19.9**	1.00	"	"	"	"	"	"	
Lead	**22.5**	4.10	"	"	"	"	"	"	
Selenium	**6.72**	1.40	"	"	"	"	"	"	
H42 (2-4) (4H12020-16) Soil	**Sampled: 08/12/04 00:00**	**Received: 08/12/04 15:54**							
Mercury	**0.041**	0.016	mg/kg dry	1	AH42410	08/24/04	08/24/04	EPA 7471A	
Silver	ND	0.500	"	"	AH41617	08/16/04	08/17/04	EPA 6010B	
Arsenic	**2.51**	1.70	"	"	"	"	"	"	
Barium	**76.7**	1.00	"	"	"	"	"	"	
Cadmium	ND	1.00	"	"	"	"	"	"	
Chromium	**17.3**	1.00	"	"	"	"	"	"	
Lead	**13.6**	4.10	"	"	"	"	"	"	
Selenium	**3.26**	1.40	"	"	"	"	"	"	
H43 (2-4) (4H12020-17) Soil	**Sampled: 08/12/04 00:00**	**Received: 08/12/04 15:54**							
Mercury	**0.029**	0.016	mg/kg dry	1	AH42410	08/24/04	08/24/04	EPA 7471A	
Silver	ND	0.500	"	"	AH41617	08/16/04	08/17/04	EPA 6010B	
Arsenic	**2.92**	1.70	"	"	"	"	"	"	
Barium	**95.0**	1.00	"	"	"	"	"	"	
Cadmium	ND	1.00	"	"	"	"	"	"	
Chromium	**19.4**	1.00	"	"	"	"	"	"	
Lead	**12.5**	4.10	"	"	"	"	"	"	
Selenium	**3.28**	1.40	"	"	"	"	"	"	

,ender Consulting Service	Project: LCS Price List	
'.O. Box 406	Project Number: 177 & 255 Great Arrow	**Reported:**
3uffalo NY, 14205	Project Manager: Doug Reid	08/25/04 15:13

RCRA Metals by EPA 6000/7000 Series Methods

Waste Stream Technology Inc.

ıalyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
436 (4-8) (4H12020-18) Soil	**Sampled: 08/12/04 00:00**	**Received: 08/12/04 15:54**							
ercury	**0.141**	0.014	mg/kg dry	1	AH42410	08/24/04	08/24/04	EPA 7471A	
.ver	ND	0.500	"	"	AH41617	08/16/04	08/17/04	EPA 6010B	
'senic	**70.9**	1.70	"	"	"	"	"	"	
ırium	**30.1**	1.00	"	"	"	"	"	"	
.dmium	ND	1.00	"	"	"	"	"	"	
ıromium	**11.4**	1.00	"	"	"	"	"	"	
:ad	**11.0**	4.10	"	"	"	"	"	"	
lenium	**5.13**	1.40	"	"	"	"	"	"	

Lender Consulting Service	Project: LCS Price List	
P.O. Box 406	Project Number: 177 & 255 Great Arrow	**Reported:**
Buffalo NY, 14205	Project Manager: Doug Reid	08/25/04 15:13

Polychlorinated Biphenyls by EPA Method 8082

Waste Stream Technology Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
:H21 (2-4) (4H12020-02) Soil Sampled: 08/11/04 00:00 Received: 08/12/04 15:54									
.roclor 1016	ND	3.30	ug/kg dry	1	AH42005	08/20/04	08/21/04	8082	U
.roclor 1221	ND	3.30	"	"	"	"	"	"	U
.roclor 1232	ND	3.30	"	"	"	"	"	"	U
.roclor 1242	ND	3.30	"	"	"	"	"	"	U
.roclor 1248	ND	3.30	"	"	"	"	"	"	U
.roclor 1254	ND	3.30	"	"	"	"	"	"	U
.roclor 1260	ND	3.30	"	"	"	"	"	"	U
urrogate: Tetrachloro-meta-xylene		*85.0 %*	*74-122*		"	"	"	"	
urrogate: Decachlorobiphenyl		*78.2 %*	*64-127*		"	"	"	"	
H22 (6-8) (4H12020-03) Soil Sampled: 08/11/04 00:00 Received: 08/12/04 15:54									
.roclor 1016	ND	3.30	ug/kg dry	1	AH42005	08/20/04	08/21/04	8082	U
.roclor 1221	ND	3.30	"	"	"	"	"	"	U
.roclor 1232	ND	3.30	"	"	"	"	"	"	U
.roclor 1242	ND	3.30	"	"	"	"	"	"	U
.roclor 1248	ND	3.30	"	"	"	"	"	"	U
.roclor 1254	ND	3.30	"	"	"	"	"	"	U
.roclor 1260	ND	3.30	"	"	"	"	"	"	U
urrogate: Tetrachloro-meta-xylene		*93.5 %*	*74-122*		"	"	"	"	
urrogate: Decachlorobiphenyl		*78.9 %*	*64-127*		"	"	"	"	
H23 (0-2) (4H12020-04) Soil Sampled: 08/11/04 00:00 Received: 08/12/04 15:54									
roclor 1016	ND	3.30	ug/kg dry	1	AH42005	08/20/04	08/21/04	8082	U
roclor 1221	ND	3.30	"	"	"	"	"	"	U
roclor 1232	ND	3.30	"	"	"	"	"	"	U
roclor 1242	ND	3.30	"	"	"	"	"	"	U
roclor 1248	ND	3.30	"	"	"	"	"	"	U
roclor 1254	ND	3.30	"	"	"	"	"	"	U
roclor 1260	ND	3.30	"	"	"	"	"	"	U
urrogate: Tetrachloro-meta-xylene		*85.5 %*	*74-122*		"	"	"	"	
urrogate: Decachlorobiphenyl		*80.0 %*	*64-127*		"	"	"	"	

Polychlorinated Biphenyls by EPA Method 8082

Waste Stream Technology Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
H24 (0-2) (4H12020-05) Soil Sampled: 08/11/04 00:00 Received: 08/12/04 15:54									
Aroclor 1016	ND	3.30	ug/kg dry	1	AH42005	08/20/04	08/21/04	8082	U
Aroclor 1221	ND	3.30	"	"	"	"	"	"	U
Aroclor 1232	ND	3.30	"	"	"	"	"	"	U
Aroclor 1242	ND	3.30	"	"	"	"	"	"	U
Aroclor 1248	ND	3.30	"	"	"	"	"	"	U
Aroclor 1254	ND	3.30	"	"	"	"	"	"	U
Aroclor 1260	ND	3.30	"	"	"	"	"	"	U
Surrogate: Tetrachloro-meta-xylene		*83.1 %*		*74-122*	"	"	"	"	
Surrogate: Decachlorobiphenyl		*77.8 %*		*64-127*	"	"	"	"	
H25 (2-4) (4H12020-06) Soil Sampled: 08/11/04 00:00 Received: 08/12/04 15:54									
Aroclor 1016	ND	33.0	ug/kg dry	10	AH42005	08/20/04	08/23/04	8082	U
Aroclor 1221	ND	33.0	"	"	"	"	"	"	U
Aroclor 1232	ND	33.0	"	"	"	"	"	"	U
Aroclor 1242	ND	33.0	"	"	"	"	"	"	U
Aroclor 1248	ND	33.0	"	"	"	"	"	"	U
Aroclor 1254	ND	33.0	"	"	"	"	"	"	U
Aroclor 1260	ND	33.0	"	"	"	"	"	"	U
Surrogate: Tetrachloro-meta-xylene		*91.7 %*		*74-122*	"	"	"	"	
Surrogate: Decachlorobiphenyl		*84.3 %*		*64-127*	"	"	"	"	
H26 (0-2) (4H12020-07) Soil Sampled: 08/11/04 00:00 Received: 08/12/04 15:54									
Aroclor 1016	ND	165	ug/kg dry	50	AH42005	08/20/04	08/23/04	8082	U
Aroclor 1221	ND	165	"	"	"	"	"	"	U
Aroclor 1232	ND	165	"	"	"	"	"	"	U
Aroclor 1242	ND	165	"	"	"	"	"	"	U
Aroclor 1248	ND	165	"	"	"	"	"	"	U
Aroclor 1254	ND	165	"	"	"	"	"	"	U
Aroclor 1260	ND	165	"	"	"	"	"	"	U
Surrogate: Tetrachloro-meta-xylene		*%*		*74-122*	"	"	"	"	*S-01*
Surrogate: Decachlorobiphenyl		*%*		*64-127*	"	"	"	"	*S-01*

ender Consulting Service	Project: LCS Price List	
P.O. Box 406	Project Number: 177 & 255 Great Arrow	**Reported:**
Buffalo NY, 14205	Project Manager: Doug Reid	08/25/04 15:13

Polychlorinated Biphenyls by EPA Method 8082

Waste Stream Technology Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
H28 (0-2) (4H12020-09) Soil Sampled: 08/11/04 00:00 Received: 08/12/04 15:54									
Aroclor 1016	ND	3.30	ug/kg dry	1	AH42005	08/20/04	08/22/04	8082	U
Aroclor 1221	ND	3.30	"	"	"	"	"	"	U
Aroclor 1232	ND	3.30	"	"	"	"	"	"	U
Aroclor 1242	ND	3.30	"	"	"	"	"	"	U
Aroclor 1248	ND	3.30	"	"	"	"	"	"	U
Aroclor 1254	ND	3.30	"	"	"	"	"	"	U
Aroclor 1260	ND	3.30	"	"	"	"	"	"	U
Surrogate: Tetrachloro-meta-xylene		*86.6 %*	*74-122*		"	"	"	"	
Surrogate: Decachlorobiphenyl		*80.6 %*	*64-127*		"	"	"	"	
H29 (0-2) (4H12020-10) Soil Sampled: 08/11/04 00:00 Received: 08/12/04 15:54									
Aroclor 1016	ND	33.0	ug/kg dry	10	AH42005	08/20/04	08/22/04	8082	U
Aroclor 1221	ND	33.0	"	"	"	"	"	"	U
Aroclor 1232	ND	33.0	"	"	"	"	"	"	U
Aroclor 1242	ND	33.0	"	"	"	"	"	"	U
Aroclor 1248	ND	33.0	"	"	"	"	"	"	U
Aroclor 1254	ND	33.0	"	"	"	"	"	"	U
Aroclor 1260	ND	33.0	"	"	"	"	"	"	U
Surrogate: Tetrachloro-meta-xylene		*100 %*	*74-122*		"	"	"	"	
Surrogate: Decachlorobiphenyl		*69.0 %*	*64-127*		"	"	"	"	
H33 (0-2) (4H12020-11) Soil Sampled: 08/11/04 00:00 Received: 08/12/04 15:54									
Aroclor 1016	ND	3.30	ug/kg dry	1	AH42005	08/20/04	08/22/04	8082	U
Aroclor 1221	ND	3.30	"	"	"	"	"	"	U
Aroclor 1232	ND	3.30	"	"	"	"	"	"	U
Aroclor 1242	ND	3.30	"	"	"	"	"	"	U
Aroclor 1248	ND	3.30	"	"	"	"	"	"	U
Aroclor 1254	ND	3.30	"	"	"	"	"	"	U
Aroclor 1260	ND	3.30	"	"	"	"	"	"	U
Surrogate: Tetrachloro-meta-xylene		*90.4 %*	*74-122*		"	"	"	"	
Surrogate: Decachlorobiphenyl		*91.3 %*	*64-127*		"	"	"	"	

Lender Consulting Service	Project: LCS Price List	
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Buffalo NY, 14205	Project Manager: Doug Reid	08/25/04 15:13

Polychlorinated Biphenyls by EPA Method 8082

Waste Stream Technology Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
3H35 (0-2) (4H12020-12) Soil Sampled: 08/11/04 00:00 Received: 08/12/04 15:54									
Aroclor 1016	ND	3.30	ug/kg dry	1	AH42005	08/20/04	08/22/04	8082	U
Aroclor 1221	ND	3.30	"	"	"	"	"	"	U
Aroclor 1232	ND	3.30	"	"	"	"	"	"	U
Aroclor 1242	ND	3.30	"	"	"	"	"	"	U
Aroclor 1248	ND	3.30	"	"	"	"	"	"	U
Aroclor 1254	ND	3.30	"	"	"	"	"	"	U
Aroclor 1260	ND	3.30	"	"	"	"	"	"	U
Surrogate: Tetrachloro-meta-xylene		*74.2 %*	*74-122*		"	"	"	"	
Surrogate: Decachlorobiphenyl		*99.5 %*	*64-127*		"	"	"	"	
3H42 (2-4) (4H12020-16) Soil Sampled: 08/12/04 00:00 Received: 08/12/04 15:54									
Aroclor 1016	ND	16.5	ug/kg dry	5	AH42005	08/20/04	08/23/04	8082	U
Aroclor 1221	ND	16.5	"	"	"	"	"	"	U
Aroclor 1232	ND	16.5	"	"	"	"	"	"	U
Aroclor 1242	ND	16.5	"	"	"	"	"	"	U
Aroclor 1248	ND	16.5	"	"	"	"	"	"	U
Aroclor 1254	ND	16.5	"	"	"	"	"	"	U
Aroclor 1260	ND	16.5	"	"	"	"	"	"	U
Surrogate: Tetrachloro-meta-xylene		*105 %*	*74-122*		"	"	"	"	
Surrogate: Decachlorobiphenyl		*103 %*	*64-127*		"	"	"	"	
3H43 (2-4) (4H12020-17) Soil Sampled: 08/12/04 00:00 Received: 08/12/04 15:54									
Aroclor 1016	ND	3.30	ug/kg dry	1	AH42005	08/20/04	08/22/04	8082	U
Aroclor 1221	ND	3.30	"	"	"	"	"	"	U
Aroclor 1232	ND	3.30	"	"	"	"	"	"	U
Aroclor 1242	ND	3.30	"	"	"	"	"	"	U
Aroclor 1248	ND	3.30	"	"	"	"	"	"	U
Aroclor 1254	ND	3.30	"	"	"	"	"	"	U
Aroclor 1260	ND	3.30	"	"	"	"	"	"	U
Surrogate: Tetrachloro-meta-xylene		*92.9 %*	*74-122*		"	"	"	"	
Surrogate: Decachlorobiphenyl		*93.4 %*	*64-127*		"	"	"	"	

Lender Consulting Service	Project: LCS Price List	
P.O. Box 406	Project Number: 177 & 255 Great Arrow	**Reported:**
Buffalo NY, 14205	Project Manager: Doug Reid	08/25/04 15:13

Polychlorinated Biphenyls by EPA Method 8082

Waste Stream Technology Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
H36 (4-8) (4H12020-18) Soil Sampled: 08/12/04 00:00 Received: 08/12/04 15:54									
roclor 1016	ND	16.5	ug/kg dry	5	AH42005	08/20/04	08/23/04	8082	U
roclor 1221	ND	16.5	"	"	"	"	"	"	U
roclor 1232	ND	16.5	"	"	"	"	"	"	U
roclor 1242	ND	16.5	"	"	"	"	"	"	U
roclor 1248	ND	16.5	"	"	"	"	"	"	U
roclor 1254	ND	16.5	"	"	"	"	"	"	U
roclor 1260	ND	16.5	"	"	"	"	"	"	U
urrogate: Tetrachloro-meta-xylene		*80.1 %*	*74-122*		"	"	"	"	
urrogate: Decachlorobiphenyl		*101 %*	*64-127*		"	"	"	"	

Lender Consulting Service	Project: LCS Price List	
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Buffalo NY, 14205	Project Manager: Doug Reid	08/25/04 15:13

Volatile Organic Compounds by EPA Method 8260B

Waste Stream Technology Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
H20 (2-4) (4H12020-01) Soil Sampled: 08/11/04 00:00 Received: 08/12/04 15:54									
ılloromethane	ND	10	ug/kg dry	1	AH41808	08/18/04	08/18/04	8260	U
nyl chloride	ND	10	"	"	"	"	"	"	U
romomethane	ND	10	"	"	"	"	"	"	U
ılloroethane	ND	10	"	"	"	"	"	"	U
1-dichloroethene	ND	2	"	"	"	"	"	"	U
:etone	**51**	10	"	"	"	"	"	"	
ırbon disulfide	ND	2	"	"	"	"	"	"	U
ethylene chloride	**10**	2	"	"	"	"	"	"	
ıns-1,2-dichloroethene	ND	2	"	"	"	"	"	"	U
1-dichloroethane	ND	2	"	"	"	"	"	"	U
nyl acetate	ND	10	"	"	"	"	"	"	U
butanone	ND	10	"	"	"	"	"	"	U
s-1,2-dichloroethene	ND	2	"	"	"	"	"	"	U
ılloroform	ND	2	"	"	"	"	"	"	U
1-trichloroethane	ND	2	"	"	"	"	"	"	U
rbon tetrachloride	ND	2	"	"	"	"	"	"	U
:nzene	ND	2	"	"	"	"	"	"	U
2-dichloroethane	ND	2	"	"	"	"	"	"	U
chloroethene	ND	2	"	"	"	"	"	"	U
2-dichloropropane	ND	2	"	"	"	"	"	"	U
omodichloromethane	ND	2	"	"	"	"	"	"	U
Methyl-2-pentanone (MIBK)	ND	10	"	"	"	"	"	"	U
s-1,3-dichloropropene	ND	2	"	"	"	"	"	"	U
luene	ND	2	"	"	"	"	"	"	U
ıns-1,3-dichloropropene	ND	2	"	"	"	"	"	"	U
1,2-trichloroethane	ND	2	"	"	"	"	"	"	U
hexanone	ND	10	"	"	"	"	"	"	U
:rachloroethene	ND	2	"	"	"	"	"	"	U
bromochloromethane	ND	2	"	"	"	"	"	"	U
lorobenzene	ND	2	"	"	"	"	"	"	U
ıylbenzene	ND	2	"	"	"	"	"	"	U
p-xylene	ND	4	"	"	"	"	"	"	U
xylene	ND	2	"	"	"	"	"	"	U
rene	ND	2	"	"	"	"	"	"	U
ɔmoform	ND	2	"	"	"	"	"	"	U
1,2,2-tetrachloroethane	ND	2	"	"	"	"	"	"	U
rrogate: 1,2-Dichloroethane-d4		*103 %*	*69-132*		"	"	"	"	
rrogate: Toluene-d8		*105 %*	*81-121*		"	"	"	"	
rrogate: Bromofluorobenzene		*112 %*	*83-121*		"	"	"	"	

ender Consulting Service	Project: LCS Price List	
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uffalo NY, 14205	Project Manager: Doug Reid	08/25/04 15:13

Volatile Organic Compounds by EPA Method 8260B

Waste Stream Technology Inc.

nalyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
121 (2-4) (4H12020-02) Soil	**Sampled: 08/11/04 00:00**	**Received: 08/12/04 15:54**							
loromethane	ND	10	ug/kg dry	1	AH41808	08/18/04	08/18/04	8260	U
ıyl chloride	ND	10	"	"	"	"	"	"	U
›momethane	ND	10	"	"	"	"	"	"	U
loroethane	ND	10	"	"	"	"	"	"	U
-dichloroethene	ND	2	"	"	"	"	"	"	U
ɛtone	**87**	10	"	"	"	"	"	"	
·bon disulfide	ND	2	"	"	"	"	"	"	U
ɜthylene chloride	**84**	2	"	"	"	"	"	"	
ns-1,2-dichloroethene	ND	2	"	"	"	"	"	"	U
-dichloroethane	ND	2	"	"	"	"	"	"	U
ıyl acetate	ND	10	"	"	"	"	"	"	U
›utanone	**13**	10	"	"	"	"	"	"	
-1,2-dichloroethene	ND	2	"	"	"	"	"	"	U
loroform	ND	2	"	"	"	"	"	"	U
,1-trichloroethane	ND	2	"	"	"	"	"	"	U
·bon tetrachloride	ND	2	"	"	"	"	"	"	U
ızene	ND	2	"	"	"	"	"	"	U
!-dichloroethane	ND	2	"	"	"	"	"	"	U
ɔhloroethene	ND	2	"	"	"	"	"	"	U
!-dichloropropane	ND	2	"	"	"	"	"	"	U
›modichloromethane	ND	2	"	"	"	"	"	"	U
vlethyl-2-pentanone (MIBK)	ND	10	"	"	"	"	"	"	U
-1,3-dichloropropene	ND	2	"	"	"	"	"	"	U
uene	ND	2	"	"	"	"	"	"	U
ns-1,3-dichloropropene	ND	2	"	"	"	"	"	"	U
,2-trichloroethane	ND	2	"	"	"	"	"	"	U
ıexanone	ND	10	"	"	"	"	"	"	U
rachloroethene	ND	2	"	"	"	"	"	"	U
›romochloromethane	ND	2	"	"	"	"	"	"	U
lorobenzene	ND	2	"	"	"	"	"	"	U
ıylbenzene	ND	2	"	"	"	"	"	"	U
p-xylene	ND	4	"	"	"	"	"	"	U
ɔylene	ND	2	"	"	"	"	"	"	U
rene	ND	2	"	"	"	"	"	"	U
›moform	ND	2	"	"	"	"	"	"	U
,2,2-tetrachloroethane	ND	2	"	"	"	"	"	"	U
rrogate: 1,2-Dichloroethane-d4		*103 %*	*69-132*		"	"	"	"	
rrogate: Toluene-d8		*105 %*	*81-121*		"	"	"	"	
rrogate: Bromofluorobenzene		*113 %*	*83-121*		"	"	"	"	

Lender Consulting Service	Project: LCS Price List	
P.O. Box 406	Project Number: 177 & 255 Great Arrow	**Reported:**
Buffalo NY, 14205	Project Manager: Doug Reid	08/25/04 15:13

Volatile Organic Compounds by EPA Method 8260B

Waste Stream Technology Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
H22 (6-8) (4H12020-03) Soil Sampled: 08/11/04 00:00 Received: 08/12/04 15:54									
hloromethane	ND	10	ug/kg dry	1	AH41808	08/18/04	08/18/04	8260	U
inyl chloride	ND	10	"	"	"	"	"	"	U
romomethane	ND	10	"	"	"	"	"	"	U
hloroethane	ND	10	"	"	"	"	"	"	U
,1-dichloroethene	ND	2	"	"	"	"	"	"	U
cetone	ND	10	"	"	"	"	"	"	U
rbon disulfide	ND	2	"	"	"	"	"	"	U
ethylene chloride	**15**	2	"	"	"	"	"	"	
ans-1,2-dichloroethene	ND	2	"	"	"	"	"	"	U
,1-dichloroethane	ND	2	"	"	"	"	"	"	U
inyl acetate	ND	10	"	"	"	"	"	"	U
-butanone	ND	10	"	"	"	"	"	"	U
s-1,2-dichloroethene	ND	2	"	"	"	"	"	"	U
hloroform	ND	2	"	"	"	"	"	"	U
,1,1-trichloroethane	ND	2	"	"	"	"	"	"	U
rbon tetrachloride	ND	2	"	"	"	"	"	"	U
enzene	ND	2	"	"	"	"	"	"	U
2-dichloroethane	ND	2	"	"	"	"	"	"	U
ichloroethene	ND	2	"	"	"	"	"	"	U
2-dichloropropane	ND	2	"	"	"	"	"	"	U
romodichloromethane	ND	2	"	"	"	"	"	"	U
-Methyl-2-pentanone (MIBK)	ND	10	"	"	"	"	"	"	U
s-1,3-dichloropropene	ND	2	"	"	"	"	"	"	U
luene	ND	2	"	"	"	"	"	"	U
ans-1,3-dichloropropene	ND	2	"	"	"	"	"	"	U
1,2-trichloroethane	ND	2	"	"	"	"	"	"	U
-hexanone	ND	10	"	"	"	"	"	"	U
trachloroethene	ND	2	"	"	"	"	"	"	U
bromochloromethane	ND	2	"	"	"	"	"	"	U
hlorobenzene	ND	2	"	"	"	"	"	"	U
hylbenzene	ND	2	"	"	"	"	"	"	U
,p-xylene	ND	4	"	"	"	"	"	"	U
-xylene	ND	2	"	"	"	"	"	"	U
yrene	ND	2	"	"	"	"	"	"	U
romoform	ND	2	"	"	"	"	"	"	U
1,2,2-tetrachloroethane	ND	2	"	"	"	"	"	"	U
urrogate: 1,2-Dichloroethane-d4		*108 %*	*69-132*		"	"	"	"	
urrogate: Toluene-d8		*107 %*	*81-121*		"	"	"	"	
urrogate: Bromofluorobenzene		*116 %*	*83-121*		"	"	"	"	

ender Consulting Service	Project: LCS Price List	
.O. Box 406	Project Number: 177 & 255 Great Arrow	**Reported:**
Buffalo NY, 14205	Project Manager: Doug Reid	08/25/04 15:13

Volatile Organic Compounds by EPA Method 8260B

Waste Stream Technology Inc.

nalyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
H23 (0-2) (4H12020-04) Soil	**Sampled: 08/11/04 00:00**	**Received: 08/12/04 15:54**							
loromethane	ND	10	ug/kg dry	1	AH41808	08/18/04	08/18/04	8260	U
nyl chloride	ND	10	"	"	"	"	"	"	U
omomethane	ND	10	"	"	"	"	"	"	U
loroethane	ND	10	"	"	"	"	"	"	U
l-dichloroethene	ND	2	"	"	"	"	"	"	U
etone	ND	10	"	"	"	"	"	"	U
rbon disulfide	ND	2	"	"	"	"	"	"	U
ethylene chloride	**22**	2	"	"	"	"	"	"	
ns-1,2-dichloroethene	ND	2	"	"	"	"	"	"	U
l-dichloroethane	ND	2	"	"	"	"	"	"	U
nyl acetate	ND	10	"	"	"	"	"	"	U
butanone	ND	10	"	"	"	"	"	"	U
s-1,2-dichloroethene	ND	2	"	"	"	"	"	"	U
loroform	ND	2	"	"	"	"	"	"	U
l,1-trichloroethane	ND	2	"	"	"	"	"	"	U
rbon tetrachloride	ND	2	"	"	"	"	"	"	U
nzene	ND	2	"	"	"	"	"	"	U
2-dichloroethane	ND	2	"	"	"	"	"	"	U
chloroethene	ND	2	"	"	"	"	"	"	U
2-dichloropropane	ND	2	"	"	"	"	"	"	U
omodichloromethane	ND	2	"	"	"	"	"	"	U
Methyl-2-pentanone (MIBK)	ND	10	"	"	"	"	"	"	U
s-1,3-dichloropropene	ND	2	"	"	"	"	"	"	U
uene	ND	2	"	"	"	"	"	"	U
ns-1.3-dichloropropene	ND	2	"	"	"	"	"	"	U
l,2-trichloroethane	ND	2	"	"	"	"	"	"	U
nexanone	ND	10	"	"	"	"	"	"	U
rachloroethene	ND	2	"	"	"	"	"	"	U
promochloromethane	ND	2	"	"	"	"	"	"	U
lorobenzene	ND	2	"	"	"	"	"	"	U
nylbenzene	ND	2	"	"	"	"	"	"	U
p-xylene	ND	4	"	"	"	"	"	"	U
xylene	ND	2	"	"	"	"	"	"	U
rene	ND	2	"	"	"	"	"	"	U
omoform	ND	2	"	"	"	"	"	"	U
,2,2-tetrachloroethane	ND	2	"	"	"	"	"	"	U
rrogate: 1,2-Dichloroethane-d4		*110 %*	*69-132*		"	"	"	"	
rrogate: Toluene-d8		*104 %*	*81-121*		"	"	"	"	
rrogate: Bromofluorobenzene		*135 %*	*83-121*		"	"	"	"	*S-04*

ender Consulting Service	Project: LCS Price List	
.O. Box 406	Project Number: 177 & 255 Great Arrow	**Reported:**
Buffalo NY, 14205	Project Manager: Doug Reid	08/25/04 15:13

Volatile Organic Compounds by EPA Method 8260B

Waste Stream Technology Inc.

nalyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
124 (0-2) (4H12020-05) Soil Sampled: 08/11/04 00:00 Received: 08/12/04 15:54									
loromethane	ND	10	ug/kg dry	1	AH41808	08/18/04	08/18/04	8260	U
yl chloride	ND	10	"	"	"	"	"	"	U
omomethane	ND	10	"	"	"	"	"	"	U
oroethane	ND	10	"	"	"	"	"	"	U
-dichloroethene	ND	2	"	"	"	"	"	"	U
etone	**26**	10	"	"	"	"	"	"	
rbon disulfide	ND	2	"	"	"	"	"	"	U
ethylene chloride	**21**	2	"	"	"	"	"	"	
ns-1,2-dichloroethene	ND	2	"	"	"	"	"	"	U
-dichloroethane	ND	2	"	"	"	"	"	"	U
yl acetate	ND	10	"	"	"	"	"	"	U
utanone	ND	10	"	"	"	"	"	"	U
s-1,2-dichloroethene	ND	2	"	"	"	"	"	"	U
loroform	ND	2	"	"	"	"	"	"	U
,1-trichloroethane	ND	2	"	"	"	"	"	"	U
rbon tetrachloride	ND	2	"	"	"	"	"	"	U
nzene	ND	2	"	"	"	"	"	"	U
-dichloroethane	ND	2	"	"	"	"	"	"	U
chloroethene	ND	2	"	"	"	"	"	"	U
-dichloropropane	ND	2	"	"	"	"	"	"	U
omodichloromethane	ND	2	"	"	"	"	"	"	U
Methyl-2-pentanone (MIBK)	ND	10	"	"	"	"	"	"	U
-1,3-dichloropropene	ND	2	"	"	"	"	"	"	U
uene	**3**	2	"	"	"	"	"	"	
ns-1,3-dichloropropene	ND	2	"	"	"	"	"	"	U
,2-trichloroethane	ND	2	"	"	"	"	"	"	U
exanone	ND	10	"	"	"	"	"	"	U
rachloroethene	ND	2	"	"	"	"	"	"	U
romochloromethane	ND	2	"	"	"	"	"	"	U
orobenzene	ND	2	"	"	"	"	"	"	U
ylbenzene	ND	2	"	"	"	"	"	"	U
p-xylene	ND	4	"	"	"	"	"	"	U
ylene	ND	2	"	"	"	"	"	"	U
rene	ND	2	"	"	"	"	"	"	U
omoform	ND	2	"	"	"	"	"	"	U
,2,2-tetrachloroethane	ND	2	"	"	"	"	"	"	U
rogate: 1,2-Dichloroethane-d4	*121 %*	*69-132*		"	"	"	"		
rogate: Toluene-d8	*86.3 %*	*81-121*		"	"	"	"		
rogate: Bromofluorobenzene	*179 %*	*83-121*		"	"	"	"		*S-04*

ender Consulting Service	Project: LCS Price List	
.O. Box 406	Project Number: 177 & 255 Great Arrow	**Reported:**
Buffalo NY, 14205	Project Manager: Doug Reid	08/25/04 15:13

Volatile Organic Compounds by EPA Method 8260B

Waste Stream Technology Inc.

nalyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
425 (2-4) (4H12020-06RE1) Soil	**Sampled: 08/11/04 00:00**	**Received: 08/12/04 15:54**							
loromethane	ND	10	ug/kg dry	1	AH41902	08/19/04	08/19/04	8260	U
ıyl chloride	ND	10	"	"	"	"	"	"	U
ɔmomethane	ND	10	"	"	"	"	"	"	U
loroethane	ND	10	"	"	"	"	"	"	U
l-dichloroethene	ND	2	"	"	"	"	"	"	U
etone	**111**	10	"	"	"	"	"	"	
rbon disulfide	ND	2	"	"	"	"	"	"	U
ethylene chloride	**9**	2	"	"	"	"	"	"	
ns-1,2-dichloroethene	ND	2	"	"	"	"	"	"	U
l-dichloroethane	ND	2	"	"	"	"	"	"	U
ıyl acetate	ND	10	"	"	"	"	"	"	U
ɔutanone	**16**	10	"	"	"	"	"	"	
-1,2-dichloroethene	ND	2	"	"	"	"	"	"	U
loroform	ND	2	"	"	"	"	"	"	U
.1-trichloroethane	ND	2	"	"	"	"	"	"	U
ɓon tetrachloride	ND	2	"	"	"	"	"	"	U
nzene	ND	2	"	"	"	"	"	"	U
!-dichloroethane	ND	2	"	"	"	"	"	"	U
:hloroethene	ND	2	"	"	"	"	"	"	U
!-dichloropropane	ND	2	"	"	"	"	"	"	U
ɔmodichloromethane	ND	2	"	"	"	"	"	"	U
Methyl-2-pentanone (MIBK)	ND	10	"	"	"	"	"	"	U
-1,3-dichloropropene	ND	2	"	"	"	"	"	"	U
uene	**3**	2	"	"	"	"	"	"	
ns-1,3-dichloropropene	ND	2	"	"	"	"	"	"	U
,2-trichloroethane	ND	2	"	"	"	"	"	"	U
iexanone	ND	10	"	"	"	"	"	"	U
:achloroethene	ND	2	"	"	"	"	"	"	U
ɔromochloromethane	ND	2	"	"	"	"	"	"	U
orobenzene	ND	2	"	"	"	"	"	"	U
ylbenzene	ND	2	"	"	"	"	"	"	U
ɔ-xylene	ND	4	"	"	"	"	"	"	U
:ylene	ND	2	"	"	"	"	"	"	U
rene	ND	2	"	"	"	"	"	"	U
ɔmoform	ND	2	"	"	"	"	"	"	U
,2,2-tetrachloroethane	ND	2	"	"	"	"	"	"	U
rogate: 1,2-Dichloroethane-d4	*94.3 %*	*69-132*			"	"	"	"	
rogate: Toluene-d8	*87.0 %*	*81-121*			"	"	"	"	
rogate: Bromofluorobenzene	*121 %*	*83-121*			"	"	"	"	

Lender Consulting Service	Project: LCS Price List	
P.O. Box 406	Project Number: 177 & 255 Great Arrow	**Reported:**
Buffalo NY, 14205	Project Manager: Doug Reid	08/25/04 15:13

Volatile Organic Compounds by EPA Method 8260B

Waste Stream Technology Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
3H26 (0-2) (4H12020-07) Soil Sampled: 08/11/04 00:00 Received: 08/12/04 15:54									
chloromethane	ND	10	ug/kg dry	1	AH41808	08/18/04	08/18/04	8260	U
/inyl chloride	ND	10	"	"	"	"	"	"	U
promomethane	ND	10	"	"	"	"	"	"	U
chloroethane	ND	10	"	"	"	"	"	"	U
,1-dichloroethene	ND	2	"	"	"	"	"	"	U
icetone	**167**	10	"	"	"	"	"	"	
carbon disulfide	ND	2	"	"	"	"	"	"	U
nethylene chloride	**18**	2	"	"	"	"	"	"	
rans-1,2-dichloroethene	ND	2	"	"	"	"	"	"	U
,1-dichloroethane	ND	2	"	"	"	"	"	"	U
inyl acetate	ND	10	"	"	"	"	"	"	U
-butanone	**33**	10	"	"	"	"	"	"	
is-1,2-dichloroethene	ND	2	"	"	"	"	"	"	U
hloroform	ND	2	"	"	"	"	"	"	U
,1,1-trichloroethane	ND	2	"	"	"	"	"	"	U
arbon tetrachloride	ND	2	"	"	"	"	"	"	U
enzene	ND	2	"	"	"	"	"	"	U
,2-dichloroethane	ND	2	"	"	"	"	"	"	U
ichloroethene	ND	2	"	"	"	"	"	"	U
,2-dichloropropane	ND	2	"	"	"	"	"	"	U
romodichloromethane	ND	2	"	"	"	"	"	"	U
-Methyl-2-pentanone (MIBK)	ND	10	"	"	"	"	"	"	U
is-1,3-dichloropropene	ND	2	"	"	"	"	"	"	U
oluene	ND	2	"	"	"	"	"	"	U
ans-1,3-dichloropropene	ND	2	"	"	"	"	"	"	U
,1,2-trichloroethane	ND	2	"	"	"	"	"	"	U
-hexanone	ND	10	"	"	"	"	"	"	U
trachloroethene	ND	2	"	"	"	"	"	"	U
ibromochloromethane	ND	2	"	"	"	"	"	"	U
lorobenzene	ND	2	"	"	"	"	"	"	U
hylbenzene	ND	2	"	"	"	"	"	"	U
,p-xylene	ND	4	"	"	"	"	"	"	U
-xylene	ND	2	"	"	"	"	"	"	U
yrene	ND	2	"	"	"	"	"	"	U
romoform	ND	2	"	"	"	"	"	"	U
1,2,2-tetrachloroethane	ND	2	"	"	"	"	"	"	U
urrogate: 1,2-Dichloroethane-d4		*118 %*	*69-132*		"	"	"	"	
urrogate: Toluene-d8		*101 %*	*81-121*		"	"	"	"	
urrogate: Bromofluorobenzene		*127 %*	*83-121*		"	"	"	"	*S-04*

Lender Consulting Service	Project: LCS Price List	
P.O. Box 406	Project Number: 177 & 255 Great Arrow	**Reported:**
Buffalo NY, 14205	Project Manager: Doug Reid	08/25/04 15:13

Volatile Organic Compounds by EPA Method 8260B

Waste Stream Technology Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
H27 (2-4) (4H12020-08RE1) Soil	**Sampled: 08/11/04 00:00**	**Received: 08/12/04 15:54**							
ıloromethane	ND	10	ug/kg dry	1	AH41902	08/19/04	08/19/04	8260	U
.nyl chloride	ND	10	"	"	"	"	"	"	U
·omomethane	ND	10	"	"	"	"	"	"	U
ıloroethane	ND	10	"	"	"	"	"	"	U
1-dichloroethene	ND	2	"	"	"	"	"	"	U
:etone	57	10	"	"	"	"	"	"	
ırbon disulfide	ND	2	"	"	"	"	"	"	U
ıethylene chloride	7	2	"	"	"	"	"	"	
ans-1,2-dichloroethene	ND	2	"	"	"	"	"	"	U
1-dichloroethane	ND	2	"	"	"	"	"	"	U
:nyl acetate	ND	10	"	"	"	"	"	"	U
·butanone	ND	10	"	"	"	"	"	"	U
s-1,2-dichloroethene	ND	2	"	"	"	"	"	"	U
ıloroform	ND	2	"	"	"	"	"	"	U
1,1-trichloroethane	ND	2	"	"	"	"	"	"	U
:bon tetrachloride	ND	2	"	"	"	"	"	"	U
:nzene	ND	2	"	"	"	"	"	"	U
2-dichloroethane	ND	2	"	"	"	"	"	"	U
ichloroethene	ND	2	"	"	"	"	"	"	U
2-dichloropropane	ND	2	"	"	"	"	"	"	U
:omodichloromethane	ND	2	"	"	"	"	"	"	U
·Methyl-2-pentanone (MIBK)	ND	10	"	"	"	"	"	"	U
s-1,3-dichloropropene	ND	2	"	"	"	"	"	"	U
ıluene	ND	2	"	"	"	"	"	"	U
ans-1,3-dichloropropene	ND	2	"	"	"	"	"	"	U
1,2-trichloroethane	ND	2	"	"	"	"	"	"	U
·hexanone	ND	10	"	"	"	"	"	"	U
trachloroethene	ND	2	"	"	"	"	"	"	U
ibromochloromethane	ND	2	"	"	"	"	"	"	U
ılorobenzene	ND	2	"	"	"	"	"	"	U
hylbenzene	ND	2	"	"	"	"	"	"	U
ı,p-xylene	ND	4	"	"	"	"	"	"	U
·xylene	ND	2	"	"	"	"	"	"	U
yrene	ND	2	"	"	"	"	"	"	U
:omoform	ND	2	"	"	"	"	"	"	U
1,2,2-tetrachloroethane	ND	2	"	"	"	"	"	"	U
:urrogate: 1,2-Dichloroethane-d4	*98.7 %*	*69-132*			"	"	"	"	
:urrogate: Toluene-d8	*91.3 %*	*81-121*			"	"	"	"	
:urrogate: Bromofluorobenzene	*108 %*	*83-121*			"	"	"	"	

,ender Consulting Service	Project: LCS Price List	
?.O. Box 406	Project Number: 177 & 255 Great Arrow	**Reported:**
3uffalo NY, 14205	Project Manager: Doug Reid	08/25/04 15:13

Volatile Organic Compounds by EPA Method 8260B

Waste Stream Technology Inc.

nalyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
H28 (0-2) (4H12020-09) Soil	**Sampled: 08/11/04 00:00**	**Received: 08/12/04 15:54**							
loromethane	ND	10	ug/kg dry	1	AH41808	08/18/04	08/18/04	8260	U
ıyl chloride	ND	10	"	"	"	"	"	"	U
omomethane	ND	10	"	"	"	"	"	"	U
loroethane	ND	10	"	"	"	"	"	"	U
1-dichloroethene	ND	2	"	"	"	"	"	"	U
etone	ND	10	"	"	"	"	"	"	U
rbon disulfide	ND	2	"	"	"	"	"	"	U
ethylene chloride	**14**	2	"	"	"	"	"	"	
ıns-1,2-dichloroethene	ND	2	"	"	"	"	"	"	U
1-dichloroethane	ND	2	"	"	"	"	"	"	U
ıyl acetate	ND	10	"	"	"	"	"	"	U
butanone	ND	10	"	"	"	"	"	"	U
s-1,2-dichloroethene	ND	2	"	"	"	"	"	"	U
loroform	ND	2	"	"	"	"	"	"	U
1,1-trichloroethane	ND	2	"	"	"	"	"	"	U
rbon tetrachloride	ND	2	"	"	"	"	"	"	U
ızene	ND	2	"	"	"	"	"	"	U
2-dichloroethane	ND	2	"	"	"	"	"	"	U
chloroethene	ND	2	"	"	"	"	"	"	U
2-dichloropropane	ND	2	"	"	"	"	"	"	U
omodichloromethane	ND	2	"	"	"	"	"	"	U
Methyl-2-pentanone (MIBK)	ND	10	"	"	"	"	"	"	U
s-1,3-dichloropropene	ND	2	"	"	"	"	"	"	U
luene	ND	2	"	"	"	"	"	"	U
ıns-1,3-dichloropropene	ND	2	"	"	"	"	"	"	U
1,2-trichloroethane	ND	2	"	"	"	"	"	"	U
hexanone	ND	10	"	"	"	"	"	"	U
rachloroethene	ND	2	"	"	"	"	"	"	U
bromochloromethane	ND	2	"	"	"	"	"	"	U
lorobenzene	ND	2	"	"	"	"	"	"	U
ıylbenzene	ND	2	"	"	"	"	"	"	U
.p-xylene	ND	4	"	"	"	"	"	"	U
xylene	ND	2	"	"	"	"	"	"	U
rrene	ND	2	"	"	"	"	"	"	U
omoform	ND	2	"	"	"	"	"	"	U
1,2,2-tetrachloroethane	ND	2	"	"	"	"	"	"	U
rrogate: 1,2-Dichloroethane-d4	*122 %*	*69-132*			"	"	"	"	
rrogate: Toluene-d8	*107 %*	*81-121*			"	"	"	"	
rrogate: Bromofluorobenzene	*123 %*	*83-121*			"	"	"	"	*S-04*

Lender Consulting Service	Project: LCS Price List	
P.O. Box 406	Project Number: 177 & 255 Great Arrow	**Reported:**
Buffalo NY, 14205	Project Manager: Doug Reid	08/25/04 15:13

Volatile Organic Compounds by EPA Method 8260B

Waste Stream Technology Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
H29 (0-2) (4H12020-10) Soil Sampled: 08/11/04 00:00 Received: 08/12/04 15:54									
ılloromethane	ND	10	ug/kg dry	1	AH41808	08/18/04	08/18/04	8260	U
nyl chloride	ND	10	"	"	"	"	"	"	U
omomethane	ND	10	"	"	"	"	"	"	U
roethane	ND	10	"	"	"	"	"	"	U
1-dichloroethene	ND	2	"	"	"	"	"	"	U
:etone	**13**	10	"	"	"	"	"	"	
ırbon disulfide	ND	2	"	"	"	"	"	"	U
ethylene chloride	**17**	2	"	"	"	"	"	"	
ans-1,2-dichloroethene	ND	2	"	"	"	"	"	"	U
1-dichloroethane	ND	2	"	"	"	"	"	"	U
nyl acetate	ND	10	"	"	"	"	"	"	U
butanone	ND	10	"	"	"	"	"	"	U
s-1,2-dichloroethene	ND	2	"	"	"	"	"	"	U
ılloroform	ND	2	"	"	"	"	"	"	U
1,1-trichloroethane	ND	2	"	"	"	"	"	"	U
ırbon tetrachloride	ND	2	"	"	"	"	"	"	U
:nzene	ND	2	"	"	"	"	"	"	U
2-dichloroethane	ND	2	"	"	"	"	"	"	U
ichloroethene	ND	2	"	"	"	"	"	"	U
2-dichloropropane	ND	2	"	"	"	"	"	"	U
omodichloromethane	ND	2	"	"	"	"	"	"	U
Methyl-2-pentanone (MIBK)	ND	10	"	"	"	"	"	"	U
s-1,3-dichloropropene	ND	2	"	"	"	"	"	"	U
luene	**4**	2	"	"	"	"	"	"	
ans-1,3-dichloropropene	ND	2	"	"	"	"	"	"	U
1,2-trichloroethane	ND	2	"	"	"	"	"	"	U
hexanone	ND	10	"	"	"	"	"	"	U
trachloroethene	ND	2	"	"	"	"	"	"	U
bromochloromethane	ND	2	"	"	"	"	"	"	U
ılorobenzene	ND	2	"	"	"	"	"	"	U
hylbenzene	ND	2	"	"	"	"	"	"	U
.p-xylene	**6**	4	"	"	"	"	"	"	
xylene	**3**	2	"	"	"	"	"	"	
yrene	ND	2	"	"	"	"	"	"	U
omoform	ND	2	"	"	"	"	"	"	U
1,2,2-tetrachloroethane	ND	2	"	"	"	"	"	"	U
urrogate: 1,2-Dichloroethane-d4		*125 %*	*69-132*		"	"	"	"	
urrogate: Toluene-d8		*98.0 %*	*81-121*		"	"	"	"	
urrogate: Bromofluorobenzene		*144 %*	*83-121*		"	"	"	"	*S-04*

Lender Consulting Service	Project: LCS Price List	
P.O. Box 406	Project Number: 177 & 255 Great Arrow	**Reported:**
Buffalo NY, 14205	Project Manager: Doug Reid	08/25/04 15:13

Volatile Organic Compounds by EPA Method 8260B

Waste Stream Technology Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
H33 (0-2) (4H12020-11) Soil Sampled: 08/11/04 00:00 Received: 08/12/04 15:54									
Chloromethane	ND	10	ug/kg dry	1	AH41808	08/18/04	08/18/04	8260	U
inyl chloride	ND	10	"	"	"	"	"	"	U
romomethane	ND	10	"	"	"	"	"	"	U
hloroethane	ND	10	"	"	"	"	"	"	U
1-dichloroethene	ND	2	"	"	"	"	"	"	U
Acetone	ND	10	"	"	"	"	"	"	U
Carbon disulfide	ND	2	"	"	"	"	"	"	U
ethylene chloride	**18**	2	"	"	"	"	"	"	
rans-1,2-dichloroethene	ND	2	"	"	"	"	"	"	U
1-dichloroethane	ND	2	"	"	"	"	"	"	U
inyl acetate	ND	10	"	"	"	"	"	"	U
2-butanone	ND	10	"	"	"	"	"	"	U
is-1,2-dichloroethene	ND	2	"	"	"	"	"	"	U
Chloroform	ND	2	"	"	"	"	"	"	U
1,1-trichloroethane	ND	2	"	"	"	"	"	"	U
Carbon tetrachloride	ND	2	"	"	"	"	"	"	U
Benzene	ND	2	"	"	"	"	"	"	U
2-dichloroethane	ND	2	"	"	"	"	"	"	U
richloroethene	ND	2	"	"	"	"	"	"	U
2-dichloropropane	ND	2	"	"	"	"	"	"	U
Bromodichloromethane	ND	2	"	"	"	"	"	"	U
2-Methyl-2-pentanone (MIBK)	ND	10	"	"	"	"	"	"	U
is-1,3-dichloropropene	ND	2	"	"	"	"	"	"	U
Toluene	ND	2	"	"	"	"	"	"	U
rans-1,3-dichloropropene	ND	2	"	"	"	"	"	"	U
1,2-trichloroethane	ND	2	"	"	"	"	"	"	U
2-hexanone	ND	10	"	"	"	"	"	"	U
Tetrachloroethene	ND	2	"	"	"	"	"	"	U
Dibromochloromethane	ND	2	"	"	"	"	"	"	U
Chlorobenzene	ND	2	"	"	"	"	"	"	U
Ethylbenzene	ND	2	"	"	"	"	"	"	U
m,p-xylene	**6**	4	"	"	"	"	"	"	
o-xylene	ND	2	"	"	"	"	"	"	U
Styrene	ND	2	"	"	"	"	"	"	U
Bromoform	ND	2	"	"	"	"	"	"	U
1,2,2-tetrachloroethane	ND	2	"	"	"	"	"	"	U
Surrogate: 1,2-Dichloroethane-d4		*136 %*	*69-132*		"	"	"	"	*S-04*
Surrogate: Toluene-d8		*104 %*	*81-121*		"	"	"	"	
Surrogate: Bromofluorobenzene		*141 %*	*83-121*		"	"	"	"	*S-04*

ender Consulting Service	Project: LCS Price List	
.O. Box 406	Project Number: 177 & 255 Great Arrow	**Reported:**
uffalo NY, 14205	Project Manager: Doug Reid	08/25/04 15:13

Volatile Organic Compounds by EPA Method 8260B

Waste Stream Technology Inc.

nalyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
435 (0-2) (4H12020-12) Soil	**Sampled: 08/11/04 00:00**	**Received: 08/12/04 15:54**							
loromethane	ND	10	ug/kg dry	1	AH41808	08/18/04	08/18/04	8260	U
nyl chloride	**15**	10	"	"	"	"	"	"	
omomethane	ND	10	"	"	"	"	"	"	U
loroethane	ND	10	"	"	"	"	"	"	U
l-dichloroethene	ND	2	"	"	"	"	"	"	U
etone	ND	10	"	"	"	"	"	"	U
rbon disulfide	ND	2	"	"	"	"	"	"	U
ethylene chloride	**13**	2	"	"	"	"	"	"	
ans-1,2-dichloroethene	**24**	2	"	"	"	"	"	"	
l-dichloroethane	ND	2	"	"	"	"	"	"	U
nyl acetate	ND	10	"	"	"	"	"	"	U
utanone	ND	10	"	"	"	"	"	"	U
-1,2-dichloroethene	**32**	2	"	"	"	"	"	"	
loroform	ND	2	"	"	"	"	"	"	U
.1-trichloroethane	ND	2	"	"	"	"	"	"	U
on tetrachloride	ND	2	"	"	"	"	"	"	U
nzene	ND	2	"	"	"	"	"	"	U
!-dichloroethane	ND	2	"	"	"	"	"	"	U
chloroethene	**10**	2	"	"	"	"	"	"	
!-dichloropropane	ND	2	"	"	"	"	"	"	U
omodichloromethane	ND	2	"	"	"	"	"	"	U
Methyl-2-pentanone (MIBK)	ND	10	"	"	"	"	"	"	U
-1,3-dichloropropene	ND	2	"	"	"	"	"	"	U
uene	ND	2	"	"	"	"	"	"	U
ns-1,3-dichloropropene	ND	2	"	"	"	"	"	"	U
,2-trichloroethane	ND	2	"	"	"	"	"	"	U
exanone	ND	10	"	"	"	"	"	"	U
rachloroethene	ND	2	"	"	"	"	"	"	U
romochloromethane	ND	2	"	"	"	"	"	"	U
orobenzene	ND	2	"	"	"	"	"	"	U
ylbenzene	ND	2	"	"	"	"	"	"	U
o-xylene	ND	4	"	"	"	"	"	"	U
.ylene	ND	2	"	"	"	"	"	"	U
rene	ND	2	"	"	"	"	"	"	U
omoform	ND	2	"	"	"	"	"	"	U
,2,2-tetrachloroethane	ND	2	"	"	"	"	"	"	U
rogate: 1,2-Dichloroethane-d4		*114 %*	*69-132*		"	"	"	"	
rogate: Toluene-d8		*98.3 %*	*81-121*		"	"	"	"	
rogate: Bromofluorobenzene		*115 %*	*83-121*		"	"	"	"	

Lender Consulting Service	Project: LCS Price List	
P.O. Box 406	Project Number: 177 & 255 Great Arrow	**Reported:**
Buffalo NY, 14205	Project Manager: Doug Reid	08/25/04 15:13

Volatile Organic Compounds by EPA Method 8260B

Waste Stream Technology Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
H36 (4-8) (4H12020-18) Soil Sampled: 08/12/04 00:00 Received: 08/12/04 15:54									
ıloromethane	ND	10	ug/kg dry	1	AH41902	08/19/04	08/19/04	8260	U
nyl chloride	ND	10	"	"	"	"	"	"	U
omomethane	ND	10	"	"	"	"	"	"	U
ıloroethane	ND	10	"	"	"	"	"	"	U
1-dichloroethene	ND	2	"	"	"	"	"	"	U
:etone	**34**	10	"	"	"	"	"	"	
ırbon disulfide	ND	2	"	"	"	"	"	"	U
ethylene chloride	**5**	2	"	"	"	"	"	"	
ans-1,2-dichloroethene	ND	2	"	"	"	"	"	"	U
1-dichloroethane	ND	2	"	"	"	"	"	"	U
nyl acetate	ND	10	"	"	"	"	"	"	U
-butanone	ND	10	"	"	"	"	"	"	U
s-1,2-dichloroethene	ND	2	"	"	"	"	"	"	U
ıloroform	ND	2	"	"	"	"	"	"	U
1-trichloroethane	ND	2	"	"	"	"	"	"	U
...on tetrachloride	ND	2	"	"	"	"	"	"	U
enzene	ND	2	"	"	"	"	"	"	U
2-dichloroethane	ND	2	"	"	"	"	"	"	U
ichloroethene	ND	2	"	"	"	"	"	"	U
2-dichloropropane	ND	2	"	"	"	"	"	"	U
omodichloromethane	ND	2	"	"	"	"	"	"	U
-Methyl-2-pentanone (MIBK)	ND	10	"	"	"	"	"	"	U
s-1,3-dichloropropene	ND	2	"	"	"	"	"	"	U
luene	**10**	2	"	"	"	"	"	"	
ans-1,3-dichloropropene	ND	2	"	"	"	"	"	"	U
1,2-trichloroethane	ND	2	"	"	"	"	"	"	U
-hexanone	ND	10	"	"	"	"	"	"	U
trachloroethene	ND	2	"	"	"	"	"	"	U
bromochloromethane	ND	2	"	"	"	"	"	"	U
ılorobenzene	ND	2	"	"	"	"	"	"	U
hylbenzene	ND	2	"	"	"	"	"	"	U
.p-xylene	ND	4	"	"	"	"	"	"	U
-xylene	ND	2	"	"	"	"	"	"	U
yrene	ND	2	"	"	"	"	"	"	U
omoform	ND	2	"	"	"	"	"	"	U
1,2,2-tetrachloroethane	ND	2	"	"	"	"	"	"	U
ırrogate: 1,2-Dichloroethane-d4		*103 %*	*69-132*		"	"	"	"	
ırrogate: Toluene-d8		*88.7 %*	*81-121*		"	"	"	"	
ırrogate: Bromofluorobenzene		*126 %*	*83-121*		"	"	"	"	*S-04*

Lender Consulting Service	Project: LCS Price List	
P.O. Box 406	Project Number: 177 & 255 Great Arrow	**Reported:**
Buffalo NY. 14205	Project Manager: Doug Reid	08/25/04 15:13

Volatile Organic Compounds by EPA Method 8260B

Waste Stream Technology Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
:H37 (4-6) (4H12020-14) Soil Sampled: 08/12/04 00:00 Received: 08/12/04 15:54									
hloromethane	ND	10	ug/kg dry	1	AH41902	08/19/04	08/19/04	8260	U
inyl chloride	ND	10	"	"	"	"	"	"	U
romomethane	ND	10	"	"	"	"	"	"	U
hloroethane	ND	10	"	"	"	"	"	"	U
,1-dichloroethene	ND	2	"	"	"	"	"	"	U
cetone	**84**	10	"	"	"	"	"	"	
arbon disulfide	ND	2	"	"	"	"	"	"	U
ıethylene chloride	**5**	2	"	"	"	"	"	"	
ans-1,2-dichloroethene	ND	2	"	"	"	"	"	"	U
,1-dichloroethane	**9**	2	"	"	"	"	"	"	
inyl acetate	ND	10	"	"	"	"	"	"	U
-butanone	ND	10	"	"	"	"	"	"	U
s-1,2-dichloroethene	ND	2	"	"	"	"	"	"	U
ıloroform	ND	2	"	"	"	"	"	"	U
1,1-trichloroethane	**11**	2	"	"	"	"	"	"	
ırbon tetrachloride	ND	2	"	"	"	"	"	"	U
:nzene	ND	2	"	"	"	"	"	"	U
2-dichloroethane	ND	2	"	"	"	"	"	"	U
:hloroethene	ND	2	"	"	"	"	"	"	U
2-dichloropropane	ND	2	"	"	"	"	"	"	U
omodichloromethane	ND	2	"	"	"	"	"	"	U
Methyl-2-pentanone (MIBK)	ND	10	"	"	"	"	"	"	U
s-1,3-dichloropropene	ND	2	"	"	"	"	"	"	U
luene	ND	2	"	"	"	"	"	"	U
ıns-1,3-dichloropropene	ND	2	"	"	"	"	"	"	U
1,2-trichloroethane	ND	2	"	"	"	"	"	"	U
hexanone	ND	10	"	"	"	"	"	"	U
:rachloroethene	ND	2	"	"	"	"	"	"	U
bromochloromethane	ND	2	"	"	"	"	"	"	U
lorobenzene	ND	2	"	"	"	"	"	"	U
ıylbenzene	ND	2	"	"	"	"	"	"	U
p-xylene	ND	4	"	"	"	"	"	"	U
xylene	ND	2	"	"	"	"	"	"	U
'rene	ND	2	"	"	"	"	"	"	U
ɔmoform	ND	2	"	"	"	"	"	"	U
1,2,2-tetrachloroethane	ND	2	"	"	"	"	"	"	U
rrogate: 1,2-Dichloroethane-d4		*102 %*	*69-132*		"	"	"	"	
rrogate: Toluene-d8		*89.7 %*	*81-121*		"	"	"	"	
rrogate: Bromofluorobenzene		*113 %*	*83-121*		"	"	"	"	

;ender Consulting Service	Project: LCS Price List	
?.O. Box 406	Project Number: 177 & 255 Great Arrow	**Reported:**
Buffalo NY, 14205	Project Manager: Doug Reid	08/25/04 15:13

Volatile Organic Compounds by EPA Method 8260B

Waste Stream Technology Inc.

nalyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
138 (4-6) (4H12020-15) Soil	**Sampled: 08/12/04 00:00**	**Received: 08/12/04 15:54**							
loromethane	ND	10	ug/kg dry	1	AH41902	08/19/04	08/19/04	8260	U
ıyl chloride	ND	10	"	"	"	"	"	"	U
ɔmomethane	ND	10	"	"	"	"	"	"	U
loroethane	ND	10	"	"	"	"	"	"	U
-dichloroethene	ND	2	"	"	"	"	"	"	U
etone	**23**	10	"	"	"	"	"	"	
·bon disulfide	ND	2	"	"	"	"	"	"	U
ethylene chloride	**4**	2	"	"	"	"	"	"	
ns-1,2-dichloroethene	ND	2	"	"	"	"	"	"	U
-dichloroethane	ND	2	"	"	"	"	"	"	U
ıyl acetate	ND	10	"	"	"	"	"	"	U
ɔutanone	ND	10	"	"	"	"	"	"	U
-1,2-dichloroethene	ND	2	"	"	"	"	"	"	U
loroform	ND	2	"	"	"	"	"	"	U
,1-trichloroethane	**3**	2	"	"	"	"	"	"	
·bon tetrachloride	ND	2	"	"	"	"	"	"	U
ızene	ND	2	"	"	"	"	"	"	U
!-dichloroethane	ND	2	"	"	"	"	"	"	U
:hloroethene	ND	2	"	"	"	"	"	"	U
!-dichloropropane	ND	2	"	"	"	"	"	"	U
ɔmodichloromethane	ND	2	"	"	"	"	"	"	U
Methyl-2-pentanone (MIBK)	ND	10	"	"	"	"	"	"	U
-1,3-dichloropropene	ND	2	"	"	"	"	"	"	U
uene	ND	2	"	"	"	"	"	"	U
ns-1,3-dichloropropene	ND	2	"	"	"	"	"	"	U
,2-trichloroethane	ND	2	"	"	"	"	"	"	U
ıexanone	ND	10	"	"	"	"	"	"	U
rachloroethene	ND	2	"	"	"	"	"	"	U
ɔromochloromethane	ND	2	"	"	"	"	"	"	U
orobenzene	ND	2	"	"	"	"	"	"	U
ıylbenzene	ND	2	"	"	"	"	"	"	U
p-xylene	ND	4	"	"	"	"	"	"	U
:ylene	ND	2	"	"	"	"	"	"	U
rene	ND	2	"	"	"	"	"	"	U
ɔmoform	ND	2	"	"	"	"	"	"	U
,2,2-tetrachloroethane	ND	2	"	"	"	"	"	"	U
rogate: 1,2-Dichloroethane-d4	*102 %*	*69-132*			"	"	"	"	
rogate: Toluene-d8	*88.3 %*	*81-121*			"	"	"	"	
rogate: Bromofluorobenzene	*121 %*	*83-121*			"	"	"	"	

ender Consulting Service	Project: LCS Price List	
.O. Box 406	Project Number: 177 & 255 Great Arrow	**Reported:**
Buffalo NY, 14205	Project Manager: Doug Reid	08/25/04 15:13

Volatile Organic Compounds by EPA Method 8260B

Waste Stream Technology Inc.

nalyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
H42 (2-4) (4H12020-16) Soil	**Sampled: 08/12/04 00:00**	**Received: 08/12/04 15:54**							
loromethane	ND	10	ug/kg dry	1	AH41902	08/19/04	08/19/04	8260	U
nyl chloride	ND	10	"	"	"	"	"	"	U
omomethane	ND	10	"	"	"	"	"	"	U
loroethane	ND	10	"	"	"	"	"	"	U
1-dichloroethene	ND	2	"	"	"	"	"	"	U
etone	**204**	10	"	"	"	"	"	"	
rbon disulfide	ND	2	"	"	"	"	"	"	U
ethylene chloride	**7**	2	"	"	"	"	"	"	
ns-1,2-dichloroethene	ND	2	"	"	"	"	"	"	U
1-dichloroethane	ND	2	"	"	"	"	"	"	U
nyl acetate	ND	10	"	"	"	"	"	"	U
butanone	**40**	10	"	"	"	"	"	"	
s-1,2-dichloroethene	ND	2	"	"	"	"	"	"	U
loroform	ND	2	"	"	"	"	"	"	U
1,1-trichloroethane	ND	2	"	"	"	"	"	"	U
·on tetrachloride	ND	2	"	"	"	"	"	"	U
nzene	ND	2	"	"	"	"	"	"	U
2-dichloroethane	ND	2	"	"	"	"	"	"	U
chloroethene	ND	2	"	"	"	"	"	"	U
2-dichloropropane	ND	2	"	"	"	"	"	"	U
omodichloromethane	ND	2	"	"	"	"	"	"	U
Methyl-2-pentanone (MIBK)	ND	10	"	"	"	"	"	"	U
s-1,3-dichloropropene	ND	2	"	"	"	"	"	"	U
luene	**3**	2	"	"	"	"	"	"	
ns-1,3-dichloropropene	ND	2	"	"	"	"	"	"	U
1,2-trichloroethane	ND	2	"	"	"	"	"	"	U
hexanone	ND	10	"	"	"	"	"	"	U
rachloroethene	ND	2	"	"	"	"	"	"	U
bromochloromethane	ND	2	"	"	"	"	"	"	U
lorobenzene	ND	2	"	"	"	"	"	"	U
ylbenzene	ND	2	"	"	"	"	"	"	U
p-xylene	ND	4	"	"	"	"	"	"	U
xylene	ND	2	"	"	"	"	"	"	U
rene	ND	2	"	"	"	"	"	"	U
omoform	ND	2	"	"	"	"	"	"	U
1,2,2-tetrachloroethane	ND	2	"	"	"	"	"	"	U
rrogate: 1,2-Dichloroethane-d4		*105 %*	*69-132*		"	"	"	"	
rrogate: Toluene-d8		*90.0 %*	*81-121*		"	"	"	"	
rrogate: Bromofluorobenzene		*108 %*	*83-121*		"	"	"	"	

Lender Consulting Service	Project: LCS Price List	
P.O. Box 406	Project Number: 177 & 255 Great Arrow	**Reported:**
Buffalo NY, 14205	Project Manager: Doug Reid	08/25/04 15:13

Volatile Organic Compounds by EPA Method 8260B

Waste Stream Technology Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BH43 (2-4) (4H12020-17RE1) Soil Sampled: 08/12/04 00:00 Received: 08/12/04 15:54									
chloromethane	ND	10	ug/kg dry	1	AH42302	08/19/04	08/23/04	8260	U
vinyl chloride	ND	10	"	"	"	"	"	"	U
bromomethane	ND	10	"	"	"	"	"	"	U
chloroethane	ND	10	"	"	"	"	"	"	U
1,1-dichloroethene	ND	2	"	"	"	"	"	"	U
acetone	**148**	10	"	"	"	"	"	"	
carbon disulfide	ND	2	"	"	"	"	"	"	U
methylene chloride	ND	2	"	"	"	"	"	"	U
trans-1,2-dichloroethene	ND	2	"	"	"	"	"	"	U
1,1-dichloroethane	ND	2	"	"	"	"	"	"	U
vinyl acetate	ND	10	"	"	"	"	"	"	U
2-butanone	**32**	10	"	"	"	"	"	"	
cis-1,2-dichloroethene	ND	2	"	"	"	"	"	"	U
chloroform	ND	2	"	"	"	"	"	"	U
1,1,1-trichloroethane	ND	2	"	"	"	"	"	"	U
carbon tetrachloride	ND	2	"	"	"	"	"	"	U
benzene	ND	2	"	"	"	"	"	"	U
1,2-dichloroethane	ND	2	"	"	"	"	"	"	U
trichloroethene	ND	2	"	"	"	"	"	"	U
1,2-dichloropropane	ND	2	"	"	"	"	"	"	U
bromodichloromethane	ND	2	"	"	"	"	"	"	U
4-Methyl-2-pentanone (MIBK)	ND	10	"	"	"	"	"	"	U
cis-1,3-dichloropropene	ND	2	"	"	"	"	"	"	U
toluene	ND	2	"	"	"	"	"	"	U
trans-1,3-dichloropropene	ND	2	"	"	"	"	"	"	U
1,1,2-trichloroethane	ND	2	"	"	"	"	"	"	U
2-hexanone	ND	10	"	"	"	"	"	"	U
tetrachloroethene	ND	2	"	"	"	"	"	"	U
dibromochloromethane	ND	2	"	"	"	"	"	"	U
chlorobenzene	ND	2	"	"	"	"	"	"	U
ethylbenzene	ND	2	"	"	"	"	"	"	U
m,p-xylene	ND	4	"	"	"	"	"	"	U
o-xylene	ND	2	"	"	"	"	"	"	U
styrene	ND	2	"	"	"	"	"	"	U
bromoform	ND	2	"	"	"	"	"	"	U
1,1,2,2-tetrachloroethane	ND	2	"	"	"	"	"	"	U
Surrogate: 1,2-Dichloroethane-d4		*106 %*	*69-132*		"	"	"	"	
Surrogate: Toluene-d8		*92.3 %*	*81-121*		"	"	"	"	
Surrogate: Bromofluorobenzene		*98.0 %*	*83-121*		"	"	"	"	

Lender Consulting Service	Project: LCS Price List	
P.O. Box 406	Project Number: 177 & 255 Great Arrow	**Reported:**
Buffalo NY, 14205	Project Manager: Doug Reid	08/25/04 15:13

Semivolatile Organic Compounds by EPA Method 8270C

Waste Stream Technology Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
H20 (2-4) (4H12020-01) Soil Sampled: 08/11/04 00:00 Received: 08/12/04 15:54									
-Nitrosodimethylamine	ND	67	ug/kg dry	1	AH41727	08/17/04	08/20/04	8270	U
s(2-chloroethyl)ether	ND	67	"	"	"	"	"	"	U
ienol	ND	130	"	"	"	"	"	"	U
chlorophenol	ND	130	"	"	"	"	"	"	U
-dichlorobenzene	ND	67	"	"	"	"	"	"	U
4-dichlorobenzene	ND	67	"	"	"	"	"	"	U
2-dichlorobenzene	ND	67	"	"	"	"	"	"	U
s(2-chloroisopropyl)ether	ND	67	"	"	"	"	"	"	U
nzyl alcohol	ND	67	"	"	"	"	"	"	U
methylphenol	ND	67	"	"	"	"	"	"	U
xachloroethane	ND	67	"	"	"	"	"	"	U
-Nitrosodi-n-propylamine	ND	67	"	"	"	"	"	"	U
& 4-methylphenol	ND	130	"	"	"	"	"	"	U
trobenzene	ND	67	"	"	"	"	"	"	U
ophorone	ND	67	"	"	"	"	"	"	U
nitrophenol	ND	130	"	"	"	"	"	"	U
4-dimethylphenol	ND	130	"	"	"	"	"	"	U
is(2-chloroethoxy)methane	ND	67	"	"	"	"	"	"	U
oic acid	ND	330	"	"	"	"	"	"	U
4-dichlorophenol	ND	130	"	"	"	"	"	"	U
2,4-trichlorobenzene	ND	67	"	"	"	"	"	"	U
phthalene	ND	67	"	"	"	"	"	"	U
chloroaniline	ND	67	"	"	"	"	"	"	U
xachlorobutadiene	ND	67	"	"	"	"	"	"	U
chloro-3-methylphenol	ND	130	"	"	"	"	"	"	U
methylnaphthalene	ND	67	"	"	"	"	"	"	U
xachlorocyclopentadiene	ND	130	"	"	"	"	"	"	U
4,6-trichlorophenol	ND	130	"	"	"	"	"	"	U
4,5-trichlorophenol	ND	67	"	"	"	"	"	"	U
chloronaphthalene	ND	67	"	"	"	"	"	"	U
nitroaniline	ND	67	"	"	"	"	"	"	U
naphthylene	ND	67	"	"	"	"	"	"	U
methyl phthalate	ND	67	"	"	"	"	"	"	U
6-dinitrotoluene	ND	67	"	"	"	"	"	"	U
enaphthene	ND	67	"	"	"	"	"	"	U
nitroaniline	ND	67	"	"	"	"	"	"	U
4-dinitrophenol	ND	130	"	"	"	"	"	"	U
benzofuran	ND	67	"	"	"	"	"	"	U
4-dinitrotoluene	ND	67	"	"	"	"	"	"	U
nitrophenol	ND	130	"	"	"	"	"	"	U
lorene	ND	67	"	"	"	"	"	"	U
Chlorophenyl phenyl ether	ND	67	"	"	"	"	"	"	U

ender Consulting Service	Project: LCS Price List	
.O. Box 406	Project Number: 177 & 255 Great Arrow	**Reported:**
uffalo NY, 14205	Project Manager: Doug Reid	08/25/04 15:13

Semivolatile Organic Compounds by EPA Method 8270C

Waste Stream Technology Inc.

nalyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
120 (2-4) (4H12020-01) Soil	**Sampled: 08/11/04 00:00**	**Received: 08/12/04 15:54**							
ethyl phthalate	ND	67	ug/kg dry	1	AH41727	08/17/04	08/20/04	8270	U
itroaniline	ND	67	"	"	"	"	"	"	U
)-Dinitro-2-methylphenol	ND	130	"	"	"	"	"	"	U
itrosodiphenylamine	ND	67	"	"	"	"	"	"	U
)romophenylphenylether	ND	67	"	"	"	"	"	"	U
xachlorobenzene	ND	67	"	"	"	"	"	"	U
ntachlorophenol	ND	130	"	"	"	"	"	"	U
enanthrene	**106**	67	"	"	"	"	"	"	
hracene	ND	67	"	"	"	"	"	"	U
bazole	ND	67	"	"	"	"	"	"	U
-n-butyl phthalate	ND	67	"	"	"	"	"	"	U
nzidine	ND	330	"	"	"	"	"	"	U
oranthene	ND	67	"	"	"	"	"	"	U
rene	ND	67	"	"	"	"	"	"	U
tyl benzyl phthalate	ND	67	"	"	"	"	"	"	U
-Dichlorobenzidine	ND	67	"	"	"	"	"	"	U
z.) (a) anthracene	ND	67	"	"	"	"	"	"	U
ysene	ND	67	"	"	"	"	"	"	U
(2-ethylhexyl)phthalate	ND	67	"	"	"	"	"	"	U
-n-octyl phthalate	ND	67	"	"	"	"	"	"	U
nzo (b) fluoranthene	ND	67	"	"	"	"	"	"	U
nzo (k) fluoranthene	ND	67	"	"	"	"	"	"	U
nzo (a) pyrene	ND	67	"	"	"	"	"	"	U
leno (1,2,3-cd) pyrene	ND	67	"	"	"	"	"	"	U
benz (a,h) anthracene	ND	67	"	"	"	"	"	"	U
nzo (g,h,i) perylene	ND	67	"	"	"	"	"	"	U
rrogate: 2-Fluorophenol		*82.2 %*		*50-112*	"	"	"	"	
rrogate: Phenol-d6		*77.5 %*		*52-117*	"	"	"	"	
rrogate: Nitrobenzene-d5		*82.1 %*		*48-122*	"	"	"	"	
rrogate: 2-Fluorobiphenyl		*87.5 %*		*50-121*	"	"	"	"	
rogate: 2,4,6-Tribromophenol		*105 %*		*50-132*	"	"	"	"	
rrogate: Terphenyl-d14		*112 %*		*36-134*	"	"	"	"	

ender Consulting Service	Project: LCS Price List	
P.O. Box 406	Project Number: 177 & 255 Great Arrow	**Reported:**
Buffalo NY, 14205	Project Manager: Doug Reid	08/25/04 15:13

Semivolatile Organic Compounds by EPA Method 8270C

Waste Stream Technology Inc.

nalyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
H21 (2-4) (4H12020-02) Soil	**Sampled: 08/11/04 00:00**	**Received: 08/12/04 15:54**							
-Nitrosodimethylamine	ND	67	ug/kg dry	1	AH41727	08/17/04	08/20/04	8270	U
s(2-chloroethyl)ether	ND	67	"	"	"	"	"	"	U
ienol	ND	130	"	"	"	"	"	"	U
chlorophenol	ND	130	"	"	"	"	"	"	U
3-dichlorobenzene	ND	67	"	"	"	"	"	"	U
4-dichlorobenzene	ND	67	"	"	"	"	"	"	U
2-dichlorobenzene	ND	67	"	"	"	"	"	"	U
s(2-chloroisopropyl)ether	ND	67	"	"	"	"	"	"	U
nzyl alcohol	ND	67	"	"	"	"	"	"	U
methylphenol	ND	67	"	"	"	"	"	"	U
xachloroethane	ND	67	"	"	"	"	"	"	U
-Nitrosodi-n-propylamine	ND	67	"	"	"	"	"	"	U
& 4-methylphenol	ND	130	"	"	"	"	"	"	U
trobenzene	ND	67	"	"	"	"	"	"	U
ophorone	ND	67	"	"	"	"	"	"	U
nitrophenol	ND	130	"	"	"	"	"	"	U
-dimethylphenol	ND	130	"	"	"	"	"	"	U
2-chloroethoxy)methane	ND	67	"	"	"	"	"	"	U
nzoic acid	ND	330	"	"	"	"	"	"	U
4-dichlorophenol	ND	130	"	"	"	"	"	"	U
2,4-trichlorobenzene	ND	67	"	"	"	"	"	"	U
phthalene	ND	67	"	"	"	"	"	"	U
chloroaniline	ND	67	"	"	"	"	"	"	U
xachlorobutadiene	ND	67	"	"	"	"	"	"	U
chloro-3-methylphenol	ND	130	"	"	"	"	"	"	U
methylnaphthalene	ND	67	"	"	"	"	"	"	U
xachlorocyclopentadiene	ND	130	"	"	"	"	"	"	U
4,6-trichlorophenol	ND	130	"	"	"	"	"	"	U
4,5-trichlorophenol	ND	67	"	"	"	"	"	"	U
chloronaphthalene	ND	67	"	"	"	"	"	"	U
nitroaniline	ND	67	"	"	"	"	"	"	U
enaphthylene	ND	67	"	"	"	"	"	"	U
methyl phthalate	ND	67	"	"	"	"	"	"	U
6-dinitrotoluene	ND	67	"	"	"	"	"	"	U
enaphthene	ND	67	"	"	"	"	"	"	U
nitroaniline	ND	67	"	"	"	"	"	"	U
4-dinitrophenol	ND	130	"	"	"	"	"	"	U
benzofuran	ND	67	"	"	"	"	"	"	U
4-dinitrotoluene	ND	67	"	"	"	"	"	"	U
nitrophenol	ND	130	"	"	"	"	"	"	U
iorene	ND	67	"	"	"	"	"	"	U
Chlorophenyl phenyl ether	ND	67	"	"	"	"	"	"	U

ender Consulting Service	Project: LCS Price List	
.O. Box 406	Project Number: 177 & 255 Great Arrow	**Reported:**
uffalo NY, 14205	Project Manager: Doug Reid	08/25/04 15:13

Semivolatile Organic Compounds by EPA Method 8270C

Waste Stream Technology Inc.

alyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
121 (2-4) (4H12020-02) Soil	**Sampled: 08/11/04 00:00**	**Received: 08/12/04 15:54**							
ethyl phthalate	ND	67	ug/kg dry	1	AH41727	08/17/04	08/20/04	8270	U
itroaniline	ND	67	"	"	"	"	"	"	U
-Dinitro-2-methylphenol	ND	130	"	"	"	"	"	"	U
itrosodiphenylamine	ND	67	"	"	"	"	"	"	U
romophenylphenylether	ND	67	"	"	"	"	"	"	U
achlorobenzene	ND	67	"	"	"	"	"	"	U
ntachlorophenol	ND	130	"	"	"	"	"	"	U
enanthrene	ND	67	"	"	"	"	"	"	U
hracene	ND	67	"	"	"	"	"	"	U
bazole	ND	67	"	"	"	"	"	"	U
-n-butyl phthalate	ND	67	"	"	"	"	"	"	U
nzidine	ND	330	"	"	"	"	"	"	U
oranthene	ND	67	"	"	"	"	"	"	U
rene	ND	67	"	"	"	"	"	"	U
tyl benzyl phthalate	ND	67	"	"	"	"	"	"	U
-Dichlorobenzidine	ND	67	"	"	"	"	"	"	U
nzo (a) anthracene	ND	67	"	"	"	"	"	"	U
ysene	ND	67	"	"	"	"	"	"	U
(2-ethylhexyl)phthalate	ND	67	"	"	"	"	"	"	U
-n-octyl phthalate	ND	67	"	"	"	"	"	"	U
nzo (b) fluoranthene	ND	67	"	"	"	"	"	"	U
nzo (k) fluoranthene	ND	67	"	"	"	"	"	"	U
nzo (a) pyrene	ND	67	"	"	"	"	"	"	U
leno (1,2,3-cd) pyrene	ND	67	"	"	"	"	"	"	U
benz (a,h) anthracene	ND	67	"	"	"	"	"	"	U
nzo (g,h,i) perylene	ND	67	"	"	"	"	"	"	U
rrogate: 2-Fluorophenol		*78.5 %*	*50-112*		"	"	"	"	
rrogate: Phenol-d6		*76.1 %*	*52-117*		"	"	"	"	
rrogate: Nitrobenzene-d5		*82.6 %*	*48-122*		"	"	"	"	
rrogate: 2-Fluorobiphenyl		*86.9 %*	*50-121*		"	"	"	"	
rrogate: 2,4,6-Tribromophenol		*97.6 %*	*50-132*		"	"	"	"	
rrogate: Terphenyl-d14		*100 %*	*36-134*		"	"	"	"	

Lender Consulting Service	Project: LCS Price List	
P.O. Box 406	Project Number: 177 & 255 Great Arrow	**Reported:**
Buffalo NY, 14205	Project Manager: Doug Reid	08/25/04 15:13

Semivolatile Organic Compounds by EPA Method 8270C

Waste Stream Technology Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
H22 (6-8) (4H12020-03) Soil Sampled: 08/11/04 00:00 Received: 08/12/04 15:54									
-Nitrosodimethylamine	ND	67	ug/kg dry	1	AH41727	08/17/04	08/20/04	8270	U
s(2-chloroethyl)ether	ND	67	"	"	"	"	"	"	U
ıenol	ND	130	"	"	"	"	"	"	U
-chlorophenol	ND	130	"	"	"	"	"	"	U
3-dichlorobenzene	ND	67	"	"	"	"	"	"	U
4-dichlorobenzene	ND	67	"	"	"	"	"	"	U
2-dichlorobenzene	ND	67	"	"	"	"	"	"	U
s(2-chloroisopropyl)ether	ND	67	"	"	"	"	"	"	U
enzyl alcohol	ND	67	"	"	"	"	"	"	U
-methylphenol	ND	67	"	"	"	"	"	"	U
exachloroethane	ND	67	"	"	"	"	"	"	U
-Nitrosodi-n-propylamine	ND	67	"	"	"	"	"	"	U
& 4-methylphenol	ND	130	"	"	"	"	"	"	U
obenzene	ND	67	"	"	"	"	"	"	U
ophorone	ND	67	"	"	"	"	"	"	U
-nitrophenol	ND	130	"	"	"	"	"	"	U
4-dimethylphenol	ND	130	"	"	"	"	"	"	U
is(2-chloroethoxy)methane	ND	67	"	"	"	"	"	"	U
enzoic acid	ND	330	"	"	"	"	"	"	U
4-dichlorophenol	ND	130	"	"	"	"	"	"	U
2,4-trichlorobenzene	ND	67	"	"	"	"	"	"	U
aphthalene	ND	67	"	"	"	"	"	"	U
-chloroaniline	ND	67	"	"	"	"	"	"	U
exachlorobutadiene	ND	67	"	"	"	"	"	"	U
-chloro-3-methylphenol	ND	130	"	"	"	"	"	"	U
-methylnaphthalene	ND	67	"	"	"	"	"	"	U
exachlorocyclopentadiene	ND	130	"	"	"	"	"	"	U
4,6-trichlorophenol	ND	130	"	"	"	"	"	"	U
4,5-trichlorophenol	ND	67	"	"	"	"	"	"	U
-chloronaphthalene	ND	67	"	"	"	"	"	"	U
nitroaniline	ND	67	"	"	"	"	"	"	U
enaphthylene	ND	67	"	"	"	"	"	"	U
imethyl phthalate	ND	67	"	"	"	"	"	"	U
6-dinitrotoluene	ND	67	"	"	"	"	"	"	U
enaphthene	ND	67	"	"	"	"	"	"	U
nitroaniline	ND	67	"	"	"	"	"	"	U
4-dinitrophenol	ND	130	"	"	"	"	"	"	U
benzofuran	ND	67	"	"	"	"	"	"	U
4-dinitrotoluene	ND	67	"	"	"	"	"	"	U
nitrophenol	ND	130	"	"	"	"	"	"	U
iorene	ND	67	"	"	"	"	"	"	U
-Chlorophenyl phenyl ether	ND	67	"	"	"	"	"	"	U

Lender Consulting Service	Project: LCS Price List	
P.O. Box 406	Project Number: 177 & 255 Great Arrow	**Reported:**
Buffalo NY, 14205	Project Manager: Doug Reid	08/25/04 15:13

Semivolatile Organic Compounds by EPA Method 8270C

Waste Stream Technology Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
H22 (6-8) (4H12020-03) Soil	**Sampled: 08/11/04 00:00**	**Received: 08/12/04 15:54**							
iethyl phthalate	ND	67	ug/kg dry	1	AH41727	08/17/04	08/20/04	8270	U
-nitroaniline	ND	67	"	"	"	"	"	"	U
6-Dinitro-2-methylphenol	ND	130	"	"	"	"	"	"	U
-itrosodiphenylamine	ND	67	"	"	"	"	"	"	U
-bromophenylphenylether	ND	67	"	"	"	"	"	"	U
exachlorobenzene	ND	67	"	"	"	"	"	"	U
entachlorophenol	ND	130	"	"	"	"	"	"	U
henanthrene	ND	67	"	"	"	"	"	"	U
thracene	ND	67	"	"	"	"	"	"	U
rbazole	ND	67	"	"	"	"	"	"	U
i-n-butyl phthalate	ND	67	"	"	"	"	"	"	U
enzidine	ND	330	"	"	"	"	"	"	U
uoranthene	ND	67	"	"	"	"	"	"	U
rene	ND	67	"	"	"	"	"	"	U
utyl benzyl phthalate	ND	67	"	"	"	"	"	"	U
'-Dichlorobenzidine	ND	67	"	"	"	"	"	"	U
(a) anthracene	ND	67	"	"	"	"	"	"	U
ysene	ND	67	"	"	"	"	"	"	U
s(2-ethylhexyl)phthalate	ND	67	"	"	"	"	"	"	U
i-n-octyl phthalate	ND	67	"	"	"	"	"	"	U
enzo (b) fluoranthene	ND	67	"	"	"	"	"	"	U
enzo (k) fluoranthene	ND	67	"	"	"	"	"	"	U
enzo (a) pyrene	ND	67	"	"	"	"	"	"	U
deno (1,2,3-cd) pyrene	ND	67	"	"	"	"	"	"	U
ibenz (a,h) anthracene	ND	67	"	"	"	"	"	"	U
enzo (g,h,i) perylene	ND	67	"	"	"	"	"	"	U
rrogate: 2-Fluorophenol		*62.5 %*	*50-112*		"	"	"	"	
rrogate: Phenol-d6		*61.7 %*	*52-117*		"	"	"	"	
rrogate: Nitrobenzene-d5		*69.2 %*	*48-122*		"	"	"	"	
rrogate: 2-Fluorobiphenyl		*73.7 %*	*50-121*		"	"	"	"	
rrogate: 2,4,6-Tribromophenol		*92.7 %*	*50-132*		"	"	"	"	
rrogate: Terphenyl-d14		*101 %*	*36-134*		"	"	"	"	

ender Consulting Service	Project: LCS Price List	
.O. Box 406	Project Number: 177 & 255 Great Arrow	**Reported:**
uffalo NY, 14205	Project Manager: Doug Reid	08/25/04 15:13

Semivolatile Organic Compounds by EPA Method 8270C

Waste Stream Technology Inc.

alyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
123 (0-2) (4H12020-04) Soil	**Sampled: 08/11/04 00:00**	**Received: 08/12/04 15:54**							
Nitrosodimethylamine	ND	67	ug/kg dry	1	AH41727	08/17/04	08/20/04	8270	U
(2-chloroethyl)ether	ND	67	"	"	"	"	"	"	U
enol	ND	130	"	"	"	"	"	"	U
hlorophenol	ND	130	"	"	"	"	"	"	U
-dichlorobenzene	ND	67	"	"	"	"	"	"	U
-dichlorobenzene	ND	67	"	"	"	"	"	"	U
-dichlorobenzene	ND	67	"	"	"	"	"	"	U
(2-chloroisopropyl)ether	ND	67	"	"	"	"	"	"	U
nzyl alcohol	ND	67	"	"	"	"	"	"	U
nethylphenol	ND	67	"	"	"	"	"	"	U
achloroethane	ND	67	"	"	"	"	"	"	U
Nitrosodi-n-propylamine	ND	67	"	"	"	"	"	"	U
4-methylphenol	ND	130	"	"	"	"	"	"	U
obenzene	ND	67	"	"	"	"	"	"	U
phorone	ND	67	"	"	"	"	"	"	U
itrophenol	ND	130	"	"	"	"	"	"	U
-dimethylphenol	ND	130	"	"	"	"	"	"	U
2-chloroethoxy)methane	ND	67	"	"	"	"	"	"	U
zoic acid	ND	330	"	"	"	"	"	"	U
-dichlorophenol	ND	130	"	"	"	"	"	"	U
,4-trichlorobenzene	ND	67	"	"	"	"	"	"	U
phthalene	ND	67	"	"	"	"	"	"	U
hloroaniline	ND	67	"	"	"	"	"	"	U
achlorobutadiene	ND	67	"	"	"	"	"	"	U
hloro-3-methylphenol	ND	130	"	"	"	"	"	"	U
ethylnaphthalene	ND	67	"	"	"	"	"	"	U
achlorocyclopentadiene	ND	130	"	"	"	"	"	"	U
,6-trichlorophenol	ND	130	"	"	"	"	"	"	U
,5-trichlorophenol	ND	67	"	"	"	"	"	"	U
hloronaphthalene	ND	67	"	"	"	"	"	"	U
itroaniline	ND	67	"	"	"	"	"	"	U
naphthylene	ND	67	"	"	"	"	"	"	U
nethyl phthalate	ND	67	"	"	"	"	"	"	U
-dinitrotoluene	ND	67	"	"	"	"	"	"	U
naphthene	ND	67	"	"	"	"	"	"	U
itroaniline	ND	67	"	"	"	"	"	"	U
-dinitrophenol	ND	130	"	"	"	"	"	"	U
enzofuran	ND	67	"	"	"	"	"	"	U
-dinitrotoluene	ND	67	"	"	"	"	"	"	U
itrophenol	ND	130	"	"	"	"	"	"	U
orene	ND	67	"	"	"	"	"	"	U
hlorophenyl phenyl ether	ND	67	"	"	"	"	"	"	U

Lender Consulting Service	Project: LCS Price List	
P.O. Box 406	Project Number: 177 & 255 Great Arrow	**Reported:**
Buffalo NY, 14205	Project Manager: Doug Reid	08/25/04 15:13

Semivolatile Organic Compounds by EPA Method 8270C

Waste Stream Technology Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
H23 (0-2) (4H12020-04) Soil Sampled: 08/11/04 00:00 Received: 08/12/04 15:54									
iethyl phthalate	ND	67	ug/kg dry	1	AH41727	08/17/04	08/20/04	8270	U
-nitroaniline	ND	67	"	"	"	"	"	"	U
.6-Dinitro-2-methylphenol	ND	130	"	"	"	"	"	"	U
-nitrosodiphenylamine	ND	67	"	"	"	"	"	"	U
-bromophenylphenylether	ND	67	"	"	"	"	"	"	U
exachlorobenzene	ND	67	"	"	"	"	"	"	U
entachlorophenol	ND	130	"	"	"	"	"	"	U
henanthrene	ND	67	"	"	"	"	"	"	U
nthracene	ND	67	"	"	"	"	"	"	U
rbazole	ND	67	"	"	"	"	"	"	U
i-n-butyl phthalate	ND	67	"	"	"	"	"	"	U
enzidine	ND	330	"	"	"	"	"	"	U
uoranthene	ND	67	"	"	"	"	"	"	U
yrene	ND	67	"	"	"	"	"	"	U
utyl benzyl phthalate	ND	67	"	"	"	"	"	"	U
3'-Dichlorobenzidine	ND	67	"	"	"	"	"	"	U
enzo (a) anthracene	ND	67	"	"	"	"	"	"	U
rysene	ND	67	"	"	"	"	"	"	U
-ethylhexyl)phthalate	ND	67	"	"	"	"	"	"	U
-octyl phthalate	ND	67	"	"	"	"	"	"	U
enzo (b) fluoranthene	ND	67	"	"	"	"	"	"	U
enzo (k) fluoranthene	ND	67	"	"	"	"	"	"	U
enzo (a) pyrene	ND	67	"	"	"	"	"	"	U
deno (1,2,3-cd) pyrene	ND	67	"	"	"	"	"	"	U
ibenz (a,h) anthracene	ND	67	"	"	"	"	"	"	U
enzo (g,h,i) perylene	ND	67	"	"	"	"	"	"	U
rrogate: 2-Fluorophenol		*76.5 %*	*50-112*		"	"	"	"	
rrogate: Phenol-d6		*74.0 %*	*52-117*		"	"	"	"	
rrogate: Nitrobenzene-d5		*78.0 %*	*48-122*		"	"	"	"	
rrogate: 2-Fluorobiphenyl		*88.9 %*	*50-121*		"	"	"	"	
rrogate: 2,4,6-Tribromophenol		*101 %*	*50-132*		"	"	"	"	
rrogate: Terphenyl-d14		*103 %*	*36-134*		"	"	"	"	

ender Consulting Service	Project: LCS Price List	
.O. Box 406	Project Number: 177 & 255 Great Arrow	**Reported:**
uffalo NY, 14205	Project Manager: Doug Reid	08/25/04 15:13

Semivolatile Organic Compounds by EPA Method 8270C

Waste Stream Technology Inc.

alyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
124 (0-2) (4H12020-05) Soil	**Sampled: 08/11/04 00:00**	**Received: 08/12/04 15:54**							
Nitrosodimethylamine	ND	67	ug/kg dry	1	AH41727	08/17/04	08/21/04	8270	U
(2-chloroethyl)ether	ND	67	"	"	"	"	"	"	U
enol	ND	130	"	"	"	"	"	"	U
hlorophenol	ND	130	"	"	"	"	"	"	U
-dichlorobenzene	ND	67	"	"	"	"	"	"	U
-dichlorobenzene	ND	67	"	"	"	"	"	"	U
-dichlorobenzene	ND	67	"	"	"	"	"	"	U
(2-chloroisopropyl)ether	ND	67	"	"	"	"	"	"	U
enzyl alcohol	ND	67	"	"	"	"	"	"	U
ethylphenol	ND	67	"	"	"	"	"	"	U
achloroethane	ND	67	"	"	"	"	"	"	U
Nitrosodi-n-propylamine	ND	67	"	"	"	"	"	"	U
4-methylphenol	ND	130	"	"	"	"	"	"	U
obenzene	ND	67	"	"	"	"	"	"	U
phorone	ND	67	"	"	"	"	"	"	U
itrophenol	ND	130	"	"	"	"	"	"	U
-dimethylphenol	ND	130	"	"	"	"	"	"	U
(2-chloroethoxy)methane	ND	67	"	"	"	"	"	"	U
enzoic acid	ND	330	"	"	"	"	"	"	U
-dichlorophenol	ND	130	"	"	"	"	"	"	U
,4-trichlorobenzene	ND	67	"	"	"	"	"	"	U
aphthalene	ND	67	"	"	"	"	"	"	U
hloroaniline	ND	67	"	"	"	"	"	"	U
achlorobutadiene	ND	67	"	"	"	"	"	"	U
hloro-3-methylphenol	ND	130	"	"	"	"	"	"	U
ethylnaphthalene	ND	67	"	"	"	"	"	"	U
achlorocyclopentadiene	ND	130	"	"	"	"	"	"	U
,6-trichlorophenol	ND	130	"	"	"	"	"	"	U
,5-trichlorophenol	ND	67	"	"	"	"	"	"	U
hloronaphthalene	ND	67	"	"	"	"	"	"	U
itroaniline	ND	67	"	"	"	"	"	"	U
naphthylene	ND	67	"	"	"	"	"	"	U
nethyl phthalate	ND	67	"	"	"	"	"	"	U
-dinitrotoluene	ND	67	"	"	"	"	"	"	U
naphthene	ND	67	"	"	"	"	"	"	U
itroaniline	ND	67	"	"	"	"	"	"	U
-dinitrophenol	ND	130	"	"	"	"	"	"	U
enzofuran	ND	67	"	"	"	"	"	"	U
-dinitrotoluene	ND	67	"	"	"	"	"	"	U
itrophenol	ND	130	"	"	"	"	"	"	U
orene	ND	67	"	"	"	"	"	"	U
hlorophenyl phenyl ether	ND	67	"	"	"	"	"	"	U

ender Consulting Service	Project: LCS Price List	
.O. Box 406	Project Number: 177 & 255 Great Arrow	**Reported:**
Buffalo NY, 14205	Project Manager: Doug Reid	08/25/04 15:13

Semivolatile Organic Compounds by EPA Method 8270C

Waste Stream Technology Inc.

nalyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
-124 (0-2) (4H12020-05) Soil	**Sampled: 08/11/04 00:00**	**Received: 08/12/04 15:54**							
ethyl phthalate	ND	67	ug/kg dry	1	AH41727	08/17/04	08/21/04	8270	U
nitroaniline	ND	67	"	"	"	"	"	"	U
-Dinitro-2-methylphenol	ND	130	"	"	"	"	"	"	U
nitrosodiphenylamine	ND	67	"	"	"	"	"	"	U
bromophenylphenylether	ND	67	"	"	"	"	"	"	U
xachlorobenzene	ND	67	"	"	"	"	"	"	U
ntachlorophenol	ND	130	"	"	"	"	"	"	U
enanthrene	**300**	67	"	"	"	"	"	"	
thracene	ND	67	"	"	"	"	"	"	U
rbazole	ND	67	"	"	"	"	"	"	U
-n-butyl phthalate	**182**	67	"	"	"	"	"	"	
nzidine	ND	330	"	"	"	"	"	"	U
oranthene	**690**	67	"	"	"	"	"	"	
rene	**1100**	67	"	"	"	"	"	"	
tyl benzyl phthalate	ND	67	"	"	"	"	"	"	U
'-Dichlorobenzidine	ND	67	"	"	"	"	"	"	U
nzo (a) anthracene	**589**	67	"	"	"	"	"	"	
rysene	**560**	67	"	"	"	"	"	"	
s(2-ethylhexyl)phthalate	**100**	67	"	"	"	"	"	"	
-n-octyl phthalate	ND	67	"	"	"	"	"	"	U
nzo (b) fluoranthene	**859**	67	"	"	"	"	"	"	
nzo (k) fluoranthene	**271**	67	"	"	"	"	"	"	
nzo (a) pyrene	**552**	67	"	"	"	"	"	"	
deno (1,2,3-cd) pyrene	**174**	67	"	"	"	"	"	"	
benz (a,h) anthracene	**102**	67	"	"	"	"	"	"	
nzo (g,h,i) perylene	**159**	67	"	"	"	"	"	"	
rrogate: 2-Fluorophenol		*78.4 %*	*50-112*		"	"	"	"	
rrogate: Phenol-d6		*75.5 %*	*52-117*		"	"	"	"	
rrogate: Nitrobenzene-d5		*80.4 %*	*48-122*		"	"	"	"	
rrogate: 2-Fluorobiphenyl		*88.6 %*	*50-121*		"	"	"	"	
rrogate: 2,4,6-Tribromophenol		*97.2 %*	*50-132*		"	"	"	"	
rrogate: Terphenyl-d14		*145 %*	*36-134*		"	"	"	"	*S-04*

ender Consulting Service	Project: LCS Price List	
.O. Box 406	Project Number: 177 & 255 Great Arrow	**Reported:**
uffalo NY, 14205	Project Manager: Doug Reid	08/25/04 15:13

Semivolatile Organic Compounds by EPA Method 8270C

Waste Stream Technology Inc.

nalyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
125 (2-4) (4H12020-06) Soil Sampled: 08/11/04 00:00 Received: 08/12/04 15:54									
Nitrosodimethylamine	ND	67	ug/kg dry	1	AH41727	08/17/04	08/20/04	8270	U
(2-chloroethyl)ether	ND	67	"	"	"	"	"	"	U
enol	ND	130	"	"	"	"	"	"	U
chlorophenol	ND	130	"	"	"	"	"	"	U
-dichlorobenzene	ND	67	"	"	"	"	"	"	U
-dichlorobenzene	ND	67	"	"	"	"	"	"	U
-dichlorobenzene	ND	67	"	"	"	"	"	"	U
(2-chloroisopropyl)ether	ND	67	"	"	"	"	"	"	U
nzyl alcohol	ND	67	"	"	"	"	"	"	U
nethylphenol	ND	67	"	"	"	"	"	"	U
xachloroethane	ND	67	"	"	"	"	"	"	U
Nitrosodi-n-propylamine	ND	67	"	"	"	"	"	"	U
& 4-methylphenol	ND	130	"	"	"	"	"	"	U
robenzene	ND	67	"	"	"	"	"	"	U
phorone	ND	67	"	"	"	"	"	"	U
itrophenol	ND	130	"	"	"	"	"	"	U
imethylphenol	ND	130	"	"	"	"	"	"	U
2-chloroethoxy)methane	ND	67	"	"	"	"	"	"	U
nzoic acid	ND	330	"	"	"	"	"	"	U
-dichlorophenol	ND	130	"	"	"	"	"	"	U
2,4-trichlorobenzene	ND	67	"	"	"	"	"	"	U
phthalene	ND	67	"	"	"	"	"	"	U
chloroaniline	ND	67	"	"	"	"	"	"	U
xachlorobutadiene	ND	67	"	"	"	"	"	"	U
chloro-3-methylphenol	ND	130	"	"	"	"	"	"	U
methylnaphthalene	ND	67	"	"	"	"	"	"	U
xachlorocyclopentadiene	ND	130	"	"	"	"	"	"	U
4,6-trichlorophenol	ND	130	"	"	"	"	"	"	U
4,5-trichlorophenol	ND	67	"	"	"	"	"	"	U
chloronaphthalene	ND	67	"	"	"	"	"	"	U
nitroaniline	ND	67	"	"	"	"	"	"	U
enaphthylene	ND	67	"	"	"	"	"	"	U
methyl phthalate	ND	67	"	"	"	"	"	"	U
6-dinitrotoluene	ND	67	"	"	"	"	"	"	U
enaphthene	ND	67	"	"	"	"	"	"	U
nitroaniline	ND	67	"	"	"	"	"	"	U
4-dinitrophenol	ND	130	"	"	"	"	"	"	U
benzofuran	ND	67	"	"	"	"	"	"	U
4-dinitrotoluene	ND	67	"	"	"	"	"	"	U
nitrophenol	ND	130	"	"	"	"	"	"	U
lorene	ND	67	"	"	"	"	"	"	U
Chlorophenyl phenyl ether	ND	67	"	"	"	"	"	"	U

,ender Consulting Service	Project: LCS Price List	
?.O. Box 406	Project Number: 177 & 255 Great Arrow	**Reported:**
3uffalo NY, 14205	Project Manager: Doug Reid	08/25/04 15:13

Semivolatile Organic Compounds by EPA Method 8270C

Waste Stream Technology Inc.

nalyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
H25 (2-4) (4H12020-06) Soil Sampled: 08/11/04 00:00 Received: 08/12/04 15:54									
.ethyl phthalate	ND	67	ug/kg dry	1	AH41727	08/17/04	08/20/04	8270	U
nitroaniline	ND	67	"	"	"	"	"	"	U
5-Dinitro-2-methylphenol	ND	130	"	"	"	"	"	"	U
nitrosodiphenylamine	ND	67	"	"	"	"	"	"	U
bromophenylphenylether	ND	67	"	"	"	"	"	"	U
xachlorobenzene	ND	67	"	"	"	"	"	"	U
ntachlorophenol	ND	130	"	"	"	"	"	"	U
ienanthrene	**269**	67	"	"	"	"	"	"	
thracene	ND	67	"	"	"	"	"	"	U
rbazole	ND	67	"	"	"	"	"	"	U
-n-butyl phthalate	ND	67	"	"	"	"	"	"	U
nzidine	ND	330	"	"	"	"	"	"	U
ioranthene	**1050**	67	"	"	"	"	"	"	
rene	**1180**	67	"	"	"	"	"	"	
ityl benzyl phthalate	ND	67	"	"	"	"	"	"	U
'-Dichlorobenzidine	ND	67	"	"	"	"	"	"	U
:zo (a) anthracene	**493**	67	"	"	"	"	"	"	
rysene	**435**	67	"	"	"	"	"	"	
s(2-ethylhexyl)phthalate	ND	67	"	"	"	"	"	"	U
.-n-octyl phthalate	ND	67	"	"	"	"	"	"	U
:nzo (b) fluoranthene	**557**	67	"	"	"	"	"	"	
:nzo (k) fluoranthene	**195**	67	"	"	"	"	"	"	
:nzo (a) pyrene	**420**	67	"	"	"	"	"	"	
deno (1,2,3-cd) pyrene	**127**	67	"	"	"	"	"	"	
.benz (a,h) anthracene	**110**	67	"	"	"	"	"	"	
:nzo (g,h,i) perylene	**141**	67	"	"	"	"	"	"	
'rrogate: 2-Fluorophenol		*77.3 %*	*50-112*		"	"	"	"	
'rrogate: Phenol-d6		*78.0 %*	*52-117*		"	"	"	"	
'rrogate: Nitrobenzene-d5		*81.6 %*	*48-122*		"	"	"	"	
'rrogate: 2-Fluorobiphenyl		*87.7 %*	*50-121*		"	"	"	"	
'rrogate: 2,4,6-Tribromophenol		*92.9 %*	*50-132*		"	"	"	"	
'rrogate: Terphenyl-d14		*119 %*	*36-134*		"	"	"	"	

ender Consulting Service	Project: LCS Price List	
.O. Box 406	Project Number: 177 & 255 Great Arrow	**Reported:**
uffalo NY, 14205	Project Manager: Doug Reid	08/25/04 15:13

Semivolatile Organic Compounds by EPA Method 8270C

Waste Stream Technology Inc.

ıalyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
126 (0-2) (4H12020-07) Soil	**Sampled: 08/11/04 00:00**	**Received: 08/12/04 15:54**							
Nitrosodimethylamine	ND	67	ug/kg dry	1	AH41727	08/17/04	08/20/04	8270	U
(2-chloroethyl)ether	ND	67	"	"	"	"	"	"	U
ɜnol	ND	130	"	"	"	"	"	"	U
hlorophenol	ND	130	"	"	"	"	"	"	U
- ıichlorobenzene	ND	67	"	"	"	"	"	"	U
- ıichlorobenzene	ND	67	"	"	"	"	"	"	U
-dichlorobenzene	ND	67	"	"	"	"	"	"	U
(2-chloroisopropyl)ether	ND	67	"	"	"	"	"	"	U
ızyl alcohol	ND	67	"	"	"	"	"	"	U
nethylphenol	ND	67	"	"	"	"	"	"	U
ɜachloroethane	ND	67	"	"	"	"	"	"	U
Nitrosodi-n-propylamine	ND	67	"	"	"	"	"	"	U
ɜ 4-methylphenol	ND	130	"	"	"	"	"	"	U
robenzene	ND	67	"	"	"	"	"	"	U
phorone	ND	67	"	"	"	"	"	"	U
ıitrophenol	ND	130	"	"	"	"	"	"	U
-dimethylphenol	ND	130	"	"	"	"	"	"	U
- 2-chloroethoxy)methane	ND	67	"	"	"	"	"	"	U
ızoic acid	ND	330	"	"	"	"	"	"	U
-dichlorophenol	ND	130	"	"	"	"	"	"	U
,4-trichlorobenzene	ND	67	"	"	"	"	"	"	U
ɔhthalene	ND	67	"	"	"	"	"	"	U
ɜhloroaniline	ND	67	"	"	"	"	"	"	U
ɜachlorobutadiene	ND	67	"	"	"	"	"	"	U
ɜhloro-3-methylphenol	ND	130	"	"	"	"	"	"	U
nethylnaphthalene	ND	67	"	"	"	"	"	"	U
ɜachlorocyclopentadiene	ND	130	"	"	"	"	"	"	U
,6-trichlorophenol	ND	130	"	"	"	"	"	"	U
,5-trichlorophenol	ND	67	"	"	"	"	"	"	U
ɜhloronaphthalene	ND	67	"	"	"	"	"	"	U
ıitroaniline	ND	67	"	"	"	"	"	"	U
ɜnaphthylene	**91**	67	"	"	"	"	"	"	
ıethyl phthalate	ND	67	"	"	"	"	"	"	U
ɔ-dinitrotoluene	ND	67	"	"	"	"	"	"	U
ɜnaphthene	**132**	67	"	"	"	"	"	"	
ıitroaniline	ND	67	"	"	"	"	"	"	U
-dinitrophenol	ND	130	"	"	"	"	"	"	U
ɔenzofuran	**99**	67	"	"	"	"	"	"	
-dinitrotoluene	ND	67	"	"	"	"	"	"	U
ıitrophenol	ND	130	"	"	"	"	"	"	U
orene	**236**	67	"	"	"	"	"	"	
Chlorophenyl phenyl ether	ND	67	"	"	"	"	"	"	U

ender Consulting Service	Project: LCS Price List	
.O. Box 406	Project Number: 177 & 255 Great Arrow	**Reported:**
uffalo NY, 14205	Project Manager: Doug Reid	08/25/04 15:13

Semivolatile Organic Compounds by EPA Method 8270C

Waste Stream Technology Inc.

alyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
I26 (0-2) (4H12020-07) Soil	**Sampled: 08/11/04 00:00**	**Received: 08/12/04 15:54**							
ethyl phthalate	ND	67	ug/kg dry	1	AH41727	08/17/04	08/20/04	8270	U
itroaniline	ND	67	"	"	"	"	"	"	U
-Dinitro-2-methylphenol	ND	130	"	"	"	"	"	"	U
itrosodiphenylamine	ND	67	"	"	"	"	"	"	U
romophenylphenylether	ND	67	"	"	"	"	"	"	U
achlorobenzene	ND	67	"	"	"	"	"	"	U
ntachlorophenol	ND	130	"	"	"	"	"	"	U
enanthrene	**2950**	67	"	"	"	"	"	"	
thracene	**770**	67	"	"	"	"	"	"	
bazole	ND	67	"	"	"	"	"	"	U
n-butyl phthalate	ND	67	"	"	"	"	"	"	U
nzidine	ND	330	"	"	"	"	"	"	U
oranthene	**3300**	67	"	"	"	"	"	"	
rene	**4260**	67	"	"	"	"	"	"	
tyl benzyl phthalate	ND	67	"	"	"	"	"	"	U
-Dichlorobenzidine	ND	67	"	"	"	"	"	"	U
nzo (a) **anthracene**	**1360**	67	"	"	"	"	"	"	
rysene	**1200**	67	"	"	"	"	"	"	
(2-ethylhexyl)phthalate	ND	67	"	"	"	"	"	"	U
n-octyl phthalate	ND	67	"	"	"	"	"	"	U
nzo (b) fluoranthene	**1350**	67	"	"	"	"	"	"	
nzo (k) fluoranthene	**457**	67	"	"	"	"	"	"	
nzo (a) pyrene	**1100**	67	"	"	"	"	"	"	
leno (1,2,3-cd) pyrene	**251**	67	"	"	"	"	"	"	
benz (a,h) anthracene	**122**	67	"	"	"	"	"	"	
nzo (g,h,i) perylene	**256**	67	"	"	"	"	"	"	
rogate: 2-Fluorophenol		*74.5 %*	*50-112*	"	"	"	"	"	
rogate: Phenol-d6		*73.8 %*	*52-117*	"	"	"	"	"	
rogate: Nitrobenzene-d5		*77.7 %*	*48-122*	"	"	"	"	"	
rogate: 2-Fluorobiphenyl		*86.9 %*	*50-121*	"	"	"	"	"	
rogate: 2,4,6-Tribromophenol		*95.5 %*	*50-132*	"	"	"	"	"	
rogate: Terphenyl-d14		*116 %*	*36-134*	"	"	"	"	"	

.ender Consulting Service	Project: LCS Price List	
' O. Box 406	Project Number: 177 & 255 Great Arrow	**Reported:**
3uffalo NY, 14205	Project Manager: Doug Reid	08/25/04 15:13

Semivolatile Organic Compounds by EPA Method 8270C

Waste Stream Technology Inc.

nalyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
H27 (2-4) (4H12020-08) Soil	**Sampled: 08/11/04 00:00**	**Received: 08/12/04 15:54**							
-Nitrosodimethylamine	ND	67	ug/kg dry	1	AH41727	08/17/04	08/20/04	8270	U
s(2-chloroethyl)ether	ND	67	"	"	"	"	"	"	U
enol	ND	130	"	"	"	"	"	"	U
chlorophenol	ND	130	"	"	"	"	"	"	U
3-dichlorobenzene	ND	67	"	"	"	"	"	"	U
4-dichlorobenzene	ND	67	"	"	"	"	"	"	U
2-dichlorobenzene	ND	67	"	"	"	"	"	"	U
s(2-chloroisopropyl)ether	ND	67	"	"	"	"	"	"	U
nzyl alcohol	ND	67	"	"	"	"	"	"	U
methylphenol	ND	67	"	"	"	"	"	"	U
xachloroethane	ND	67	"	"	"	"	"	"	U
-Nitrosodi-n-propylamine	ND	67	"	"	"	"	"	"	U
& 4-methylphenol	ND	130	"	"	"	"	"	"	U
robenzene	ND	67	"	"	"	"	"	"	U
phorone	ND	67	"	"	"	"	"	"	U
phenol	ND	130	"	"	"	"	"	"	U
methylphenol	ND	130	"	"	"	"	"	"	U
2-chloroethoxy)methane	ND	67	"	"	"	"	"	"	U
nzoic acid	ND	330	"	"	"	"	"	"	U
4-dichlorophenol	ND	130	"	"	"	"	"	"	U
2,4-trichlorobenzene	ND	67	"	"	"	"	"	"	U
phthalene	ND	67	"	"	"	"	"	"	U
chloroaniline	ND	67	"	"	"	"	"	"	U
xachlorobutadiene	ND	67	"	"	"	"	"	"	U
chloro-3-methylphenol	ND	130	"	"	"	"	"	"	U
nethylnaphthalene	ND	67	"	"	"	"	"	"	U
xachlorocyclopentadiene	ND	130	"	"	"	"	"	"	U
4,6-trichlorophenol	ND	130	"	"	"	"	"	"	U
4,5-trichlorophenol	ND	67	"	"	"	"	"	"	U
chloronaphthalene	ND	67	"	"	"	"	"	"	U
nitroaniline	ND	67	"	"	"	"	"	"	U
enaphthylene	ND	67	"	"	"	"	"	"	U
methyl phthalate	ND	67	"	"	"	"	"	"	U
6-dinitrotoluene	ND	67	"	"	"	"	"	"	U
enaphthene	ND	67	"	"	"	"	"	"	U
nitroaniline	ND	67	"	"	"	"	"	"	U
4-dinitrophenol	ND	130	"	"	"	"	"	"	U
benzofuran	ND	67	"	"	"	"	"	"	U
4-dinitrotoluene	ND	67	"	"	"	"	"	"	U
nitrophenol	ND	130	"	"	"	"	"	"	U
orene	ND	67	"	"	"	"	"	"	U
Chlorophenyl phenyl ether	ND	67	"	"	"	"	"	"	U

Lender Consulting Service	Project: LCS Price List	
P.O. Box 406	Project Number: 177 & 255 Great Arrow	**Reported:**
Buffalo NY, 14205	Project Manager: Doug Reid	08/25/04 15:13

Semivolatile Organic Compounds by EPA Method 8270C

Waste Stream Technology Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
H27 (2-4) (4H12020-08) Soil	**Sampled: 08/11/04 00:00**	**Received: 08/12/04 15:54**							
iethyl phthalate	ND	67	ug/kg dry	1	AH41727	08/17/04	08/20/04	8270	U
nitroaniline	ND	67	"	"	"	"	"	"	U
6-Dinitro-2-methylphenol	ND	130	"	"	"	"	"	"	U
nitrosodiphenylamine	ND	67	"	"	"	"	"	"	U
bromophenylphenylether	ND	67	"	"	"	"	"	"	U
xachlorobenzene	ND	67	"	"	"	"	"	"	U
ntachlorophenol	ND	130	"	"	"	"	"	"	U
ienanthrene	**325**	67	"	"	"	"	"	"	
ithracene	ND	67	"	"	"	"	"	"	U
rbazole	ND	67	"	"	"	"	"	"	U
i-n-butyl phthalate	ND	67	"	"	"	"	"	"	U
nzidine	ND	330	"	"	"	"	"	"	U
ioranthene	**874**	67	"	"	"	"	"	"	
rene	**939**	67	"	"	"	"	"	"	
ityl benzyl phthalate	ND	67	"	"	"	"	"	"	U
'-Dichlorobenzidine	ND	67	"	"	"	"	"	"	U
nzo (a) anthracene	**355**	67	"	"	"	"	"	"	
rysene	**388**	67	"	"	"	"	"	"	
s(2-ethylhexyl)phthalate	ND	67	"	"	"	"	"	"	U
i-n-octyl phthalate	ND	67	"	"	"	"	"	"	U
enzo (b) fluoranthene	**422**	67	"	"	"	"	"	"	
enzo (k) fluoranthene	**151**	67	"	"	"	"	"	"	
enzo (a) pyrene	**345**	67	"	"	"	"	"	"	
deno (1,2,3-cd) pyrene	**150**	67	"	"	"	"	"	"	
ibenz (a,h) anthracene	**96**	67	"	"	"	"	"	"	
enzo (g,h,i) perylene	**172**	67	"	"	"	"	"	"	
rrogate: 2-Fluorophenol		*76.3 %*	*50-112*		"	"	"	"	
rrogate: Phenol-d6		*76.1 %*	*52-117*		"	"	"	"	
rrogate: Nitrobenzene-d5		*80.9 %*	*48-122*		"	"	"	"	
rrogate: 2-Fluorobiphenyl		*87.3 %*	*50-121*		"	"	"	"	
rrogate: 2,4,6-Tribromophenol		*94.6 %*	*50-132*		"	"	"	"	
rrogate: Terphenyl-d14		*104 %*	*36-134*		"	"	"	"	

Lender Consulting Service	Project: LCS Price List	
P.O. Box 406	Project Number: 177 & 255 Great Arrow	**Reported:**
Buffalo NY, 14205	Project Manager: Doug Reid	08/25/04 15:13

Semivolatile Organic Compounds by EPA Method 8270C

Waste Stream Technology Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
H28 (0-2) (4H12020-09) Soil	**Sampled: 08/11/04 00:00**	**Received: 08/12/04 15:54**							
-Nitrosodimethylamine	ND	67	ug/kg dry	1	AH41727	08/17/04	08/20/04	8270	U
s(2-chloroethyl)ether	ND	67	"	"	"	"	"	"	U
ıenol	ND	130	"	"	"	"	"	"	U
chlorophenol	ND	130	"	"	"	"	"	"	U
3-dichlorobenzene	ND	67	"	"	"	"	"	"	U
4-dichlorobenzene	ND	67	"	"	"	"	"	"	U
2-dichlorobenzene	ND	67	"	"	"	"	"	"	U
s(2-chloroisopropyl)ether	ND	67	"	"	"	"	"	"	U
ınzyl alcohol	ND	67	"	"	"	"	"	"	U
methylphenol	ND	67	"	"	"	"	"	"	U
xachloroethane	ND	67	"	"	"	"	"	"	U
-Nitrosodi-n-propylamine	ND	67	"	"	"	"	"	"	U
& 4-methylphenol	ND	130	"	"	"	"	"	"	U
trobenzene	ND	67	"	"	"	"	"	"	U
ophorone	ND	67	"	"	"	"	"	"	U
nitrophenol	ND	130	"	"	"	"	"	"	U
4-dimethylphenol	ND	130	"	"	"	"	"	"	U
s(2-chloroethoxy)methane	ND	67	"	"	"	"	"	"	U
ızoic acid	ND	330	"	"	"	"	"	"	U
4-dichlorophenol	ND	130	"	"	"	"	"	"	U
2,4-trichlorobenzene	ND	67	"	"	"	"	"	"	U
phthalene	ND	67	"	"	"	"	"	"	U
chloroaniline	ND	67	"	"	"	"	"	"	U
xachlorobutadiene	ND	67	"	"	"	"	"	"	U
chloro-3-methylphenol	ND	130	"	"	"	"	"	"	U
methylnaphthalene	ND	67	"	"	"	"	"	"	U
xachlorocyclopentadiene	ND	130	"	"	"	"	"	"	U
4,6-trichlorophenol	ND	130	"	"	"	"	"	"	U
4,5-trichlorophenol	ND	67	"	"	"	"	"	"	U
chloronaphthalene	ND	67	"	"	"	"	"	"	U
nitroaniline	ND	67	"	"	"	"	"	"	U
enaphthylene	ND	67	"	"	"	"	"	"	U
methyl phthalate	ND	67	"	"	"	"	"	"	U
6-dinitrotoluene	ND	67	"	"	"	"	"	"	U
enaphthene	ND	67	"	"	"	"	"	"	U
nitroaniline	ND	67	"	"	"	"	"	"	U
4-dinitrophenol	ND	130	"	"	"	"	"	"	U
benzofuran	ND	67	"	"	"	"	"	"	U
4-dinitrotoluene	ND	67	"	"	"	"	"	"	U
nitrophenol	ND	130	"	"	"	"	"	"	U
orene	ND	67	"	"	"	"	"	"	U
Chlorophenyl phenyl ether	ND	67	"	"	"	"	"	"	U

Lender Consulting Service	Project: LCS Price List	
P.O. Box 406	Project Number: 177 & 255 Great Arrow	**Reported:**
Buffalo NY, 14205	Project Manager: Doug Reid	08/25/04 15:13

Semivolatile Organic Compounds by EPA Method 8270C

Waste Stream Technology Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
H28 (0-2) (4H12020-09) Soil	**Sampled: 08/11/04 00:00**	**Received: 08/12/04 15:54**							
iethyl phthalate	ND	67	ug/kg dry	1	AH41727	08/17/04	08/20/04	8270	U
-nitroaniline	ND	67	"	"	"	"	"	"	U
-Dinitro-2-methylphenol	ND	130	"	"	"	"	"	"	U
-nitrosodiphenylamine	ND	67	"	"	"	"	"	"	U
-bromophenylphenylether	ND	67	"	"	"	"	"	"	U
exachlorobenzene	ND	67	"	"	"	"	"	"	U
entachlorophenol	ND	130	"	"	"	"	"	"	U
henanthrene	ND	67	"	"	"	"	"	"	U
nthracene	ND	67	"	"	"	"	"	"	U
rbazole	ND	67	"	"	"	"	"	"	U
i-n-butyl phthalate	ND	67	"	"	"	"	"	"	U
enzidine	ND	330	"	"	"	"	"	"	U
uoranthene	ND	67	"	"	"	"	"	"	U
yrene	ND	67	"	"	"	"	"	"	U
utyl benzyl phthalate	ND	67	"	"	"	"	"	"	U
-Dichlorobenzidine	ND	67	"	"	"	"	"	"	U
(a) anthracene	ND	67	"	"	"	"	"	"	U
ysene	ND	67	"	"	"	"	"	"	U
s(2-ethylhexyl)phthalate	ND	67	"	"	"	"	"	"	U
i-n-octyl phthalate	ND	67	"	"	"	"	"	"	U
enzo (b) fluoranthene	ND	67	"	"	"	"	"	"	U
enzo (k) fluoranthene	ND	67	"	"	"	"	"	"	U
enzo (a) pyrene	ND	67	"	"	"	"	"	"	U
deno (1,2,3-cd) pyrene	ND	67	"	"	"	"	"	"	U
ibenz (a,h) anthracene	ND	67	"	"	"	"	"	"	U
enzo (g,h,i) perylene	ND	67	"	"	"	"	"	"	U
urrogate: 2-Fluorophenol		*68.3 %*	*50-112*		"	"	"	"	
urrogate: Phenol-d6		*66.9 %*	*52-117*		"	"	"	"	
urrogate: Nitrobenzene-d5		*72.0 %*	*48-122*		"	"	"	"	
urrogate: 2-Fluorobiphenyl		*80.6 %*	*50-121*		"	"	"	"	
urrogate: 2,4,6-Tribromophenol		*98.8 %*	*50-132*		"	"	"	"	
urrogate: Terphenyl-d14		*106 %*	*36-134*		"	"	"	"	

ender Consulting Service	Project: LCS Price List	
.O. Box 406	Project Number: 177 & 255 Great Arrow	**Reported:**
uffalo NY, 14205	Project Manager: Doug Reid	08/25/04 15:13

Semivolatile Organic Compounds by EPA Method 8270C

Waste Stream Technology Inc.

ıalyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
129 (0-2) (4H12020-10) Soil	**Sampled: 08/11/04 00:00**	**Received: 08/12/04 15:54**							
Nitrosodimethylamine	ND	670	ug/kg dry	10	AH41801	08/18/04	08/21/04	8270	U
(2-chloroethyl)ether	ND	670	"	"	"	"	"	"	U
ɛnol	ND	1300	"	"	"	"	"	"	U
hlorophenol	ND	1300	"	"	"	"	"	"	U
-dichlorobenzene	ND	670	"	"	"	"	"	"	U
-dichlorobenzene	ND	670	"	"	"	"	"	"	U
-dichlorobenzene	ND	670	"	"	"	"	"	"	U
(2-chloroisopropyl)ether	ND	670	"	"	"	"	"	"	U
ızyl alcohol	ND	670	"	"	"	"	"	"	U
nethylphenol	ND	670	"	"	"	"	"	"	U
xachloroethane	ND	670	"	"	"	"	"	"	U
Nitrosodi-n-propylamine	ND	670	"	"	"	"	"	"	U
& 4-methylphenol	ND	1300	"	"	"	"	"	"	U
robenzene	ND	670	"	"	"	"	"	"	U
phorone	ND	670	"	"	"	"	"	"	U
ıitrophenol	ND	1300	"	"	"	"	"	"	U
-dimethylphenol	ND	1300	"	"	"	"	"	"	U
s(2-chloroethoxy)methane	ND	670	"	"	"	"	"	"	U
ızoic acid	ND	3300	"	"	"	"	"	"	U
-dichlorophenol	ND	1300	"	"	"	"	"	"	U
,4-trichlorobenzene	ND	670	"	"	"	"	"	"	U
ɔhthalene	ND	670	"	"	"	"	"	"	U
hloroaniline	ND	670	"	"	"	"	"	"	U
xachlorobutadiene	ND	670	"	"	"	"	"	"	U
hloro-3-methylphenol	ND	1300	"	"	"	"	"	"	U
nethylnaphthalene	ND	670	"	"	"	"	"	"	U
xachlorocyclopentadiene	ND	1300	"	"	"	"	"	"	U
,6-trichlorophenol	ND	1300	"	"	"	"	"	"	U
,5-trichlorophenol	ND	670	"	"	"	"	"	"	U
hloronaphthalene	ND	670	"	"	"	"	"	"	U
ıitroaniline	ND	670	"	"	"	"	"	"	U
ɛnaphthylene	ND	670	"	"	"	"	"	"	U
ıethyl phthalate	ND	670	"	"	"	"	"	"	U
-dinitrotoluene	ND	670	"	"	"	"	"	"	U
ɛnaphthene	ND	670	"	"	"	"	"	"	U
ıitroaniline	ND	670	"	"	"	"	"	"	U
-dinitrophenol	ND	1300	"	"	"	"	"	"	U
ɔenzofuran	ND	670	"	"	"	"	"	"	U
-dinitrotoluene	ND	670	"	"	"	"	"	"	U
ıitrophenol	ND	1300	"	"	"	"	"	"	U
orene	ND	670	"	"	"	"	"	"	U
Chlorophenyl phenyl ether	ND	670	"	"	"	"	"	"	U

Lender Consulting Service	Project: LCS Price List	
P.O. Box 406	Project Number: 177 & 255 Great Arrow	**Reported:**
Buffalo NY, 14205	Project Manager: Doug Reid	08/25/04 15:13

Semivolatile Organic Compounds by EPA Method 8270C

Waste Stream Technology Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BH29 (0-2) (4H12020-10) Soil Sampled: 08/11/04 00:00 Received: 08/12/04 15:54									
Diethyl phthalate	ND	670	ug/kg dry	10	AH41801	08/18/04	08/21/04	8270	U
4-nitroaniline	ND	670	"	"	"	"	"	"	U
4,6-Dinitro-2-methylphenol	ND	1300	"	"	"	"	"	"	U
n-nitrosodiphenylamine	ND	670	"	"	"	"	"	"	U
4-bromophenylphenylether	ND	670	"	"	"	"	"	"	U
Hexachlorobenzene	ND	670	"	"	"	"	"	"	U
Pentachlorophenol	ND	1300	"	"	"	"	"	"	U
Phenanthrene	ND	670	"	"	"	"	"	"	U
Anthracene	ND	670	"	"	"	"	"	"	U
Carbazole	ND	670	"	"	"	"	"	"	U
Di-n-butyl phthalate	ND	670	"	"	"	"	"	"	U
Benzidine	ND	3300	"	"	"	"	"	"	U
Fluoranthene	ND	670	"	"	"	"	"	"	U
Pyrene	**879**	670	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	670	"	"	"	"	"	"	U
3,3'-Dichlorobenzidine	ND	670	"	"	"	"	"	"	U
Benzo (a) anthracene	ND	670	"	"	"	"	"	"	U
Chrysene	ND	670	"	"	"	"	"	"	U
Bis(2-ethylhexyl)phthalate	ND	670	"	"	"	"	"	"	U
Di-n-octyl phthalate	ND	670	"	"	"	"	"	"	U
Benzo (b) fluoranthene	ND	670	"	"	"	"	"	"	U
Benzo (k) fluoranthene	ND	670	"	"	"	"	"	"	U
Benzo (a) pyrene	ND	670	"	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND	670	"	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND	670	"	"	"	"	"	"	U
Benzo (g,h,i) perylene	ND	670	"	"	"	"	"	"	U
Surrogate: 2-Fluorophenol		*44.1 %*	*50-112*		"	"	"	"	*S-04*
Surrogate: Phenol-d6		*50.7 %*	*52-117*		"	"	"	"	*S-04*
Surrogate: Nitrobenzene-d5		*73.6 %*	*48-122*		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		*63.3 %*	*50-121*		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		*83.6 %*	*50-132*		"	"	"	"	
Surrogate: Terphenyl-d14		*144 %*	*36-134*		"	"	"	"	*S-04*

ender Consulting Service	Project: LCS Price List	
.O. Box 406	Project Number: 177 & 255 Great Arrow	**Reported:**
uffalo NY, 14205	Project Manager: Doug Reid	08/25/04 15:13

Semivolatile Organic Compounds by EPA Method 8270C

Waste Stream Technology Inc.

nalyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
133 (0-2) (4H12020-11) Soil	**Sampled: 08/11/04 00:00**	**Received: 08/12/04 15:54**							
Nitrosodimethylamine	ND	67	ug/kg dry	1	AH41801	08/18/04	08/20/04	8270	U
(2-chloroethyl)ether	ND	67	"	"	"	"	"	"	U
enol	ND	130	"	"	"	"	"	"	U
chlorophenol	ND	130	"	"	"	"	"	"	U
-dichlorobenzene	ND	67	"	"	"	"	"	"	U
-dichlorobenzene	ND	67	"	"	"	"	"	"	U
-dichlorobenzene	ND	67	"	"	"	"	"	"	U
(2-chloroisopropyl)ether	ND	67	"	"	"	"	"	"	U
nzyl alcohol	ND	67	"	"	"	"	"	"	U
nethylphenol	ND	67	"	"	"	"	"	"	U
xachloroethane	ND	67	"	"	"	"	"	"	U
Nitrosodi-n-propylamine	ND	67	"	"	"	"	"	"	U
& 4-methylphenol	ND	130	"	"	"	"	"	"	U
robenzene	ND	67	"	"	"	"	"	"	U
phorone	ND	67	"	"	"	"	"	"	U
ophenol	ND	130	"	"	"	"	"	"	U
imethylphenol	ND	130	"	"	"	"	"	"	U
s(2-chloroethoxy)methane	ND	67	"	"	"	"	"	"	U
nzoic acid	ND	330	"	"	"	"	"	"	U
-dichlorophenol	ND	130	"	"	"	"	"	"	U
2,4-trichlorobenzene	ND	67	"	"	"	"	"	"	U
phthalene	ND	67	"	"	"	"	"	"	U
chloroaniline	ND	67	"	"	"	"	"	"	U
xachlorobutadiene	ND	67	"	"	"	"	"	"	U
chloro-3-methylphenol	ND	130	"	"	"	"	"	"	U
nethylnaphthalene	ND	67	"	"	"	"	"	"	U
xachlorocyclopentadiene	ND	130	"	"	"	"	"	"	U
,6-trichlorophenol	ND	130	"	"	"	"	"	"	U
,5-trichlorophenol	ND	67	"	"	"	"	"	"	U
chloronaphthalene	ND	67	"	"	"	"	"	"	U
itroaniline	ND	67	"	"	"	"	"	"	U
enaphthylene	ND	67	"	"	"	"	"	"	U
methyl phthalate	ND	67	"	"	"	"	"	"	U
-dinitrotoluene	ND	67	"	"	"	"	"	"	U
enaphthene	ND	67	"	"	"	"	"	"	U
itroaniline	ND	67	"	"	"	"	"	"	U
-dinitrophenol	ND	130	"	"	"	"	"	"	U
benzofuran	ND	67	"	"	"	"	"	"	U
-dinitrotoluene	ND	67	"	"	"	"	"	"	U
itrophenol	ND	130	"	"	"	"	"	"	U
orene	ND	67	"	"	"	"	"	"	U
Chlorophenyl phenyl ether	ND	67	"	"	"	"	"	"	U

Lender Consulting Service	Project: LCS Price List	
P.O. Box 406	Project Number: 177 & 255 Great Arrow	**Reported:**
Buffalo NY, 14205	Project Manager: Doug Reid	08/25/04 15:13

Semivolatile Organic Compounds by EPA Method 8270C

Waste Stream Technology Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BH33 (0-2) (4H12020-11) Soil	**Sampled: 08/11/04 00:00**	**Received: 08/12/04 15:54**							
Diethyl phthalate	ND	67	ug/kg dry	1	AH41801	08/18/04	08/20/04	8270	U
4-nitroaniline	ND	67	"	"	"	"	"	"	U
4,6-Dinitro-2-methylphenol	ND	130	"	"	"	"	"	"	U
n-nitrosodiphenylamine	ND	67	"	"	"	"	"	"	U
4-Bromophenylphenylether	ND	67	"	"	"	"	"	"	U
Hexachlorobenzene	ND	67	"	"	"	"	"	"	U
Pentachlorophenol	ND	130	"	"	"	"	"	"	U
Phenanthrene	**969**	67	"	"	"	"	"	"	
Anthracene	**158**	67	"	"	"	"	"	"	
Carbazole	ND	67	"	"	"	"	"	"	U
Di-n-butyl phthalate	ND	67	"	"	"	"	"	"	U
Benzidine	ND	330	"	"	"	"	"	"	U
Fluoranthene	**1070**	67	"	"	"	"	"	"	
Pyrene	**1020**	67	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	67	"	"	"	"	"	"	U
3,3'-Dichlorobenzidine	ND	67	"	"	"	"	"	"	U
Benzo (a) anthracene	**461**	67	"	"	"	"	"	"	
Chrysene	**435**	67	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	67	"	"	"	"	"	"	U
Di-n-octyl phthalate	ND	67	"	"	"	"	"	"	U
Benzo (b) fluoranthene	**432**	67	"	"	"	"	"	"	
Benzo (k) fluoranthene	**152**	67	"	"	"	"	"	"	
Benzo (a) pyrene	**335**	67	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	**163**	67	"	"	"	"	"	"	
Dibenz (a,h) anthracene	**110**	67	"	"	"	"	"	"	
Benzo (g,h,i) perylene	**186**	67	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		*59.1 %*	*50-112*		"	"	"	"	
Surrogate: Phenol-d6		*62.7 %*	*52-117*		"	"	"	"	
Surrogate: Nitrobenzene-d5		*68.1 %*	*48-122*		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		*75.5 %*	*50-121*		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		*85.1 %*	*50-132*		"	"	"	"	
Surrogate: Terphenyl-d14		*95.6 %*	*36-134*		"	"	"	"	

Lender Consulting Service	Project: LCS Price List	
P.O. Box 406	Project Number: 177 & 255 Great Arrow	**Reported:**
Buffalo NY, 14205	Project Manager: Doug Reid	08/25/04 15:13

Semivolatile Organic Compounds by EPA Method 8270C

Waste Stream Technology Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
H35 (0-2) (4H12020-12) Soil	**Sampled: 08/11/04 00:00**	**Received: 08/12/04 15:54**							
N-Nitrosodimethylamine	ND	67	ug/kg dry	1	AH41801	08/18/04	08/20/04	8270	U
Bis(2-chloroethyl)ether	ND	67	"	"	"	"	"	"	U
Phenol	ND	130	"	"	"	"	"	"	U
2-chlorophenol	ND	130	"	"	"	"	"	"	U
1,3-dichlorobenzene	ND	67	"	"	"	"	"	"	U
1,4-dichlorobenzene	ND	67	"	"	"	"	"	"	U
1,2-dichlorobenzene	ND	67	"	"	"	"	"	"	U
Bis(2-chloroisopropyl)ether	ND	67	"	"	"	"	"	"	U
Benzyl alcohol	ND	67	"	"	"	"	"	"	U
2-methylphenol	ND	67	"	"	"	"	"	"	U
Hexachloroethane	ND	67	"	"	"	"	"	"	U
N-Nitrosodi-n-propylamine	ND	67	"	"	"	"	"	"	U
3 & 4-methylphenol	ND	130	"	"	"	"	"	"	U
Nitrobenzene	ND	67	"	"	"	"	"	"	U
Isophorone	ND	67	"	"	"	"	"	"	U
2-nitrophenol	ND	130	"	"	"	"	"	"	U
2,4-dimethylphenol	ND	130	"	"	"	"	"	"	U
Bis(2-chloroethoxy)methane	ND	67	"	"	"	"	"	"	U
Benzoic acid	ND	330	"	"	"	"	"	"	U
2,4-dichlorophenol	ND	130	"	"	"	"	"	"	U
1,2,4-trichlorobenzene	ND	67	"	"	"	"	"	"	U
Naphthalene	ND	67	"	"	"	"	"	"	U
4-chloroaniline	ND	67	"	"	"	"	"	"	U
Hexachlorobutadiene	ND	67	"	"	"	"	"	"	U
4-chloro-3-methylphenol	ND	130	"	"	"	"	"	"	U
2-methylnaphthalene	ND	67	"	"	"	"	"	"	U
Hexachlorocyclopentadiene	ND	130	"	"	"	"	"	"	U
2,4,6-trichlorophenol	ND	130	"	"	"	"	"	"	U
2,4,5-trichlorophenol	ND	67	"	"	"	"	"	"	U
2-chloronaphthalene	ND	67	"	"	"	"	"	"	U
2-nitroaniline	ND	67	"	"	"	"	"	"	U
Acenaphthylene	ND	67	"	"	"	"	"	"	U
Dimethyl phthalate	ND	67	"	"	"	"	"	"	U
2,6-dinitrotoluene	ND	67	"	"	"	"	"	"	U
Acenaphthene	**185**	67	"	"	"	"	"	"	
3-nitroaniline	ND	67	"	"	"	"	"	"	U
2,4-dinitrophenol	ND	130	"	"	"	"	"	"	U
Dibenzofuran	ND	67	"	"	"	"	"	"	U
2,4-dinitrotoluene	ND	67	"	"	"	"	"	"	U
4-nitrophenol	ND	130	"	"	"	"	"	"	U
Fluorene	**132**	67	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	67	"	"	"	"	"	"	U

Lender Consulting Service	Project: LCS Price List	
P.O. Box 406	Project Number: 177 & 255 Great Arrow	**Reported:**
Buffalo NY, 14205	Project Manager: Doug Reid	08/25/04 15:13

Semivolatile Organic Compounds by EPA Method 8270C

Waste Stream Technology Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SH35 (0-2) (4H12020-12) Soil	**Sampled: 08/11/04 00:00**	**Received: 08/12/04 15:54**							
Diethyl phthalate	ND	67	ug/kg dry	1	AH41801	08/18/04	08/20/04	8270	U
4-nitroaniline	ND	67	"	"	"	"	"	"	U
4,6-Dinitro-2-methylphenol	ND	130	"	"	"	"	"	"	U
N-nitrosodiphenylamine	ND	67	"	"	"	"	"	"	U
4-bromophenylphenylether	ND	67	"	"	"	"	"	"	U
Hexachlorobenzene	ND	67	"	"	"	"	"	"	U
Pentachlorophenol	ND	130	"	"	"	"	"	"	U
Phenanthrene	**1850**	67	"	"	"	"	"	"	
Anthracene	**327**	67	"	"	"	"	"	"	
Carbazole	**122**	67	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	67	"	"	"	"	"	"	U
Benzidine	ND	330	"	"	"	"	"	"	U
Fluoranthene	**2210**	67	"	"	"	"	"	"	
Pyrene	**2230**	67	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	67	"	"	"	"	"	"	U
3,3'-Dichlorobenzidine	ND	67	"	"	"	"	"	"	U
Benzo (a) anthracene	**902**	67	"	"	"	"	"	"	
Chrysene	**818**	67	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	67	"	"	"	"	"	"	U
Di-n-octyl phthalate	ND	67	"	"	"	"	"	"	U
Benzo (b) fluoranthene	**892**	67	"	"	"	"	"	"	
Benzo (k) fluoranthene	**326**	67	"	"	"	"	"	"	
Benzo (a) pyrene	**760**	67	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	**319**	67	"	"	"	"	"	"	
Dibenz (a,h) anthracene	**135**	67	"	"	"	"	"	"	
Benzo (g,h,i) perylene	**315**	67	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		*62.7 %*	*50-112*		"	"	"	"	
Surrogate: Phenol-d6		*65.5 %*	*52-117*		"	"	"	"	
Surrogate: Nitrobenzene-d5		*70.2 %*	*48-122*		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		*77.5 %*	*50-121*		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		*93.4 %*	*50-132*		"	"	"	"	
Surrogate: Terphenyl-d14		*98.9 %*	*36-134*		"	"	"	"	

Lender Consulting Service	Project: LCS Price List	
P.O. Box 406	Project Number: 177 & 255 Great Arrow	**Reported:**
Buffalo NY, 14205	Project Manager: Doug Reid	08/25/04 15:13

Semivolatile Organic Compounds by EPA Method 8270C

Waste Stream Technology Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
H36 (4-8) (4H12020-18) Soil Sampled: 08/12/04 00:00 Received: 08/12/04 15:54									
-Nitrosodimethylamine	ND	67	ug/kg dry	1	AH41801	08/18/04	08/20/04	8270	U
s(2-chloroethyl)ether	ND	67	"	"	"	"	"	"	U
ienol	ND	130	"	"	"	"	"	"	U
chlorophenol	ND	130	"	"	"	"	"	"	U
3-dichlorobenzene	ND	67	"	"	"	"	"	"	U
4-dichlorobenzene	ND	67	"	"	"	"	"	"	U
2-dichlorobenzene	ND	67	"	"	"	"	"	"	U
s(2-chloroisopropyl)ether	ND	67	"	"	"	"	"	"	U
nzyl alcohol	ND	67	"	"	"	"	"	"	U
methylphenol	ND	67	"	"	"	"	"	"	U
xachloroethane	ND	67	"	"	"	"	"	"	U
-Nitrosodi-n-propylamine	ND	67	"	"	"	"	"	"	U
& 4-methylphenol	ND	130	"	"	"	"	"	"	U
trobenzene	ND	67	"	"	"	"	"	"	U
ophorone	ND	67	"	"	"	"	"	"	U
itrophenol	ND	130	"	"	"	"	"	"	U
methylphenol	ND	130	"	"	"	"	"	"	U
-chloroethoxy)methane	ND	67	"	"	"	"	"	"	U
nzoic acid	ND	330	"	"	"	"	"	"	U
4-dichlorophenol	ND	130	"	"	"	"	"	"	U
2,4-trichlorobenzene	ND	67	"	"	"	"	"	"	U
phthalene	ND	67	"	"	"	"	"	"	U
chloroaniline	ND	67	"	"	"	"	"	"	U
xachlorobutadiene	ND	67	"	"	"	"	"	"	U
chloro-3-methylphenol	ND	130	"	"	"	"	"	"	U
methylnaphthalene	**90**	67	"	"	"	"	"	"	
xachlorocyclopentadiene	ND	130	"	"	"	"	"	"	U
4,6-trichlorophenol	ND	130	"	"	"	"	"	"	U
4,5-trichlorophenol	ND	67	"	"	"	"	"	"	U
chloronaphthalene	ND	67	"	"	"	"	"	"	U
itroaniline	ND	67	"	"	"	"	"	"	U
enaphthylene	ND	67	"	"	"	"	"	"	U
methyl phthalate	ND	67	"	"	"	"	"	"	U
6-dinitrotoluene	ND	67	"	"	"	"	"	"	U
enaphthene	ND	67	"	"	"	"	"	"	U
itroaniline	ND	67	"	"	"	"	"	"	U
4-dinitrophenol	ND	130	"	"	"	"	"	"	U
benzofuran	ND	67	"	"	"	"	"	"	U
4-dinitrotoluene	ND	67	"	"	"	"	"	"	U
itrophenol	ND	130	"	"	"	"	"	"	U
orene	ND	67	"	"	"	"	"	"	U
Chlorophenyl phenyl ether	ND	67	"	"	"	"	"	"	U

Lender Consulting Service	Project: LCS Price List	
P.O. Box 406	Project Number: 177 & 255 Great Arrow	**Reported:**
Buffalo NY, 14205	Project Manager: Doug Reid	08/25/04 15:13

Semivolatile Organic Compounds by EPA Method 8270C

Waste Stream Technology Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
H36 (4-8) (4H12020-18) Soil	**Sampled: 08/12/04 00:00**	**Received: 08/12/04 15:54**							
iethyl phthalate	ND	67	ug/kg dry	1	AH41801	08/18/04	08/20/04	8270	U
nitroaniline	ND	67	"	"	"	"	"	"	U
6-Dinitro-2-methylphenol	ND	130	"	"	"	"	"	"	U
nitrosodiphenylamine	ND	67	"	"	"	"	"	"	U
bromophenylphenylether	ND	67	"	"	"	"	"	"	U
:xachlorobenzene	ND	67	"	"	"	"	"	"	U
:ntachlorophenol	ND	130	"	"	"	"	"	"	U
ienanthrene	**93**	67	"	"	"	"	"	"	
ithracene	ND	67	"	"	"	"	"	"	U
irbazole	ND	67	"	"	"	"	"	"	U
i-n-butyl phthalate	ND	67	"	"	"	"	"	"	U
:nzidine	ND	330	"	"	"	"	"	"	U
uoranthene	**94**	67	"	"	"	"	"	"	
yrene	**160**	67	"	"	"	"	"	"	
utyl benzyl phthalate	ND	67	"	"	"	"	"	"	U
'-Dichlorobenzidine	ND	67	"	"	"	"	"	"	U
...o (a) anthracene	ND	67	"	"	"	"	"	"	U
iry sene	ND	67	"	"	"	"	"	"	U
s(2-ethylhexyl)phthalate	ND	67	"	"	"	"	"	"	U
i-n-octyl phthalate	ND	67	"	"	"	"	"	"	U
enzo (b) fluoranthene	ND	67	"	"	"	"	"	"	U
enzo (k) fluoranthene	ND	67	"	"	"	"	"	"	U
enzo (a) pyrene	ND	67	"	"	"	"	"	"	U
deno (1,2,3-cd) pyrene	ND	67	"	"	"	"	"	"	U
ibenz (a,h) anthracene	ND	67	"	"	"	"	"	"	U
enzo (g,h,i) perylene	ND	67	"	"	"	"	"	"	U
urrogate: 2-Fluorophenol		*68.2 %*	*50-112*	"	"	"	"		
urrogate: Phenol-d6		*69.4 %*	*52-117*	"	"	"	"		
urrogate: Nitrobenzene-d5		*77.4 %*	*48-122*	"	"	"	"		
urrogate: 2-Fluorobiphenyl		*81.6 %*	*50-121*	"	"	"	"		
..rogate: 2,4,6-Tribromophenol		*83.2 %*	*50-132*	"	"	"	"		
urrogate: Terphenyl-d14		*106 %*	*36-134*	"	"	"	"		

Lender Consulting Service	Project: LCS Price List	
P.O. Box 406	Project Number: 177 & 255 Great Arrow	**Reported:**
Buffalo NY, 14205	Project Manager: Doug Reid	08/25/04 15:13

Semivolatile Organic Compounds by EPA Method 8270C

Waste Stream Technology Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
H37 (4-6) (4H12020-14) Soil Sampled: 08/12/04 00:00 Received: 08/12/04 15:54									
N-Nitrosodimethylamine	ND	67	ug/kg dry	1	AH41801	08/18/04	08/20/04	8270	U
Bis(2-chloroethyl)ether	ND	67	"	"	"	"	"	"	U
Phenol	ND	130	"	"	"	"	"	"	U
2-chlorophenol	ND	130	"	"	"	"	"	"	U
1,3-dichlorobenzene	ND	67	"	"	"	"	"	"	U
1,4-dichlorobenzene	ND	67	"	"	"	"	"	"	U
1,2-dichlorobenzene	ND	67	"	"	"	"	"	"	U
Bis(2-chloroisopropyl)ether	ND	67	"	"	"	"	"	"	U
Benzyl alcohol	ND	67	"	"	"	"	"	"	U
2-methylphenol	ND	67	"	"	"	"	"	"	U
Hexachloroethane	ND	67	"	"	"	"	"	"	U
N-Nitrosodi-n-propylamine	ND	67	"	"	"	"	"	"	U
3 & 4-methylphenol	ND	130	"	"	"	"	"	"	U
Nitrobenzene	ND	67	"	"	"	"	"	"	U
Isophorone	ND	67	"	"	"	"	"	"	U
2-nitrophenol	ND	130	"	"	"	"	"	"	U
2,4-dimethylphenol	ND	130	"	"	"	"	"	"	U
Bis(2-chloroethoxy)methane	ND	67	"	"	"	"	"	"	U
Benzoic acid	ND	330	"	"	"	"	"	"	U
2,4-dichlorophenol	ND	130	"	"	"	"	"	"	U
1,2,4-trichlorobenzene	ND	67	"	"	"	"	"	"	U
Naphthalene	ND	67	"	"	"	"	"	"	U
4-chloroaniline	ND	67	"	"	"	"	"	"	U
Hexachlorobutadiene	ND	67	"	"	"	"	"	"	U
4-chloro-3-methylphenol	ND	130	"	"	"	"	"	"	U
2-methylnaphthalene	ND	67	"	"	"	"	"	"	U
Hexachlorocyclopentadiene	ND	130	"	"	"	"	"	"	U
2,4,6-trichlorophenol	ND	130	"	"	"	"	"	"	U
2,4,5-trichlorophenol	ND	67	"	"	"	"	"	"	U
2-chloronaphthalene	ND	67	"	"	"	"	"	"	U
2-nitroaniline	ND	67	"	"	"	"	"	"	U
Acenaphthylene	ND	67	"	"	"	"	"	"	U
Dimethyl phthalate	ND	67	"	"	"	"	"	"	U
2,6-dinitrotoluene	ND	67	"	"	"	"	"	"	U
Acenaphthene	ND	67	"	"	"	"	"	"	U
3-nitroaniline	ND	67	"	"	"	"	"	"	U
2,4-dinitrophenol	ND	130	"	"	"	"	"	"	U
Dibenzofuran	ND	67	"	"	"	"	"	"	U
2,4-dinitrotoluene	ND	67	"	"	"	"	"	"	U
4-nitrophenol	ND	130	"	"	"	"	"	"	U
Fluorene	ND	67	"	"	"	"	"	"	U
4-Chlorophenyl phenyl ether	ND	67	"	"	"	"	"	"	U

Lender Consulting Service	Project: LCS Price List	
P.O. Box 406	Project Number: 177 & 255 Great Arrow	**Reported:**
Buffalo NY, 14205	Project Manager: Doug Reid	08/25/04 15:13

Semivolatile Organic Compounds by EPA Method 8270C

Waste Stream Technology Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
H37 (4-6) (4H12020-14) Soil Sampled: 08/12/04 00:00 Received: 08/12/04 15:54									
iethyl phthalate	ND	67	ug/kg dry	1	AH41801	08/18/04	08/20/04	8270	U
nitroaniline	ND	67	"	"	"	"	"	"	U
6-Dinitro-2-methylphenol	ND	130	"	"	"	"	"	"	U
nitrosodiphenylamine	ND	67	"	"	"	"	"	"	U
bromophenylphenylether	ND	67	"	"	"	"	"	"	U
xachlorobenzene	ND	67	"	"	"	"	"	"	U
ntachlorophenol	ND	130	"	"	"	"	"	"	U
enanthrene	ND	67	"	"	"	"	"	"	U
thracene	ND	67	"	"	"	"	"	"	U
rbazole	ND	67	"	"	"	"	"	"	U
-n-butyl phthalate	ND	67	"	"	"	"	"	"	U
nzidine	ND	330	"	"	"	"	"	"	U
ioranthene	ND	67	"	"	"	"	"	"	U
rene	ND	67	"	"	"	"	"	"	U
ityl benzyl phthalate	ND	67	"	"	"	"	"	"	U
3'-Dichlorobenzidine	ND	67	"	"	"	"	"	"	U
nzo (a) anthracene	ND	67	"	"	"	"	"	"	U
rysene	ND	67	"	"	"	"	"	"	U
(2-ethylhexyl)phthalate	**89**	67	"	"	"	"	"	"	
-n-octyl phthalate	ND	67	"	"	"	"	"	"	U
nzo (b) fluoranthene	ND	67	"	"	"	"	"	"	U
nzo (k) fluoranthene	ND	67	"	"	"	"	"	"	U
nzo (a) pyrene	ND	67	"	"	"	"	"	"	U
leno (1,2,3-cd) pyrene	ND	67	"	"	"	"	"	"	U
benz (a,h) anthracene	ND	67	"	"	"	"	"	"	U
nzo (g,h,i) perylene	ND	67	"	"	"	"	"	"	U
rrogate: 2-Fluorophenol		*59.1 %*	*50-112*		"	"	"	"	
rrogate: Phenol-d6		*62.0 %*	*52-117*		"	"	"	"	
rrogate: Nitrobenzene-d5		*69.1 %*	*48-122*		"	"	"	"	
rrogate: 2-Fluorobiphenyl		*78.5 %*	*50-121*		"	"	"	"	
rrogate: 2,4,6-Tribromophenol		*100 %*	*50-132*		"	"	"	"	
rrogate: Terphenyl-d14		*104 %*	*36-134*		"	"	"	"	

ender Consulting Service	Project: LCS Price List	
.O. Box 406	Project Number: 177 & 255 Great Arrow	**Reported:**
uffalo NY, 14205	Project Manager: Doug Reid	08/25/04 15:13

Semivolatile Organic Compounds by EPA Method 8270C

Waste Stream Technology Inc.

nalyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
138 (4-6) (4H12020-15) Soil	**Sampled: 08/12/04 00:00**	**Received: 08/12/04 15:54**							
Nitrosodimethylamine	ND	67	ug/kg dry	1	AH41801	08/18/04	08/20/04	8270	U
s(2-chloroethyl)ether	ND	67	"	"	"	"	"	"	U
enol	ND	130	"	"	"	"	"	"	U
chlorophenol	ND	130	"	"	"	"	"	"	U
3-dichlorobenzene	ND	67	"	"	"	"	"	"	U
4-dichlorobenzene	ND	67	"	"	"	"	"	"	U
2-dichlorobenzene	ND	67	"	"	"	"	"	"	U
s(2-chloroisopropyl)ether	ND	67	"	"	"	"	"	"	U
nzyl alcohol	ND	67	"	"	"	"	"	"	U
nethylphenol	ND	67	"	"	"	"	"	"	U
xachloroethane	ND	67	"	"	"	"	"	"	U
Nitrosodi-n-propylamine	ND	67	"	"	"	"	"	"	U
& 4-methylphenol	ND	130	"	"	"	"	"	"	U
robenzene	ND	67	"	"	"	"	"	"	U
phorone	ND	67	"	"	"	"	"	"	U
itrophenol	ND	130	"	"	"	"	"	"	U
...imethylphenol	ND	130	"	"	"	"	"	"	U
s(2-chloroethoxy)methane	ND	67	"	"	"	"	"	"	U
nzoic acid	ND	330	"	"	"	"	"	"	U
4-dichlorophenol	ND	130	"	"	"	"	"	"	U
2,4-trichlorobenzene	ND	67	"	"	"	"	"	"	U
phthalene	ND	67	"	"	"	"	"	"	U
chloroaniline	ND	67	"	"	"	"	"	"	U
xachlorobutadiene	ND	67	"	"	"	"	"	"	U
chloro-3-methylphenol	ND	130	"	"	"	"	"	"	U
nethylnaphthalene	ND	67	"	"	"	"	"	"	U
xachlorocyclopentadiene	ND	130	"	"	"	"	"	"	U
4,6-trichlorophenol	ND	130	"	"	"	"	"	"	U
4,5-trichlorophenol	ND	67	"	"	"	"	"	"	U
chloronaphthalene	ND	67	"	"	"	"	"	"	U
itroaniline	ND	67	"	"	"	"	"	"	U
naphthylene	ND	67	"	"	"	"	"	"	U
methyl phthalate	ND	67	"	"	"	"	"	"	U
6-dinitrotoluene	ND	67	"	"	"	"	"	"	U
enaphthene	ND	67	"	"	"	"	"	"	U
itroaniline	ND	67	"	"	"	"	"	"	U
4-dinitrophenol	ND	130	"	"	"	"	"	"	U
benzofuran	ND	67	"	"	"	"	"	"	U
4-dinitrotoluene	ND	67	"	"	"	"	"	"	U
itrophenol	ND	130	"	"	"	"	"	"	U
orene	ND	67	"	"	"	"	"	"	U
Chlorophenyl phenyl ether	ND	67	"	"	"	"	"	"	U

Lender Consulting Service	Project: LCS Price List	
P.O. Box 406	Project Number: 177 & 255 Great Arrow	**Reported:**
Buffalo NY, 14205	Project Manager: Doug Reid	08/25/04 15:13

Semivolatile Organic Compounds by EPA Method 8270C

Waste Stream Technology Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
H38 (4-6) (4H12020-15) Soil	**Sampled: 08/12/04 00:00**	**Received: 08/12/04 15:54**							
iethyl phthalate	ND	67	ug/kg dry	1	AH41801	08/18/04	08/20/04	8270	U
nitroaniline	ND	67	"	"	"	"	"	"	U
6-Dinitro-2-methylphenol	ND	130	"	"	"	"	"	"	U
nitrosodiphenylamine	ND	67	"	"	"	"	"	"	U
bromophenylphenylether	ND	67	"	"	"	"	"	"	U
exachlorobenzene	ND	67	"	"	"	"	"	"	U
ntachlorophenol	ND	130	"	"	"	"	"	"	U
enanthrene	ND	67	"	"	"	"	"	"	U
thracene	ND	67	"	"	"	"	"	"	U
rbazole	ND	67	"	"	"	"	"	"	U
i-n-butyl phthalate	ND	67	"	"	"	"	"	"	U
nzidine	ND	330	"	"	"	"	"	"	U
uoranthene	ND	67	"	"	"	"	"	"	U
rene	ND	67	"	"	"	"	"	"	U
tyl benzyl phthalate	ND	67	"	"	"	"	"	"	U
-Dichlorobenzidine	ND	67	"	"	"	"	"	"	U
(a) anthracene	ND	67	"	"	"	"	"	"	U
ysene	ND	67	"	"	"	"	"	"	U
s(2-ethylhexyl)phthalate	**110**	67	"	"	"	"	"	"	
i-n-octyl phthalate	ND	67	"	"	"	"	"	"	U
nzo (b) fluoranthene	ND	67	"	"	"	"	"	"	U
nzo (k) fluoranthene	ND	67	"	"	"	"	"	"	U
nzo (a) pyrene	ND	67	"	"	"	"	"	"	U
deno (1,2,3-cd) pyrene	ND	67	"	"	"	"	"	"	U
benz (a,h) anthracene	ND	67	"	"	"	"	"	"	U
nzo (g,h,i) perylene	ND	67	"	"	"	"	"	"	U
rrogate: 2-Fluorophenol		*67.8 %*	*50-112*	"	"	"	"		
rrogate: Phenol-d6		*69.7 %*	*52-117*	"	"	"	"		
rrogate: Nitrobenzene-d5		*75.1 %*	*48-122*	"	"	"	"		
rrogate: 2-Fluorobiphenyl		*85.4 %*	*50-121*	"	"	"	"		
rrogate: 2,4,6-Tribromophenol		*96.1 %*	*50-132*	"	"	"	"		
rrogate: Terphenyl-d14		*104 %*	*36-134*	"	"	"	"		

Lender Consulting Service P.O. Box 406 Buffalo NY, 14205	Project: LCS Price List Project Number: 177 & 255 Great Arrow Project Manager: Doug Reid	**Reported:** 08/25/04 15:13

Semivolatile Organic Compounds by EPA Method 8270C

Waste Stream Technology Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
3H42 (2-4) (4H12020-16) Soil Sampled: 08/12/04 00:00 Received: 08/12/04 15:54									
N-Nitrosodimethylamine	ND	67	ug/kg dry	1	AH41801	08/18/04	08/20/04	8270	U
bis(2-chloroethyl)ether	ND	67	"	"	"	"	"	"	U
phenol	ND	130	"	"	"	"	"	"	U
2-chlorophenol	ND	130	"	"	"	"	"	"	U
1,3-dichlorobenzene	ND	67	"	"	"	"	"	"	U
1,4-dichlorobenzene	ND	67	"	"	"	"	"	"	U
1,2-dichlorobenzene	ND	67	"	"	"	"	"	"	U
bis(2-chloroisopropyl)ether	ND	67	"	"	"	"	"	"	U
Benzyl alcohol	ND	67	"	"	"	"	"	"	U
2-methylphenol	ND	67	"	"	"	"	"	"	U
Hexachloroethane	ND	67	"	"	"	"	"	"	U
N-Nitrosodi-n-propylamine	ND	67	"	"	"	"	"	"	U
3 & 4-methylphenol	ND	130	"	"	"	"	"	"	U
Nitrobenzene	ND	67	"	"	"	"	"	"	U
Isophorone	ND	67	"	"	"	"	"	"	U
2-nitrophenol	ND	130	"	"	"	"	"	"	U
2,4-dimethylphenol	ND	130	"	"	"	"	"	"	U
bis(2-chloroethoxy)methane	ND	67	"	"	"	"	"	"	U
Benzoic acid	ND	330	"	"	"	"	"	"	U
2,4-dichlorophenol	ND	130	"	"	"	"	"	"	U
1,2,4-trichlorobenzene	ND	67	"	"	"	"	"	"	U
Naphthalene	ND	67	"	"	"	"	"	"	U
4-chloroaniline	ND	67	"	"	"	"	"	"	U
Hexachlorobutadiene	ND	67	"	"	"	"	"	"	U
4-chloro-3-methylphenol	ND	130	"	"	"	"	"	"	U
2-methylnaphthalene	ND	67	"	"	"	"	"	"	U
Hexachlorocyclopentadiene	ND	130	"	"	"	"	"	"	U
2,4,6-trichlorophenol	ND	130	"	"	"	"	"	"	U
2,4,5-trichlorophenol	ND	67	"	"	"	"	"	"	U
2-chloronaphthalene	ND	67	"	"	"	"	"	"	U
2-nitroaniline	ND	67	"	"	"	"	"	"	U
Acenaphthylene	ND	67	"	"	"	"	"	"	U
Dimethyl phthalate	ND	67	"	"	"	"	"	"	U
2,6-dinitrotoluene	ND	67	"	"	"	"	"	"	U
Acenaphthene	ND	67	"	"	"	"	"	"	U
3-nitroaniline	ND	67	"	"	"	"	"	"	U
2,4-dinitrophenol	ND	130	"	"	"	"	"	"	U
Dibenzofuran	ND	67	"	"	"	"	"	"	U
2,4-dinitrotoluene	ND	67	"	"	"	"	"	"	U
4-nitrophenol	ND	130	"	"	"	"	"	"	U
Fluorene	ND	67	"	"	"	"	"	"	U
4-Chlorophenyl phenyl ether	ND	67	"	"	"	"	"	"	U

ender Consulting Service	Project: LCS Price List	
.O. Box 406	Project Number: 177 & 255 Great Arrow	**Reported:**
3uffalo NY, 14205	Project Manager: Doug Reid	08/25/04 15:13

Semivolatile Organic Compounds by EPA Method 8270C

Waste Stream Technology Inc.

nalyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
142 (2-4) (4H12020-16) Soil	**Sampled: 08/12/04 00:00**	**Received: 08/12/04 15:54**							
ethyl phthalate	ND	67	ug/kg dry	1	AH41801	08/18/04	08/20/04	8270	U
nitroaniline	ND	67	"	"	"	"	"	"	U
5-Dinitro-2-methylphenol	ND	130	"	"	"	"	"	"	U
nitrosodiphenylamine	ND	67	"	"	"	"	"	"	U
bromophenylphenylether	ND	67	"	"	"	"	"	"	U
xachlorobenzene	ND	67	"	"	"	"	"	"	U
ntachlorophenol	ND	130	"	"	"	"	"	"	U
enanthrene	ND	67	"	"	"	"	"	"	U
thracene	ND	67	"	"	"	"	"	"	U
rbazole	ND	67	"	"	"	"	"	"	U
-n-butyl phthalate	ND	67	"	"	"	"	"	"	U
nzidine	ND	330	"	"	"	"	"	"	U
ioranthene	ND	67	"	"	"	"	"	"	U
rene	ND	67	"	"	"	"	"	"	U
ityl benzyl phthalate	ND	67	"	"	"	"	"	"	U
'-Dichlorobenzidine	ND	67	"	"	"	"	"	"	U
zo (a) anthracene	ND	67	"	"	"	"	"	"	U
rysene	ND	67	"	"	"	"	"	"	U
(2-ethylhexyl)phthalate	ND	67	"	"	"	"	"	"	U
-n-octyl phthalate	ND	67	"	"	"	"	"	"	U
nzo (b) fluoranthene	ND	67	"	"	"	"	"	"	U
nzo (k) fluoranthene	ND	67	"	"	"	"	"	"	U
nzo (a) pyrene	ND	67	"	"	"	"	"	"	U
leno (1,2,3-cd) pyrene	ND	67	"	"	"	"	"	"	U
benz (a.h) anthracene	ND	67	"	"	"	"	"	"	U
nzo (g.h,i) perylene	ND	67	"	"	"	"	"	"	U
rrogate: 2-Fluorophenol		*72.4 %*	*50-112*		"	"	"	"	
rrogate: Phenol-d6		*75.0 %*	*52-117*		"	"	"	"	
rrogate: Nitrobenzene-d5		*77.7 %*	*48-122*		"	"	"	"	
rrogate: 2-Fluorobiphenyl		*86.7 %*	*50-121*		"	"	"	"	
rrogate: 2,4,6-Tribromophenol		*99.3 %*	*50-132*		"	"	"	"	
rrogate: Terphenyl-d14		*108 %*	*36-134*		"	"	"	"	

Lender Consulting Service	Project: LCS Price List	
P.O. Box 406	Project Number: 177 & 255 Great Arrow	**Reported:**
Buffalo NY, 14205	Project Manager: Doug Reid	08/25/04 15:13

Semivolatile Organic Compounds by EPA Method 8270C

Waste Stream Technology Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BH43 (2-4) (4H12020-17) Soil Sampled: 08/12/04 00:00 Received: 08/12/04 15:54									
N-Nitrosodimethylamine	ND	67	ug/kg dry	1	AH41801	08/18/04	08/20/04	8270	U
bis(2-chloroethyl)ether	ND	67	"	"	"	"	"	"	U
phenol	ND	130	"	"	"	"	"	"	U
2-chlorophenol	ND	130	"	"	"	"	"	"	U
1,3-dichlorobenzene	ND	67	"	"	"	"	"	"	U
1,4-dichlorobenzene	ND	67	"	"	"	"	"	"	U
1,2-dichlorobenzene	ND	67	"	"	"	"	"	"	U
bis(2-chloroisopropyl)ether	ND	67	"	"	"	"	"	"	U
benzyl alcohol	ND	67	"	"	"	"	"	"	U
2-methylphenol	ND	67	"	"	"	"	"	"	U
hexachloroethane	ND	67	"	"	"	"	"	"	U
N-Nitrosodi-n-propylamine	ND	67	"	"	"	"	"	"	U
3 & 4-methylphenol	ND	130	"	"	"	"	"	"	U
nitrobenzene	ND	67	"	"	"	"	"	"	U
isophorone	ND	67	"	"	"	"	"	"	U
2-nitrophenol	ND	130	"	"	"	"	"	"	U
2,4-dimethylphenol	ND	130	"	"	"	"	"	"	U
bis(2-chloroethoxy)methane	ND	67	"	"	"	"	"	"	U
benzoic acid	ND	330	"	"	"	"	"	"	U
2,4-dichlorophenol	ND	130	"	"	"	"	"	"	U
1,2,4-trichlorobenzene	ND	67	"	"	"	"	"	"	U
naphthalene	ND	67	"	"	"	"	"	"	U
4-chloroaniline	ND	67	"	"	"	"	"	"	U
hexachlorobutadiene	ND	67	"	"	"	"	"	"	U
4-chloro-3-methylphenol	ND	130	"	"	"	"	"	"	U
2-methylnaphthalene	ND	67	"	"	"	"	"	"	U
hexachlorocyclopentadiene	ND	130	"	"	"	"	"	"	U
2,4,6-trichlorophenol	ND	130	"	"	"	"	"	"	U
2,4,5-trichlorophenol	ND	67	"	"	"	"	"	"	U
2-chloronaphthalene	ND	67	"	"	"	"	"	"	U
2-nitroaniline	ND	67	"	"	"	"	"	"	U
acenaphthylene	ND	67	"	"	"	"	"	"	U
Dimethyl phthalate	ND	67	"	"	"	"	"	"	U
2,6-dinitrotoluene	ND	67	"	"	"	"	"	"	U
acenaphthene	ND	67	"	"	"	"	"	"	U
3-nitroaniline	ND	67	"	"	"	"	"	"	U
2,4-dinitrophenol	ND	130	"	"	"	"	"	"	U
dibenzofuran	ND	67	"	"	"	"	"	"	U
2,4-dinitrotoluene	ND	67	"	"	"	"	"	"	U
4-nitrophenol	ND	130	"	"	"	"	"	"	U
fluorene	ND	67	"	"	"	"	"	"	U
4-Chlorophenyl phenyl ether	ND	67	"	"	"	"	"	"	U

Lender Consulting Service	Project: LCS Price List	
P.O. Box 406	Project Number: 177 & 255 Great Arrow	**Reported:**
Buffalo NY, 14205	Project Manager: Doug Reid	08/25/04 15:13

Semivolatile Organic Compounds by EPA Method 8270C

Waste Stream Technology Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
H43 (2-4) (4H12020-17) Soil	**Sampled: 08/12/04 00:00**	**Received: 08/12/04 15:54**							
ethyl phthalate	ND	67	ug/kg dry	1	AH41801	08/18/04	08/20/04	8270	U
troaniline	ND	67	"	"	"	"	"	"	U
Nitro-2-methylphenol	ND	130	"	"	"	"	"	"	U
itrosodiphenylamine	ND	67	"	"	"	"	"	"	U
bromophenylphenylether	ND	67	"	"	"	"	"	"	U
xachlorobenzene	ND	67	"	"	"	"	"	"	U
ntachlorophenol	ND	130	"	"	"	"	"	"	U
enanthrene	ND	67	"	"	"	"	"	"	U
thracene	ND	67	"	"	"	"	"	"	U
rbazole	ND	67	"	"	"	"	"	"	U
-n-butyl phthalate	ND	67	"	"	"	"	"	"	U
nzidine	ND	330	"	"	"	"	"	"	U
oranthene	ND	67	"	"	"	"	"	"	U
rene	ND	67	"	"	"	"	"	"	U
tyl benzyl phthalate	ND	67	"	"	"	"	"	"	U
-Dichlorobenzidine	ND	67	"	"	"	"	"	"	U
zo (a) anthracene	ND	67	"	"	"	"	"	"	U
ysene	ND	67	"	"	"	"	"	"	U
(2-ethylhexyl)phthalate	ND	67	"	"	"	"	"	"	U
-n-octyl phthalate	ND	67	"	"	"	"	"	"	U
nzo (b) fluoranthene	ND	67	"	"	"	"	"	"	U
nzo (k) fluoranthene	ND	67	"	"	"	"	"	"	U
nzo (a) pyrene	ND	67	"	"	"	"	"	"	U
leno (1,2,3-cd) pyrene	ND	67	"	"	"	"	"	"	U
benz (a,h) anthracene	ND	67	"	"	"	"	"	"	U
nzo (g,h,i) perylene	ND	67	"	"	"	"	"	"	U
rogate: 2-Fluorophenol		*67.5 %*	*50-112*		"	"	"	"	
rogate: Phenol-d6		*70.3 %*	*52-117*		"	"	"	"	
rogate: Nitrobenzene-d5		*75.7 %*	*48-122*		"	"	"	"	
rogate: 2-Fluorobiphenyl		*84.3 %*	*50-121*		"	"	"	"	
rogate: 2,4,6-Tribromophenol		*100 %*	*50-132*		"	"	"	"	
rogate: Terphenyl-d14		*107 %*	*36-134*		"	"	"	"	

Lender Consulting Service	Project: LCS Price List	
P.O. Box 406	Project Number: 177 & 255 Great Arrow	**Reported:**
Buffalo NY, 14205	Project Manager: Doug Reid	08/25/04 15:13

Conventional Chemistry Parameters by APHA/EPA Methods
Waste Stream Technology Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
H20 (2-4) (4H12020-01) Soil	**Sampled: 08/11/04 00:00**	**Received: 08/12/04 15:54**							
% Solids	**81.5**	0.1	%	1	AH41805	08/17/04	08/18/04	% calculation	
H21 (2-4) (4H12020-02) Soil	**Sampled: 08/11/04 00:00**	**Received: 08/12/04 15:54**							
% Solids	**80.4**	0.1	%	1	AH41707	08/16/04	08/17/04	% calculation	
H22 (6-8) (4H12020-03) Soil	**Sampled: 08/11/04 00:00**	**Received: 08/12/04 15:54**							
% Solids	**83.5**	0.1	%	1	AH41707	08/16/04	08/17/04	% calculation	
H23 (0-2) (4H12020-04) Soil	**Sampled: 08/11/04 00:00**	**Received: 08/12/04 15:54**							
% Solids	**75.4**	0.1	%	1	AH41707	08/16/04	08/17/04	% calculation	
H24 (0-2) (4H12020-05) Soil	**Sampled: 08/11/04 00:00**	**Received: 08/12/04 15:54**							
% Solids	**79.7**	0.1	%	1	AH41707	08/16/04	08/17/04	% calculation	
H25 (2-4) (4H12020-06) Soil	**Sampled: 08/11/04 00:00**	**Received: 08/12/04 15:54**							
% Solids	**68.8**	0.1	%	1	AH41707	08/16/04	08/17/04	% calculation	
H26 (0-2) (4H12020-07) Soil	**Sampled: 08/11/04 00:00**	**Received: 08/12/04 15:54**							
% Solids	**74.0**	0.1	%	1	AH41707	08/16/04	08/17/04	% calculation	
H27 (2-4) (4H12020-08) Soil	**Sampled: 08/11/04 00:00**	**Received: 08/12/04 15:54**							
% Solids	**81.2**	0.1	%	1	AH41907	08/18/04	08/19/04	% calculation	
H28 (0-2) (4H12020-09) Soil	**Sampled: 08/11/04 00:00**	**Received: 08/12/04 15:54**							
% Solids	**77.1**	0.1	%	1	AH41707	08/16/04	08/17/04	% calculation	

.ender Consulting Service	Project: LCS Price List	
'.O. Box 406	Project Number: 177 & 255 Great Arrow	**Reported:**
3uffalo NY, 14205	Project Manager: Doug Reid	08/25/04 15:13

Conventional Chemistry Parameters by APHA/EPA Methods

Waste Stream Technology Inc.

ıalyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
I29 (0-2) (4H12020-10) Soil	**Sampled: 08/11/04 00:00**	**Received: 08/12/04 15:54**							
Solids	81.2	0.1	%	1	AH41707	08/16/04	08/17/04	% calculation	
I33 (0-2) (4H12020-11) Soil	**Sampled: 08/11/04 00:00**	**Received: 08/12/04 15:54**							
Solids	76.1	0.1	%	1	AH41707	08/16/04	08/17/04	% calculation	
I35 (0-2) (4H12020-12) Soil	**Sampled: 08/11/04 00:00**	**Received: 08/12/04 15:54**							
Solids	75.5	0.1	%	1	AH41707	08/16/04	08/17/04	% calculation	
I36 (2-4) (4H12020-13) Soil	**Sampled: 08/12/04 00:00**	**Received: 08/12/04 15:54**							
Solids	75.6	0.1	%	1	AH41707	08/16/04	08/17/04	% calculation	
I37 (4-6) (4H12020-14) Soil	**Sampled: 08/12/04 00:00**	**Received: 08/12/04 15:54**							
Solids	81.6	0.1	%	1	AH41707	08/16/04	08/17/04	% calculation	
I38 (4-6) (4H12020-15) Soil	**Sampled: 08/12/04 00:00**	**Received: 08/12/04 15:54**							
Solids	69.8	0.1	%	1	AH41707	08/16/04	08/17/04	% calculation	
I42 (2-4) (4H12020-16) Soil	**Sampled: 08/12/04 00:00**	**Received: 08/12/04 15:54**							
Solids	79.1	0.1	%	1	AH41707	08/16/04	08/17/04	% calculation	
I43 (2-4) (4H12020-17) Soil	**Sampled: 08/12/04 00:00**	**Received: 08/12/04 15:54**							
Solids	79.1	0.1	%	1	AH41707	08/16/04	08/17/04	% calculation	
I36 (4-8) (4H12020-18) Soil	**Sampled: 08/12/04 00:00**	**Received: 08/12/04 15:54**							
Solids	82.7	0.1	%	1	AH41707	08/16/04	08/17/04	% calculation	

Notes and Definitions

U	Analyte included in the analysis, but not detected
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
S-01	The surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or matrix interference's.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

TECHNOLOGY

Waste Stream Technology Inc.
302 Grote Street, Buffalo, NY 14207
(716) 876-5290 • FAX (716) 876-2412

GROUP # 4H18050

DUE DATE

TURN AROUND TIME: 10BD

QUOTATION NUMBER: /

ARE SPECIAL DETECTION LIMITS REQUIRED: YES NO
If yes please attach requirements.

Is a QC Package required: YES NO
If yes please attach requirements

REPORT TO:

CONTACT

PH. # ( )

FAX # ( )

BILL TO:

PO#

PROJECT DESCRIPTION

SAMPLER SIGNATURE

DW DRINKING WATER
GW GROUND WATER
SW SURFACE WATER
WW WASTE WATER
O OIL

SL SLUDGE
SO SOIL
S SOLID
W WIPE
OTHER

ANALYSES TO BE PERFORMED

	SAMPLE I.D.	DATE SAMPLED	TIME OF SAMPLING	SAMPLE TYPE	TOTAL NO. OF CONTAINERS	TCL	TCL	RCRA Metals	PCB							TYPE OF CONTAINER/ COMMENTS:	OFFICE USE ONLY WST. I.D.
1	[illegible]	[illegible]		SO	2	X ✓	X ✓									[illegible]	01
2	[illegible]	|		|	3	X ✓	X ✓	X ✓	X ✓							[illegible]	02
3	[illegible]	|		|	3	X ✓	X ✓	X ✓	X ✓							[illegible]	03
4	[illegible]	|		|	3	X ✓	X ✓	X ✓	X ✓							"	04
5	[illegible]	|		|	3	X ✓	X ✓	X ✓	X ✓							"	05
6	[illegible]	|		|	3	X ✓	X ✓	X ✓	X ✓							"	06
7	[illegible]	|		|	3	X ✓	X ✓	X ✓	X ✓							"	07
8	[illegible]	|		|	2	X ✓	X ✓									[illegible]	08
9	[illegible]	|		|	3	X ✓	X ✓	X ✓	X ✓							[illegible]	09
10	[illegible]	8/1		SO	3	X ✓	X ✓	X ✓	X ✓							"	10

REMARKS:

RELINQUISHED BY:	DATE:	TIME:	RECEIVED BY:	DATE:	TIME:
[signature]	8/12/0	1530	[signature]	8/13/01	1530
RELINQUISHED BY:	DATE: / /	TIME:	RECEIVED BY:	DATE: / /	TIME:

TECHNOLOGY
Waste Stream Technology Inc.
302 Grote Street, Buffalo, NY 14207
(716) 876-5290 • FAX (716) 876-2412

REPORT TO:

CONTACT

PH. # ( )

FAX # ( )

BILL TO:

PO#

PROJECT DESCRIPTION

SAMPLER SIGNATURE

GROUP # 4H12080

DUE DATE

TURN AROUND TIME: 10 BD

QUOTATION NUMBER:

DW DRINKING WATER
GW GROUND WATER
SW SURFACE WATER
WW WASTE WATER
O OIL
SL SLUDGE
SO SOIL
S SOLID
W WIPE
OTHER

ARE SPECIAL DETECTION LIMITS REQUIRED: YES NO
If yes please attach requirements.

Is a QC Package required: YES NO
If yes please attach requirements

ANALYSES TO BE PERFORMED

	SAMPLE I.D.	DATE SAMPLED	TIME OF SAMPLING	SAMPLE TYPE	TOTAL NO. OF CONTAINERS	TCL [illegible]	TCL [illegible]	RCRA Metals	[illegible]							TYPE OF CONTAINER/ COMMENTS:	OFFICE USE ONLY WST. I.D.
1	[illegible]	[illegible]		[illegible]	[illegible]	X✓	✓	✓	✓							[illegible]	11
2	[illegible]	[illegible]		[illegible]	2	✓	✓	✓	✓							[illegible]	12
3	[illegible]	[illegible]		[illegible]	[illegible]	✳	✳	✓	X✓							[illegible]	13
4	[illegible]	[illegible]		[illegible]	[illegible]	✓	✓	✓								[illegible]	14
5	[illegible]	[illegible]		[illegible]	[illegible]	✓	✓	✓									15
6	[illegible]	[illegible]		[illegible]	[illegible]	X✓	X✓	✓	✓							[illegible]	16
7	[illegible]	[illegible]			[illegible]	X✓	X✓	X✓	X✓							[illegible]	17
8	BH36 (4-8)				2	X✓	X✓	X✓									
9																	
10																	

REMARKS:
2 containers [illegible] BH36 (4-8)
Also [illegible] container labeled BH32 (2-4) [illegible]

RELINQUISHED BY:	DATE:	TIME:	RECEIVED BY:	DATE:	TIME:
[signature]	8/12/01	1554	[signature]	8/12/01	1654
RELINQUISHED BY:	/ /		RECEIVED BY:	/ /	

WASTE STREAM TECHNOLOGY, INC.

302 Grote Street
Buffalo, NY 14207
(716) 876-5290

Analytical Data Report
Report Date: 08/27/04
Work Order Number: 4H13024

Prepared For
Doug Reid
Lender Consulting Service
P.O. Box 406
Buffalo, NY 14205
Fax: (716) 845-6164

Site: Great Arrow

closed are the results of analyses for samples received by the laboratory on 08/13/04. If you have any uestions concerning this report, please feel free to contact me.

ncerely,

ian S. Schepart, Ph.D., Laboratory Director

ENVIRONMENTAL LABORATORY ACCREDITATION CERTIFICATION NUMBERS
NYSDOH ELAP #11179 NJDEPE #73977 PADEP #68757

Lender Consulting Service	Project: New York State Projects	
P.O. Box 406	Project Number: Great Arrow	**Reported:**
Buffalo NY, 14205	Project Manager: Doug Reid	08/27/04 13:11

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
3H45 10-12	4H13024-01	Soil	08/13/04 08:00	08/13/04 16:15
3H46 0-2	4H13024-02	Soil	08/13/04 08:30	08/13/04 16:15
3H46 4-6	4H13024-03	Soil	08/13/04 08:45	08/13/04 16:15
3H48 2-4	4H13024-04	Soil	08/13/04 10:00	08/13/04 16:15
3H49 0-2	4H13024-05	Soil	08/13/04 11:00	08/13/04 16:15

Lender Consulting Service	Project: New York State Projects	
P.O. Box 406	Project Number: Great Arrow	**Reported:**
Buffalo NY, 14205	Project Manager: Doug Reid	08/27/04 13:11

RCRA Metals by EPA 6000/7000 Series Methods

Waste Stream Technology Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
H48 2-4 (4H13024-04) Soil Sampled: 08/13/04 10:00 Received: 08/13/04 16:15									
Mercury	**0.017**	0.012	mg/kg dry	1	AH42512	08/25/04	08/25/04	EPA 7471A	
Silver	ND	0.500	"	"	AH41812	08/18/04	08/18/04	EPA 6010B	
Arsenic	**5.20**	1.70	"	"	"	"	"	"	
Barium	**99.3**	1.00	"	"	"	"	"	"	
Cadmium	ND	1.00	"	"	"	"	"	"	
Chromium	**20.0**	1.00	"	"	"	"	"	"	
Lead	**10.9**	4.10	"	"	"	"	"	"	
Selenium	**3.02**	1.40	"	"	"	"	"	"	
H49 0-2 (4H13024-05) Soil Sampled: 08/13/04 11:00 Received: 08/13/04 16:15									
Mercury	**0.017**	0.012	mg/kg dry	1	AH42512	08/25/04	08/25/04	EPA 7471A	
Silver	ND	0.500	"	"	AH41812	08/18/04	08/18/04	EPA 6010B	
Arsenic	**4.50**	1.70	"	"	"	"	"	"	
Barium	**125**	1.00	"	"	"	"	"	"	
Cadmium	ND	1.00	"	"	"	"	"	"	
Chromium	**8.65**	1.00	"	"	"	"	"	"	
Lead	**176**	4.10	"	"	"	"	"	"	
Selenium	**4.91**	1.40	"	"	"	"	"	"	

ender Consulting Service	Project: New York State Projects	
.O. Box 406	Project Number: Great Arrow	**Reported:**
Buffalo NY, 14205	Project Manager: Doug Reid	08/27/04 13:11

Polychlorinated Biphenyls by EPA Method 8082

Waste Stream Technology Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
148 2-4 (4H13024-04) Soil Sampled: 08/13/04 10:00 Received: 08/13/04 16:15									
roclor 1016	ND	3.30	ug/kg dry	1	AH42005	08/20/04	08/22/04	8082	U
roclor 1221	ND	3.30	"	"	"	"	"	"	U
roclor 1232	ND	3.30	"	"	"	"	"	"	U
roclor 1242	ND	3.30	"	"	"	"	"	"	U
roclor 1248	ND	3.30	"	"	"	"	"	"	U
roclor 1254	ND	3.30	"	"	"	"	"	"	U
roclor 1260	ND	3.30	"	"	"	"	"	"	U
rrogate: Tetrachloro-meta-xylene		*99.5 %*		*74-122*		"	"	"	
rrogate: Decachlorobiphenyl		*94.5 %*		*64-127*		"	"	"	
149 0-2 (4H13024-05) Soil Sampled: 08/13/04 11:00 Received: 08/13/04 16:15									
roclor 1016	ND	33.0	ug/kg dry	10	AH42005	08/20/04	08/22/04	8082	U
roclor 1221	ND	33.0	"	"	"	"	"	"	U
roclor 1232	ND	33.0	"	"	"	"	"	"	U
roclor 1242	ND	33.0	"	"	"	"	"	"	U
roclor 1248	ND	33.0	"	"	"	"	"	"	U
roclor 1254	ND	33.0	"	"	"	"	"	"	U
roclor 1260	ND	33.0	"	"	"	"	"	"	U
rrogate: Tetrachloro-meta-xylene		*87.8 %*		*74-122*		"	"	"	
rrogate: Decachlorobiphenyl		*108 %*		*64-127*		"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Waste Stream Technology Inc.

nalyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
145 10-12 (4H13024-01) Soil Sampled: 08/13/04 08:00 Received: 08/13/04 16:15									
ethyl tert-butyl ether	ND	10	ug/kg dry	1	AH41902	08/19/04	08/19/04	8260	U
nzene	ND	10	"	"	"	"	"	"	U
uene	ND	10	"	"	"	"	"	"	U
ylbenzene	ND	10	"	"	"	"	"	"	U
p-xylene	ND	20	"	"	"	"	"	"	U
xylene	ND	10	"	"	"	"	"	"	U
propylbenzene	ND	10	"	"	"	"	"	"	U
ropylbenzene	ND	10	"	"	"	"	"	"	U
3,5-trimethylbenzene	ND	10	"	"	"	"	"	"	U
t-butylbenzene	ND	10	"	"	"	"	"	"	U
1,2,4-trimethylbenzene	ND	10	"	"	"	"	"	"	U
c-butylbenzene	ND	10	"	"	"	"	"	"	U
sopropyltoluene	ND	10	"	"	"	"	"	"	U
utylbenzene	ND	10	"	"	"	"	"	"	U
...lene	ND	10	"	"	"	"	"	"	U
...e: 1,2-Dichloroethane-d4		*105 %*	*69-132*		"	"	"	"	
rogate: Toluene-d8		*93.0 %*	*81-121*		"	"	"	"	
rogate: Bromofluorobenzene		*102 %*	*83-121*		"	"	"	"	
146 0-2 (4H13024-02RE2) Soil Sampled: 08/13/04 08:30 Received: 08/13/04 16:15									
ethyl tert-butyl ether	ND	8	ug/kg dry	1	AH42302	08/18/04	08/23/04	8260	U
nzene	ND	8	"	"	"	"	"	"	U
uene	ND	8	"	"	"	"	"	"	U
ylbenzene	**169**	8	"	"	"	"	"	"	
p-xylene	**119**	17	"	"	"	"	"	"	
ylene	**13**	8	"	"	"	"	"	"	
propylbenzene	**222**	8	"	"	"	"	"	"	
ropylbenzene	**578**	8	"	"	"	"	"	"	
,5-trimethylbenzene	**77**	8	"	"	"	"	"	"	
-butylbenzene	ND	8	"	"	"	"	"	"	U
,4-trimethylbenzene	**3090**	249	"	29.43	"	"	08/20/04	"	D
-butylbenzene	**710**	8	"	1	"	"	08/23/04	"	
sopropyltoluene	**596**	8	"	"	"	"	"	"	
utylbenzene	**986**	8	"	"	"	"	"	"	
phthalene	**1580**	249	"	29.43	"	"	08/20/04	"	D
rogate: 1,2-Dichloroethane-d4		*101 %*	*69-132*		"	"	*08/23/04*	"	
rogate: Toluene-d8		*94.0 %*	*81-121*		"	"	"	"	
rogate: Bromofluorobenzene		*105 %*	*83-121*		"	"	"	"	

Lender Consulting Service	Project: New York State Projects	
P.O. Box 406	Project Number: Great Arrow	**Reported:**
Buffalo NY, 14205	Project Manager: Doug Reid	08/27/04 13:11

Volatile Organic Compounds by EPA Method 8260B

Waste Stream Technology Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
H46 4-6 (4H13024-03RE2) Soil Sampled: 08/13/04 08:45 Received: 08/13/04 16:15									
fethyl tert-butyl ether	ND	9	ug/kg dry	1	AH42302	08/18/04	08/23/04	8260	U
enzene	ND	9	"	"	"	"	"	"	U
oluene	ND	9	"	"	"	"	"	"	U
thylbenzene	**110**	9	"	"	"	"	"	"	
n,p-xylene	**114**	18	"	"	"	"	"	"	
-xylene	ND	9	"	"	"	"	"	"	U
opropylbenzene	**285**	9	"	"	"	"	"	"	
propylbenzene	**737**	9	"	"	"	"	"	"	
3,5-trimethylbenzene	ND	9	"	"	"	"	"	"	U
rt-butylbenzene	ND	9	"	"	"	"	"	"	U
2,4-trimethylbenzene	**3020**	248	"	27.72	"	"	08/20/04	"	D
c-butylbenzene	**985**	9	"	1	"	"	08/23/04	"	
-isopropyltoluene	**550**	9	"	"	"	"	"	"	
-butylbenzene	**3480**	248	"	27.72	"	"	08/20/04	"	D
aphthalene	**4430**	248	"	"	"	"	"	"	D
urrogate: 1,2-Dichloroethane-d4	*103 %*	*69-132*		"	"	*08/23/04*	"		
urrogate: Toluene-d8	*93.3 %*	*81-121*		"	"	"	"		
urrogate: Bromofluorobenzene	*119 %*	*83-121*		"	"	"	"		
H48 2-4 (4H13024-04) Soil Sampled: 08/13/04 10:00 Received: 08/13/04 16:15									
loromethane	ND	10	ug/kg dry	1	AH41902	08/19/04	08/19/04	8260	U
nyl chloride	ND	10	"	"	"	"	"	"	U
omomethane	ND	10	"	"	"	"	"	"	U
loroethane	ND	10	"	"	"	"	"	"	U
1-dichloroethene	ND	2	"	"	"	"	"	"	U
etone	ND	10	"	"	"	"	"	"	U
rbon disulfide	ND	2	"	"	"	"	"	"	U
ethylene chloride	**5**	2	"	"	"	"	"	"	
ns-1,2-dichloroethene	ND	2	"	"	"	"	"	"	U
1-dichloroethane	ND	2	"	"	"	"	"	"	U
nyl acetate	ND	10	"	"	"	"	"	"	U
butanone	ND	10	"	"	"	"	"	"	U
s-1,2-dichloroethene	ND	2	"	"	"	"	"	"	U
loroform	ND	2	"	"	"	"	"	"	U
1,1-trichloroethane	ND	2	"	"	"	"	"	"	U
rbon tetrachloride	ND	2	"	"	"	"	"	"	U
nzene	ND	2	"	"	"	"	"	"	U
2-dichloroethane	ND	2	"	"	"	"	"	"	U
chloroethene	ND	2	"	"	"	"	"	"	U
2-dichloropropane	ND	2	"	"	"	"	"	"	U
omodichloromethane	ND	2	"	"	"	"	"	"	U
Methyl-2-pentanone (MIBK)	ND	10	"	"	"	"	"	"	U

Lender Consulting Service	Project: New York State Projects	
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Buffalo NY, 14205	Project Manager: Doug Reid	08/27/04 13:11

Volatile Organic Compounds by EPA Method 8260B

Waste Stream Technology Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
148 2-4 (4H13024-04) Soil Sampled: 08/13/04 10:00 Received: 08/13/04 16:15									
s-1,3-dichloropropene	ND	2	ug/kg dry	1	AH41902	08/19/04	08/19/04	8260	U
luene	ND	2	"	"	"	"	"	"	U
ans-1,3-dichloropropene	ND	2	"	"	"	"	"	"	U
1,2-trichloroethane	ND	2	"	"	"	"	"	"	U
anone	ND	10	"	"	"	"	"	"	U
ichloroethene	ND	2	"	"	"	"	"	"	U
bromochloromethane	ND	2	"	"	"	"	"	"	U
lorobenzene	ND	2	"	"	"	"	"	"	U
ylbenzene	ND	2	"	"	"	"	"	"	U
p-xylene	ND	4	"	"	"	"	"	"	U
xylene	ND	2	"	"	"	"	"	"	U
rene	ND	2	"	"	"	"	"	"	U
omoform	ND	2	"	"	"	"	"	"	U
1,2,2-tetrachloroethane	ND	2	"	"	"	"	"	"	U
rrogate: 1,2-Dichloroethane-d4		*101 %*		*69-132*	"	"	"	"	
rrogate: Toluene-d8		*91.7 %*		*81-121*	"	"	"	"	
rrogate: Bromofluorobenzene		*104 %*		*83-121*	"	"	"	"	
149 0-2 (4H13024-05) Soil Sampled: 08/13/04 11:00 Received: 08/13/04 16:15									
loromethane	ND	10	ug/kg dry	1	AH41902	08/19/04	08/19/04	8260	U
yl chloride	ND	10	"	"	"	"	"	"	U
omomethane	ND	10	"	"	"	"	"	"	U
loroethane	ND	10	"	"	"	"	"	"	U
1-dichloroethene	ND	2	"	"	"	"	"	"	U
etone	ND	10	"	"	"	"	"	"	U
bon disulfide	ND	2	"	"	"	"	"	"	U
ethylene chloride	7	2	"	"	"	"	"	"	
ns-1,2-dichloroethene	ND	2	"	"	"	"	"	"	U
1-dichloroethane	ND	2	"	"	"	"	"	"	U
yl acetate	ND	10	"	"	"	"	"	"	U
utanone	ND	10	"	"	"	"	"	"	U
s-1,2-dichloroethene	ND	2	"	"	"	"	"	"	U
loroform	ND	2	"	"	"	"	"	"	U
1,1-trichloroethane	ND	2	"	"	"	"	"	"	U
bon tetrachloride	ND	2	"	"	"	"	"	"	U
nzene	ND	2	"	"	"	"	"	"	U
2-dichloroethane	ND	2	"	"	"	"	"	"	U
chloroethene	ND	2	"	"	"	"	"	"	U
2-dichloropropane	ND	2	"	"	"	"	"	"	U
omodichloromethane	ND	2	"	"	"	"	"	"	U
Methyl-2-pentanone (MIBK)	ND	10	"	"	"	"	"	"	U
s-1,3-dichloropropene	ND	2	"	"	"	"	"	"	U

ender Consulting Service	Project: New York State Projects	
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Volatile Organic Compounds by EPA Method 8260B

Waste Stream Technology Inc.

nalyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
449 0-2 (4H13024-05) Soil Sampled: 08/13/04 11:00 Received: 08/13/04 16:15									
luene	**3**	2	ug/kg dry	1	AH41902	08/19/04	08/19/04	8260	
ns-1,3-dichloropropene	ND	2	"	"	"	"	"	"	U
1,2-trichloroethane	ND	2	"	"	"	"	"	"	U
hexanone	ND	10	"	"	"	"	"	"	U
rachloroethene	ND	2	"	"	"	"	"	"	U
promochloromethane	ND	2	"	"	"	"	"	"	U
lorobenzene	ND	2	"	"	"	"	"	"	U
ylbenzene	ND	2	"	"	"	"	"	"	U
p-xylene	ND	4	"	"	"	"	"	"	U
xylene	ND	2	"	"	"	"	"	"	U
rene	ND	2	"	"	"	"	"	"	U
omoform	ND	2	"	"	"	"	"	"	U
1,2,2-tetrachloroethane	ND	2	"	"	"	"	"	"	U
rrogate: 1,2-Dichloroethane-d4		*112 %*	*69-132*		"	"	"	"	
rogate: Toluene-d8		*91.7 %*	*81-121*		"	"	"	"	
rrogate: Bromofluorobenzene		*105 %*	*83-121*		"	"	"	"	

ender Consulting Service	Project: New York State Projects	
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Semivolatile Organic Compounds by EPA Method 8270C

Waste Stream Technology Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
H45 10-12 (4H13024-01RE1) Soil	**Sampled: 08/13/04 08:00**	**Received: 08/13/04 16:15**							
phthalene	ND	67	ug/kg dry	1	AH41929	08/19/04	08/24/04	8270	U
thracene	ND	67	"	"	"	"	"	"	U
enaphthene	ND	67	"	"	"	"	"	"	U
cenaphthylene	ND	67	"	"	"	"	"	"	U
enzo (a) anthracene	ND	67	"	"	"	"	"	"	U
enzo (b) fluoranthene	ND	67	"	"	"	"	"	"	U
enzo (k) fluoranthene	ND	67	"	"	"	"	"	"	U
enzo (g,h,i) perylene	ND	67	"	"	"	"	"	"	U
enzo (a) pyrene	ND	67	"	"	"	"	"	"	U
rysene	ND	67	"	"	"	"	"	"	U
ibenz (a,h) anthracene	ND	67	"	"	"	"	"	"	U
uoranthene	ND	67	"	"	"	"	"	"	U
uorene	ND	67	"	"	"	"	"	"	U
deno (1,2,3-cd) pyrene	ND	67	"	"	"	"	"	"	U
enanthrene	ND	67	"	"	"	"	"	"	U
rene	ND	67	"	"	"	"	"	"	U
urrogate: Nitrobenzene-d5		*63.2 %*		*48-122*	"	"	"	"	
urrogate: 2-Fluorobiphenyl		*96.0 %*		*50-121*	"	"	"	"	
urrogate: Terphenyl-d14		*102 %*		*36-134*	"	"	"	"	
H46 0-2 (4H13024-02RE1) Soil	**Sampled: 08/13/04 08:30**	**Received: 08/13/04 16:15**							
phthalene	ND	67	ug/kg dry	1	AH41929	08/19/04	08/24/04	8270	U
thracene	**357**	67	"	"	"	"	"	"	
enaphthene	**215**	67	"	"	"	"	"	"	
cenaphthylene	ND	67	"	"	"	"	"	"	U
enzo (a) anthracene	**843**	67	"	"	"	"	"	"	
enzo (b) fluoranthene	**722**	67	"	"	"	"	"	"	
enzo (k) fluoranthene	**877**	67	"	"	"	"	"	"	
enzo (g,h,i) perylene	**348**	67	"	"	"	"	"	"	
enzo (a) pyrene	**772**	67	"	"	"	"	"	"	
rysene	**884**	67	"	"	"	"	"	"	
ibenz (a,h) anthracene	**154**	67	"	"	"	"	"	"	
uoranthene	**2070**	67	"	"	"	"	"	"	
uorene	**169**	67	"	"	"	"	"	"	
deno (1,2,3-cd) pyrene	**299**	67	"	"	"	"	"	"	
henanthrene	**1610**	67	"	"	"	"	"	"	
yrene	**1730**	67	"	"	"	"	"	"	
urrogate: Nitrobenzene-d5		*66.9 %*		*48-122*	"	"	"	"	
urrogate: 2-Fluorobiphenyl		*97.2 %*		*50-121*	"	"	"	"	
urrogate: Terphenyl-d14		*110 %*		*36-134*	"	"	"	"	

Lender Consulting Service	Project: New York State Projects	
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Semivolatile Organic Compounds by EPA Method 8270C

Waste Stream Technology Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
H46 4-6 (4H13024-03RE2) Soil	**Sampled: 08/13/04 08:45**	**Received: 08/13/04 16:15**							
aphthalene	**1080**	335	ug/kg dry	5	AH41929	08/19/04	08/24/04	8270	
ıthracene	**2500**	335	"	"	"	"	"	"	
:enaphthene	**1390**	335	"	"	"	"	"	"	
:enaphthylene	ND	335	"	"	"	"	"	"	U
enzo (a) anthracene	**4830**	335	"	"	"	"	"	"	
enzo (b) fluoranthene	**5170**	335	"	"	"	"	"	"	
enzo (k) fluoranthene	**4160**	335	"	"	"	"	"	"	
enzo (g,h,i) perylene	**1440**	335	"	"	"	"	"	"	
enzo (a) pyrene	**4160**	335	"	"	"	"	"	"	
ırysene	**4470**	335	"	"	"	"	"	"	
ibenz (a,h) anthracene	**779**	335	"	"	"	"	"	"	
uoranthene	**12600**	335	"	"	"	"	"	"	
uorene	**1480**	335	"	"	"	"	"	"	
ıdeno (1,2,3-cd) pyrene	**1350**	335	"	"	"	"	"	"	
ıenanthrene	**10100**	335	"	"	"	"	"	"	
yrene	**9720**	335	"	"	"	"	"	"	
urrogate: Nitrobenzene-d5		*90.1 %*	*48-122*		"	"	"	"	
urrogate: 2-Fluorobiphenyl		*89.2 %*	*50-121*		"	"	"	"	
urrogate: Terphenyl-d14		*105 %*	*36-134*		"	"	"	"	
H48 2-4 (4H13024-04) Soil	**Sampled: 08/13/04 10:00**	**Received: 08/13/04 16:15**							
-Nitrosodimethylamine	ND	67	ug/kg dry	1	AH41929	08/19/04	08/27/04	8270	U
s(2-chloroethyl)ether	ND	67	"	"	"	"	"	"	U
ıenol	ND	130	"	"	"	"	"	"	U
chlorophenol	ND	130	"	"	"	"	"	"	U
3-dichlorobenzene	ND	67	"	"	"	"	"	"	U
4-dichlorobenzene	ND	67	"	"	"	"	"	"	U
2-dichlorobenzene	ND	67	"	"	"	"	"	"	U
:nzyl alcohol	ND	67	"	"	"	"	"	"	U
s(2-chloroisopropyl)ether	ND	67	"	"	"	"	"	"	U
methylphenol	ND	67	"	"	"	"	"	"	U
achloroethane	ND	67	"	"	"	"	"	"	U
-Nitrosodi-n-propylamine	ND	67	"	"	"	"	"	"	U
& 4-methylphenol	ND	130	"	"	"	"	"	"	U
trobenzene	ND	67	"	"	"	"	"	"	U
ophorone	ND	67	"	"	"	"	"	"	U
nitrophenol	ND	130	"	"	"	"	"	"	U
4-dimethylphenol	ND	130	"	"	"	"	"	"	U
s(2-chloroethoxy)methane	ND	67	"	"	"	"	"	"	U
nzoic acid	ND	330	"	"	"	"	"	"	U
4-dichlorophenol	ND	130	"	"	"	"	"	"	U
2,4-trichlorobenzene	ND	67	"	"	"	"	"	"	U

Lender Consulting Service	Project: New York State Projects	
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Semivolatile Organic Compounds by EPA Method 8270C

Waste Stream Technology Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
H48 2-4 (4H13024-04) Soil Sampled: 08/13/04 10:00 Received: 08/13/04 16:15									
iphthalene	ND	67	ug/kg dry	1	AH41929	08/19/04	08/27/04	8270	U
chloroaniline	ND	67	"	"	"	"	"	"	U
xachlorobutadiene	ND	67	"	"	"	"	"	"	U
chloro-3-methylphenol	ND	130	"	"	"	"	"	"	U
methylnaphthalene	ND	67	"	"	"	"	"	"	U
xachlorocyclopentadiene	ND	130	"	"	"	"	"	"	U
4,6-trichlorophenol	ND	130	"	"	"	"	"	"	U
4,5-trichlorophenol	ND	67	"	"	"	"	"	"	U
chloronaphthalene	ND	67	"	"	"	"	"	"	U
nitroaniline	ND	67	"	"	"	"	"	"	U
enaphthylene	ND	67	"	"	"	"	"	"	U
imethyl phthalate	ND	67	"	"	"	"	"	"	U
6-dinitrotoluene	ND	67	"	"	"	"	"	"	U
enaphthene	ND	67	"	"	"	"	"	"	U
nitroaniline	ND	67	"	"	"	"	"	"	U
dinitrophenol	ND	130	"	"	"	"	"	"	U
benzofuran	ND	67	"	"	"	"	"	"	U
4-dinitrotoluene	ND	67	"	"	"	"	"	"	U
nitrophenol	ND	130	"	"	"	"	"	"	U
iorene	ND	67	"	"	"	"	"	"	U
Chlorophenyl phenyl ether	ND	67	"	"	"	"	"	"	U
iethyl phthalate	ND	67	"	"	"	"	"	"	U
nitroaniline	ND	67	"	"	"	"	"	"	U
6-Dinitro-2-methylphenol	ND	130	"	"	"	"	"	"	U
nitrosodiphenylamine	ND	67	"	"	"	"	"	"	U
bromophenylphenylether	ND	67	"	"	"	"	"	"	U
xachlorobenzene	ND	67	"	"	"	"	"	"	U
ntachlorophenol	ND	130	"	"	"	"	"	"	U
enanthrene	ND	67	"	"	"	"	"	"	U
thracene	ND	67	"	"	"	"	"	"	U
rbazole	ND	67	"	"	"	"	"	"	U
-n-butyl phthalate	ND	67	"	"	"	"	"	"	U
nzidine	ND	330	"	"	"	"	"	"	U
ioranthene	ND	67	"	"	"	"	"	"	U
rene	ND	67	"	"	"	"	"	"	U
tyl benzyl phthalate	ND	67	"	"	"	"	"	"	U
3'-Dichlorobenzidine	ND	67	"	"	"	"	"	"	U
nzo (a) anthracene	ND	67	"	"	"	"	"	"	U
rysene	ND	67	"	"	"	"	"	"	U
s(2-ethylhexyl)phthalate	**92**	67	"	"	"	"	"	"	
-n-octyl phthalate	ND	67	"	"	"	"	"	"	U
nzo (b) fluoranthene	ND	67	"	"	"	"	"	"	U

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Semivolatile Organic Compounds by EPA Method 8270C

Waste Stream Technology Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
H48 2-4 (4H13024-04) Soil Sampled: 08/13/04 10:00 Received: 08/13/04 16:15									
enzo (k) fluoranthene	ND	67	ug/kg dry	1	AH41929	08/19/04	08/27/04	8270	U
enzo (a) pyrene	ND	67	"	"	"	"	"	"	U
ideno (1,2,3-cd) pyrene	ND	67	"	"	"	"	"	"	U
ibenz (a,h) anthracene	ND	67	"	"	"	"	"	"	U
enzo (g,h,i) perylene	ND	67	"	"	"	"	"	"	U
urrogate: 2-Fluorophenol		*74.1 %*	*50-112*		"	"	"	"	
urrogate: Phenol-d6		*77.1 %*	*52-117*		"	"	"	"	
urrogate: Nitrobenzene-d5		*74.5 %*	*48-122*		"	"	"	"	
urrogate: 2-Fluorobiphenyl		*82.0 %*	*50-121*		"	"	"	"	
urrogate: 2,4,6-Tribromophenol		*91.9 %*	*50-132*		"	"	"	"	
urrogate: Terphenyl-d14		*95.0 %*	*36-134*		"	"	"	"	
H49 0-2 (4H13024-05) Soil Sampled: 08/13/04 11:00 Received: 08/13/04 16:15									
-Nitrosodimethylamine	ND	670	ug/kg dry	10	AH41929	08/19/04	08/27/04	8270	U
is(2-chloroethyl)ether	ND	670	"	"	"	"	"	"	U
henol	ND	1300	"	"	"	"	"	"	U
-chlorophenol	ND	1300	"	"	"	"	"	"	U
,3-dichlorobenzene	ND	670	"	"	"	"	"	"	U
,4-dichlorobenzene	ND	670	"	"	"	"	"	"	U
,2-dichlorobenzene	ND	670	"	"	"	"	"	"	U
is(2-chloroisopropyl)ether	ND	670	"	"	"	"	"	"	U
enzyl alcohol	ND	670	"	"	"	"	"	"	U
-methylphenol	ND	670	"	"	"	"	"	"	U
exachloroethane	ND	670	"	"	"	"	"	"	U
-Nitrosodi-n-propylamine	ND	670	"	"	"	"	"	"	U
& 4-methylphenol	ND	1300	"	"	"	"	"	"	U
itrobenzene	ND	670	"	"	"	"	"	"	U
ophorone	ND	670	"	"	"	"	"	"	U
-nitrophenol	ND	1300	"	"	"	"	"	"	U
4-dimethylphenol	ND	1300	"	"	"	"	"	"	U
is(2-chloroethoxy)methane	ND	670	"	"	"	"	"	"	U
enzoic acid	ND	3300	"	"	"	"	"	"	U
4-dichlorophenol	ND	1300	"	"	"	"	"	"	U
2,4-trichlorobenzene	ND	670	"	"	"	"	"	"	U
aphthalene	ND	670	"	"	"	"	"	"	U
-chloroaniline	ND	670	"	"	"	"	"	"	U
exachlorobutadiene	ND	670	"	"	"	"	"	"	U
-chloro-3-methylphenol	ND	1300	"	"	"	"	"	"	U
-methylnaphthalene	ND	670	"	"	"	"	"	"	U
exachlorocyclopentadiene	ND	1300	"	"	"	"	"	"	U
4,6-trichlorophenol	ND	1300	"	"	"	"	"	"	U
4,5-trichlorophenol	ND	670	"	"	"	"	"	"	U

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Semivolatile Organic Compounds by EPA Method 8270C

Waste Stream Technology Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
H49 0-2 (4H13024-05) Soil Sampled: 08/13/04 11:00 Received: 08/13/04 16:15									
-chloronaphthalene	ND	670	ug/kg dry	10	AH41929	08/19/04	08/27/04	8270	U
-nitroaniline	ND	670	"	"	"	"	"	"	U
enaphthylene	ND	670	"	"	"	"	"	"	U
imethyl phthalate	ND	670	"	"	"	"	"	"	U
6-dinitrotoluene	ND	670	"	"	"	"	"	"	U
enaphthene	ND	670	"	"	"	"	"	"	U
-nitroaniline	ND	670	"	"	"	"	"	"	U
4-dinitrophenol	ND	1300	"	"	"	"	"	"	U
benzofuran	ND	670	"	"	"	"	"	"	U
...dinitrotoluene	ND	670	"	"	"	"	"	"	U
-nitrophenol	ND	1300	"	"	"	"	"	"	U
uorene	ND	670	"	"	"	"	"	"	U
-Chlorophenyl phenyl ether	ND	670	"	"	"	"	"	"	U
iethyl phthalate	ND	670	"	"	"	"	"	"	U
-nitroaniline	ND	670	"	"	"	"	"	"	U
6-Dinitro-2-methylphenol	ND	1300	"	"	"	"	"	"	U
-nitrosodiphenylamine	ND	670	"	"	"	"	"	"	U
-bromophenylphenylether	ND	670	"	"	"	"	"	"	U
exachlorobenzene	ND	670	"	"	"	"	"	"	U
entachlorophenol	ND	1300	"	"	"	"	"	"	U
henanthrene	**3660**	670	"	"	"	"	"	"	
nthracene	ND	670	"	"	"	"	"	"	U
rbazole	ND	670	"	"	"	"	"	"	U
i-n-butyl phthalate	ND	670	"	"	"	"	"	"	U
enzidine	ND	3300	"	"	"	"	"	"	U
uoranthene	**19500**	670	"	"	"	"	"	"	
yrene	**22900**	670	"	"	"	"	"	"	
utyl benzyl phthalate	ND	670	"	"	"	"	"	"	U
3'-Dichlorobenzidine	ND	670	"	"	"	"	"	"	U
enzo (a) anthracene	**8770**	670	"	"	"	"	"	"	
rysene	**10100**	670	"	"	"	"	"	"	
s(2-ethylhexyl)phthalate	ND	670	"	"	"	"	"	"	U
i-n-octyl phthalate	ND	670	"	"	"	"	"	"	U
enzo (b) fluoranthene	**8790**	670	"	"	"	"	"	"	
enzo (k) fluoranthene	**11000**	670	"	"	"	"	"	"	
enzo (a) pyrene	**8940**	670	"	"	"	"	"	"	
ideno (1,2,3-cd) pyrene	**2960**	670	"	"	"	"	"	"	
ibenz (a,h) anthracene	**820**	670	"	"	"	"	"	"	
enzo (g,h,i) perylene	**3280**	670	"	"	"	"	"	"	
urrogate: 2-Fluorophenol		*90.6 %*		*50-112*		"	"	"	
urrogate: Phenol-d6		*91.1 %*		*52-117*		"	"	"	
urrogate: Nitrobenzene-d5		*88.5 %*		*48-122*		"	"	"	

Lender Consulting Service	Project: New York State Projects	
P.O. Box 406	Project Number: Great Arrow	Reported:
Buffalo NY, 14205	Project Manager: Doug Reid	08/27/04 13:11

Semivolatile Organic Compounds by EPA Method 8270C

Waste Stream Technology Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
H49 0-2 (4H13024-05) Soil	**Sampled: 08/13/04 11:00**	**Received: 08/13/04 16:15**							
Surrogate: 2-Fluorobiphenyl		*98.8 %*	*50-121*		*AH41929*	*08/19/04*	*08/27/04*	*8270*	
Surrogate: 2,4,6-Tribromophenol		*94.9 %*	*50-132*		*"*	*"*	*"*	*"*	
Surrogate: Terphenyl-d14		*109 %*	*36-134*		*"*	*"*	*"*	*"*	

Lender Consulting Service	Project: New York State Projects	
P.O. Box 406	Project Number: Great Arrow	Reported:
Buffalo NY, 14205	Project Manager: Doug Reid	08/27/04 13:11

Conventional Chemistry Parameters by APHA/EPA Methods

Waste Stream Technology Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
3H45 10-12 (4H13024-01) Soil	**Sampled: 08/13/04 08:00**	**Received: 08/13/04 16:15**							
% Solids	82.6	0.1	%	1	AH42015	08/19/04	08/20/04	% calculation	
3H46 0-2 (4H13024-02) Soil	**Sampled: 08/13/04 08:30**	**Received: 08/13/04 16:15**							
% Solids	93.3	0.1	%	1	AH42015	08/19/04	08/20/04	% calculation	
3H46 4-6 (4H13024-03) Soil	**Sampled: 08/13/04 08:45**	**Received: 08/13/04 16:15**							
% Solids	76.8	0.1	%	1	AH42015	08/19/04	08/20/04	% calculation	
3H48 2-4 (4H13024-04) Soil	**Sampled: 08/13/04 10:00**	**Received: 08/13/04 16:15**							
Cyanide (total)	ND	0.50	mg/kg dry	1	AH41924	08/19/04	08/19/04	EPA 9014	
% Solids	82.8	0.1	%	"	AH41907	08/18/04	08/19/04	% calculation	
3H49 0-2 (4H13024-05) Soil	**Sampled: 08/13/04 11:00**	**Received: 08/13/04 16:15**							
Cyanide (total)	26.9	0.50	mg/kg dry	1	AH41924	08/19/04	08/19/04	EPA 9014	
% Solids	80.8	0.1	%	"	AH41907	08/18/04	08/19/04	% calculation	

ender Consulting Service	Project: New York State Projects	
.O. Box 406	Project Number: Great Arrow	Reported:
Buffalo NY, 14205	Project Manager: Doug Reid	08/27/04 13:11

Notes and Definitions

J	Analyte included in the analysis, but not detected
D	This flag assigned to compounds identified in an analysis at a secondary dilution factor.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.
AH41902-BLK1

Lab Name: Waste Stream Technology Contract: LCS

Project No.: Site: Great Arrow Location: Group: 4H13024

Matrix: (soil/water) soil Lab Sample ID: AH41902-BLK1

Sample wt/vol: 1.00 (g/mL) g Lab File ID: 0024384

Level: (low/med) low Date Received: na

% Moisture: not dec. na Date Analyzed: 08/19/04

GC Column: Rtx 502.2 ID: 0.18 (mm) Dilution Factor: na

Soil Extract Volume: na (uL) Soil Aliquot Volume: na (uL)

Number TICs found: 1 Concentration Units: (ug/L or ug/Kg) µg/Kg

CAS Number	Compound Name	RT	Est. Conc.	Q
1. 000075-09-2	Methylene Chloride	3.45	23	J
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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.
AH42302-BLK1

Lab Name: Waste Stream Technology Contract: LCS

Project No.: Site: Great Arrow Location: Group: 4H13024

Matrix: (soil/water) soil Lab Sample ID: AH42302-BLK1

Sample wt/vol: 1.00 (g/mL) g Lab File ID: 0024416

Level: (low/med) low Date Received: na

% Moisture: not dec. na Date Analyzed: 08/23/04

GC Column: Rtx 502.2 ID: 0.18 (mm) Dilution Factor: na

Soil Extract Volume: na (uL) Soil Aliquot Volume: na (uL)

Number TICs found: 2 Concentration Units: (ug/L or ug/Kg) µg/Kg

CAS Number	Compound Name	RT	Est. Conc.	Q
1. 000075-09-2	Methylene Chloride	3.44	30	J
2. 000110-54-3	Hexane	3.91	30	J
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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

BH45 10-12

Lab Name: Waste Stream Technology Contract: LCS

Project No.: _____ Site: Great Arrow Location: _____ Group: 4H13024

Matrix: (soil/water) soil Lab Sample ID: 4H13024-01

Sample wt/vol: 1.09 (g/mL) g Lab File ID: 0024400

Level: (low/med) low Date Received: 0813/04

% Moisture: not dec. 17.4 Date Analyzed: 08/19/04

GC Column: Rtx 502.2 ID: 0.18 (mm) Dilution Factor: na

Soil Extract Volume: na (uL) Soil Aliquot Volume: na (uL)

Number TICs found: 2 Concentration Units: (ug/L or ug/Kg) µg/Kg

CAS Number	Compound Name	RT	Est. Conc.	Q
1. 000075-09-2	Methylene Chloride	3.45	97	J, B
2. 000110-54-3	Hexane	3.91	25	J
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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

BH46 (0-2)

Lab Name: Waste Stream Technology Contract: LCS

Project No.: Site: Great Arrow Location: Group: 4H13024

Matrix: (soil/water) soil Lab Sample ID: 4H13024-02

Sample wt/vol: 1.18 (g/mL) g Lab File ID: 0024425

Level: (low/med) low Date Received: 08/13/04

% Moisture: not dec. 6.7 Date Analyzed: 08/23/04

GC Column: Rtx 502.2 ID: 0.18 (mm) Dilution Factor: na

Soil Extract Volume: na (uL) Soil Aliquot Volume: na (uL)

Number TICs found: 10 Concentration Units: (ug/L or ug/Kg) µg/Kg

CAS Number	Compound Name	RT	Est. Conc.	Q
1. 001678-92-8	Cyclohexane, propyl-	15.46	541	J
2.	Naphthalene, decahydro- isomer	19.91	729	J
3.	Substituted Aromatic	21.39	533	J
4.	Substituted Alkane	22.38	1290	J
5.	Substituted Benzene	22.58	603	J
6. 000119-64-2	Naphthalene, 1,2,3,4-tetrahydro-	22.90	712	J
7.	Substituted Alkane	22.99	1410	J
8. 003877-19-8	Naphthalene, 1,2,3,4-tetrahydro-	23.39	559	J
9.	Dodecane, trimethyl- isomer	23.24	700	J
10.	Naphthalene, methyl- isomer	24.42	541	J
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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

BH46 (4-6)

Lab Name: Waste Stream Technology Contract: LCS

Project No.: _____ Site: Great Arrow Location: _____ Group: 4H13024

Matrix: (soil/water) soil Lab Sample ID: 4H13024-03

Sample wt/vol: 1.12 (g/mL) g Lab File ID: 0024426

Level: (low/med) low Date Received: 08/13/04

% Moisture: not dec. 23.2 Date Analyzed: 08/23/04

GC Column: Rtx 502.2 ID: 0.18 (mm) Dilution Factor: na

Soil Extract Volume: na (uL) Soil Aliquot Volume: na (uL)

Number TICs found: 10 Concentration Units: (ug/L or ug/Kg) µg/Kg

CAS Number	Compound Name	RT	Est. Conc.	Q
1.	Substituted Alkane	15.75	1080	J
2.	Naphthalene, decahydro- isomer	19.91	941	J
3.	Substituted Alkane	22.38	2110	J
4.	Substituted Benzene	22.59	930	J
5. 000119-64-2	Naphthalene, 1,2,3,4-tetrahydro-	22.90	1120	J
6.	Substituted Alkane	22.99	2200	J
7. 003877-19-8	Naphthalene, 1,2,3,4-tetrahydro-	23.38	875	J
8.	Unknown	23.48	847	J
9.	Dodecane, trimethyl- isomer	23.94	1130	J
10. 000090-12-0	Naphthalene, 1-methyl-	24.43	1010	J
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.
BHY5 10-12

Lab Name: WASTE STREAM TECHNOLOGY Contract:

Project No.: Great Arrow Site: Location: BHY5 10-12 Group: 4H13024

Matrix: (soil/water) SOIL Lab Sample ID: 4H13024-01

Sample wt/vol: 30.3 (g/mL) ML Lab File ID: 0018493.D

Level: (low/med) Date Received: 8/13/2004

% Moisture: NA decanted: (Y/N) N Date Extracted: 8/22/2004

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 8/24/2004

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

Number TICs found: 1 Concentration Units: (ug/L or ug/Kg) UG/KG

CAS Number	Compound Name	RT	Est. Conc.	Q
1.	DIFLUOROBIPHENYL ISOMER	4.86	235	J
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.
BHY6 0-2

Lab Name: WASTE STREAM TECHNOLOGY Contract:

Project No.: Great Arrow Site: Location: BHY6 0-2 Group: 4H13024

Matrix: (soil/water) SOIL Lab Sample ID: 4H13024-02

Sample wt/vol: 30.0 (g/mL) ML Lab File ID: 0018494.D

Level: (low/med) Date Received: 8/13/2004

% Moisture: NA decanted: (Y/N) N Date Extracted: 8/22/2004

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 8/24/2004

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

Number TICs found: 9 Concentration Units: (ug/L or ug/Kg) UG/kg

CAS Number	Compound Name	RT	Est. Conc.	Q
1.	UNKNOWN ALKANE	3.96	291	J
2.	Unknown Alkane	4.45	486	J
3.	UNKNOWN ALKANE	4.85	433	J
4.	Dimethyl Napthalene isomer	5.31	439	J
5.	Trimethyl Napthalene Isomer	5.87	304	J
6.	UNKNOWN ALKANE	6.01	220	J
7.	Unknown PAH	7.87	183	J
8.	Unknown	7.99	199	J
9.	Unknown Alkane	19.43	217	J
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.
BHY6 4-6

Lab Name: WASTE STREAM TECHNOLOGY Contract:

Project No.: Great Arrow Site: Location: BHY6 4-6 Group: 4H13024

Matrix: (soil/water) SOIL Lab Sample ID: 4H13024-03

Sample wt/vol: 30.0 (g/mL) ML Lab File ID: 0018496.D

Level: (low/med) Date Received: 8/13/2004

% Moisture: NA decanted: (Y/N) N Date Extracted: 8/22/2004

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 8/24/2004

Injection Volume: 1.0 (uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) N pH: NA

Number TICs found: 3 Concentration Units: (ug/L or ug/Kg) UG/KG

CAS Number	Compound Name	RT	Est. Conc.	Q
1.	UNKNOWN	4.75	1015	J
2.	DIBENZOFURAN	4.11	888	J
3.	Unknown PAH	16.84	1296	J
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REPORT TO:

CONTACT

PH. # ( )

FAX # ( )

BILL TO:

PO#

PROJECT DESCRIPTION

SAMPLER SIGNATURE

Waste Stream Technology Inc.
302 Grote Street, Buffalo, NY 14207
(716) 876-5290 • FAX (716) 876-2412

GROUP #

DUE DATE

TURN AROUND TIME:

QUOTATION NUMBER:

ARE SPECIAL DETECTION LIMITS REQUIRED:
YES NO
If yes please attach requirements.

Is a QC Package required:
YES NO
If yes please attach requirements

DW DRINKING WATER
GW GROUND WATER
SW SURFACE WATER
WW WASTE WATER
O OIL
SL SLUDGE
SO SOIL
S SOLID
W WIPE
OTHER

ANALYSES TO BE PERFORMED

	SAMPLE I.D.	DATE SAMPLED	TIME OF SAMPLING	SAMPLE TYPE	TOTAL NO. OF CONTAINERS											TYPE OF CONTAINER/ COMMENTS:	OFFICE USE ONLY WST. I.D.
1																	
2																	
3																	
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7																	
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REMARKS:

RELINQUISHED BY:	DATE:	TIME:	RECEIVED BY:	DATE:	TIME:
RELINQUISHED BY:	DATE:	TIME:	RECEIVED BY:	DATE:	TIME:

WASTE STREAM TECHNOLOGY, INC.

302 Grote Street
Buffalo, NY 14207
(716) 876-5290

Analytical Data Report
Report Date: 09/01/04
Work Order Number: 4H17009

Prepared For
Doug Reid
Lender Consulting Service
P.O. Box 406
Buffalo, NY 14205
Fax: (716) 845-6164

Site: 177 & 255 Great Arrow - 04B1552.22

ıclosed are the results of analyses for samples received by the laboratory on 08/17/04. If you have any ıestions concerning this report, please feel free to contact me.

ncerely,

Daniel W. Vollmer

aniel W. Vollmer, Laboratory QA/QC Officer

ENVIRONMENTAL LABORATORY ACCREDITATION CERTIFICATION NUMBERS
NYSDOH ELAP #11179 NJDEPE #73977 PADEP #68757

Lender Consulting Service	Project: New York State Projects	
P.O. Box 406	Project Number: 177 & 255 Great Arrow - 04B1552.22	**Reported:**
Buffalo NY, 14205	Project Manager: Doug Reid	09/01/04 10:15

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH51 (0-2)	4H17009-01	Soil	08/16/04 00:00	08/17/04 12:10
BH52 (0-2)	4H17009-02	Soil	08/16/04 00:00	08/17/04 12:10
BH53 (0-2)	4H17009-03	Soil	08/16/04 00:00	08/17/04 12:10
BH54 (1-3)	4H17009-04	Soil	08/16/04 00:00	08/17/04 12:10
BH55 (0-2)	4H17009-05	Soil	08/16/04 00:00	08/17/04 12:10
BH56 (0-2)	4H17009-06	Soil	08/16/04 00:00	08/17/04 12:10

Lender Consulting Service P.O. Box 406 Buffalo NY, 14205	Project: New York State Projects Project Number: 177 & 255 Great Arrow - 04B1552.22 Project Manager: Doug Reid	**Reported:** 09/01/04 10:15

RCRA Metals by EPA 6000/7000 Series Methods

Waste Stream Technology Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BH51 (0-2) (4H17009-01) Soil Sampled: 08/16/04 00:00 Received: 08/17/04 12:10									
Mercury	ND	0.014	mg/kg dry	1	AH43007	08/30/04	08/30/04	EPA 7471A	
Silver	**1.58**	0.500	"	"	AH42311	08/23/04	08/24/04	EPA 6010B	
Arsenic	ND	1.70	"	"	"	"	"	"	
Barium	**278**	1.00	"	"	"	"	"	"	
Cadmium	ND	1.00	"	"	"	"	"	"	
Chromium	**6.79**	1.00	"	"	"	"	"	"	
Lead	ND	4.10	"	"	"	"	"	"	
Selenium	**3.86**	1.40	"	"	"	"	"	"	
BH52 (0-2) (4H17009-02) Soil Sampled: 08/16/04 00:00 Received: 08/17/04 12:10									
Mercury	ND	0.016	mg/kg dry	1	AH43007	08/30/04	08/30/04	EPA 7471A	
Silver	**2.07**	0.500	"	"	AH42311	08/23/04	08/24/04	EPA 6010B	
Arsenic	**2.50**	1.70	"	"	"	"	"	"	
Barium	**106**	1.00	"	"	"	"	"	"	
Cadmium	ND	1.00	"	"	"	"	"	"	
Chromium	**7.64**	1.00	"	"	"	"	"	"	
Lead	**14.8**	4.10	"	"	"	"	"	"	
Selenium	**2.01**	1.40	"	"	"	"	"	"	
BH53 (0-2) (4H17009-03) Soil Sampled: 08/16/04 00:00 Received: 08/17/04 12:10									
Mercury	**0.084**	0.014	mg/kg dry	1	AH43007	08/30/04	08/30/04	EPA 7471A	
Silver	**0.608**	0.500	"	"	AH42311	08/23/04	08/24/04	EPA 6010B	
Arsenic	**4.89**	1.70	"	"	"	"	"	"	
Barium	**259**	1.00	"	"	"	"	"	"	
Cadmium	ND	1.00	"	"	"	"	"	"	
Chromium	**19.7**	1.00	"	"	"	"	"	"	
Lead	**30.4**	4.10	"	"	"	"	"	"	
Selenium	**4.51**	1.40	"	"	"	"	"	"	

Lender Consulting Service	Project: New York State Projects	
P.O. Box 406	Project Number: 177 & 255 Great Arrow - 04B1552.22	**Reported:**
Buffalo NY, 14205	Project Manager: Doug Reid	09/01/04 10:15

RCRA Metals by EPA 6000/7000 Series Methods

Waste Stream Technology Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
H54 (1-3) (4H17009-04) Soil Sampled: 08/16/04 00:00 Received: 08/17/04 12:10									
Mercury	**0.056**	0.014	mg/kg dry	1	AH43007	08/30/04	08/30/04	EPA 7471A	
Silver	ND	0.500	"	"	AH42311	08/23/04	08/24/04	EPA 6010B	
Arsenic	**4.55**	1.70	"	"	"	"	08/24/04	"	
Barium	**115**	1.00	"	"	"	"	08/24/04	"	
Cadmium	ND	1.00	"	"	"	"	08/24/04	"	
Chromium	**8.12**	1.00	"	"	"	"	"	"	
Lead	**17.5**	4.10	"	"	"	"	"	"	
Selenium	**3.55**	1.40	"	"	"	"	"	"	
H55 (0-2) (4H17009-05) Soil Sampled: 08/16/04 00:00 Received: 08/17/04 12:10									
Mercury	**0.051**	0.014	mg/kg dry	1	AH43007	08/30/04	08/30/04	EPA 7471A	
Silver	**1.43**	0.500	"	"	AH42311	08/23/04	08/24/04	EPA 6010B	
Arsenic	**2.47**	1.70	"	"	"	"	08/24/04	"	
Barium	**169**	1.00	"	"	"	"	08/24/04	"	
Cadmium	ND	1.00	"	"	"	"	08/24/04	"	
Chromium	**11.6**	1.00	"	"	"	"	"	"	
Lead	**18.3**	4.10	"	"	"	"	"	"	
Selenium	**3.34**	1.40	"	"	"	"	"	"	
H56 (0-2) (4H17009-06) Soil Sampled: 08/16/04 00:00 Received: 08/17/04 12:10									
Mercury	ND	0.014	mg/kg dry	1	AH43007	08/30/04	08/30/04	EPA 7471A	
Silver	ND	0.500	"	"	AH42311	08/23/04	08/24/04	EPA 6010B	
Arsenic	**3.46**	1.70	"	"	"	"	"	"	
Barium	**55.4**	1.00	"	"	"	"	"	"	
Cadmium	ND	1.00	"	"	"	"	"	"	
Chromium	**11.4**	1.00	"	"	"	"	"	"	
Lead	**32.4**	4.10	"	"	"	"	"	"	
Selenium	ND	1.40	"	"	"	"	"	"	

ender Consulting Service	Project: New York State Projects	
.O. Box 406	Project Number: 177 & 255 Great Arrow - 04B1552.22	**Reported:**
uffalo NY, 14205	Project Manager: Doug Reid	09/01/04 10:15

Polychlorinated Biphenyls by EPA Method 8082

Waste Stream Technology Inc.

alyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
151 (0-2) (4H17009-01) Soil Sampled: 08/16/04 00:00 Received: 08/17/04 12:10									
oclor 1016	ND	33.0	ug/kg dry	10	AH42501	08/25/04	08/27/04	8082	U
oclor 1221	ND	33.0	"	"	"	"	"	"	U
lor 1232	ND	33.0	"	"	"	"	"	"	U
lor 1242	ND	33.0	"	"	"	"	"	"	U
oclor 1248	ND	33.0	"	"	"	"	"	"	U
oclor 1254	ND	33.0	"	"	"	"	"	"	U
oclor 1260	ND	33.0	"	"	"	"	"	"	U
rogate: Tetrachloro-meta-xylene		*96.3 %*		*74-122*		"	"	"	
rogate: Decachlorobiphenyl		*108 %*		*64-127*		"	"	"	
152 (0-2) (4H17009-02) Soil Sampled: 08/16/04 00:00 Received: 08/17/04 12:10									
oclor 1016	ND	33.0	ug/kg dry	10	AH42501	08/25/04	08/27/04	8082	U
oclor 1221	ND	33.0	"	"	"	"	"	"	U
oclor 1232	ND	33.0	"	"	"	"	"	"	U
oclor 1242	ND	33.0	"	"	"	"	"	"	U
oclor 1248	ND	33.0	"	"	"	"	"	"	U
oclor 1254	ND	33.0	"	"	"	"	"	"	U
oclor 1260	ND	33.0	"	"	"	"	"	"	U
rogate: Tetrachloro-meta-xylene		*98.9 %*		*74-122*		"	"	"	
rogate: Decachlorobiphenyl		*101 %*		*64-127*		"	"	"	
153 (0-2) (4H17009-03) Soil Sampled: 08/16/04 00:00 Received: 08/17/04 12:10									
oclor 1016	ND	33.0	ug/kg dry	10	AH42501	08/25/04	08/27/04	8082	U
oclor 1221	ND	33.0	"	"	"	"	"	"	U
oclor 1232	ND	33.0	"	"	"	"	"	"	U
oclor 1242	ND	33.0	"	"	"	"	"	"	U
oclor 1248	ND	33.0	"	"	"	"	"	"	U
oclor 1254	ND	33.0	"	"	"	"	"	"	U
oclor 1260	ND	33.0	"	"	"	"	"	"	U
rogate: Tetrachloro-meta-xylene		*95.4 %*		*74-122*		"	"	"	
rogate: Decachlorobiphenyl		*97.4 %*		*64-127*		"	"	"	

ender Consulting Service	Project: New York State Projects	
.O. Box 406	Project Number: 177 & 255 Great Arrow - 04B1552.22	Reported:
Buffalo NY, 14205	Project Manager: Doug Reid	09/01/04 10:15

Polychlorinated Biphenyls by EPA Method 8082

Waste Stream Technology Inc.

nalyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
454 (1-3) (4H17009-04) Soil Sampled: 08/16/04 00:00 Received: 08/17/04 12:10									
oclor 1016	ND	33.0	ug/kg dry	10	AH42501	08/25/04	08/27/04	8082	U
oclor 1221	ND	33.0	"	"	"	"	"	"	U
oclor 1232	ND	33.0	"	"	"	"	"	"	U
oclor 1242	ND	33.0	"	"	"	"	"	"	U
oclor 1248	ND	33.0	"	"	"	"	"	"	U
oclor 1254	ND	33.0	"	"	"	"	"	"	U
oclor 1260	ND	33.0	"	"	"	"	"	"	U
rrogate: Tetrachloro-meta-xylene		*81.6 %*		*74-122*		"	"	"	
rrogate: Decachlorobiphenyl		*86.5 %*		*64-127*		"	"	"	
455 (0-2) (4H17009-05) Soil Sampled: 08/16/04 00:00 Received: 08/17/04 12:10									
oclor 1016	ND	33.0	ug/kg dry	10	AH42501	08/25/04	08/27/04	8082	U
oclor 1221	ND	16.5	"	5	"	"	"	"	U
oclor 1232	ND	16.5	"	"	"	"	"	"	U
oclor 1242	ND	16.5	"	"	"	"	"	"	U
oclor 1248	ND	16.5	"	"	"	"	"	"	U
oclor 1254	ND	16.5	"	"	"	"	"	"	U
oclor 1260	ND	16.5	"	"	"	"	"	"	U
rrogate: Tetrachloro-meta-xylene		*105 %*		*74-122*		"	"	"	
rrogate: Decachlorobiphenyl		*91.1 %*		*64-127*		"	"	"	
456 (0-2) (4H17009-06) Soil Sampled: 08/16/04 00:00 Received: 08/17/04 12:10									
oclor 1016	ND	33.0	ug/kg dry	10	AH42501	08/25/04	08/27/04	8082	U
oclor 1221	ND	33.0	"	"	"	"	"	"	U
oclor 1232	ND	33.0	"	"	"	"	"	"	U
oclor 1242	ND	33.0	"	"	"	"	"	"	U
oclor 1248	ND	33.0	"	"	"	"	"	"	U
oclor 1254	ND	33.0	"	"	"	"	"	"	U
oclor 1260	ND	33.0	"	"	"	"	"	"	U
rrogate: Tetrachloro-meta-xylene		*97.8 %*		*74-122*		"	"	"	
rrogate: Decachlorobiphenyl		*105 %*		*64-127*		"	"	"	

ender Consulting Service	Project: New York State Projects	
O. Box 406	Project Number: 177 & 255 Great Arrow - 04B1552.22	**Reported:**
uffalo NY, 14205	Project Manager: Doug Reid	09/01/04 10:15

Volatile Organic Compounds by EPA Method 8260B

Waste Stream Technology Inc.

alyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
I51 (0-2) (4H17009-01) Soil	**Sampled: 08/16/04 00:00**	**Received: 08/17/04 12:10**							
oromethane	ND	10	ug/kg dry	1	AH42505	08/18/04	08/25/04	8260	U
yl chloride	ND	10	"	"	"	"	"	"	U
omomethane	ND	10	"	"	"	"	"	"	U
oroethane	ND	10	"	"	"	"	"	"	U
-dichloroethene	ND	2	"	"	"	"	"	"	U
etone	**22**	10	"	"	"	"	"	"	
on disulfide	ND	2	"	"	"	"	"	"	U
ylene chloride	**3**	2	"	"	"	"	"	"	
s-1,2-dichloroethene	ND	2	"	"	"	"	"	"	U
-dichloroethane	ND	2	"	"	"	"	"	"	U
yl acetate	ND	10	"	"	"	"	"	"	U
utanone	ND	10	"	"	"	"	"	"	U
-1,2-dichloroethene	ND	2	"	"	"	"	"	"	U
oroform	ND	2	"	"	"	"	"	"	U
,1-trichloroethane	ND	2	"	"	"	"	"	"	U
bon tetrachloride	ND	2	"	"	"	"	"	"	U
nzene	ND	2	"	"	"	"	"	"	U
-dichloroethane	ND	2	"	"	"	"	"	"	U
hloroethene	ND	2	"	"	"	"	"	"	U
-dichloropropane	ND	2	"	"	"	"	"	"	U
omodichloromethane	ND	2	"	"	"	"	"	"	U
Methyl-2-pentanone (MIBK)	ND	10	"	"	"	"	"	"	U
-1,3-dichloropropene	ND	2	"	"	"	"	"	"	U
uene	**3**	2	"	"	"	"	"	"	
ns-1,3-dichloropropene	ND	2	"	"	"	"	"	"	U
,2-trichloroethane	ND	2	"	"	"	"	"	"	U
exanone	ND	10	"	"	"	"	"	"	U
rachloroethene	ND	2	"	"	"	"	"	"	U
romochloromethane	ND	2	"	"	"	"	"	"	U
lorobenzene	ND	2	"	"	"	"	"	"	U
ylbenzene	ND	2	"	"	"	"	"	"	U
p-xylene	**8**	4	"	"	"	"	"	"	
ylene	ND	2	"	"	"	"	"	"	U
rene	ND	2	"	"	"	"	"	"	U
omoform	ND	2	"	"	"	"	"	"	U
,2,2-tetrachloroethane	ND	2	"	"	"	"	"	"	U
rrogate: 1,2-Dichloroethane-d4		*84.3 %*	*69-132*		"	"	"	"	
rrogate: Toluene-d8		*104 %*	*81-121*		"	"	"	"	
rrogate: Bromofluorobenzene		*95.3 %*	*83-121*		"	"	"	"	

ender Consulting Service .O. Box 406 uffalo NY, 14205	Project: New York State Projects Project Number: 177 & 255 Great Arrow - 04B1552.22 Project Manager: Doug Reid	**Reported:** 09/01/04 10:15

Volatile Organic Compounds by EPA Method 8260B

Waste Stream Technology Inc.

alyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
152 (0-2) (4H17009-02) Soil	**Sampled: 08/16/04 00:00**	**Received: 08/17/04 12:10**							
oromethane	ND	10	ug/kg dry	1	AH42505	08/18/04	08/25/04	8260	U
yl chloride	ND	10	"	"	"	"	"	"	U
omomethane	ND	10	"	"	"	"	"	"	U
oroethane	ND	10	"	"	"	"	"	"	U
-dichloroethene	ND	2	"	"	"	"	"	"	U
tone	**26**	10	"	"	"	"	"	"	
on disulfide	ND	2	"	"	"	"	"	"	U
thylene chloride	**3**	2	"	"	"	"	"	"	
ns-1,2-dichloroethene	ND	2	"	"	"	"	"	"	U
-dichloroethane	ND	2	"	"	"	"	"	"	U
yl acetate	ND	10	"	"	"	"	"	"	U
utanone	ND	10	"	"	"	"	"	"	U
-1,2-dichloroethene	ND	2	"	"	"	"	"	"	U
oroform	ND	2	"	"	"	"	"	"	U
,1-trichloroethane	ND	2	"	"	"	"	"	"	U
bon tetrachloride	ND	2	"	"	"	"	"	"	U
nzene	ND	2	"	"	"	"	"	"	U
,-dichloroethane	ND	2	"	"	"	"	"	"	U
chloroethene	ND	2	"	"	"	"	"	"	U
,-dichloropropane	ND	2	"	"	"	"	"	"	U
omodichloromethane	ND	2	"	"	"	"	"	"	U
Methyl-2-pentanone (MIBK)	ND	10	"	"	"	"	"	"	U
-1,3-dichloropropene	ND	2	"	"	"	"	"	"	U
uene	**2**	2	"	"	"	"	"	"	
ns-1,3-dichloropropene	ND	2	"	"	"	"	"	"	U
,2-trichloroethane	ND	2	"	"	"	"	"	"	U
exanone	ND	10	"	"	"	"	"	"	U
rachloroethene	ND	2	"	"	"	"	"	"	U
romochloromethane	ND	2	"	"	"	"	"	"	U
lorobenzene	ND	2	"	"	"	"	"	"	U
ylbenzene	ND	2	"	"	"	"	"	"	U
p-xylene	**10**	4	"	"	"	"	"	"	
ylene	**3**	2	"	"	"	"	"	"	
rene	ND	2	"	"	"	"	"	"	U
omoform	ND	2	"	"	"	"	"	"	U
,2,2-tetrachloroethane	ND	2	"	"	"	"	"	"	U
rrogate: 1,2-Dichloroethane-d4		*95.3 %*		*69-132*	"	"	"	"	
rrogate: Toluene-d8		*108 %*		*81-121*	"	"	"	"	
rrogate: Bromofluorobenzene		*102 %*		*83-121*	"	"	"	"	

Lender Consulting Service	Project: New York State Projects	
P.O. Box 406	Project Number: 177 & 255 Great Arrow - 04B1552.22	**Reported:**
Buffalo NY, 14205	Project Manager: Doug Reid	09/01/04 10:15

Volatile Organic Compounds by EPA Method 8260B

Waste Stream Technology Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SH53 (0-2) (4H17009-03) Soil Sampled: 08/16/04 00:00 Received: 08/17/04 12:10									
hloromethane	ND	10	ug/kg dry	1	AH42505	08/18/04	08/25/04	8260	U
inyl chloride	ND	10	"	"	"	"	"	"	U
romomethane	ND	10	"	"	"	"	"	"	U
hloroethane	ND	10	"	"	"	"	"	"	U
,1-dichloroethene	ND	2	"	"	"	"	"	"	U
cetone	17	10	"	"	"	"	"	"	
arbon disulfide	ND	2	"	"	"	"	"	"	U
ıethylene chloride	6	2	"	"	"	"	"	"	
ans-1,2-dichloroethene	ND	2	"	"	"	"	"	"	U
,1-dichloroethane	ND	2	"	"	"	"	"	"	U
inyl acetate	ND	10	"	"	"	"	"	"	U
-butanone	ND	10	"	"	"	"	"	"	U
is-1,2-dichloroethene	ND	2	"	"	"	"	"	"	U
hloroform	ND	2	"	"	"	"	"	"	U
,1-trichloroethane	ND	2	"	"	"	"	"	"	U
arbon tetrachloride	ND	2	"	"	"	"	"	"	U
enzene	ND	2	"	"	"	"	"	"	U
,2-dichloroethane	ND	2	"	"	"	"	"	"	U
ichloroethene	ND	2	"	"	"	"	"	"	U
,2-dichloropropane	ND	2	"	"	"	"	"	"	U
romodichloromethane	ND	2	"	"	"	"	"	"	U
-Methyl-2-pentanone (MIBK)	ND	10	"	"	"	"	"	"	U
s-1,3-dichloropropene	ND	2	"	"	"	"	"	"	U
oluene	ND	2	"	"	"	"	"	"	U
ans-1,3-dichloropropene	ND	2	"	"	"	"	"	"	U
,1,2-trichloroethane	ND	2	"	"	"	"	"	"	U
-hexanone	ND	10	"	"	"	"	"	"	U
trachloroethene	ND	2	"	"	"	"	"	"	U
ibromochloromethane	ND	2	"	"	"	"	"	"	U
ılorobenzene	ND	2	"	"	"	"	"	"	U
hylbenzene	ND	2	"	"	"	"	"	"	U
,p-xylene	6	4	"	"	"	"	"	"	
-xylene	ND	2	"	"	"	"	"	"	U
yrene	ND	2	"	"	"	"	"	"	U
romoform	ND	2	"	"	"	"	"	"	U
1,2,2-tetrachloroethane	ND	2	"	"	"	"	"	"	U
urrogate: 1,2-Dichloroethane-d4		*69.0 %*		*69-132*	"	"	"	"	
urrogate: Toluene-d8		*109 %*		*81-121*	"	"	"	"	
urrogate: Bromofluorobenzene		*93.0 %*		*83-121*	"	"	"	"	

ender Consulting Service	Project: New York State Projects	
.O. Box 406	Project Number: 177 & 255 Great Arrow - 04B1552.22	**Reported:**
Buffalo NY, 14205	Project Manager: Doug Reid	09/01/04 10:15

Volatile Organic Compounds by EPA Method 8260B

Waste Stream Technology Inc.

nalyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
H54 (1-3) (4H17009-04RE1) Soil	**Sampled: 08/16/04 00:00**	**Received: 08/17/04 12:10**							
loromethane	ND	45	ug/kg dry	1	AH42505	08/18/04	08/25/04	8260	U
nyl chloride	ND	45	"	"	"	"	"	"	U
omomethane	ND	45	"	"	"	"	"	"	U
oroethane	ND	45	"	"	"	"	"	"	U
1-dichloroethene	ND	9	"	"	"	"	"	"	U
etone	**113**	45	"	"	"	"	"	"	
rbon disulfide	ND	9	"	"	"	"	"	"	U
ethylene chloride	**19**	9	"	"	"	"	"	"	
ns-1,2-dichloroethene	ND	9	"	"	"	"	"	"	U
1-dichloroethane	ND	9	"	"	"	"	"	"	U
nyl acetate	ND	45	"	"	"	"	"	"	U
butanone	ND	45	"	"	"	"	"	"	U
s-1,2-dichloroethene	ND	9	"	"	"	"	"	"	U
loroform	ND	9	"	"	"	"	"	"	U
1,1-trichloroethane	ND	9	"	"	"	"	"	"	U
n tetrachloride	ND	9	"	"	"	"	"	"	U
zene	ND	9	"	"	"	"	"	"	U
2-dichloroethane	ND	9	"	"	"	"	"	"	U
chloroethene	ND	9	"	"	"	"	"	"	U
2-dichloropropane	ND	9	"	"	"	"	"	"	U
omodichloromethane	ND	9	"	"	"	"	"	"	U
Methyl-2-pentanone (MIBK)	ND	45	"	"	"	"	"	"	U
s-1,3-dichloropropene	ND	9	"	"	"	"	"	"	U
luene	**71**	9	"	"	"	"	"	"	
ns-1,3-dichloropropene	ND	9	"	"	"	"	"	"	U
1,2-trichloroethane	ND	9	"	"	"	"	"	"	U
hexanone	ND	45	"	"	"	"	"	"	U
rachloroethene	ND	9	"	"	"	"	"	"	U
promochloromethane	ND	9	"	"	"	"	"	"	U
lorobenzene	ND	9	"	"	"	"	"	"	U
ylbenzene	**60**	9	"	"	"	"	"	"	
,p-xylene	**713**	18	"	"	"	"	"	"	
xylene	**418**	9	"	"	"	"	"	"	
rene	**116**	9	"	"	"	"	"	"	
omoform	ND	9	"	"	"	"	"	"	U
1,2,2-tetrachloroethane	ND	9	"	"	"	"	"	"	U
rrogate: 1,2-Dichloroethane-d4		*90.0 %*	*69-132*		"	"	"	"	
rrogate: Toluene-d8		*109 %*	*81-121*		"	"	"	"	
rrogate: Bromofluorobenzene		*113 %*	*83-121*		"	"	"	"	

Lender Consulting Service	Project: New York State Projects	
P.O. Box 406	Project Number: 177 & 255 Great Arrow - 04B1552.22	**Reported:**
Buffalo NY, 14205	Project Manager: Doug Reid	09/01/04 10:15

Volatile Organic Compounds by EPA Method 8260B

Waste Stream Technology Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
H55 (0-2) (4H17009-05) Soil Sampled: 08/16/04 00:00 Received: 08/17/04 12:10									
loromethane	ND	10	ug/kg dry	1	AH42505	08/18/04	08/25/04	8260	U
nyl chloride	ND	10	"	"	"	"	"	"	U
omomethane	ND	10	"	"	"	"	"	"	U
loroethane	ND	10	"	"	"	"	"	"	U
1-dichloroethene	ND	2	"	"	"	"	"	"	U
etone	**14**	10	"	"	"	"	"	"	
rbon disulfide	ND	2	"	"	"	"	"	"	U
ethylene chloride	**2**	2	"	"	"	"	"	"	
ns-1,2-dichloroethene	ND	2	"	"	"	"	"	"	U
1-dichloroethane	ND	2	"	"	"	"	"	"	U
nyl acetate	ND	10	"	"	"	"	"	"	U
butanone	ND	10	"	"	"	"	"	"	U
s-1,2-dichloroethene	ND	2	"	"	"	"	"	"	U
loroform	ND	2	"	"	"	"	"	"	U
1,1-trichloroethane	ND	2	"	"	"	"	"	"	U
rbon tetrachloride	ND	2	"	"	"	"	"	"	U
nzene	ND	2	"	"	"	"	"	"	U
2-dichloroethane	ND	2	"	"	"	"	"	"	U
chloroethene	ND	2	"	"	"	"	"	"	U
2-dichloropropane	ND	2	"	"	"	"	"	"	U
omodichloromethane	ND	2	"	"	"	"	"	"	U
Methyl-2-pentanone (MIBK)	ND	10	"	"	"	"	"	"	U
s-1,3-dichloropropene	ND	2	"	"	"	"	"	"	U
luene	**2**	2	"	"	"	"	"	"	
ns-1,3-dichloropropene	ND	2	"	"	"	"	"	"	U
1,2-trichloroethane	ND	2	"	"	"	"	"	"	U
hexanone	ND	10	"	"	"	"	"	"	U
trachloroethene	ND	2	"	"	"	"	"	"	U
bromochloromethane	ND	2	"	"	"	"	"	"	U
lorobenzene	ND	2	"	"	"	"	"	"	U
hylbenzene	ND	2	"	"	"	"	"	"	U
,p-xylene	ND	4	"	"	"	"	"	"	U
xylene	ND	2	"	"	"	"	"	"	U
rene	ND	2	"	"	"	"	"	"	U
omoform	ND	2	"	"	"	"	"	"	U
1,2,2-tetrachloroethane	ND	2	"	"	"	"	"	"	U
rrogate: 1,2-Dichloroethane-d4		*82.3 %*		*69-132*	"	"	"	"	
rrogate: Toluene-d8		*106 %*		*81-121*	"	"	"	"	
rrogate: Bromofluorobenzene		*95.3 %*		*83-121*	"	"	"	"	

ender Consulting Service	Project: New York State Projects	
O. Box 406	Project Number: 177 & 255 Great Arrow - 04B1552.22	**Reported:**
uffalo NY, 14205	Project Manager: Doug Reid	09/01/04 10:15

Volatile Organic Compounds by EPA Method 8260B

Waste Stream Technology Inc.

nalyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
456 (0-2) (4H17009-06) Soil Sampled: 08/16/04 00:00 Received: 08/17/04 12:10									
loromethane	ND	10	ug/kg dry	1	AH42505	08/18/04	08/25/04	8260	U
yl chloride	ND	10	"	"	"	"	"	"	U
omomethane	ND	10	"	"	"	"	"	"	U
loroethane	ND	10	"	"	"	"	"	"	U
-dichloroethene	ND	2	"	"	"	"	"	"	U
etone	**21**	10	"	"	"	"	"	"	
bon disulfide	ND	2	"	"	"	"	"	"	U
ethylene chloride	**6**	2	"	"	"	"	"	"	
ns-1,2-dichloroethene	ND	2	"	"	"	"	"	"	U
-dichloroethane	ND	2	"	"	"	"	"	"	U
yl acetate	ND	10	"	"	"	"	"	"	U
utanone	ND	10	"	"	"	"	"	"	U
-1,2-dichloroethene	ND	2	"	"	"	"	"	"	U
loroform	ND	2	"	"	"	"	"	"	U
-trichloroethane	ND	2	"	"	"	"	"	"	U
on tetrachloride	ND	2	"	"	"	"	"	"	U
nzene	ND	2	"	"	"	"	"	"	U
-dichloroethane	ND	2	"	"	"	"	"	"	U
chloroethene	ND	2	"	"	"	"	"	"	U
-dichloropropane	ND	2	"	"	"	"	"	"	U
omodichloromethane	ND	2	"	"	"	"	"	"	U
Methyl-2-pentanone (MIBK)	ND	10	"	"	"	"	"	"	U
-1,3-dichloropropene	ND	2	"	"	"	"	"	"	U
uene	ND	2	"	"	"	"	"	"	U
ns-1,3-dichloropropene	ND	2	"	"	"	"	"	"	U
,2-trichloroethane	ND	2	"	"	"	"	"	"	U
exanone	ND	10	"	"	"	"	"	"	U
rachloroethene	ND	2	"	"	"	"	"	"	U
romochloromethane	ND	2	"	"	"	"	"	"	U
lorobenzene	ND	2	"	"	"	"	"	"	U
lbenzene	ND	2	"	"	"	"	"	"	U
p-xylene	**6**	4	"	"	"	"	"	"	
ylene	**3**	2	"	"	"	"	"	"	
rene	ND	2	"	"	"	"	"	"	U
omoform	ND	2	"	"	"	"	"	"	U
,2,2-tetrachloroethane	ND	2	"	"	"	"	"	"	U
rogate: 1,2-Dichloroethane-d4		*70.0 %*		*69-132*		"	"	"	
rogate: Toluene-d8		*103 %*		*81-121*		"	"	"	
rogate: Bromofluorobenzene		*105 %*		*83-121*		"	"	"	

ender Consulting Service	Project: New York State Projects	
.O. Box 406	Project Number: 177 & 255 Great Arrow - 04B1552.22	Reported:
uffalo NY, 14205	Project Manager: Doug Reid	09/01/04 10:15

Semivolatile Organic Compounds by EPA Method 8270C

Waste Stream Technology Inc.

alyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
51 (0-2) (4H17009-01) Soil	**Sampled: 08/16/04 00:00**	**Received: 08/17/04 12:10**							
Nitrosodimethylamine	ND	67	ug/kg dry	1	AH42601	08/26/04	08/31/04	8270	U
(2-chloroethyl)ether	ND	67	"	"	"	"	"	"	U
nol	ND	130	"	"	"	"	"	"	U
hlorophenol	ND	130	"	"	"	"	"	"	U
-dichlorobenzene	ND	67	"	"	"	"	"	"	U
-dichlorobenzene	ND	67	"	"	"	"	"	"	U
-dichlorobenzene	ND	67	"	"	"	"	"	"	U
(2-chloroisopropyl)ether	ND	67	"	"	"	"	"	"	U
nzyl alcohol	ND	67	"	"	"	"	"	"	U
nethylphenol	ND	67	"	"	"	"	"	"	U
achloroethane	ND	67	"	"	"	"	"	"	U
Nitrosodi-n-propylamine	ND	67	"	"	"	"	"	"	U
4-methylphenol	ND	130	"	"	"	"	"	"	U
obenzene	ND	67	"	"	"	"	"	"	U
phorone	ND	67	"	"	"	"	"	"	U
itrophenol	ND	130	"	"	"	"	"	"	U
-dimethylphenol	ND	130	"	"	"	"	"	"	U
(2-chloroethoxy)methane	ND	67	"	"	"	"	"	"	U
nzoic acid	ND	330	"	"	"	"	"	"	U
-dichlorophenol	ND	130	"	"	"	"	"	"	U
,4-trichlorobenzene	ND	67	"	"	"	"	"	"	U
phthalene	ND	67	"	"	"	"	"	"	U
hloroaniline	ND	67	"	"	"	"	"	"	U
achlorobutadiene	ND	67	"	"	"	"	"	"	U
hloro-3-methylphenol	ND	130	"	"	"	"	"	"	U
nethylnaphthalene	ND	67	"	"	"	"	"	"	U
achlorocyclopentadiene	ND	130	"	"	"	"	"	"	U
,6-trichlorophenol	ND	130	"	"	"	"	"	"	U
,5-trichlorophenol	ND	67	"	"	"	"	"	"	U
hloronaphthalene	ND	67	"	"	"	"	"	"	U
itroaniline	ND	67	"	"	"	"	"	"	U
naphthylene	ND	67	"	"	"	"	"	"	U
nethyl phthalate	ND	67	"	"	"	"	"	"	U
-dinitrotoluene	ND	67	"	"	"	"	"	"	U
naphthene	ND	67	"	"	"	"	"	"	U
itroaniline	ND	67	"	"	"	"	"	"	U
-dinitrophenol	ND	130	"	"	"	"	"	"	U
enzofuran	ND	67	"	"	"	"	"	"	U
-dinitrotoluene	ND	67	"	"	"	"	"	"	U
itrophenol	ND	130	"	"	"	"	"	"	U
orene	ND	67	"	"	"	"	"	"	U
hlorophenyl phenyl ether	ND	67	"	"	"	"	"	"	U

ender Consulting Service	Project: New York State Projects	
P.O. Box 406	Project Number: 177 & 255 Great Arrow - 04B1552.22	**Reported:**
Buffalo NY, 14205	Project Manager: Doug Reid	09/01/04 10:15

Semivolatile Organic Compounds by EPA Method 8270C

Waste Stream Technology Inc.

nalyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
H51 (0-2) (4H17009-01) Soil	**Sampled: 08/16/04 00:00**	**Received: 08/17/04 12:10**							
iethyl phthalate	ND	67	ug/kg dry	1	AH42601	08/26/04	08/31/04	8270	U
nitroaniline	ND	67	"	"	"	"	"	"	U
6-Dinitro-2-methylphenol	ND	130	"	"	"	"	"	"	U
nitrosodiphenylamine	ND	67	"	"	"	"	"	"	U
bromophenylphenylether	ND	67	"	"	"	"	"	"	U
xachlorobenzene	ND	67	"	"	"	"	"	"	U
ntachlorophenol	ND	130	"	"	"	"	"	"	U
enanthrene	ND	67	"	"	"	"	"	"	U
thracene	ND	67	"	"	"	"	"	"	U
rbazole	ND	67	"	"	"	"	"	"	U
-n-butyl phthalate	ND	67	"	"	"	"	"	"	U
nzidine	ND	330	"	"	"	"	"	"	U
oranthene	ND	67	"	"	"	"	"	"	U
rene	**94**	67	"	"	"	"	"	"	
ityl benzyl phthalate	ND	67	"	"	"	"	"	"	U
3'-Dichlorobenzidine	ND	67	"	"	"	"	"	"	U
nzo (a) anthracene	ND	67	"	"	"	"	"	"	U
sene	ND	67	"	"	"	"	"	"	U
s(2-ethylhexyl)phthalate	**6470**	67	"	"	"	"	"	"	
-n-octyl phthalate	ND	67	"	"	"	"	"	"	U
nzo (b) fluoranthene	ND	67	"	"	"	"	"	"	U
nzo (k) fluoranthene	ND	67	"	"	"	"	"	"	U
nzo (a) pyrene	ND	67	"	"	"	"	"	"	U
deno (1,2,3-cd) pyrene	ND	67	"	"	"	"	"	"	U
benz (a,h) anthracene	ND	67	"	"	"	"	"	"	U
nzo (g,h,i) perylene	ND	67	"	"	"	"	"	"	U
rrogate: 2-Fluorophenol		*50.6 %*	*50-112*		"	"	"	"	
rrogate: Phenol-d6		*78.0 %*	*52-117*		"	"	"	"	
rrogate: Nitrobenzene-d5		*81.5 %*	*48-122*		"	"	"	"	
rrogate: 2-Fluorobiphenyl		*87.2 %*	*50-121*		"	"	"	"	
rrogate: 2,4,6-Tribromophenol		*8.80 %*	*50-132*		"	"	"	"	*S-04*
rrogate: Terphenyl-d14		*157 %*	*36-134*		"	"	"	"	*S-04*

ender Consulting Service	Project: New York State Projects	
.O. Box 406	Project Number: 177 & 255 Great Arrow - 04B1552.22	**Reported:**
uffalo NY, 14205	Project Manager: Doug Reid	09/01/04 10:15

Semivolatile Organic Compounds by EPA Method 8270C

Waste Stream Technology Inc.

alyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
152 (0-2) (4H17009-02) Soil	**Sampled: 08/16/04 00:00**	**Received: 08/17/04 12:10**							
Nitrosodimethylamine	ND	67	ug/kg dry	1	AH42601	08/26/04	08/30/04	8270	U
.2-chloroethyl)ether	ND	67	"	"	"	"	"	"	U
enol	ND	130	"	"	"	"	"	"	U
hlorophenol	ND	130	"	"	"	"	"	"	U
-dichlorobenzene	ND	67	"	"	"	"	"	"	U
-dichlorobenzene	ND	67	"	"	"	"	"	"	U
-dichlorobenzene	ND	67	"	"	"	"	"	"	U
nzyl alcohol	ND	67	"	"	"	"	"	"	U
(2-chloroisopropyl)ether	ND	67	"	"	"	"	"	"	U
nethylphenol	ND	67	"	"	"	"	"	"	U
achloroethane	ND	67	"	"	"	"	"	"	U
Nitrosodi-n-propylamine	ND	67	"	"	"	"	"	"	U
& 4-methylphenol	ND	130	"	"	"	"	"	"	U
robenzene	ND	67	"	"	"	"	"	"	U
phorone	ND	67	"	"	"	"	"	"	U
itrophenol	ND	130	"	"	"	"	"	"	U
[illegible]ethylphenol	ND	130	"	"	"	"	"	"	U
is(2-chloroethoxy)methane	ND	67	"	"	"	"	"	"	U
nzoic acid	ND	330	"	"	"	"	"	"	U
-dichlorophenol	ND	130	"	"	"	"	"	"	U
,4-trichlorobenzene	ND	67	"	"	"	"	"	"	U
phthalene	ND	67	"	"	"	"	"	"	U
hloroaniline	ND	67	"	"	"	"	"	"	U
achlorobutadiene	ND	67	"	"	"	"	"	"	U
hloro-3-methylphenol	ND	130	"	"	"	"	"	"	U
nethylnaphthalene	ND	67	"	"	"	"	"	"	U
achlorocyclopentadiene	ND	130	"	"	"	"	"	"	U
,6-trichlorophenol	ND	130	"	"	"	"	"	"	U
,5-trichlorophenol	ND	67	"	"	"	"	"	"	U
hloronaphthalene	ND	67	"	"	"	"	"	"	U
itroaniline	ND	67	"	"	"	"	"	"	U
naphthylene	ND	67	"	"	"	"	"	"	U
nethyl phthalate	ND	67	"	"	"	"	"	"	U
-dinitrotoluene	ND	67	"	"	"	"	"	"	U
naphthene	ND	67	"	"	"	"	"	"	U
itroaniline	ND	67	"	"	"	"	"	"	U
-dinitrophenol	ND	130	"	"	"	"	"	"	U
enzofuran	ND	67	"	"	"	"	"	"	U
-dinitrotoluene	ND	67	"	"	"	"	"	"	U
itrophenol	ND	130	"	"	"	"	"	"	U
orene	ND	67	"	"	"	"	"	"	U
Chlorophenyl phenyl ether	ND	67	"	"	"	"	"	"	U

ender Consulting Service	Project: New York State Projects	
.O. Box 406	Project Number: 177 & 255 Great Arrow - 04B1552.22	**Reported:**
uffalo NY. 14205	Project Manager: Doug Reid	09/01/04 10:15

Semivolatile Organic Compounds by EPA Method 8270C

Waste Stream Technology Inc.

nalyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
152 (0-2) (4H17009-02) Soil	**Sampled: 08/16/04 00:00**	**Received: 08/17/04 12:10**							
ethyl phthalate	ND	67	ug/kg dry	1	AH42601	08/26/04	08/30/04	8270	U
nitroaniline	ND	67	"	"	"	"	"	"	U
o-Dinitro-2-methylphenol	ND	130	"	"	"	"	"	"	U
nitrosodiphenylamine	ND	67	"	"	"	"	"	"	U
promophenylphenylether	ND	67	"	"	"	"	"	"	U
xachlorobenzene	ND	67	"	"	"	"	"	"	U
ntachlorophenol	ND	130	"	"	"	"	"	"	U
enanthrene	**531**	67	"	"	"	"	"	"	
hracene	ND	67	"	"	"	"	"	"	U
bazole	ND	67	"	"	"	"	"	"	U
-n-butyl phthalate	ND	67	"	"	"	"	"	"	U
nzidine	ND	330	"	"	"	"	"	"	U
oranthene	**426**	67	"	"	"	"	"	"	
rene	**1090**	67	"	"	"	"	"	"	
tyl benzyl phthalate	ND	67	"	"	"	"	"	"	U
'-Dichlorobenzidine	ND	67	"	"	"	"	"	"	U
nzo (a) anthracene	**274**	67	"	"	"	"	"	"	
rysene	**368**	67	"	"	"	"	"	"	
(2-ethylhexyl)phthalate	**3560**	67	"	"	"	"	"	"	
-n-octyl phthalate	ND	67	"	"	"	"	"	"	U
nzo (b) fluoranthene	**253**	67	"	"	"	"	"	"	
nzo (k) fluoranthene	**267**	67	"	"	"	"	"	"	
nzo (a) pyrene	**310**	67	"	"	"	"	"	"	
deno (1,2,3-cd) pyrene	**172**	67	"	"	"	"	"	"	
benz (a,h) anthracene	ND	67	"	"	"	"	"	"	U
nzo (g,h,i) perylene	**221**	67	"	"	"	"	"	"	
rrogate: 2-Fluorophenol		*20.5 %*	*50-112*		"	"	"	"	*S-04*
rrogate: Phenol-d6		*67.3 %*	*52-117*		"	"	"	"	
rrogate: Nitrobenzene-d5		*74.6 %*	*48-122*		"	"	"	"	
rrogate: 2-Fluorobiphenyl		*86.9 %*	*50-121*		"	"	"	"	
rrogate: 2,4,6-Tribromophenol		*3.03 %*	*50-132*		"	"	"	"	*S-04*
rrogate: Terphenyl-d14		*141 %*	*36-134*		"	"	"	"	*S-04*

ender Consulting Service	Project: New York State Projects	
.O. Box 406	Project Number: 177 & 255 Great Arrow - 04B1552.22	Reported:
uffalo NY, 14205	Project Manager: Doug Reid	09/01/04 10:15

Semivolatile Organic Compounds by EPA Method 8270C

Waste Stream Technology Inc.

alyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
153 (0-2) (4H17009-03) Soil	**Sampled: 08/16/04 00:00**	**Received: 08/17/04 12:10**							
Nitrosodimethylamine	ND	67	ug/kg dry	1	AH42601	08/26/04	08/30/04	8270	U
(2-chloroethyl)ether	ND	67	"	"	"	"	"	"	U
enol	ND	130	"	"	"	"	"	"	U
hlorophenol	ND	130	"	"	"	"	"	"	U
-dichlorobenzene	ND	67	"	"	"	"	"	"	U
-dichlorobenzene	ND	67	"	"	"	"	"	"	U
-dichlorobenzene	ND	67	"	"	"	"	"	"	U
nzyl alcohol	ND	67	"	"	"	"	"	"	U
(2-chloroisopropyl)ether	ND	67	"	"	"	"	"	"	U
nethylphenol	ND	67	"	"	"	"	"	"	U
achloroethane	ND	67	"	"	"	"	"	"	U
Nitrosodi-n-propylamine	ND	67	"	"	"	"	"	"	U
4-methylphenol	ND	130	"	"	"	"	"	"	U
obenzene	ND	67	"	"	"	"	"	"	U
phorone	ND	67	"	"	"	"	"	"	U
itrophenol	ND	130	"	"	"	"	"	"	U
imethylphenol	ND	130	"	"	"	"	"	"	U
(2-chloroethoxy)methane	ND	67	"	"	"	"	"	"	U
nzoic acid	ND	330	"	"	"	"	"	"	U
-dichlorophenol	ND	130	"	"	"	"	"	"	U
,4-trichlorobenzene	ND	67	"	"	"	"	"	"	U
phthalene	ND	67	"	"	"	"	"	"	U
hloroaniline	ND	67	"	"	"	"	"	"	U
achlorobutadiene	ND	67	"	"	"	"	"	"	U
hloro-3-methylphenol	ND	130	"	"	"	"	"	"	U
ethylnaphthalene	ND	67	"	"	"	"	"	"	U
achlorocyclopentadiene	ND	130	"	"	"	"	"	"	U
,6-trichlorophenol	ND	130	"	"	"	"	"	"	U
,5-trichlorophenol	ND	67	"	"	"	"	"	"	U
hloronaphthalene	ND	67	"	"	"	"	"	"	U
itroaniline	ND	67	"	"	"	"	"	"	U
naphthylene	ND	67	"	"	"	"	"	"	U
nethyl phthalate	ND	67	"	"	"	"	"	"	U
-dinitrotoluene	ND	67	"	"	"	"	"	"	U
naphthene	ND	67	"	"	"	"	"	"	U
itroaniline	ND	67	"	"	"	"	"	"	U
-dinitrophenol	ND	130	"	"	"	"	"	"	U
enzofuran	ND	67	"	"	"	"	"	"	U
-dinitrotoluene	ND	67	"	"	"	"	"	"	U
itrophenol	ND	130	"	"	"	"	"	"	U
orene	ND	67	"	"	"	"	"	"	U
Chlorophenyl phenyl ether	ND	67	"	"	"	"	"	"	U

ender Consulting Service	Project: New York State Projects	
.O. Box 406	Project Number: 177 & 255 Great Arrow - 04B1552.22	**Reported:**
uffalo NY, 14205	Project Manager: Doug Reid	09/01/04 10:15

Semivolatile Organic Compounds by EPA Method 8270C

Waste Stream Technology Inc.

alyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
153 (0-2) (4H17009-03) Soil	**Sampled: 08/16/04 00:00**	**Received: 08/17/04 12:10**							
ethyl phthalate	ND	67	ug/kg dry	1	AH42601	08/26/04	08/30/04	8270	U
itroaniline	ND	67	"	"	"	"	"	"	U
-Dinitro-2-methylphenol	ND	130	"	"	"	"	"	"	U
itrosodiphenylamine	ND	67	"	"	"	"	"	"	U
romophenylphenylether	ND	67	"	"	"	"	"	"	U
achlorobenzene	ND	67	"	"	"	"	"	"	U
ntachlorophenol	ND	130	"	"	"	"	"	"	U
enanthrene	**455**	67	"	"	"	"	"	"	
thracene	**81**	67	"	"	"	"	"	"	
bazole	ND	67	"	"	"	"	"	"	U
n-butyl phthalate	ND	67	"	"	"	"	"	"	U
nzidine	ND	330	"	"	"	"	"	"	U
oranthene	**551**	67	"	"	"	"	"	"	
rene	**1470**	67	"	"	"	"	"	"	
tyl benzyl phthalate	ND	67	"	"	"	"	"	"	U
-Dichlorobenzidine	ND	67	"	"	"	"	"	"	U
nzo (a) anthracene	**406**	67	"	"	"	"	"	"	
ysene	**424**	67	"	"	"	"	"	"	
(2-ethylhexyl)phthalate	**5060**	67	"	"	"	"	"	"	
n-octyl phthalate	ND	67	"	"	"	"	"	"	U
nzo (b) fluoranthene	**480**	67	"	"	"	"	"	"	
nzo (k) fluoranthene	**414**	67	"	"	"	"	"	"	
nzo (a) pyrene	**534**	67	"	"	"	"	"	"	
leno (1,2,3-cd) pyrene	**300**	67	"	"	"	"	"	"	
enz (a,h) anthracene	**117**	67	"	"	"	"	"	"	
nzo (g,h,i) perylene	**395**	67	"	"	"	"	"	"	
rogate: 2-Fluorophenol		*80.1 %*	*50-112*		"	"	"	"	
rogate: Phenol-d6		*93.8 %*	*52-117*		"	"	"	"	
rogate: Nitrobenzene-d5		*80.4 %*	*48-122*		"	"	"	"	
rogate: 2-Fluorobiphenyl		*90.7 %*	*50-121*		"	"	"	"	
rogate: 2,4,6-Tribromophenol		*112 %*	*50-132*		"	"	"	"	
rogate: Terphenyl-d14		*173 %*	*36-134*		"	"	"	"	*S-04*

ender Consulting Service	Project: New York State Projects	
.O. Box 406	Project Number: 177 & 255 Great Arrow - 04B1552.22	**Reported:**
uffalo NY, 14205	Project Manager: Doug Reid	09/01/04 10:15

Semivolatile Organic Compounds by EPA Method 8270C

Waste Stream Technology Inc.

alyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
154 (1-3) (4H17009-04) Soil	**Sampled: 08/16/04 00:00**	**Received: 08/17/04 12:10**							
Nitrosodimethylamine	ND	134	ug/kg dry	2	AH42601	08/26/04	08/31/04	8270	U
(2-chloroethyl)ether	ND	134	"	"	"	"	"	"	U
enol	ND	260	"	"	"	"	"	"	U
hlorophenol	ND	260	"	"	"	"	"	"	U
-dichlorobenzene	ND	134	"	"	"	"	"	"	U
-dichlorobenzene	ND	134	"	"	"	"	"	"	U
-dichlorobenzene	ND	134	"	"	"	"	"	"	U
nzyl alcohol	ND	134	"	"	"	"	"	"	U
(2-chloroisopropyl)ether	ND	134	"	"	"	"	"	"	U
nethylphenol	ND	134	"	"	"	"	"	"	U
achloroethane	ND	134	"	"	"	"	"	"	U
Nitrosodi-n-propylamine	ND	134	"	"	"	"	"	"	U
& 4-methylphenol	ND	260	"	"	"	"	"	"	U
robenzene	ND	134	"	"	"	"	"	"	U
phorone	ND	134	"	"	"	"	"	"	U
itrophenol	ND	260	"	"	"	"	"	"	U
-dimethylphenol	ND	260	"	"	"	"	"	"	U
s(2-chloroethoxy)methane	ND	134	"	"	"	"	"	"	U
nzoic acid	ND	660	"	"	"	"	"	"	U
-dichlorophenol	ND	260	"	"	"	"	"	"	U
,4-trichlorobenzene	ND	134	"	"	"	"	"	"	U
phthalene	ND	134	"	"	"	"	"	"	U
hloroaniline	ND	134	"	"	"	"	"	"	U
achlorobutadiene	ND	134	"	"	"	"	"	"	U
hloro-3-methylphenol	ND	260	"	"	"	"	"	"	U
ethylnaphthalene	ND	134	"	"	"	"	"	"	U
achlorocyclopentadiene	ND	260	"	"	"	"	"	"	U
,6-trichlorophenol	ND	260	"	"	"	"	"	"	U
,5-trichlorophenol	ND	134	"	"	"	"	"	"	U
hloronaphthalene	ND	134	"	"	"	"	"	"	U
itroaniline	ND	134	"	"	"	"	"	"	U
naphthylene	ND	134	"	"	"	"	"	"	U
nethyl phthalate	ND	134	"	"	"	"	"	"	U
-dinitrotoluene	ND	134	"	"	"	"	"	"	U
naphthene	ND	134	"	"	"	"	"	"	U
itroaniline	ND	134	"	"	"	"	"	"	U
-dinitrophenol	ND	260	"	"	"	"	"	"	U
enzofuran	ND	134	"	"	"	"	"	"	U
-dinitrotoluene	ND	134	"	"	"	"	"	"	U
itrophenol	ND	260	"	"	"	"	"	"	U
orene	ND	134	"	"	"	"	"	"	U
hlorophenyl phenyl ether	ND	134	"	"	"	"	"	"	U

Lender Consulting Service	Project: New York State Projects	
P.O. Box 406	Project Number: 177 & 255 Great Arrow - 04B1552.22	**Reported:**
Buffalo NY, 14205	Project Manager: Doug Reid	09/01/04 10:15

Semivolatile Organic Compounds by EPA Method 8270C

Waste Stream Technology Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
H54 (1-3) (4H17009-04) Soil Sampled: 08/16/04 00:00 Received: 08/17/04 12:10									
ethyl phthalate	ND	134	ug/kg dry	2	AH42601	08/26/04	08/31/04	8270	U
nitroaniline	ND	134	"	"	"	"	"	"	U
6-Dinitro-2-methylphenol	ND	260	"	"	"	"	"	"	U
nitrosodiphenylamine	ND	134	"	"	"	"	"	"	U
promophenylphenylether	ND	134	"	"	"	"	"	"	U
xachlorobenzene	ND	134	"	"	"	"	"	"	U
ntachlorophenol	ND	260	"	"	"	"	"	"	U
enanthrene	ND	134	"	"	"	"	"	"	U
thracene	ND	134	"	"	"	"	"	"	U
rbazole	ND	134	"	"	"	"	"	"	U
-n-butyl phthalate	ND	134	"	"	"	"	"	"	U
nzidine	ND	660	"	"	"	"	"	"	U
oranthene	ND	134	"	"	"	"	"	"	U
rene	**428**	134	"	"	"	"	"	"	
tyl benzyl phthalate	ND	134	"	"	"	"	"	"	U
'-Dichlorobenzidine	ND	134	"	"	"	"	"	"	U
nzo (a) anthracene	ND	134	"	"	"	"	"	"	U
rysene	**214**	134	"	"	"	"	"	"	
(2-ethylhexyl)phthalate	**1160**	134	"	"	"	"	"	"	B
-n-octyl phthalate	ND	134	"	"	"	"	"	"	U
nzo (b) fluoranthene	**216**	134	"	"	"	"	"	"	
nzo (k) fluoranthene	ND	134	"	"	"	"	"	"	U
nzo (a) pyrene	**402**	134	"	"	"	"	"	"	
leno (1,2,3-cd) pyrene	ND	134	"	"	"	"	"	"	U
benz (a,h) anthracene	ND	134	"	"	"	"	"	"	U
nzo (g,h,i) perylene	**893**	134	"	"	"	"	"	"	
rogate: 2-Fluorophenol		*64.0 %*	*50-112*		"	"	"	"	
rogate: Phenol-d6		*75.8 %*	*52-117*		"	"	"	"	
rogate: Nitrobenzene-d5		*63.3 %*	*48-122*		"	"	"	"	
rogate: 2-Fluorobiphenyl		*83.3 %*	*50-121*		"	"	"	"	
rogate: 2,4,6-Tribromophenol		*81.9 %*	*50-132*		"	"	"	"	
rogate: Terphenyl-d14		*157 %*	*36-134*		"	"	"	"	*S-04*

Lender Consulting Service	Project: New York State Projects	
P.O. Box 406	Project Number: 177 & 255 Great Arrow - 04B1552.22	**Reported:**
Buffalo NY, 14205	Project Manager: Doug Reid	09/01/04 10:15

Semivolatile Organic Compounds by EPA Method 8270C

Waste Stream Technology Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
H55 (0-2) (4H17009-05) Soil	**Sampled: 08/16/04 00:00**	**Received: 08/17/04 12:10**							
N-Nitrosodimethylamine	ND	670	ug/kg dry	10	AH42601	08/26/04	08/27/04	8270	U
Bis(2-chloroethyl)ether	ND	670	"	"	"	"	"	"	U
Phenol	**5670**	1300	"	"	"	"	"	"	
2-chlorophenol	ND	1300	"	"	"	"	"	"	U
1,3-dichlorobenzene	ND	670	"	"	"	"	"	"	U
1,4-dichlorobenzene	ND	670	"	"	"	"	"	"	U
1,2-dichlorobenzene	ND	670	"	"	"	"	"	"	U
Bis(2-chloroisopropyl)ether	ND	670	"	"	"	"	"	"	U
Benzyl alcohol	ND	670	"	"	"	"	"	"	U
2-methylphenol	**1220**	670	"	"	"	"	"	"	
Hexachloroethane	ND	670	"	"	"	"	"	"	U
N-Nitrosodi-n-propylamine	ND	670	"	"	"	"	"	"	U
3 & 4-methylphenol	**3850**	1300	"	"	"	"	"	"	
Nitrobenzene	ND	670	"	"	"	"	"	"	U
Isophorone	ND	670	"	"	"	"	"	"	U
2-nitrophenol	ND	1300	"	"	"	"	"	"	U
2,4-dimethylphenol	ND	1300	"	"	"	"	"	"	U
Bis(2-chloroethoxy)methane	ND	670	"	"	"	"	"	"	U
Benzoic acid	ND	3300	"	"	"	"	"	"	U
2,4-dichlorophenol	ND	1300	"	"	"	"	"	"	U
1,2,4-trichlorobenzene	ND	670	"	"	"	"	"	"	U
Naphthalene	**240000**	6700	"	100	"	"	"	"	D
4-chloroaniline	ND	670	"	10	"	"	"	"	U
Hexachlorobutadiene	ND	670	"	"	"	"	"	"	U
4-chloro-3-methylphenol	ND	1300	"	"	"	"	"	"	U
2-methylnaphthalene	**48900**	670	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	1300	"	"	"	"	"	"	U
2,4,6-trichlorophenol	ND	1300	"	"	"	"	"	"	U
2,4,5-trichlorophenol	ND	670	"	"	"	"	"	"	U
2-chloronaphthalene	ND	670	"	"	"	"	"	"	U
2-nitroaniline	ND	670	"	"	"	"	"	"	U
Acenaphthylene	**17100**	670	"	"	"	"	"	"	
Dimethyl phthalate	ND	670	"	"	"	"	"	"	U
2,6-dinitrotoluene	ND	670	"	"	"	"	"	"	U
Acenaphthene	**20500**	670	"	"	"	"	"	"	
3-nitroaniline	ND	670	"	"	"	"	"	"	U
2,4-dinitrophenol	ND	1300	"	"	"	"	"	"	U
Dibenzofuran	**55000**	670	"	"	"	"	"	"	
2,4-dinitrotoluene	ND	670	"	"	"	"	"	"	U
4-nitrophenol	ND	1300	"	"	"	"	"	"	U
Fluorene	**21400**	670	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	670	"	"	"	"	"	"	U

Lender Consulting Service	Project: New York State Projects	
P.O. Box 406	Project Number: 177 & 255 Great Arrow - 04B1552.22	**Reported:**
Buffalo NY, 14205	Project Manager: Doug Reid	09/01/04 10:15

Semivolatile Organic Compounds by EPA Method 8270C

Waste Stream Technology Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
H55 (0-2) (4H17009-05) Soil	**Sampled: 08/16/04 00:00**	**Received: 08/17/04 12:10**							
iethyl phthalate	ND	670	ug/kg dry	10	AH42601	08/26/04	08/27/04	8270	U
nitroaniline	ND	670	"	"	"	"	"	"	U
-Dinitro-2-methylphenol	ND	1300	"	"	"	"	"	"	U
nitrosodiphenylamine	ND	670	"	"	"	"	"	"	U
bromophenylphenylether	ND	670	"	"	"	"	"	"	U
xachlorobenzene	ND	670	"	"	"	"	"	"	U
ntachlorophenol	ND	1300	"	"	"	"	"	"	U
ienanthrene	**408000**	6700	"	100	"	"	"	"	D
ithracene	**91900**	6700	"	"	"	"	"	"	D
rbazole	**41000**	670	"	10	"	"	"	"	
-n-butyl phthalate	ND	670	"	"	"	"	"	"	U
nzidine	ND	3300	"	"	"	"	"	"	U
ioranthene	**333000**	6700	"	100	"	"	"	"	D
rene	**269000**	6700	"	"	"	"	"	"	D
ityl benzyl phthalate	ND	670	"	10	"	"	"	"	U
'-Dichlorobenzidine	ND	670	"	"	"	"	"	"	U
nzo (a) anthracene	**128000**	6700	"	100	"	"	"	"	D
rysene	**125000**	6700	"	"	"	"	"	"	D
s(2-ethylhexyl)phthalate	**1010**	670	"	10	"	"	"	"	B
-n-octyl phthalate	ND	670	"	"	"	"	"	"	U
nzo (b) fluoranthene	**116000**	6700	"	100	"	"	"	"	D
nzo (k) fluoranthene	**112000**	6700	"	"	"	"	"	"	D
nzo (a) pyrene	**108000**	6700	"	"	"	"	"	"	D
deno (1,2,3-cd) pyrene	**50000**	670	"	10	"	"	"	"	
benz (a,h) anthracene	**17800**	670	"	"	"	"	"	"	
nzo (g,h,i) perylene	**42700**	6700	"	100	"	"	"	"	D
rrogate: 2-Fluorophenol		*15.5 %*	*50-112*		"	"	"	"	*S-04*
rrogate: Phenol-d6		*62.7 %*	*52-117*		"	"	"	"	
rrogate: Nitrobenzene-d5		*72.8 %*	*48-122*		"	"	"	"	
rrogate: 2-Fluorobiphenyl		*81.1 %*	*50-121*		"	"	"	"	
rrogate: 2,4,6-Tribromophenol		*0.800 %*	*50-132*		"	"	"	"	*S-04*
rrogate: Terphenyl-d14		*121 %*	*36-134*		"	"	"	"	

Lender Consulting Service	Project: New York State Projects	
P.O. Box 406	Project Number: 177 & 255 Great Arrow - 04B1552.22	**Reported:**
Buffalo NY, 14205	Project Manager: Doug Reid	09/01/04 10:15

Semivolatile Organic Compounds by EPA Method 8270C

Waste Stream Technology Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
H56 (0-2) (4H17009-06) Soil	**Sampled: 08/16/04 00:00**	**Received: 08/17/04 12:10**							
-Nitrosodimethylamine	ND	67	ug/kg dry	1	AH42601	08/26/04	08/27/04	8270	U
s(2-chloroethyl)ether	ND	67	"	"	"	"	"	"	U
ienol	**260**	130	"	"	"	"	"	"	
chlorophenol	ND	130	"	"	"	"	"	"	U
3-dichlorobenzene	ND	67	"	"	"	"	"	"	U
4-dichlorobenzene	ND	67	"	"	"	"	"	"	U
2-dichlorobenzene	ND	67	"	"	"	"	"	"	U
nzyl alcohol	ND	67	"	"	"	"	"	"	U
s(2-chloroisopropyl)ether	ND	67	"	"	"	"	"	"	U
methylphenol	ND	67	"	"	"	"	"	"	U
xachloroethane	ND	67	"	"	"	"	"	"	U
-Nitrosodi-n-propylamine	ND	67	"	"	"	"	"	"	U
& 4-methylphenol	ND	130	"	"	"	"	"	"	U
trobenzene	ND	67	"	"	"	"	"	"	U
phorone	ND	67	"	"	"	"	"	"	U
itrophenol	ND	130	"	"	"	"	"	"	U
-dimethylphenol	ND	130	"	"	"	"	"	"	U
s(2-chloroethoxy)methane	ND	67	"	"	"	"	"	"	U
nzoic acid	ND	330	"	"	"	"	"	"	U
4-dichlorophenol	ND	130	"	"	"	"	"	"	U
2,4-trichlorobenzene	ND	67	"	"	"	"	"	"	U
iphthalene	**1410**	67	"	"	"	"	"	"	
chloroaniline	ND	67	"	"	"	"	"	"	U
xachlorobutadiene	ND	67	"	"	"	"	"	"	U
chloro-3-methylphenol	ND	130	"	"	"	"	"	"	U
methylnaphthalene	**2170**	67	"	"	"	"	"	"	
xachlorocyclopentadiene	ND	130	"	"	"	"	"	"	U
4,6-trichlorophenol	ND	130	"	"	"	"	"	"	U
4,5-trichlorophenol	ND	67	"	"	"	"	"	"	U
chloronaphthalene	ND	67	"	"	"	"	"	"	U
nitroaniline	ND	67	"	"	"	"	"	"	U
enaphthylene	**93**	67	"	"	"	"	"	"	
methyl phthalate	ND	67	"	"	"	"	"	"	U
6-dinitrotoluene	ND	67	"	"	"	"	"	"	U
enaphthene	**1080**	67	"	"	"	"	"	"	
itroaniline	ND	67	"	"	"	"	"	"	U
4-dinitrophenol	ND	130	"	"	"	"	"	"	U
benzofuran	**10400**	670	"	10	"	"	"	"	D
4-dinitrotoluene	ND	67	"	1	"	"	"	"	U
itrophenol	ND	130	"	"	"	"	"	"	U
orene	**200**	67	"	"	"	"	"	"	
Chlorophenyl phenyl ether	ND	67	"	"	"	"	"	"	U

Lender Consulting Service	Project: New York State Projects	
P.O. Box 406	Project Number: 177 & 255 Great Arrow - 04B1552.22	**Reported:**
Buffalo NY, 14205	Project Manager: Doug Reid	09/01/04 10:15

Semivolatile Organic Compounds by EPA Method 8270C

Waste Stream Technology Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
H56 (0-2) (4H17009-06) Soil Sampled: 08/16/04 00:00 Received: 08/17/04 12:10									
Diethyl phthalate	ND	67	ug/kg dry	1	AH42601	08/26/04	08/27/04	8270	U
4-nitroaniline	ND	67	"	"	"	"	"	"	U
4,6-Dinitro-2-methylphenol	ND	130	"	"	"	"	"	"	U
N-nitrosodiphenylamine	ND	67	"	"	"	"	"	"	U
4-bromophenylphenylether	ND	67	"	"	"	"	"	"	U
Hexachlorobenzene	ND	67	"	"	"	"	"	"	U
Pentachlorophenol	ND	130	"	"	"	"	"	"	U
Phenanthrene	**42000**	670	"	10	"	"	"	"	D
Anthracene	**1770**	67	"	1	"	"	"	"	
Carbazole	**819**	67	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	67	"	"	"	"	"	"	U
Benzidine	ND	330	"	"	"	"	"	"	U
Fluoranthene	**22200**	670	"	10	"	"	"	"	D
Pyrene	**16400**	670	"	"	"	"	"	"	D
Butyl benzyl phthalate	ND	67	"	1	"	"	"	"	U
3,3'-Dichlorobenzidine	ND	67	"	"	"	"	"	"	U
Benzo (a) anthracene	**3760**	67	"	"	"	"	"	"	
Chrysene	**4270**	67	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	**825**	67	"	"	"	"	"	"	B
Di-n-octyl phthalate	ND	67	"	"	"	"	"	"	U
Benzo (b) fluoranthene	**4460**	67	"	"	"	"	"	"	
Benzo (k) fluoranthene	**3600**	67	"	"	"	"	"	"	
Benzo (a) pyrene	**1360**	67	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	**964**	67	"	"	"	"	"	"	
Dibenz (a,h) anthracene	**384**	67	"	"	"	"	"	"	
Benzo (g,h,i) perylene	**1440**	67	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		*20.3 %*	*50-112*	"	"	"	"	"	*S-04*
Surrogate: Phenol-d6		*62.1 %*	*52-117*	"	"	"	"	"	
Surrogate: Nitrobenzene-d5		*74.5 %*	*48-122*	"	"	"	"	"	
Surrogate: 2-Fluorobiphenyl		*79.5 %*	*50-121*	"	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		*1.87 %*	*50-132*	"	"	"	"	"	*S-04*
Surrogate: Terphenyl-d14		*101 %*	*36-134*	"	"	"	"	"	

ender Consulting Service	Project: New York State Projects	
.O. Box 406	Project Number: 177 & 255 Great Arrow - 04B1552.22	**Reported:**
Buffalo NY, 14205	Project Manager: Doug Reid	09/01/04 10:15

Conventional Chemistry Parameters by APHA/EPA Methods

Waste Stream Technology Inc.

nalyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
451 (0-2) (4H17009-01) Soil	**Sampled: 08/16/04 00:00**	**Received: 08/17/04 12:10**							
Solids	76.0	0.1	%	1	AH42408	08/24/04	08/24/04	% calculation	
452 (0-2) (4H17009-02) Soil	**Sampled: 08/16/04 00:00**	**Received: 08/17/04 12:10**							
Solids	91.0	0.1	%	1	AH42408	08/24/04	08/24/04	% calculation	
453 (0-2) (4H17009-03) Soil	**Sampled: 08/16/04 00:00**	**Received: 08/17/04 12:10**							
Solids	85.6	0.1	%	1	AH42408	08/24/04	08/24/04	% calculation	
454 (1-3) (4H17009-04) Soil	**Sampled: 08/16/04 00:00**	**Received: 08/17/04 12:10**							
Solids	80.5	0.1	%	1	AH42408	08/24/04	08/24/04	% calculation	
455 (0-2) (4H17009-05) Soil	**Sampled: 08/16/04 00:00**	**Received: 08/17/04 12:10**							
Solids	92.2	0.1	%	1	AH42408	08/24/04	08/24/04	% calculation	
456 (0-2) (4H17009-06) Soil	**Sampled: 08/16/04 00:00**	**Received: 08/17/04 12:10**							
Solids	90.6	0.1	%	1	AH42408	08/24/04	08/24/04	% calculation	

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control
Waste Stream Technology Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch AH42601 - EPA 3550B										
Blank (AH42601-BLK1)				Prepared: 08/26/04 Analyzed: 08/27/04						
N-Nitrosodimethylamine	ND	67	ug/kg wet							U
Bis(2-chloroethyl)ether	ND	67	"							U
Phenol	ND	130	"							U
2-chlorophenol	ND	130	"							U
1,3-dichlorobenzene	ND	67	"							U
1,4-dichlorobenzene	ND	67	"							U
1,2-dichlorobenzene	ND	67	"							U
Bis(2-chloroisopropyl)ether	ND	67	"							U
Benzyl alcohol	ND	67	"							U
2-methylphenol	ND	67	"							U
Hexachloroethane	ND	67	"							U
N-Nitrosodi-n-propylamine	ND	67	"							U
3 & 4-methylphenol	ND	130	"							U
Nitrobenzene	ND	67	"							U
Isophorone	ND	67	"							U
2-nitrophenol	ND	130	"							U
2,4-dimethylphenol	ND	130	"							U
Bis(2-chloroethoxy)methane	ND	67	"							U
Benzoic acid	ND	330	"							U
2,4-dichlorophenol	ND	130	"							U
1,2,4-trichlorobenzene	ND	67	"							U
Naphthalene	ND	67	"							U
4-chloroaniline	ND	67	"							U
Hexachlorobutadiene	ND	67	"							U
4-chloro-3-methylphenol	ND	130	"							U
2-methylnaphthalene	ND	67	"							U
Hexachlorocyclopentadiene	ND	130	"							U
2,4,6-trichlorophenol	ND	130	"							U
2,4,5-trichlorophenol	ND	67	"							U
2-chloronaphthalene	ND	67	"							U
2-nitroaniline	ND	67	"							U
Acenaphthylene	ND	67	"							U
Dimethyl phthalate	ND	67	"							U
2,6-dinitrotoluene	ND	67	"							U
Acenaphthene	ND	67	"							U
3-nitroaniline	ND	67	"							U
2,4-dinitrophenol	ND	130	"							U
Dibenzofuran	ND	67	"							U

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control

Waste Stream Technology Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch AH42601 - EPA 3550B										
Blank (AH42601-BLK1)				Prepared: 08/26/04 Analyzed: 08/27/04						
4-dinitrotoluene	ND	67	ug/kg wet							U
nitrophenol	ND	130	"							U
lorene	ND	67	"							U
Chlorophenyl phenyl ether	ND	67	"							U
ethyl phthalate	ND	67	"							U
nitroaniline	ND	67	"							U
6-Dinitro-2-methylphenol	ND	130	"							U
nitrosodiphenylamine	ND	67	"							U
bromophenylphenylether	ND	67	"							U
Nachlorobenzene	ND	67	"							U
achlorophenol	ND	130	"							U
nanthrene	ND	67	"							U
thracene	ND	67	"							U
bazole	ND	67	"							U
n-butyl phthalate	ND	67	"							U
nzidine	ND	330	"							U
oranthene	ND	67	"							U
rene	ND	67	"							U
tyl benzyl phthalate	ND	67	"							U
'-Dichlorobenzidine	ND	67	"							U
nzo (a) anthracene	ND	67	"							U
ysene	ND	67	"							U
(2-ethylhexyl)phthalate	117	67	"							
n-octyl phthalate	ND	67	"							U
nzo (b) fluoranthene	ND	67	"							U
nzo (k) fluoranthene	ND	67	"							U
nzo (a) pyrene	ND	67	"							U
leno (1,2,3-cd) pyrene	ND	67	"							U
benz (a,h) anthracene	ND	67	"							U
nzo (g,h,i) perylene	ND	67	"							U
rogate: 2-Fluorophenol	*3630*		"	*6670*		*54.4*	*50-112*			
rogate: Phenol-d6	*3250*		"	*6670*		*48.7*	*52-117*			I.
rogate: Nitrobenzene-d5	*1770*		"	*3330*		*53.2*	*48-122*			
rogate: 2-Fluorobiphenyl	*2240*		"	*3330*		*67.3*	*50-121*			
rogate: 2,4,6-Tribromophenol	*5240*		"	*6670*		*78.6*	*50-132*			
rogate: Terphenyl-d14	*2990*		"	*3330*		*89.8*	*36-134*			

Notes and Definitions

U	Analyte included in the analysis, but not detected
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
L	L denotes analyte recovery is less than the lower quality control limit.
D	This flag assigned to compounds identified in an analysis at a secondary dilution factor.
B	Analyte is found in the associated blank as well as in the sample (CLP B-flag).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

CHAIN OF CUSTODY

WASTE STREAM TECHNOLOGY

Waste Stream Technology Inc.
302 Grote Street, Buffalo, NY 14207
(716) 876-5290 • FAX (716) 876-2412

OFFICE USE ONLY
GROUP # 4H17009
DUE DATE

PAGE 1 OF 1

ARE SPECIAL DETECTION LIMITS REQUIRED: YES NO ✓ STD
If yes please attach requirements.

TURN AROUND TIME: 10BD
QUOTATION NUMBER: /

Is a QC Package required: YES NO ✓ Elect
If yes please attach requirements

REPORT TO: LCS

CONTACT: Dave Reid
PH. # ( ) 845-6045
FAX # ( ) 845-6064
BILL TO: ~~[illegible]~~ LCS
PO#: 64B1552.23
PROJECT DESCRIPTION: 177 @ I-55 Great Arrow
SAMPLER SIGNATURE: [illegible]

DW DRINKING WATER, GW GROUND WATER, SW SURFACE WATER, WW WASTE WATER, O OIL, SL SLUDGE, SO SOIL, S SOLID, W WIPE, OTHER

ANALYSES TO BE PERFORMED

	SAMPLE I.D.	DATE SAMPLED	TIME OF SAMPLING	SAMPLE TYPE	TOTAL NO. OF CONTAINERS	8260 TCL	8270 TCL	RCRA Metals	PCB			Preserve y/n				TYPE OF CONTAINER/ COMMENTS:	OFFICE USE ONLY WST. I.D.
1	BH51 (0-2)	8/16		SO	3	X	X	X	X		|	+					01
2	BH5 (0-2)				3	X	X	X	X		|	+					02
3	[illegible]				3	X	X	X	X		|	+					03
4	BH5 (1-3)				3	X	X	X	X		|	+					04
5	BH55 (0-2)				3	X	X	X	X		|	+					05
6	[illegible]	8/16		SO	3	X	X	X	X		|	+					06
7																	
8																	
9																	
10																	

REMARKS:

(6.4)

RELINQUISHED BY:	DATE:	TIME:	RECEIVED BY:	DATE:	TIME:
[illegible signature]	~~8/16/~~ 8/17	11:35 AM ~~7:15 PM~~	[illegible signature]	8/17/04	11:45
RELINQUISHED BY: [illegible]	DATE: 1/ /04	TIME: [illegible]	RECEIVED BY: [illegible]	DATE: [illegible]	TIME:

LCS INC.
Environmental and Real Estate Consultants

LIMITATIONS

LCS INC.
Environmental and Real Estate Consultants

This environmental study is limited by the scope of services contained within this report and time frames specified within the contract for services agreed to by you dated August 6, 2004. The scope of services was based on the results LCS' review of GZA's Phase I Environmental Site Assessment dated May 2004.

This environmental study makes no warranties nor implies any liability regarding:

1. Any impacted media located beneath the on-site structure(s).
2. Any chemical analytes not included within the analytical test methods employed during this study.
3. Any impacted media present from off-site sources.
4. Any impacted groundwater either on-site or off-site.
5. Any impact at locations and depths not assessed in this study.
6. Any impact at locations where access was limited.

Conclusions and/or recommendations made within the study are based on the interpretation of data collected at individual sample locations and may change if additional data is collected during future study. Conditions between sampling locations are estimated based on available data. Intrusive studies serve to reduce, but not eliminate, the potential environmental risk associated with a property. No study is considered all-inclusive or representative of the entire subject property. Such would be cost prohibitive.

Proactive by Design

SUBSURFACE INVESTIGATION REPORT

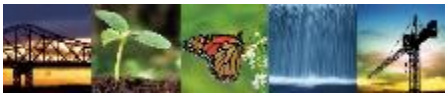
Pierce Arrow Apartments Site
157 Great Arrow Avenue
Buffalo, New York

July 26, 2017
File No. 21.0056831.10

PREPARED FOR:
Great Arrow Estates, LLC
Buffalo, New York

GZA GeoEnvironmental of New York
535 Washington Street, 11th Floor | Buffalo, New York 14203
716-685-2300

27 Offices Nationwide
www.gza.com



Proactive by Design

GEOTECHNICAL
ENVIRONMENTAL
ECOLOGICAL
WATER
CONSTRUCTION MANAGEMENT

GZA GeoEnvironmental of NY
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Buffalo, NY 14203
T: 716.685.2300
F: 716.685.3629
www.gza.com

VIA EMAIL

July 26, 2017
File No. 21.0056831.10

Mr. Matthew Connors
Great Arrow Estates, LLC
617 Main Street, Suite 350
Buffalo, New York 14203
email: matt@sinatraandcompany.com

Re: Subsurface Investigation Report
Pierce Arrow Apartments Site
157 Great Arrow Avenue
Buffalo, New York 14207 (Site)

Dear Mr. Connors:

GZA GeoEnvironmental of New York (GZA) prepared this report describing the results of our subsurface investigation at the above-referenced Site. The investigation was conducted at the request of Great Arrow Estates, LLC (Client) to further characterize the environmental conditions at the Site in support of application to the New York State Department of Environmental Conservation (NYSDEC) Brownfield Cleanup Program (BCP).

We trust this report satisfies your present needs. Should you have any questions or require additional information following your review, please do not hesitate to contact Jim Richert at (716) 844-7048.

Sincerely,

GZA GEOENVIRONMENTAL OF NEW YORK

Thomas Bohlen
Project Manager

James J. Richert, C.P.G.
Senior Project Manager

Daniel J. Troy, P.E., LEED® AP
Consultant Reviewer

Bart A. Klettke, P.E.
Principal

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1.0 INTRODUCTION

In accordance with our June 27, 2017 proposal, GZA GeoEnvironmental of New York (GZA) performed a subsurface investigation at the Pierce Arrow Apartments Site addressed as 157 Great Arrow Avenue in Buffalo, New York (Site) for Great Arrow Estates, LLC (Client). A Site Investigation Plan is attached as **Figure 1**.

1.1 BACKGROUND

Based upon our correspondence, GZA understands the Client desires to enter the Brownfield Cleanup Program (BCP) for Site redevelopment. Pierce Arrow Development, LLC previously agreed to a Brownfield Cleanup Agreement (BCA, BCP site number C915220) with the New York State Department of Environmental Conservation (NYSDEC). This BCA was later rescinded by NYSDEC due to non-implementation of the environmental work by the applicant.

GZA reviewed the following publicly available documents. GZA makes no statement or opinion regarding the quality, accuracy, or completeness of investigations or reporting conducted by others.

- GZA's Phase I ESA dated May 19, 2004, prepared for Tower Building Management.
- Lender Consulting Services' (LCS) Limited and Focused Subsurface Soil Investigation dated September 8, 2004, prepared for FourthofAugust, LLC.
- Malcolm Pirnie's NYSDEC-approved Remedial Investigation Work Plan (RIWP) prepared in 2007.

GZA reviewed the above referenced environmental data collected by LCS in 2004, which was part of a larger investigation of the former Pierce Arrow Manufacturing facility. That review suggested the number and distribution of samples from the Site that exceeded state soil cleanup objectives was limited and likely insufficient for NYSDEC-approved entry into the BCP.

GZA prepared the following scope of work with the intent to further characterize the Site in support of a new BCP application. Our scope of work was prepared to supplement the 2004 Subsurface Soil Investigation by LCS, and incorporates aspects of the NYSDEC-approved Remedial Investigation Work Plan (RIWP) prepared by Malcolm Pirnie in 2007.

1.2 PURPOSE AND SCOPE

The purpose of this subsurface investigation was to further characterize environmental media at the Site (soil and groundwater) in support of a new BCP application. To accomplish this, GZA developed a scope of work based on generally accepted standards of care and practices, which consisted of the following:

- Observed the completion of 13 soil probes (identified as SP-1 through SP-13) by TREC Environmental on July 11, 2017 (**Figure 1**). Temporary groundwater monitoring wells were installed at soil probes SP-9 and SP-13. Soil probes SP-1 through SP-4 were completed interior of the eastern portion of the Site building (western portions of the Site building were inaccessible to the soil probe rig). SP-5 was completed in a trench drain located exterior to the southeastern portion of the Site building. SP-6 was completed near a loading dock southwest of the Site building. SP-7 was completed on the southwestern portion of the Site in the access driveway/alley. SP-8 through SP-10, and SP-12 were completed near the exterior building perimeter proximate to former railroad lines. SP-11 was completed proximate to an existing former underground storage tank (UST) staged on the surface of northern

portion of the Site, south of the elevated earthen berm (**Figure 1**). According to information provided during our Phase I ESA dated May 2004, this UST formerly contained #2 fuel oil for a boiler on the east side of Building C.

SP-13 was completed on the northwestern portion of the Site. Mr. Thomas Wall, Great Arrow Management, LLC, provided GZA with historical Site plans the day of the scheduled investigation for utility clearance purposes. The historical plans indicated an "oil house", "coal storage area" and at least three historical tanks (aboveground or underground not specified) were formerly present on the northwestern portion of the Site (**Figure 1**). Copies of these provided plans are included in **Appendix B**. GZA notes these historical plans were not provided to GZA during the Phase I ESA conducted in May 2004. GZA was unaware of these historical Site features while developing the scope of this subsurface investigation.

- Collected subsurface soil samples continuously in 4-foot sample intervals from the ground surface to depths ranging from approximately 8 to 16 feet below ground surface (ft. bgs). Soil samples were collected using a macro-core sampler at each probe location.
- Collected near surface soil samples from an elevated earthen berm located on the northern portion of the Site. The samples were collected using a decontaminated hand shovel beneath the upper 6-inches of the berm.
- Field screened soil samples in 2-foot sample intervals using an organic vapor meter (OVM) equipped with a photoionization detector (PID) with a 10.6 eV ultraviolet lamp.
- Submitted 12 soil samples and two groundwater samples for analysis for Target Compound List (TCL) plus Final Commissioner's Policy-51 (CP-51) list volatile organic compounds (VOCs) via USEPA SW-846 Test Method 8260.
- Submitted 18 soil samples and two groundwater samples for analysis for semivolatile organic compounds (SVOCs) polycyclic aromatic hydrocarbons (PAHs) via USEPA SW-846 Test Method 8270.
- Submitted 16 soil samples for analysis for Resource Conservation and Recovery Act (RCRA)NYSDEC SCO list metals via USEPA SW-846 Test Methods 6010/7471.
- Submitted six soil samples for analysis for polychlorinated biphenyls (PCBs) via USEPA SW-846 Test Method 8082.
- Prepared this report, which summarizes the data collected during the Phase II ESA.

This report presents GZA's field observations, analytical results, and opinions and is subject to the limitations presented in Appendix A, and modification if subsequent information is developed by GZA or any other party.

2.0 FIELD METHODS

This section describes the field methods utilized as part of GZA's subsurface investigation.

2.1 SOIL PROBE INSTALLATIONS

Thirteen soil probes, designated SP-1 through SP-13 (**Figure 1**), were completed in readily accessible interior and exterior portions of the Site on July 11, 2017, utilizing a track-mounted Geoprobe direct-push rig (6620 UT) equipped with a 2-inch diameter, 48-inch long macro-core sampler.

New, dedicated, and disposable acetate sample liners were used inside of the macro-core sampler between sample intervals. The soil probes were advanced to total depths ranging from approximately 8 to 16 ft. bgs. Representative portions of the recovered soils from each boring were placed into zip-lock bags for further classification and headspace screening.

Upon completion of the soil probes (and removal of temporary monitoring wells), the soil probes were backfilled with associated soil cuttings and patched with asphalt (exterior) and concrete (interior) at the surface.

GZA prepared soil probe logs summarizing the general subsurface conditions that were observed at each probe location. These logs provide a summary description of the soils based on visual observations of the recovered soil's color and composition. Soil boring logs are included as Appendix B.

2.2 HEADSPACE SCREENING

Soil samples were generally collected in approximate two-foot intervals from the ground surface to the bottom of the soil probes. A representative portion of each sample was placed in a sealable plastic bag to allow organic vapors to accumulate in the headspace of the bag. The headspace in each bag was then screened for total organic vapors using a MiniRae 3000 OVM equipped with a PID with a 10.6 eV ultraviolet lamp. The OVM was calibrated in accordance with the manufacturer's recommendations utilizing a gas standard of isobutylene at a concentration of 100 parts per million (ppm). Ambient air at the Site was used to establish background organic vapor concentrations (approximately 0.0 ppm).

2.3 TEMPORARY MONITORING WELL INSTALLATIONS

Temporary one-inch diameter PVC groundwater monitoring wells were installed at locations where saturated soils were observed in the soil core [SP-9 (bottom of well (BOW) 16 ft bgs, screened 6 to 16 ft bgs) and SP-13 (BOW 8 ft bgs, screened 0 to 8 ft bgs)].

3.0 FIELD OBSERVATIONS

3.1 SOIL AND GROUNDWATER

Fill materials were not encountered in soil probes conducted beneath the concrete of the Site building (SP-1 through SP-4), beneath the concrete in the trench drain located southeast of the Site building (SP-5), or beneath the asphalt on the southwestern portion of the Site (SP-7).

Fill materials (*i.e.,* sands and gravels with varying amounts of silt, brick, and glass) were observed at the remaining completed soil probe locations (SP-6, SP-8 through SP-13) to depths ranging from one-foot to 13 ft bgs. Evidence of fill (fragments of concrete, asphalt, and wood) were observed in the elevated earthen berm located on the northern portion of the Site (sampling locations SS-1 through SS-4, Figure 1).

Native silty clay was observed to the bottom of all soil probes beneath the concrete, asphalt, or fill material (where encountered). Evidence of saturated fill materials were observed at SP-9 (approximately 11 to 13 ft bgs) and at SP-13 (approximately 3.5 to 4.5 ft bgs). The underlying native silty clays were observed to be moist (unsaturated). Evidence of saturated fill/soil was not observed at the remaining soil probe locations.

3.2 HEADSPACE SCREENING AND VISUAL/OLFACTORY EVIDENCE OF IMPACT

Elevated PID readings and visual/olfactory evidence of petroleum impact were observed at SP-13 from approximately 3.5 to 4.5 ft bgs (granular fill). The maximum PID screening result was 42.3 ppm. This result was obtained directly from the impacted fill in the acetate liner immediately after cutting/opening. A headspace result was not feasible, as the impacted material was immediately sampled and containerized for analysis. Visual and olfactory evidence of (*i.e.,* sheen and odor) suspected petroleum impact was observed from the groundwater sample collected from SP-13.

No elevated PID readings or visual/olfactory evidence of impact (except for the presence of fill) was observed from samples collected from the remaining soil probes.

Headspace results and visual and olfactory observations are provided on the soil probe logs included in **Appendix B**.

4.0 ANALYTICAL LABORATORY TESTING AND COMPARISON CRITERIA

Table 1 provides a summary of the samples submitted for laboratory analysis and the chemical analyses performed on each sample. Soil samples were selected for laboratory analysis based on the near-surface soil stratigraphy observed and the characteristics of potential contaminants in the environment. Soil and groundwater samples were submitted for analysis to Alpha Analytical in Westborough, MA. Typical chain-of-custody procedures were followed. The analytical laboratory report is provided in Appendix C.

Summaries of analytical results for the soil and groundwater samples are summarized in **Tables 2** and **3**, respectively.

4.1 ANALYTICAL COMPARISON CRITERIA - SOIL

The analytical test results were compared to the NYSDEC Part 375 Soil Cleanup Objectives (SCOs) for unrestricted, residential, restricted residential, commercial and industrial site uses of 6 NYCRR Part 375 (December 14, 2006). The SCOs are typically utilized at sites undergoing investigation and remediation through a NYSDEC program (i.e., Brownfield Cleanup Program, State Superfund Program). The Part 375 SCOs for unrestricted site use are concentrations of contaminants in soil that are considered protective of human health and the environment without requiring the use of engineering and/or institutional controls (i.e. soil caps/covers, environmental easement, vapor barrier, groundwater treatment systems). The Part 375 SCOs for more restricted site uses (residential, restricted residential, commercial, and industrial) are concentrations of contaminants in soil that require the use of long-term engineering and/or institutional controls to be considered protective of human health and the environment because of the increased levels of contamination to be left on-site.

4.2 ANALYTICAL COMPARISON CRITERIA – GROUNDWATER

The analytical test results for the groundwater sample were compared to the NYSDEC Class GA Groundwater Criteria (Division of Water Technical and Operational Guidance Series [TOGS 1.1.1], June 1998), consisting of both standards and guidance values. All fresh groundwater in New York State is classified as Class GA.

5.0 RESULTS

5.1 SOIL

Volatile Organic Compounds

VOCs were detected above method detection limits (MDLs) in 11 of the 12 samples submitted for analysis (**Table 2**). Most of the VOCs detected were at estimated concentrations (*i.e.* low level concentrations detected between the MDL and the reporting limit (RL)) and below NYSDEC Part 375 Unrestricted SCOs. GZA notes the MDLs for benzene and/or acetone slightly exceeded NYSDEC Part 375 Unrestricted SCOs in nine of the 12 samples submitted for analysis. Method detection limits for trans-1,2-dichloroethene slightly exceeded its respective NYSDEC Part 375 Unrestricted SCO for the sample submitted from SP-11 (3 ft bgs).

SP-13: Trichloroethene (TCE) was detected at SP-13 (4.5 ft bgs) at a concentration (23 mg/kg) exceeding its respective NYSDEC Part 375 Commercial SCO (10 mg/kg).

No other VOCs were detected at concentrations at or above the NYSDEC Part 375 SCOs for residential site use in the soil samples submitted for analysis.

Semivolatile Organic Compounds

SVOCs were detected above MDLs in all 12 samples submitted for analysis. SVOCs were detected below NYSDEC Part 375 Unrestricted SCOs in 10 of the 12 samples analyzed.

SP-6: Seventeen SVOCs were detected above MDLs from the sample from SP-6 (0 to 1 ft bgs), six of which exceeded their respective SCOs. Chrysene was detected at a concentration (2.4 mg/kg) slightly exceeding its respective NYSDEC Part 375 Residential SCO (1 mg/kg). Four compounds (benzo(a)anthracene, benzo(b)fluoranthene, dibenzo(a,h)anthracene, and indeno(1,2,3-cd)pyrene) slightly exceeded their respective Part 375 Restricted Residential SCOs. Benzo(a)pyrene was detected at a concentration (2.1 mg/kg) exceeding its respective Part 375 Industrial SCO (1.1 mg/kg).

SP-10: Seventeen SVOCs were detected above MDLs from the sample from SP-10 (0 to 4.5 ft bgs), seven of which exceeded their respective SCOs. Chrysene and benzo(k)fluoranthene were detected at concentrations slightly exceeding their respective NYSDEC Part 375 Residential SCOs. Four compounds (benzo(a)anthracene, benzo(b)fluoranthene, dibenzo(a,h)anthracene, and indeno(1,2,3-cd)pyrene) exceeded their respective Part 375 Restricted Residential SCOs. Benzo(a)pyrene was detected at a concentration (2.5 mg/kg) exceeding its respective Part 375 Industrial SCO (1.1 mg/kg).

No other SVOCs were detected at concentrations at or above the NYSDEC Part 375 SCOs for unrestricted site use in the soil samples submitted for analysis.

Metals

Metals were detected above MDLs in all 12 samples submitted for analysis. Metals were detected below Part 375 Unrestricted SCOs in five of the 12 samples analyzed; and below Part 375 Residential SCOs in six of the 12 samples analyzed.

SP-6: Manganese was detected at a concentration of 2,180 mg/kg, which exceeds its respective Part 375 Commercial SCO (2,000 mg/kg) at SP-6 (0 to 1 ft bgs).

SP-8: Four analytes (copper, nickel, selenium, and silver) exceeded their respective Part 375 Unrestricted SCOs at SP-8 (0 to 1 ft bgs). Cadmium was detected at a concentration of 4.2 mg/kg, which exceeds its respective Part 375 Residential SCO (2.5 mg/kg). Total chromium was detected at 1,510 mg/kg, which exceeds its respective Part 375 Commercial SCO (1,500 mg/kg for trivalent chromium; GZA notes that hexavalent chromium analysis was not conducted). Manganese was detected at a concentration of 38,600 mg/kg, which significantly exceeds its respective Part 375 Industrial SCO (10,000 mg/kg).

SP-10: Four analytes (arsenic, lead, mercury and nickel) exceeded their respective Part 375 Unrestricted SCOs at SP-10 (0 to 4.5 ft bgs). Copper was detected at 494 mg/kg, which exceeds its respective Part 375 Commercial SCO (270 mg/kg).

SP-11: Arsenic was detected at a concentration (52.7 mg/kg) that exceeded its respective Part 375 Industrial SCO (16 mg/kg) at SP-11 (0.5 to 4.5 ft bgs).

SP-12: Two analytes (arsenic and zinc) exceeded their respective Part 375 Unrestricted SCOs at SP-12 (0 to 3 ft bgs). Total chromium was detected at 45.8 mg/kg, which exceeds its respective Part 375 Residential SCO (36 mg/kg for trivalent chromium).

SP-13: Two analytes (copper and lead) exceeded their respective Part 375 Unrestricted SCOs at SP-13 (0 to 4.5 ft bgs). Total chromium was detected at 66.6 mg/kg, which exceeds its respective Part 375 Residential SCO (36 mg/kg for trivalent chromium).

Polychlorinated Biphenyls (PCBs)

PCBs were not detected above Part 375 Unrestricted SCOs in the six samples submitted for analysis.

5.2 NEAR SURFACE SOIL

Semivolatile Organic Compounds

SVOCs were detected above MDLs in all four samples submitted for analysis. SVOCs were detected below NYSDEC Part 375 Unrestricted SCOs in two of the four samples analyzed.

SS-1: Seventeen SVOCs were detected above MDLs from the sample from SS-1, seven of which exceeded their respective SCOs. Chrysene and benzo(k)fluoranthene were detected at concentrations exceeding their respective NYSDEC Part 375 Residential SCOs. Four compounds (benzo(a)anthracene, benzo(b)fluoranthene, dibenzo(a,h)anthracene, and indeno(1,2,3-cd)pyrene) slightly exceeded their respective Part 375 Restricted Residential SCOs. Benzo(a)pyrene was detected at a concentration (2.7 mg/kg) exceeding its respective Part 375 Industrial SCO (1.1 mg/kg).

SS-4: Seventeen SVOCs were detected above MDLs from the sample from SP-4, five of which exceeded their respective SCOs. Chrysene was detected at a concentration (2.4 mg/kg) slightly exceeding its respective NYSDEC Part 375 Residential SCO (1 mg/kg). Three compounds (benzo(a)anthracene, benzo(b)fluoranthene, and indeno(1,2,3-cd)pyrene) exceeded their respective Part 375 Restricted Residential SCOs. Benzo(a)pyrene was detected at a concentration (1.5 mg/kg) slightly exceeding its respective Part 375 Industrial SCO (1.1 mg/kg).

No other SVOCs were detected at concentrations at or above the NYSDEC Part 375 SCOs for unrestricted site use in the near surface soil samples submitted for analysis.

Metals

Metals were detected above MDLs in all four samples submitted for analysis. Metals were detected below Part 375 Unrestricted SCOs in two of the four samples analyzed; and below Part 375 Residential SCOs in three of the four samples analyzed.

SS-2: Total chromium was detected at 277 mg/kg, which exceeds its respective Part 375 Restricted Residential SCO (180 mg/kg for trivalent chromium). Nickel was detected at a concentration of 482 mg/kg, which exceeds its respective Part 375 Commercial SCO (310 mg/kg).

5.3 GROUNDWATER

Volatile Organic Compounds

VOCs were detected above MDLs in both samples submitted for analysis (**Table 3**).

SP-9: Two VOCs (cis-1,2-dichloroethene and TCE) were detected at estimated concentrations and below NYSDEC Part 375 Unrestricted SCOs. No other VOCs were detected above MDLs from the groundwater sample submitted for analysis from SP-9.

SP-13: Four VOCs (acetone, 1,1-dichloroethane, cis-1,2-dichloroethene, and methylcyclohexane) were detected at concentrations below their respective Class GA criteria. Trichloroethene (TCE) was detected at a concentration of 28 ug/L exceeding its respective Class GA criterion (5 ug/L).

No other VOCs were detected at concentrations at or above MDLs in the groundwater samples submitted for analysis.

Semivolatile Organic Compounds

SVOCs were detected above MDLs in both samples submitted for analysis (**Table 3**).

SP-9: Fourteen SVOCs were detected above MDLs, six of which (benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, and indeno(1,2,3-cd)pyrene) exceeded their respective Class GA criteria.

SP-13: Ten SVOCs were detected above MDLs, eight of which (anthracene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, chrysene, fluoranthene, indeno(1,2,3-cd)pyrene, and pyrene) exceeded their respective Class GA criteria. GZA notes the MDL (8.4 ug/L) for benzo(k)fluoranthene exceeded its respective Class GA criterion (0.002 ug/L).

No other SVOCs were detected at concentrations at or above MDLs in the groundwater samples submitted for analysis.

6.0 CONCLUSIONS AND RECOMMENDATIONS

The results of GZA's subsurface investigation identified VOC, SVOC, and metals impact to the Site soil and/or groundwater at concentrations that exceed NYSDEC Part 375 SCOs and/or Class GA Groundwater criteria (see **Tables 2 and 3**).

Field evidence of environmental impact (*i.e.,* elevated PID readings and visual/olfactory evidence) at SP-13 was observed. SP-13 was conducted on the northwestern portion of the Site proximate to a reported former oil house, coal storage area, and railroad lines. On behalf of the Site owner and in consultation with the Client, GZA notified NYSDEC of the historical release and Spill Number 1703633 was assigned to the Site. Subsequent analytical results identified TCE at concentrations that exceed Restricted Residential SCOs and Class GA groundwater criteria.

The significance of the impact at SP-13 is unknown. GZA recommends that additional investigation be conducted to better assess the magnitude and extent of the chlorinated organic impact identified. GZA also recommends this report be provided to NYSDEC for review in relation to Spill Number 1703633.

As with any property, should future site development/excavation encounter impacted soils, groundwater, and/or USTs, such would need to be properly addressed at that time.

Tables

Table 1
Analytical Sample Summary
Pierce Arrow Apartments
157 Great Arrow Avenue
Buffalo, New York

Location	Date Collected	Depth/ Interval (ft. bgs)	VOCs EPA Method 8260 TCL + CP-51	PAHs EPA Method 8270	Metals EPA Method 6010/7471 RCRA	PCBs EPA Method 6010/7471 RCRA	Area of Concern
SUBSURFACE SOIL SAMPLES							
SP-1	7/11/2017	0.67	X				Eastern interior of Site building
SP-1	7/11/2017	0.5-8		X	X		Eastern interior of Site building
SP-2	7/11/2017	3.5	X	X	X	X	Eastern interior of Site building
SP-3	7/11/2017	2	X				MS/MSD; Eastern interior of Site building
SP-3	7/11/2017	1-8		X	X		MS/MSD; Eastern interior of Site building
SP-5	7/11/2017	1	X				Subsurface Duplicate; trench drain south of Site building
SP-5	7/11/2017	1-8		X	X		Subsurface Duplicate; trench drain south of Site building
SP-6	7/11/2017	0.5	X				Dock southwest of Site building
SP-6	7/11/2017	0-1		X	X	X	Dock southwest of Site building
SP-7	7/11/2017	4	X				Southwestern portion of Site
SP-7	7/11/2017	4-8		X	X	X	Southwestern portion of Site
SP-8	7/11/2017	0.5	X				Railbed southeast of Site building
SP-8	7/11/2017	0-1		X	X	X	Railbed southeast of Site building
SP-9	7/11/2017	2	X				Railbed northeast of Site building
SP-9	7/11/2017	0-13		X	X	X	Railbed northeast of Site building
SP-10	7/11/2017	4	X				Railbed north of Site building
SP-10	7/11/2017	0-4.5		X	X		Railbed north of Site building
SP-11	7/11/2017	3	X				AST on northern portion of Site
SP-11	7/11/2017	0.5-4.5		X	X	X	AST on northern portion of Site
SP-12	7/11/2017	1.5	X				Parking lot north of Site building
SP-12	7/11/2017	0-3		X	X		Parking lot north of Site building
SP-13	7/11/2017	4.5	X				Parking lot north of Site building, east of historical oil house and southeast of historical tanks
SP-13	7/11/2017	0-4.5		X	X		Parking lot north of Site building, east of historical oil house and southeast of historical tanks
NEAR SURFACE SOIL SAMPLES							
SS-1	7/11/2017	0.5-1		X	X		MS/MSD; Northern earthen berm
SS-2	7/11/2017	0.5-1		X	X		Northern earthen berm
SS-3	7/11/2017	0.5-1		X	X		Surface Sample Duplicate; Northern earthen berm
SS-4	7/11/2017	0.5-1		X	X		Northern earthen berm
GROUNDWATER SAMPLES							
SP-9	7/11/2017	*6-16	X	X			Railbed northeast of Site building
SP-13	7/11/2017	*0-8	X	X			Parking lot north of Site building, east of historical oil house and southeast of historical tanks

Notes:
1. ft. bgs = feet below ground surface
2. VOCs = Volatile Organic Compounds
3. PAHs = Polycyclic Aromatic Hydrocarbons
4. TCL = Target Compound List
5. PCBs = Polychlorinated biphenyls
6. CP-51 = Final Commissioner's Policy-51
7. RCRA = Resource Conservation and Recovery Act
8. AST = Aboveground Storage Tank
9. MS/MSD = Matrix Spike/Matrix Spike Duplicate
10. EPA = Environmental Protection Agency
11. * = Depth interval represents the screened interval.

Table 2
Soil Analytical Testing Results Summary
Pierce Arrow Apartments
157 Great Arrow Avenue
Buffalo, New York

LOCATION						SP-1-8"-071117		SP-1-0.5-8-071117		SP-2-3.5-071117		SP-3-2-071117		SP-3-1-8-071117		SP-5-1-071117		SP-5-1-8-071117		SP-6-0.5-071117		SP-6-0-1-071117	
SAMPLING DATE						7/11/2017		7/11/2017		7/11/2017		7/11/2017		7/11/2017		7/11/2017		7/11/2017		7/11/2017		7/11/2017	
LAB SAMPLE ID						L1723613-01		L1723613-02		L1723613-03		L1723613-04		L1723613-05		L1723613-06		L1723613-07		L1723613-08		L1723613-09	
	Part 375 Soil Cleanup Objectives Unrestricted	Part 375 Soil Cleanup Objectives Residential	Part 375 Soil Cleanup Objectives Restricted Residential	Part 375 Soil Cleanup Objectives Commercial	Part 375 Soil Cleanup Objectives Industrial	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual
General Chemistry																							
Solids, Total (%)						80.7		81.8		76.4		82.4		80.8		78.3		81.2		86.5			
Cyanide, Total (mg/kg)	*27*	**27**	**27**	**27**	**10000**	-	-	0.93	J	0.36	J	-	-	1.2	U	-	-	2.4	U	-	-	0.91	J
Polychlorinated Biphenyls by GC (mg/kg)																							
Aroclor 1254	*0.1*	**1**	**1**	**1**	**25**	-	-	-	-	0.043	U	-	-	-	-	-	-	-	-	-	-	0.026	J
Aroclor 1260	*0.1*	**1**	**1**	**1**	**25**	-	-	-	-	0.043	U	-	-	-	-	-	-	-	-	-	-	0.0245	J
PCBs, Total						-	-	-	-	0.043	U	-	-	-	-	-	-	-	-	-	-	0.0505	J
Semivolatile Organics by GC/MS (mg/kg)																							
Acenaphthene	*20*	**100**	**100**	**500**	**1000**	-	-	0.16	U	0.17	U	-	-	0.16	U	-	-	0.16	U	-	-	0.34	
Fluoranthene	*100*	**100**	**100**	**500**	**1000**	-	-	0.078	J	0.13	U	-	-	0.16		-	-	0.073	J	-	-	5.2	
Naphthalene	*12*	**100**	**100**	**500**	**1000**	-	-	0.2	U	0.21	U	-	-	0.2	U	-	-	0.026	J	-	-	0.11	J
Benzo(a)anthracene	*1*	**1**	**1**	**5.6**	**11**	-	-	0.032	J	0.13	U	-	-	0.08	J	-	-	0.035	J	-	-	**2.3**	
Benzo(a)pyrene	*1*	**1**	**1**	**1**	**1.1**	-	-	0.16	U	0.17	U	-	-	0.069	J	-	-	0.16	U	-	-	**2.1**	
Benzo(b)fluoranthene	*1*	**1**	**1**	**5.6**	**11**	-	-	0.12	U	0.13	U	-	-	0.081	J	-	-	0.04	J	-	-	**3.1**	
Benzo(k)fluoranthene	*0.8*	**1**	**3.9**	**56**	**110**	-	-	0.12	U	0.13	U	-	-	0.12	U	-	-	0.12	U	-	-	*0.95*	
Chrysene	*1*	**1**	**3.9**	**56**	**110**	-	-	0.03	J	0.13	U	-	-	0.07	J	-	-	0.037	J	-	-	**2.4**	
Acenaphthylene	*100*	**100**	**100**	**500**	**1000**	-	-	0.16	U	0.17	U	-	-	0.16	U	-	-	0.16	U	-	-	0.15	U
Anthracene	*100*	**100**	**100**	**500**	**1000**	-	-	0.12	U	0.13	U	-	-	0.12	U	-	-	0.12	U	-	-	0.6	
Benzo(ghi)perylene	*100*	**100**	**100**	**500**	**1000**	-	-	0.16	U	0.17	U	-	-	0.034	J	-	-	0.16	U	-	-	1.3	
Fluorene	*30*	**100**	**100**	**500**	**1000**	-	-	0.2	U	0.21	U	-	-	0.2	U	-	-	0.21	U	-	-	0.25	
Phenanthrene	*100*	**100**	**100**	**500**	**1000**	-	-	0.06	J	0.13	U	-	-	0.093	J	-	-	0.064	J	-	-	3.2	
Dibenzo(a,h)anthracene	*0.33*	**0.33**	**0.33**	**0.56**	**1.1**	-	-	0.12	U	0.13	U	-	-	0.12	U	-	-	0.12	U	-	-	**0.35**	
Indeno(1,2,3-cd)pyrene	*0.5*	**0.5**	**0.5**	**5.6**	**11**	-	-	0.16	U	0.17	U	-	-	0.037	J	-	-	0.16	U	-	-	**1.4**	
Pyrene	*100*	**100**	**100**	**500**	**1000**	-	-	0.065	J	0.022	J	-	-	0.14		-	-	0.061	J	-	-	4.2	
Dibenzofuran	*7*	**14**	**59**	**350**	**1000**	-	-	0.2	U	0.21	U	-	-	0.2	U	-	-	0.21	U	-	-	0.17	J
3-Methylphenol/4-Methylphenol	*0.33*	**34**	**100**	**500**	**1000**	-	-	0.29	U	0.31	U	-	-	0.29	U	-	-	0.3	U	-	-	0.28	U
Total Metals (mg/kg)																							
Arsenic, Total	*13*	**16**	**16**	**16**	**16**	-	-	4.25		4.64		-	-	5.41		-	-	5.86		-	-	4.41	
Barium, Total	*350*	**350**	**400**	**400**	**10000**	-	-	103		110		-	-	66.9		-	-	136		-	-	209	
Beryllium, Total	*7.2*	**14**	**72**	**590**	**2700**	-	-	0.563		0.615		-	-	0.416	J	-	-	0.476		-	-	1.54	
Cadmium, Total	*2.5*	**2.5**	**4.3**	**9.3**	**60**	-	-	0.71		0.782	J	-	-	0.734	J	-	-	0.905	J	-	-	0.324	J
Chromium Total (assumed all Trivalent)	*(1[a]/30[b])*	**(22[a]/36[b])**	**(110[a]/180[b])**	**(400[a]/1500[b])**	**(800[a]/6,800[b])**	-	-	13.8		16.9		-	-	13.2		-	-	18		-	-	7	
Copper, Total	*50*	**270**	**270**	**270**	**10000**	-	-	18		18.6		-	-	14.2		-	-	21.8		-	-	29.2	
Lead, Total	*63*	**400**	**400**	**1000**	**3900**	-	-	*122*		18.2		-	-	17.5		-	-	10.9		-	-	33.2	
Manganese, Total	*1600*	**2000**	**2000**	**10000**	**10000**	-	-	266		307		-	-	218		-	-	431		-	-	**2180**	
Mercury, Total	*0.18*	**0.81**	**0.81**	**2.8**	**5.7**	-	-	0.12		0.05	J	-	-	0.04	J	-	-	0.08	U	-	-	0.03	J
Nickel, Total	*30*	**140**	**310**	**310**	**10000**	-	-	16.8		17.4		-	-	13.3		-	-	23.1		-	-	6.32	
Selenium, Total	*3.9*	**36**	**180**	**1500**	**6800**	-	-	0.147	J	2.08	U	-	-	1.98	U	-	-	1.98	U	-	-	1.97	
Silver, Total	*2*	**36**	**180**	**1500**	**6800**	-	-	0.473	U	1.04	U	-	-	0.991	U	-	-	0.992	U	-	-	0.738	J
Zinc, Total	*109*	**2200**	**10000**	**10000**	**10000**	-	-	83.5		56.8		-	-	49.3		-	-	60.6		-	-	33.2	
Volatile Organics by 8260/5035 (mg/kg)																							
1,1-Dichloroethane	*0.27*	**19**	**26**	**240**	**480**	0.1	U	-	-	0.1	U	0.087	U	-	-	0.082	U	-	-	0.15	U	-	-
Benzene	*0.06*	**2.9**	**4.8**	**44**	**89**	*0.069* (Note 10)	U	-	-	*0.07* (Note 10)	U	0.058	U	-	-	*0.063* (Note 10)	U	-	-	*0.1* (Note 10)	U	-	-
Toluene	*0.7*	**100**	**100**	**500**	**1000**	0.1	U	-	-	0.1	U	0.087	U	-	-	0.082	U	-	-	0.033	J	-	-
Ethylbenzene	*1*	**30**	**41**	**390**	**780**	0.069	U	-	-	0.07	U	0.058	U	-	-	0.055	U	-	-	0.1	U	-	-
Chloromethane	*NV*	**NV**	**NV**	**NV**	**NV**	0.35	U	-	-	0.35	U	0.29	U	-	-	0.27	U	-	-	0.5	U	-	-
Bromomethane	*NV*	**NV**	**NV**	**NV**	**NV**	0.068	J	-	-	0.14	U	0.026	J	-	-	0.12	J	-	-	0.2	U	-	-
trans-1,2-Dichloroethene	*0.19*	**100**	**100**	**500**	**1000**	0.1	U	-	-	0.1	U	0.087	U	-	-	0.082	U	-	-	0.15	U	-	-
Trichloroethene	*0.47*	**10**	**21**	**200**	**400**	0.069	U	-	-	0.07	U	0.058	U	-	-	0.055	U	-	-	0.1	U	-	-
p/m-Xylene	*NV*	**NV**	**NV**	**NV**	**NV**	0.14	U	-	-	0.14	U	0.12	U	-	-	0.11	U	-	-	0.2	U	-	-
o-Xylene	*NV*	**NV**	**NV**	**NV**	**NV**	0.14	U	-	-	0.14	U	0.12	U	-	-	0.11	U	-	-	0.2	U	-	-
cis-1,2-Dichloroethene	*0.25*	**59**	**100**	**500**	**1000**	0.069	U	-	-	0.07	U	0.058	U	-	-	0.055	U	-	-	0.1	U	-	-
Acetone	*0.05*	**100**	**100**	**500**	**1000**	*0.69* (Note 10)	U	-	-	*0.7* (Note 10)	U	*0.58* (Note 10)	U	-	-	*0.55* (Note 10)	U	-	-	*0.46*	J	-	-
Carbon disulfide	*NV*	**100***	**NV**	**NV**	**NV**	0.69	U	-	-	0.7	U	0.58	U	-	-	0.18	J	-	-	1	U	-	-
n-Butylbenzene	*12*	**100**	**100**	**500**	**1000**	0.069	U	-	-	0.07	U	0.058	U	-	-	0.055	U	-	-	0.1	U	-	-
sec-Butylbenzene	*11*	**100**	**100**	**500**	**1000**	0.069	U	-	-	0.07	U	0.058	U	-	-	0.055	U	-	-	0.1	U	-	-
Isopropylbenzene	*NV*	**100**	**NV**	**NV**	**NV**	0.069	U	-	-	0.07	U	0.058	U	-	-	0.055	U	-	-	0.1	U	-	-
p-Isopropyltoluene	*NV*	**NV**	**NV**	**NV**	**NV**	0.069	U	-	-	0.07	U	0.058	U	-	-	0.055	U	-	-	0.1	U	-	-
Naphthalene	*12*	**100**	**100**	**500**	**1000**	0.35	U	-	-	0.35	U	0.29	U	-	-	0.018	J	-	-	0.022	J	-	-
n-Propylbenzene	*3.9*	**100**	**100**	**500**	**1000**	0.069	U	-	-	0.07	U	0.058	U	-	-	0.055	U	-	-	0.1	U	-	-
1,3,5-Trimethylbenzene	*8.4*	**47**	**52**	**190**	**380**	0.35	U	-	-	0.35	U	0.29	U	-	-	0.27	U	-	-	0.032	J	-	-
1,2,4-Trimethylbenzene	*3.6*	**47**	**52**	**190**	**380**	0.35	U	-	-	0.35	U	0.29	U	-	-	0.27	U	-	-	0.033	J	-	-
Methyl Acetate	*NV*	**NV**	**NV**	**NV**	**NV**	1.4	U	-	-	1.4	U	0.14	J	-	-	1.1	U	-	-	0.87	J	-	-
Cyclohexane	*NV*	**NV**	**NV**	**NV**	**NV**	1.4	U	-	-	1.4	U	1.2	U	-	-	1.1	U	-	-	0.24	J	-	-
Methyl cyclohexane	*NV*	**NV**	**NV**	**NV**	**NV**	0.28	U	-	-	0.28	U	0.23	U	-	-	0.22	U	-	-	0.82		-	-

Notes:
1. Compounds detected in one or more samples are presented on this table. Refer to Appendix C for a list of all compounds included in the analysis.
2. Analytical testing completed by Alpha Analytical in Westborough, MA.
3. ug/kg = parts per billion. mg/kg = parts per million. ft. bgs = feet below ground surface.
4. U Qualifier = not detected at a concentration at or above the laboratory's method detection limit. Method detection limit is indicated.
5. Part 375 Soil Cleanup Objectives are from 6 NYCRR Part 375, effective December 14, 2006, values current as of May 2007.
6. NL = Not Listed. NV = No Value.
7. J = Indicates an estimated value.
8. * Supplemental Soil Cleanup Objective for Residential Use, from NYSDEC CP-51 Soil Cleanup Guidance, Table 1, issued October 21, 2010.
9. "-" = Not Tested
10. Method detection limit exceeded Part 375 Unrestricted Criteria
11. [a] = hexavalent chromium
12. [b] = trivalent chromium
13. Results shown for SP-5-1 and SP-5-1-8 are the higher of the initial result or their respective duplicate sample.
14. Results shown for SS-3 are the higher of the initial result or its respective duplicate sample.

Table 2
Soil Analytical Testing Results Summary
Pierce Arrow Apartments
157 Great Arrow Avenue
Buffalo, New York

LOCATION						SP-7-4-071117		SP-7-4-8-071117		SP-8-0.5-071117		SP-8-0-1-071117		SP-9-2-071117		SP-9-0-13-071117		SP-10-4-071117		SP-10-0-4.5-071117		SP-11-3-071117	
SAMPLING DATE						7/11/2017		7/11/2017		7/11/2017		7/11/2017		7/11/2017		7/11/2017		7/11/2017		7/11/2017		7/11/2017	
LAB SAMPLE ID						L1723613-10		L1723613-11		L1723613-12		L1723613-13		L1723613-14		L1723613-15		L1723613-16		L1723613-17		L1723613-18	
	Part 375 Soil Cleanup Objectives Unrestricted	Part 375 Soil Cleanup Objectives Residential	Part 375 Soil Cleanup Objectives Restricted Residential	Part 375 Soil Cleanup Objectives Commercial	Part 375 Soil Cleanup Objectives Industrial	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual
General Chemistry																							
Solids, Total (%)						79.9		83.6		95.8		90.8		85.5		85		76		91.7		92.4	
Cyanide, Total (mg/kg)	27	27	27	27	10000	-	-	1.1	U	-	-	8.4		-	-	0.53	J	-	-	0.68	J	-	-
Polychlorinated Biphenyls by GC (mg/kg)																							
Aroclor 1254	0.1	1	1	1	25	-	-	0.0391	U	-	-	0.0362	U	-	-	0.0384	U	-	-	-	-	-	-
Aroclor 1260	0.1	1	1	1	25	-	-	0.0391	U	-	-	0.00779	J	-	-	0.0384	U	-	-	-	-	-	-
PCBs, Total						-	-	0.0391	U	-	-	0.00779	J	-	-	0.0384	U	-	-	-	-	-	-
Semivolatile Organics by GC/MS (mg/kg)																							
Acenaphthene	20	100	100	500	1000	-	-	0.16	U	-	-	0.14	U	-	-	0.038	J	-	-	0.28		-	-
Fluoranthene	100	100	100	500	1000	-	-	0.035	J	-	-	0.24		-	-	0.96		-	-	4.8		-	-
Naphthalene	12	100	100	500	1000	-	-	0.2	U	-	-	0.18	U	-	-	0.15	J	-	-	0.81		-	-
Benzo(a)anthracene	1	1	1	5.6	11	-	-	0.12	U	-	-	0.12		-	-	0.49		-	-	2.2		-	-
Benzo(a)pyrene	1	1	1	1	1.1	-	-	0.16	U	-	-	0.12	J	-	-	0.39		-	-	2.5		-	-
Benzo(b)fluoranthene	1	1	1	5.6	11	-	-	0.12	U	-	-	0.18		-	-	0.51		-	-	3.9		-	-
Benzo(k)fluoranthene	0.8	1	3.9	56	110	-	-	0.12	U	-	-	0.066	J	-	-	0.18		-	-	1.4		-	-
Chrysene	1	1	3.9	56	110	-	-	0.12	U	-	-	0.13		-	-	0.53		-	-	2.7		-	-
Acenaphthylene	100	100	100	500	1000	-	-	0.16	U	-	-	0.14	U	-	-	0.05	J	-	-	0.39		-	-
Anthracene	100	100	100	500	1000	-	-	0.12	U	-	-	0.11	U	-	-	0.11		-	-	0.74		-	-
Benzo(ghi)perylene	100	100	100	500	1000	-	-	0.16	U	-	-	0.11	J	-	-	0.29		-	-	1.8		-	-
Fluorene	30	100	100	500	1000	-	-	0.2	U	-	-	0.18	U	-	-	0.054	J	-	-	0.31		-	-
Phenanthrene	100	100	100	500	1000	-	-	0.12	U	-	-	0.12		-	-	0.63		-	-	3.2		-	-
Dibenzo(a,h)anthracene	0.33	0.33	0.33	0.56	1.1	-	-	0.12	U	-	-	0.024	J	-	-	0.079	J	-	-	0.44		-	-
Indeno(1,2,3-cd)pyrene	0.5	0.5	0.5	5.6	11	-	-	0.16	U	-	-	0.086	J	-	-	0.27		-	-	2.1		-	-
Pyrene	100	100	100	500	1000	-	-	0.037	J	-	-	0.23		-	-	1		-	-	4		-	-
Dibenzofuran	7	14	59	350	1000	-	-	0.2	U	-	-	0.18	U	-	-	0.087	J	-	-	0.42		-	-
3-Methylphenol/4-Methylphenol	0.33	34	100	500	1000	-	-	0.28	U	-	-	0.26	U	-	-	0.27	U	-	-	0.26	U	-	-
Total Metals (mg/kg)																							
Arsenic, Total	13	16	16	16	16	-	-	3.86		-	-	7.15		-	-	5.73		-	-	14.6		-	-
Barium, Total	350	350	400	400	10000	-	-	90.5		-	-	192		-	-	44.6		-	-	101		-	-
Beryllium, Total	7.2	14	72	590	2700	-	-	0.548		-	-	0.751		-	-	0.295	J	-	-	0.454		-	-
Cadmium, Total	2.5	2.5	4.3	9.3	60	-	-	1.04		-	-	4.2		-	-	0.572	J	-	-	1.94		-	-
Chromium Total (assumed all Trivalent)	(1[a]/30[b])	(22[a]/36[b])	(110[a]/180[b])	(400[a]/1500[b])	(800[a]/6,800[b])	-	-	19.5		-	-	1510		-	-	7.78		-	-	20.5		-	-
Copper, Total	50	270	270	270	10000	-	-	24.1		-	-	200		-	-	50		-	-	494		-	-
Lead, Total	63	400	400	1000	3900	-	-	9.86		-	-	30.3		-	-	47.6		-	-	210		-	-
Manganese, Total	1600	2000	2000	10000	10000	-	-	451		-	-	38600		-	-	155		-	-	388		-	-
Mercury, Total	0.18	0.81	0.81	2.8	5.7	-	-	0.08	U	-	-	0.07	U	-	-	0.04	J	-	-	0.55		-	-
Nickel, Total	30	140	310	310	10000	-	-	25.4		-	-	72		-	-	9.83		-	-	34.7		-	-
Selenium, Total	3.9	36	180	1500	6800	-	-	1.89	U	-	-	8.23		-	-	0.777	J	-	-	0.737	J	-	-
Silver, Total	2	36	180	1500	6800	-	-	0.944	U	-	-	7.32		-	-	0.893	U	-	-	0.6	J	-	-
Zinc, Total	109	2200	10000	10000	10000	-	-	65.6		-	-	70.2		-	-	54.2		-	-	269		-	-
Volatile Organics by 8260/5035 (mg/kg)																							
1,1-Dichloroethane	0.27	19	26	240	480	0.09	U	-	-	0.086	U	-	-	0.17	U	-	-	0.18	U	-	-	0.2	U
Benzene	0.06	2.9	4.8	44	89	0.06	U	-	-	0.058	U	-	-	0.11 (Note 10)	U	-	-	0.12		-	-	0.36	
Toluene	0.7	100	100	500	1000	0.09	U	-	-	0.086	U	-	-	0.1	J	-	-	0.58		-	-	6.8	
Ethylbenzene	1	30	41	390	780	0.06	U	-	-	0.058	U	-	-	0.11	U	-	-	0.1	J	-	-	1.8	
Chloromethane	NV	NV	NV	NV	NV	0.3	U	-	-	0.29	U	-	-	0.56	U	-	-	0.61	U	-	-	0.073	J
Bromomethane	NV	NV	NV	NV	NV	0.028	J	-	-	0.024	J	-	-	0.075	J	-	-	0.24	U	-	-	0.26	U
trans-1,2-Dichloroethene	0.19	100	100	500	1000	0.09	U	-	-	0.086	U	-	-	0.17	U	-	-	0.18	U	-	-	0.2 (Note 10)	U
Trichloroethene	0.47	10	21	200	400	0.06	U	-	-	0.058	U	-	-	0.11	U	-	-	0.29		-	-	0.13	U
p/m-Xylene	NV	NV	NV	NV	NV	0.12	U	-	-	0.12	U	-	-	0.2	J	-	-	0.72		-	-	10	
o-Xylene	NV	NV	NV	NV	NV	0.12	U	-	-	0.12	U	-	-	0.11	J	-	-	0.39		-	-	6.3	
cis-1,2-Dichloroethene	0.25	59	100	500	1000	0.06	U	-	-	0.058	U	-	-	0.11	U	-	-	0.12	U	-	-	0.13	U
Acetone	0.05	100	100	500	1000	0.6 (Note 10)	U	-	-	0.58 (Note 10)	U	-	-	1.1 (Note 10)	U	-	-	1.2 (Note 10)	U	-	-	1.8	
Carbon disulfide	NV	100*	NV	NV	NV	0.6	U	-	-	0.58	U	-	-	1.1	U	-	-	1.2	U	-	-	1.3	U
n-Butylbenzene	12	100	100	500	1000	0.06	U	-	-	0.058	U	-	-	0.11	U	-	-	0.12	U	-	-	0.31	
sec-Butylbenzene	11	100	100	500	1000	0.06	U	-	-	0.058	U	-	-	0.11	U	-	-	0.031	J	-	-	0.24	
Isopropylbenzene	NV	100	NV	NV	NV	0.06	U	-	-	0.058	U	-	-	0.11	U	-	-	0.046	J	-	-	0.62	
p-Isopropyltoluene	NV	NV	NV	NV	NV	0.06	U	-	-	0.058	U	-	-	0.11	U	-	-	0.028	J	-	-	0.22	
Naphthalene	12	100	100	500	1000	0.3	U	-	-	0.29	U	-	-	0.064	J	-	-	0.22	J	-	-	5.4	
n-Propylbenzene	3.9	100	100	500	1000	0.06	U	-	-	0.058	U	-	-	0.11	U	-	-	0.053	J	-	-	0.96	
1,3,5-Trimethylbenzene	8.4	47	52	190	380	0.3	U	-	-	0.29	U	-	-	0.045	J	-	-	0.14	J	-	-	0.86	
1,2,4-Trimethylbenzene	3.6	47	52	190	380	0.3	U	-	-	0.29	U	-	-	0.095	J	-	-	0.32	J	-	-	3.7	
Methyl Acetate	NV	NV	NV	NV	NV	1.2	U	-	-	1.2	U	-	-	2.2	U	-	-	1.1	J	-	-	2.6	U
Cyclohexane	NV	NV	NV	NV	NV	1.2	U	-	-	1.2	U	-	-	0.29	J	-	-	0.32	J	-	-	7.2	
Methyl cyclohexane	NV	NV	NV	NV	NV	0.24	U	-	-	0.23	U	-	-	0.81		-	-	1.3		-	-	19	

Notes:
1. Compounds detected in one or more samples are presented on this table. Refer to Appendix C for a list of all compounds included in the analysis.
2. Analytical testing completed by Alpha Analytical in Westborough, MA.
3. ug/kg = parts per billion. mg/kg = parts per million. ft. bgs = feet below ground surface.
4. U Qualifier = not detected at a concentration at or above the laboratory's method detection limit. Method detection limit is indicated.
5. Part 375 Soil Cleanup Objectives are from 6 NYCRR Part 375, effective December 14, 2006, values current as of May 2007.
6. NL = Not Listed. NV = No Value.
7. J = Indicates an estimated value.
8. * Supplemental Soil Cleanup Objective for Residential Use, from NYSDEC CP-51 Soil Cleanup Guidance, Table 1, issued October 21, 2010.
9. "-" = Not Tested
10. Method detection limit exceeded Part 375 Unrestricted Criteria
11. [a] = hexavalent chromium
12. [b] = trivalent chromium
13. Results shown for SP-5-1 and SP-5-1-8 are the higher of the initial result or their respective duplicate sample.
14. Results shown for SS-3 are the higher of the initial result or its respective duplicate sample.

Table 2
Soil Analytical Testing Results Summary
Pierce Arrow Apartments
157 Great Arrow Avenue
Buffalo, New York

LOCATION						SP-11-0.5-4.5-071117		SP-12-1.5-071117		SP-12-0-3-071117		SP-13-4.5-071117		SP-13-0-4.5-071117		SS-1-071117		SS-2-071117		SS-3-071117		SS-4-071117	
SAMPLING DATE						7/11/2017		7/11/2017		7/11/2017		7/11/2017		7/11/2017		7/11/2017		7/11/2017		7/11/2017		7/11/2017	
LAB SAMPLE ID						L1723613-19		L1723613-20		L1723613-21		L1723613-22		L1723613-23		L1723613-27		L1723613-28		L1723613-29		L1723613-30	
	Part 375 Soil Cleanup Objectives Unrestricted	Part 375 Soil Cleanup Objectives Residential	Part 375 Soil Cleanup Objectives Restricted Residential	Part 375 Soil Cleanup Objectives Commercial	Part 375 Soil Cleanup Objectives Industrial	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual
General Chemistry																							
Solids, Total (%)						85.4		79		77.4		72.8		77.3		83.7		84.3		91.4		97.4	
Cyanide, Total (mg/kg)	*27*	**27**	**27**	**27**	**10000**	2.2	U	-	-	1.6		-	-	1.2	U	0.8	J	0.35	J	0.24	J	0.27	J
Polychlorinated Biphenyls by GC (mg/kg)																							
Aroclor 1254	*0.1*	**1**	**1**	**1**	**25**	0.0383	U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor 1260	*0.1*	**1**	**1**	**1**	**25**	0.0383	U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PCBs, Total						0.0383	U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Semivolatile Organics by GC/MS (mg/kg)																							
Acenaphthene	*20*	**100**	**100**	**500**	**1000**	0.15	U	-	-	0.047	J	-	-	0.17	U	0.92		0.023	J	0.08	J	0.67	
Fluoranthene	*100*	**100**	**100**	**500**	**1000**	0.28		-	-	0.83		-	-	0.24		7.3		0.36		1.2		5.8	
Naphthalene	*12*	**100**	**100**	**500**	**1000**	0.54		-	-	0.51		-	-	0.11	J	0.32		0.031	J	0.16	J	0.73	
Benzo(a)anthracene	*1*	**1**	**1**	**5.6**	**11**	0.19		-	-	0.39		-	-	0.28		**3.6**		0.18		0.46		**2.4**	
Benzo(a)pyrene	*1*	**1**	**1**	**1**	**1.1**	0.15		-	-	0.35		-	-	0.1	J	**2.7**		0.16		0.34		**1.5**	
Benzo(b)fluoranthene	*1*	**1**	**1**	**5.6**	**11**	0.21		-	-	0.52		-	-	0.12	J	**3.6**		0.23		0.5		**2.4**	
Benzo(k)fluoranthene	*0.8*	**1**	**3.9**	**56**	**110**	0.056	J	-	-	0.16		-	-	0.035	J	**1.2**		0.068	J	0.17		0.67	
Chrysene	*1*	**1**	**3.9**	**56**	**110**	0.27		-	-	0.44		-	-	0.26		**3.1**		0.17		0.46		**2.4**	
Acenaphthylene	*100*	**100**	**100**	**500**	**1000**	0.15	U	-	-	0.17	U	-	-	0.17	U	0.038	J	0.16	U	0.14	U	0.026	J
Anthracene	*100*	**100**	**100**	**500**	**1000**	0.04	J	-	-	0.11	J	-	-	0.14		1.8		0.05	J	0.17	J	1.1	
Benzo(ghi)perylene	*100*	**100**	**100**	**500**	**1000**	0.13	J	-	-	0.19		-	-	0.063	J	1.3		0.11	J	0.28		0.98	
Fluorene	*30*	**100**	**100**	**500**	**1000**	0.033	J	-	-	0.063	J	-	-	0.21	U	0.98		0.022	J	0.067	J	0.57	
Phenanthrene	*100*	**100**	**100**	**500**	**1000**	0.41		-	-	0.82		-	-	0.15		6.4		0.23		0.8		6	
Dibenzo(a,h)anthracene	*0.33*	**0.33**	**0.33**	**0.56**	**1.1**	0.038	J	-	-	0.06	J	-	-	0.13	U	**0.38**		0.032	J	0.073	J	0.26	
Indeno(1,2,3-cd)pyrene	*0.5*	**0.5**	**0.5**	**5.6**	**11**	0.11	J	-	-	0.21		-	-	0.055	J	**1.6**		0.13	J	0.27		**1.1**	
Pyrene	*100*	**100**	**100**	**500**	**1000**	0.29		-	-	0.69		-	-	0.7		5.9		0.29		0.93		4.6	
Dibenzofuran	*7*	**14**	**59**	**350**	**1000**	0.18	J	-	-	0.2	J	-	-	0.21	U	0.58		0.02	J	0.049	J	0.56	
3-Methylphenol/4-Methylphenol	*0.33*	**34**	**100**	**500**	**1000**	0.28	U	-	-	0.31	U	-	-	0.14	J	0.28	U	0.28	U	0.26	U	0.24	U
Total Metals (mg/kg)																							
Arsenic, Total	*13*	**16**	**16**	**16**	**16**	**52.7**		-	-	*14.3*		-	-	11		5.38		5.71		3.61		3.3	
Barium, Total	*350*	**350**	**400**	**400**	**10000**	76.7		-	-	101		-	-	67.3		110		102		69.6		49.4	
Beryllium, Total	*7.2*	**14**	**72**	**590**	**2700**	0.427	J	-	-	0.596		-	-	0.494	J	0.474		0.492		0.563		0.232	J
Cadmium, Total	*2.5*	**2.5**	**4.3**	**9.3**	**60**	1.97		-	-	1.52		-	-	1.03		1.26		1.18		0.811	J	0.625	J
Chromium Total (assumed all Trivalent)	*(1[a]/30[b])*	**(22[a]/36[b])**	**(110[a]/180[b])**	**(400[a]/1500[b])**	**(800[a]/6,800[b])**	17.3		-	-	**45.8**		-	-	**66.6**		26.6		**277**		12.6		11.5	
Copper, Total	*50*	**270**	**270**	**270**	**10000**	49.5		-	-	*268*		-	-	*202*		45		48.6		33.9		18.8	
Lead, Total	*63*	**400**	**400**	**1000**	**3900**	29.8		-	-	*200*		-	-	*69.7*		57		51.1		32.4		12.3	
Manganese, Total	*1600*	**2000**	**2000**	**10000**	**10000**	87.3		-	-	452		-	-	756		677		642		499		305	
Mercury, Total	*0.18*	**0.81**	**0.81**	**2.8**	**5.7**	0.05	J	-	-	0.16		-	-	0.04	J	0.05	J	0.05	J	0.03	J	0.03	J
Nickel, Total	*30*	**140**	**310**	**310**	**10000**	8.96		-	-	21.6		-	-	22.1		23.2		**482**		11.5		13	
Selenium, Total	*3.9*	**36**	**180**	**1500**	**6800**	1.88		-	-	1.05	J	-	-	1.76	J	1.89	U	0.647	J	0.914	J	1.6	U
Silver, Total	*2*	**36**	**180**	**1500**	**6800**	0.267	J	-	-	0.339	J	-	-	0.494	J	0.398	J	0.355	J	0.256	J	0.801	U
Zinc, Total	*109*	**2200**	**10000**	**10000**	**10000**	41.6		-	-	*234*		-	-	85.9		*135*		96.6		95.8		59.8	
Volatile Organics by 8260/5035 (mg/kg)																							
1,1-Dichloroethane	*0.27*	**19**	**26**	**240**	**480**	-	-	0.14	U	-	-	0.15	J	-	-	-	-	-	-	-	-	-	-
Benzene	*0.06*	**2.9**	**4.8**	**44**	**89**	-	-	*0.096* (Note 10)	U	-	-	*0.068*	J	-	-	-	-	-	-	-	-	-	-
Toluene	*0.7*	**100**	**100**	**500**	**1000**	-	-	0.022	J	-	-	0.16	J	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	*1*	**30**	**41**	**390**	**780**	-	-	0.096	U	-	-	0.061	J	-	-	-	-	-	-	-	-	-	-
Chloromethane	*NV*	**NV**	**NV**	**NV**	**NV**	-	-	0.48	U	-	-	0.91	U	-	-	-	-	-	-	-	-	-	-
Bromomethane	*NV*	**NV**	**NV**	**NV**	**NV**	-	-	0.19	U	-	-	0.36	U	-	-	-	-	-	-	-	-	-	-
trans-1,2-Dichloroethene	*0.19*	**100**	**100**	**500**	**1000**	-	-	0.14	U	-	-	0.064	J	-	-	-	-	-	-	-	-	-	-
Trichloroethene	*0.47*	**10**	**21**	**200**	**400**	-	-	0.043	J	-	-	**23**		-	-	-	-	-	-	-	-	-	-
p/m-Xylene	*NV*	**NV**	**NV**	**NV**	**NV**	-	-	0.039	J	-	-	0.37		-	-	-	-	-	-	-	-	-	-
o-Xylene	*NV*	**NV**	**NV**	**NV**	**NV**	-	-	0.04	J	-	-	0.12	J	-	-	-	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	*0.25*	**59**	**100**	**500**	**1000**	-	-	0.096	U	-	-	*0.73*		-	-	-	-	-	-	-	-	-	-
Acetone	*0.05*	**100**	**100**	**500**	**1000**	-	-	*0.32*	J	-	-	*0.64*	J	-	-	-	-	-	-	-	-	-	-
Carbon disulfide	*NV*	**100***	**NV**	**NV**	**NV**	-	-	0.15	J	-	-	0.31	J	-	-	-	-	-	-	-	-	-	-
n-Butylbenzene	*12*	**100**	**100**	**500**	**1000**	-	-	0.096	U	-	-	0.18	U	-	-	-	-	-	-	-	-	-	-
sec-Butylbenzene	*11*	**100**	**100**	**500**	**1000**	-	-	0.096	U	-	-	0.18	U	-	-	-	-	-	-	-	-	-	-
Isopropylbenzene	*NV*	**100**	**NV**	**NV**	**NV**	-	-	0.096	U	-	-	0.18	U	-	-	-	-	-	-	-	-	-	-
p-Isopropyltoluene	*NV*	**NV**	**NV**	**NV**	**NV**	-	-	0.096	U	-	-	0.18	U	-	-	-	-	-	-	-	-	-	-
Naphthalene	*12*	**100**	**100**	**500**	**1000**	-	-	0.04	J	-	-	0.91	U	-	-	-	-	-	-	-	-	-	-
n-Propylbenzene	*3.9*	**100**	**100**	**500**	**1000**	-	-	0.096	U	-	-	0.18	U	-	-	-	-	-	-	-	-	-	-
1,3,5-Trimethylbenzene	*8.4*	**47**	**52**	**190**	**380**	-	-	0.017	J	-	-	0.077	J	-	-	-	-	-	-	-	-	-	-
1,2,4-Trimethylbenzene	*3.6*	**47**	**52**	**190**	**380**	-	-	0.032	J	-	-	0.22	J	-	-	-	-	-	-	-	-	-	-
Methyl Acetate	*NV*	**NV**	**NV**	**NV**	**NV**	-	-	0.42	J	-	-	0.57	J	-	-	-	-	-	-	-	-	-	-
Cyclohexane	*NV*	**NV**	**NV**	**NV**	**NV**	-	-	0.088	J	-	-	3.6	U	-	-	-	-	-	-	-	-	-	-
Methyl cyclohexane	*NV*	**NV**	**NV**	**NV**	**NV**	-	-	0.34	J	-	-	0.22	J	-	-	-	-	-	-	-	-	-	-

Notes:
1. Compounds detected in one or more samples are presented on this table. Refer to Appendix C for a list of all compounds included in the analysis.
2. Analytical testing completed by Alpha Analytical in Westborough, MA.
3. ug/kg = parts per billion. mg/kg = parts per million. ft. bgs = feet below ground surface.
4. U Qualifier = not detected at a concentration at or above the laboratory's method detection limit. Method detection limit is indicated.
5. Part 375 Soil Cleanup Objectives are from 6 NYCRR Part 375, effective December 14, 2006, values current as of May 2007.
6. NL = Not Listed. NV = No Value.
7. J = Indicates an estimated value.
8. * Supplemental Soil Cleanup Objective for Residential Use, from NYSDEC CP-51 Soil Cleanup Guidance, Table 1, issued October 21, 2010.
9. "-" = Not Tested
10. Method detection limit exceeded Part 375 Unrestricted Criteria
11. [a] = hexavalent chromium
12. [b] = trivalent chromium
13. Results shown for SP-5-1 and SP-5-1-8 are the higher of the initial result or their respective duplicate sample.
14. Results shown for SS-3 are the higher of the initial result or its respective duplicate sample.

Table 3

Groundwater Analytical Testing Results Summary
Pierce Arrow Apartments
157 Great Arrow Avenue
Buffalo, New York

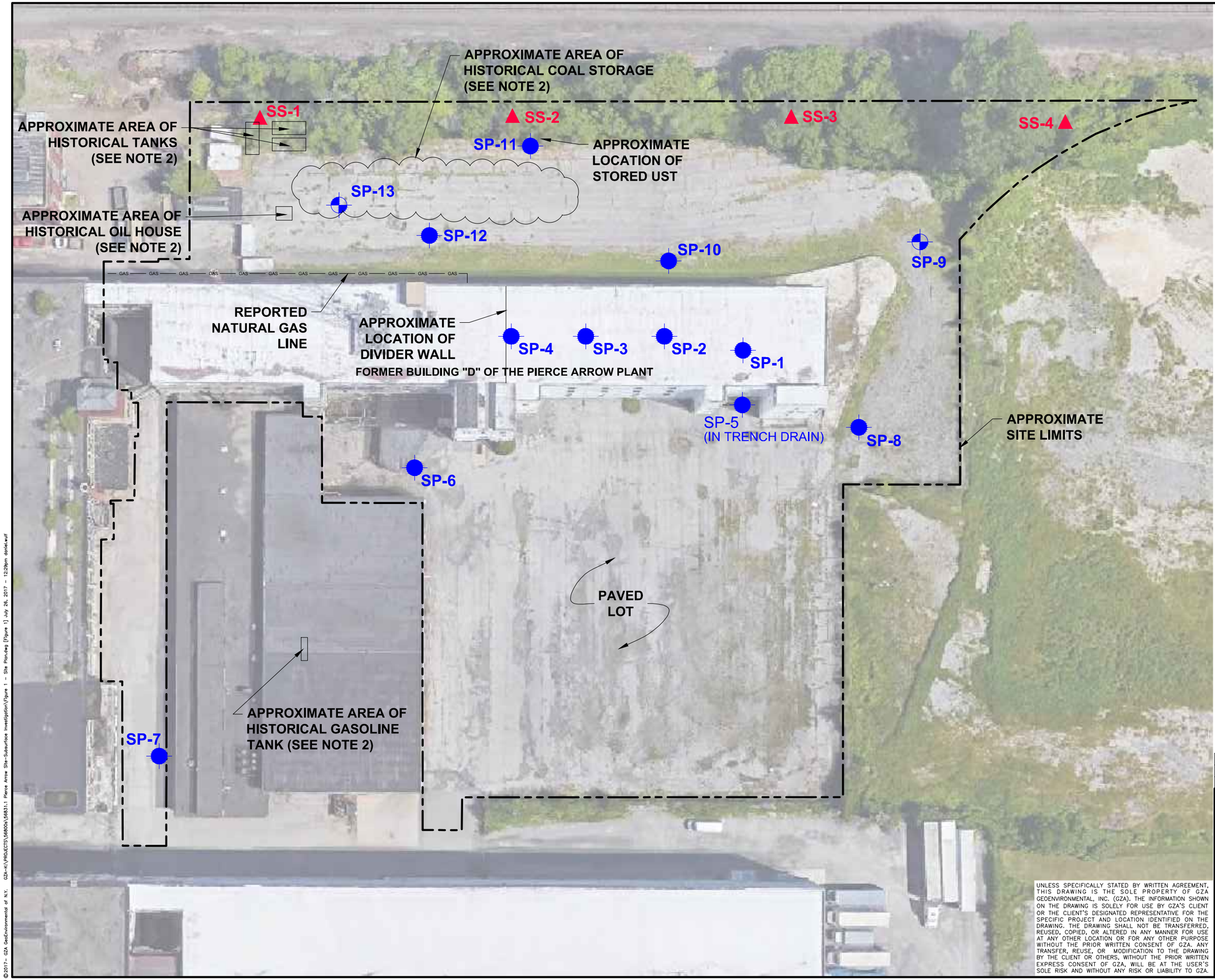
Parameter	Class GA Groundwater Standard or Guidance Value	SP-9-GW 7/11/2017	SP-13-GW 7/11/2017
Volatile Organic Compounds - EPA Method 8260 TCL + CP-51 (ug/L)			
Acetone	50	< 1.5	9.3
1,1-Dichloroethane	5	< 0.7	3.2
cis-1,2-Dichloroethene	5	0.96 J	2.3 J
Methylcyclohexane	NV	< 0.4	0.54 J
Trichloroethene	5	0.29 J	28
Polycyclic Aromatic Hydrocarbons - EPA Method 8270 (ug/L)			
Acenaphthylene	NV	0.07 J	14 J
Anthracene	50	0.1	71
Benzo(a)anthracene	0.002	0.52	120
Benzo(a)pyrene	Non-Detect	0.59	36
Benzo(b)fluoranthene	0.002	0.86	28
Benzo(g,h,i)perylene	NV	0.55	23
Benzo(k)fluoranthene	0.002	0.29	< 8.4*
Chrysene	0.002	0.63	140
Dibenzo(a,h)anthracene	NV	0.11	< 7.8
Fluoranthene	50	0.93	70
Fluorene	50	0.04 J	< 7.4
Indeno(1,2,3-cd)pyrene	0.002	0.53	9.4 J
Phenanthrene	50	0.41	< 3
Pyrene	50	0.9	390

= Analyte detected at a concentration at or above the Class GA Groundwater Standard or Guidance Value.

Notes:

1. Compounds detected in one or more samples are presented on this table. Refer to Appendix C for a list of all compounds included in the analysis.
2. Analytical testing completed by Alpha Analytical in Westborough, MA.
3. ug/L = parts per billion.
4. < = not detected at a concentration at or above the laboratory's method detection limit. Method Standards and Guidance Values and detection limit is indicated.
5. Class GA Groundwater Standards and Guidance Values are from NYSDEC Ambient Water Quality Groundater Effluent Limitations, effective June 2008.
6. NV = No Value.
7. * - Method Detection Limit exceeded criterion.

Figures



N

W E

S

LEGEND:

SP-1 — APPROXIMATE LOCATION AND DESIGNATION OF SOIL PROBE COMPLETED ON JULY 11, 2017

SP-9 — APPROXIMATE LOCATION AND DESIGNATION OF SOIL PROBE WITH TEMPORARY 1-INCH MICROWELL INSTALLED ON JULY 11, 2017

SS-1 — APPROXIMATE LOCATION AND DESIGNATION OF SURFACE SOIL SAMPLE COLLECTED ON JULY 11, 2017

NOTES:

1. BASE MAP DEVELOPED FROM A 2016 AERIAL PHOTOGRAPH DOWNLOADED FROM GOOGLE EARTH PRO AND FIELD OBSERVATIONS.

2. HISTORICAL FEATURES DEPICTED ON THIS FIGURE ARE BASED ON A SITE PLAN PROVIDED BY THE SITE CONTACT, ON THE DAY OF INVESTIGATION FOR UTILITY CLEARING PURPOSES.

3. THE SIZE AND LOCATION OF EXISTING AND FORMER SITE FEATURES SHOULD BE CONSIDERED APPROXIMATE.

0 30 60 120

APPROXIMATE SCALE IN FEET

NO.	ISSUE/DESCRIPTION	BY	DATE

PIERCE ARROW APARTMENTS SITE
GREAT ARROW AVENUE
BUFFALO, NEW YORK

SUBSURFACE INVESTIGATION

SITE INVESTIGATION PLAN

PREPARED BY:
GZA GeoEnvironmental of N.Y.
Engineers and Scientists
535 WASHINGTON STREET 11th FLOOR
BUFFALO, NEW YORK 14203
(716) 685-2300

PREPARED FOR:
GREAT ARROW ESTATES, LLC.

PROJ MGR: JJR	REVIEWED BY: JJR	CHECKED BY: BAK	FIGURE 1
DESIGNED BY: TB	DRAWN BY: DEW	SCALE: AS SHOWN	
DATE JULY 2017	PROJECT NO. 21.0056831.10	REVISION NO.	

Appendix A – Limitations

USE OF REPORT

1. GZA GeoEnvironmental, Inc. (GZA) prepared this report on behalf of, and for the exclusive use of our Client for the stated purpose(s) and location(s) identified in the Proposal for Services and/or Report. Use of this report, in whole or in part, at other locations, or for other purposes, may lead to inappropriate conclusions; and we do not accept any responsibility for the consequences of such use(s). Further, reliance by any party not expressly identified in the agreement, for any use, without our prior written permission, shall be at that party's sole risk, and without any liability to GZA.

STANDARD OF CARE

2. GZA's findings and conclusions are based on the work conducted as part of the Scope of Services set forth in the Proposal for Services and/or Report and reflect our professional judgment. These findings and conclusions must be considered not as scientific or engineering certainties, but rather as our professional opinions concerning the limited data gathered during the course of our work. Conditions other than described in this report may be found at the subject location(s).

3. GZA's services were performed using the degree of skill and care ordinarily exercised by qualified professionals performing the same type of services, at the same time, under similar conditions, at the same or a similar property. No warranty, expressed or implied, is made. Specifically, GZA does not and cannot represent that the Site contains no hazardous material, oil, or other latent condition beyond that observed by GZA during its study. Additionally, GZA makes no warranty that any response action or recommended action will achieve all of its objectives or that the findings of this study will be upheld by a local, state or federal agency.

4. In conducting our work, GZA relied upon certain information made available by public agencies, Client and/or others. GZA did not attempt to independently verify the accuracy or completeness of that information. Inconsistencies in this information which we have noted, if any, are discussed in the Report.

SUBSURFACE CONDITIONS

5. The generalized soil profile(s) provided in our Report are based on widely-spaced subsurface explorations and are intended only to convey trends in subsurface conditions. The boundaries between strata are approximate and idealized, and were based on our assessment of subsurface conditions. The composition of strata, and the transitions between strata, may be more variable and more complex than indicated. For more specific information on soil conditions at a specific location refer to the exploration logs. The nature and extent of variations between these explorations may not become evident until further exploration or construction. If variations or other latent conditions then become evident, it will be necessary to reevaluate the conclusions and recommendations of this report.

6. Water level readings have been made, as described in this Report, in and monitoring wells at the specified times and under the stated conditions. These data have been reviewed and interpretations have been made in this report. Fluctuations in the level of the groundwater however occur due to temporal or spatial variations in areal recharge rates, soil heterogeneities, the presence of subsurface utilities, and/or natural or artificially induced perturbations. The observed water table may be other than indicated in the Report.

COMPLIANCE WITH CODES AND REGULATIONS

7. We used reasonable care in identifying and interpreting applicable codes and regulations necessary to execute our scope of work. These codes and regulations are subject to various, and possibly contradictory, interpretations. Interpretations and compliance with codes and regulations by other parties is beyond our control.

SCREENING AND ANALYTICAL TESTING

8. GZA collected environmental samples at the locations identified in the Report. These samples were analyzed for the specific parameters identified in the report. Additional constituents, for which analyses were not conducted, may be present in soil, groundwater, surface water, sediment and/or air. Future Site activities and uses may result in a requirement for additional testing.

9. Our interpretation of field screening and laboratory data is presented in the Report. Unless otherwise noted, we relied upon the laboratory's QA/QC program to validate these data.

10. Variations in the types and concentrations of contaminants observed at a given location or time may occur due to release mechanisms, disposal practices, changes in flow paths, and/or the influence of various physical, chemical, biological or radiological processes. Subsequently observed concentrations may be other than indicated in the Report.

INTERPRETATION OF DATA

11. Our opinions are based on available information as described in the Report, and on our professional judgment. Additional observations made over time, and/or space, may not support the opinions provided in the Report.

ADDITIONAL INFORMATION

12. In the event that the Client or others authorized to use this report obtain additional information on environmental or hazardous waste issues at the Site not contained in this report, such information shall be brought to GZA's attention forthwith. GZA will evaluate such information and, on the basis of this evaluation, may modify the conclusions stated in this report.

ADDITIONAL SERVICES

13. GZA recommends that we be retained to provide services during any future investigations, design, implementation activities, construction, and/or property development/ redevelopment at the Site. This will allow us the opportunity to: i) observe conditions and compliance with our design concepts and opinions; ii) allow for changes in the event that conditions are other than anticipated; iii) provide modifications to our design; and iv) assess the consequences of changes in technologies and/or regulations.

Appendix B – Soil Probe Logs and Provided Historical Plans

157 Great Arrow Avenue
Buffalo, New York
Subsurface Investigation

CONTRACTOR	TREC Environmental, Inc.	BORING LOCATION	See Site Plan
DRILLER	James Agar	GROUND SURFACE ELEVATION	NM DATUM NA
START DATE	7/11/2017 END DATE: 7/11/2017	GZA GEOENVIRONMENTAL REPRESENTATIVE	Thomas Bohlen

WATER LEVEL DATA

DATE	TIME	WATER	CASING

TYPE OF DRILL RIG	Track Mounted Geoprobe 6620 UT
CASING SIZE AND DIAMETER	2" diameter by 48" long
OVERBURDEN SAMPLING METHOD	Direct Push
ROCK DRILLING METHOD	NA

DEPTH	Sample Number	DEPTH (FT BGS)	RECOVERY (%)	SAMPLE DESCRIPTION	NOTES	OVM (ppm)
0	1	0-2	70	Wood block pavers (4-inches), Concrete (4-inches).	Soil probe installed in area of exposed wooden pavers.	0.0
2	2	2-4	70	NATIVE: Brown Silty CLAY, trace Gravel, trace Sand, moist.		0.0
4	3	4-6	100			0.0
6	4	6-8	100			0.0
8				End of soil probe at 8 ft. bgs.		

S - Split Spoon Sample
C - Rock Core Sample

NOTES: MiniRAE 3000 was used to field screen and headspace soil samples.
FT BGS = feet below ground surface. ppm = parts per million.

General Notes:
1) Stratification lines represent approximate boundry between soil types, transitions may be gradual.
2) Water level readings have been made at times and under conditions stated, fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

157 Great Arrow Avenue
Buffalo, New York
Subsurface Investigation

CONTRACTOR	TREC Environmental, Inc.	BORING LOCATION	See Site Plan
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WATER LEVEL DATA

DATE	TIME	WATER	CASING

TYPE OF DRILL RIG	Track Mounted Geoprobe 6620 UT
CASING SIZE AND DIAMETER	2" diameter by 48" long
OVERBURDEN SAMPLING METHOD	Direct Push
ROCK DRILLING METHOD	NA

DEPTH	Sample Number	DEPTH (FT BGS)	RECOVERY (%)	SAMPLE DESCRIPTION	NOTES	OVM (ppm)
	1	0-2	80	Concrete (10-inches).		0.0
1						
				NATIVE: Brown Silty CLAY, trace Gravel, trace Sand, moist.		
2						
	2	2-4	80			0.0
3						
4				Grades to: Gray.		
	3	4-6	100	Grades to: Brown.		0.0
5						
6						
	4	6-8	100			0.0
7						
8						
				End of soil probe at 8 ft. bgs.		
9						
10						
11						
12						
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14						
15						
16						
17						
18						
19						
20						

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DEPTH	Sample Number	DEPTH (FT BGS)	RECOVERY (%)	SAMPLE DESCRIPTION	NOTES	OVM (ppm)
	1	0-2	80	Concrete (10-inches).		0.0
1						
				NATIVE: Brown Silty CLAY, trace Gravel, trace Sand, moist.		
2						
	2	2-4	80			0.0
3						
4						
	3	4-6	100			0.0
5						
6						
	4	6-8	100			0.0
7						
8						
				End of soil probe at 8 ft. bgs.		
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ROCK DRILLING METHOD	NA

DEPTH	Sample Number	DEPTH (FT BGS)	RECOVERY (%)	SAMPLE DESCRIPTION	NOTES	OVM (ppm)
	1	0-2	70	Concrete (10-inches).		0.0
1						
				NATIVE: Brown Silty CLAY, trace Gravel, trace Sand, moist.		
2						
	2	2-4	70			0.0
3						
4						
	3	4-6	100			0.0
5						
6						
	4	6-8	100			0.0
7						
8						
				End of soil probe at 8 ft. bgs.		
9						
10						
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12						
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TYPE OF DRILL RIG	Track Mounted Geoprobe 6620 UT
CASING SIZE AND DIAMETER	2" diameter by 48" long
OVERBURDEN SAMPLING METHOD	Direct Push
ROCK DRILLING METHOD	NA

DEPTH	Sample Number	DEPTH (FT BGS)	RECOVERY (%)	SAMPLE DESCRIPTION	NOTES	OVM (ppm)
	1	0-2	50	Trench drain (10-inches deep).	Soil probe conducted	0.0
1				Concrete (3-inches).	in trench drain outside	
				NATIVE: Brown Silty CLAY, trace Gravel, trace Sand, moist.	of southeastern	
2					overhead door.	
	2	2-4	50			0.0
3						
4						
	3	4-6	100			0.0
5						
6						
	4	6-8	100			0.0
7						
8						
				End of soil probe at 8 ft. bgs.		
9						
10						
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OVERBURDEN SAMPLING METHOD	Direct Push
ROCK DRILLING METHOD	NA

DEPTH	Sample Number	DEPTH (FT BGS)	RECOVERY (%)	SAMPLE DESCRIPTION	NOTES	OVM (ppm)
	1	0-2	90	FILL: Brown/Black/Gray SAND and GRAVEL, little Silt, moist.		0.0
1						
				NATIVE: Brown Silty CLAY, trace Gravel, trace Sand, moist.		
2						
	2	2-4	90			0.0
3						
4						
	3	4-6	100			0.0
5						
6						
	4	6-8	100			0.0
7						
8						
				End of soil probe at 8 ft. bgs.		
9						
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DATE	TIME	WATER	CASING

TYPE OF DRILL RIG	Track Mounted Geoprobe 6620 UT
CASING SIZE AND DIAMETER	2" diameter by 48" long
OVERBURDEN SAMPLING METHOD	Direct Push
ROCK DRILLING METHOD	NA

DEPTH	Sample Number	DEPTH (FT BGS)	RECOVERY (%)	SAMPLE DESCRIPTION	NOTES	OVM (ppm)
	1	0-2	40	Asphalt (2-inches) and Concrete (4-inches).		0.0
1				NATIVE: Brown Silty CLAY, trace Gravel, trace Silt, moist.		
2						
	2	2-4	40			0.0
3						
4						
	3	4-6	100			0.0
5						
6						
	4	6-8	100			0.0
7						
8						
				End of soil probe at 8 ft. bgs.		
9						
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DEPTH	Sample Number	DEPTH (FT BGS)	RECOVERY (%)	SAMPLE DESCRIPTION	NOTES	OVM (ppm)
	1	0-2	90	FILL: Brown/Gray/Black SAND and GRAVEL, trace Silt, moist.		0.0
1						
				NATIVE: Brown Silty CLAY, trace Gravel, trace Sand, moist.		
2						
	2	2-4	90			0.0
3						
4						
	3	4-6	100			0.0
5						
6						
	4	6-8	100			0.0
7						
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CASING SIZE AND DIAMETER	2" diameter by 48" long
OVERBURDEN SAMPLING METHOD	Direct Push
ROCK DRILLING METHOD	NA

DEPTH	Sample Number	DEPTH (FT BGS)	RECOVERY (%)	SAMPLE DESCRIPTION	NOTES	OVM (ppm)
	1	0-2	60	FILL: Brown/Black/Gray SAND, some Gravel, trace Silt, trace	Temporary 1-inch	0.0
1				Brick, trace Glass, moist.	microwell installed.	
2					- Bottom of Well at	
	2	2-4	60		16 ft. bgs.	0.0
3						
					- Screened from 6 to	
4					16 ft. bgs.	
	3	4-6	40	Grades to: Black.		0.0
5						
6						
	4	6-8	40			0.0
7						
8						
	5	8-10	50			0.0
9						
10						
	6	10-12	50			0.0
11						
				Grades to: wet.		
12						
	7	12-14	100			0.0
13						
				NATIVE: Brown Silty CLAY, trace Gravel, trace Sand, moist.		
14						
	8	14-16	100			0.0
15						
16						
				End of soil probe at 16 ft. bgs.		
17						
18						
19						
20						

S - Split Spoon Sample
C - Rock Core Sample

NOTES: MiniRAE 3000 was used to field screen and headspace soil samples.
FT BGS = feet below ground surface. ppm = parts per million.

General Notes:
1) Stratification lines represent approximate boundry between soil types, transitions may be gradual.
2) Water level readings have been made at times and under conditions stated, fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

157 Great Arrow Avenue
Buffalo, New York
Subsurface Investigation

CONTRACTOR	TREC Environmental, Inc.	BORING LOCATION	See Site Plan
DRILLER	James Agar	GROUND SURFACE ELEVATION	NM DATUM NA
START DATE	7/11/2017 END DATE: 7/11/2017	GZA GEOENVIRONMENTAL REPRESENTATIVE	Thomas Bohlen

WATER LEVEL DATA

DATE	TIME	WATER	CASING

TYPE OF DRILL RIG	Track Mounted Geoprobe 6620 UT
CASING SIZE AND DIAMETER	2" diameter by 48" long
OVERBURDEN SAMPLING METHOD	Direct Push
ROCK DRILLING METHOD	NA

DEPTH	Sample Number	DEPTH (FT BGS)	RECOVERY (%)	SAMPLE DESCRIPTION	NOTES	OVM (ppm)
	1	0-2	80	FILL: Black SAND, little Gravel, trace Brick, moist.		0.0
1						
2						
	2	2-4	80			0.0
3						
4						
	3	4-6	100			0.0
5				NATIVE: Brown Silty CLAY, trace Gravel, trace Sand, moist.		
6						
	4	6-8	100			0.0
7						
8						
				End of soil probe at 8 ft. bgs.		
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						

S - Split Spoon Sample
C - Rock Core Sample

NOTES: MiniRAE 3000 was used to field screen and headspace soil samples.
FT BGS = feet below ground surface. ppm = parts per million.

General Notes:
1) Stratification lines represent approximate boundry between soil types, transitions may be gradual.
2) Water level readings have been made at times and under conditions stated, fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

CONTRACTOR	TREC Environmental, Inc.	BORING LOCATION	See Site Plan
DRILLER	James Agar	GROUND SURFACE ELEVATION	NM DATUM NA
START DATE	7/11/2017 END DATE: 7/11/2017	GZA GEOENVIRONMENTAL REPRESENTATIVE	Thomas Bohlen

WATER LEVEL DATA

DATE	TIME	WATER	CASING

TYPE OF DRILL RIG	Track Mounted Geoprobe 6620 UT
CASING SIZE AND DIAMETER	2" diameter by 48" long
OVERBURDEN SAMPLING METHOD	Direct Push
ROCK DRILLING METHOD	NA

DEPTH	Sample Number	DEPTH (FT BGS)	RECOVERY (%)	SAMPLE DESCRIPTION	NOTES	OVM (ppm)
	1	0-2	90	Asphalt (2-inches). FILL: Brown/Gray/Black SAND, little Gravel, trace Silt, moist.	Soil probe conducted near present AST on northern portion of Site.	0.0
1						
2						
	2	2-4	90			0.0
3						
4						
	3	4-6	100			0.0
5				NATIVE: Brown Silty CLAY, trace Gravel, trace Sand, moist.		
6						
	4	6-8	100			0.0
7						
8						
				End of soil probe at 8 ft. bgs.		
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						

S - Split Spoon Sample
C - Rock Core Sample

NOTES: MiniRAE 3000 was used to field screen and headspace soil samples.
FT BGS = feet below ground surface. ppm = parts per million.

General Notes:
1) Stratification lines represent approximate boundry between soil types, transitions may be gradual.
2) Water level readings have been made at times and under conditions stated, fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

157 Great Arrow Avenue
Buffalo, New York
Subsurface Investigation

CONTRACTOR	TREC Environmental, Inc.	BORING LOCATION	See Site Plan
DRILLER	James Agar	GROUND SURFACE ELEVATION	NM DATUM NA
START DATE	7/11/2017 END DATE: 7/11/2017	GZA GEOENVIRONMENTAL REPRESENTATIVE	Thomas Bohlen

WATER LEVEL DATA

DATE	TIME	WATER	CASING

TYPE OF DRILL RIG	Track Mounted Geoprobe 6620 UT
CASING SIZE AND DIAMETER	2" diameter by 48" long
OVERBURDEN SAMPLING METHOD	Direct Push
ROCK DRILLING METHOD	NA

DEPTH	Sample Number	DEPTH (FT BGS)	RECOVERY (%)	SAMPLE DESCRIPTION	NOTES	OVM (ppm)
	1	0-2	60	FILL: Black SAND, little Gravel, trace Silt, moist.	Soil probe moved approximately 30 ft. north of Site building due to presence of natural gas line.	0.0
1						
2						
	2	2-4	60			0.0
3						
				NATIVE: Brown Silty CLAY, trace Gravel, trace Sand, moist.		
4						
	3	4-6	100			0.0
5						
6						
	4	6-8	100			0.0
7						
8						
				End of soil probe at 8 ft. bgs.		
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						

S - Split Spoon Sample
C - Rock Core Sample

NOTES: MiniRAE 3000 was used to field screen and headspace soil samples.
FT BGS = feet below ground surface. ppm = parts per million.

General Notes:
1) Stratification lines represent approximate boundry between soil types, transitions may be gradual.
2) Water level readings have been made at times and under conditions stated, fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

CONTRACTOR	TREC Environmental, Inc.	BORING LOCATION	See Site Plan
DRILLER	James Agar	GROUND SURFACE ELEVATION	NM DATUM NA
START DATE	7/11/2017 END DATE: 7/11/2017	GZA GEOENVIRONMENTAL REPRESENTATIVE	Thomas Bohlen

WATER LEVEL DATA

DATE	TIME	WATER	CASING

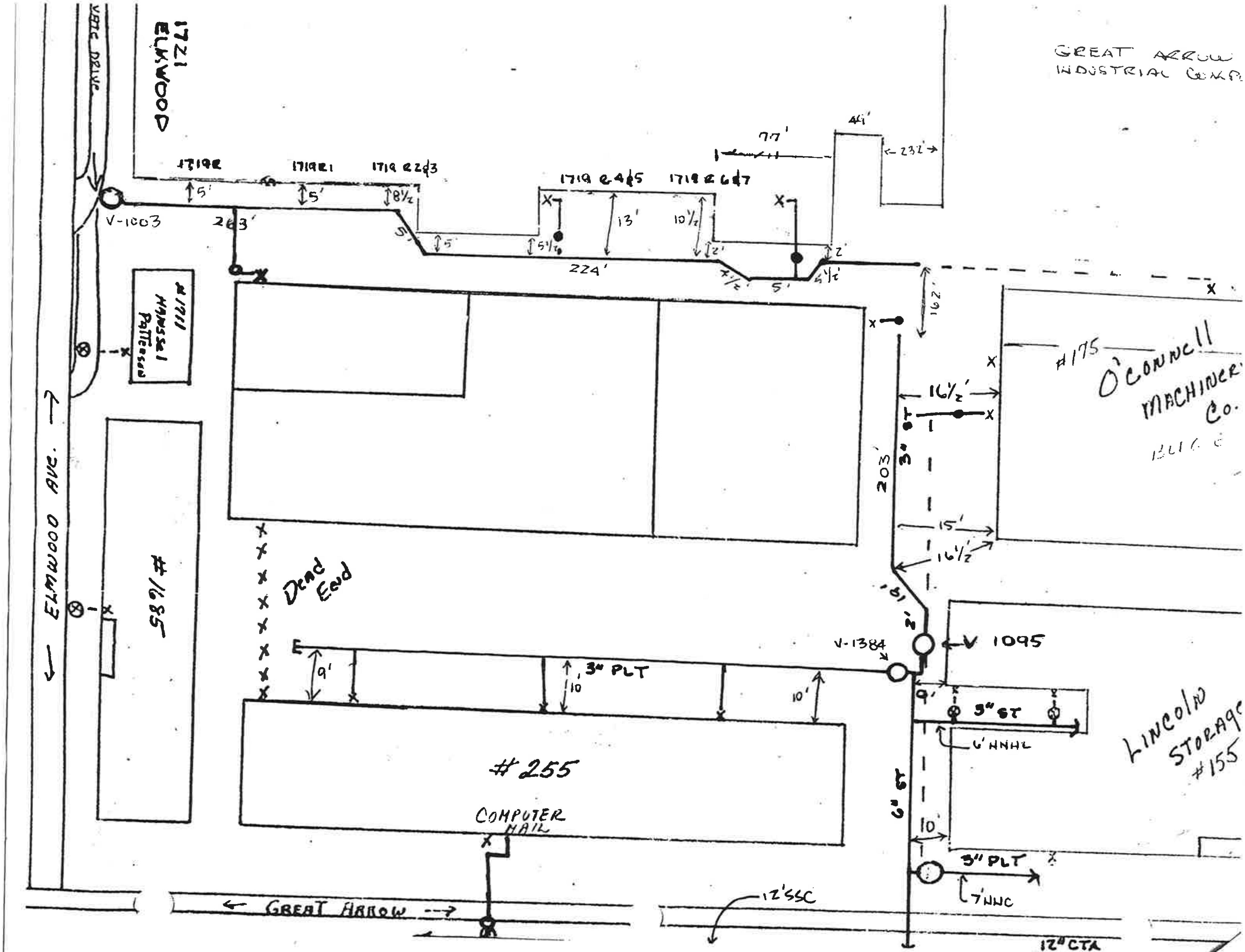
TYPE OF DRILL RIG	Track Mounted Geoprobe 6620 UT
CASING SIZE AND DIAMETER	2" diameter by 48" long
OVERBURDEN SAMPLING METHOD	Direct Push
ROCK DRILLING METHOD	NA

DEPTH	Sample Number	DEPTH (FT BGS)	RECOVERY (%)	SAMPLE DESCRIPTION	NOTES	OVM (ppm)
	1	0-2	60	Asphalt (2-inches). FILL: Brown/Black/Orange SAND, little Gravel, moist.	Temporary 1-inch microwell installed.	0.0
1						
2					- Bottom of Well at 8 ft. bgs.	
	2	2-4	60			0.0
3						
					- Screened from 0 to 8 ft. bgs.	
4				Grades to: wet. Black staining, weathered silver sheen, and petroleum odor observed.		
	3	4-6	70			42.3
5				NATIVE: Brown Silty CLAY, trace Gravel, trace Sand, moist.		
6						
	4	6-8	70			0.0
7						
8						
				End of soil probe at 8 ft. bgs.		
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						

S - Split Spoon Sample
C - Rock Core Sample

NOTES: MiniRAE 3000 was used to field screen and headspace soil samples.
FT BGS = feet below ground surface. ppm = parts per million.

General Notes:
1) Stratification lines represent approximate boundry between soil types, transitions may be gradual.
2) Water level readings have been made at times and under conditions stated, fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.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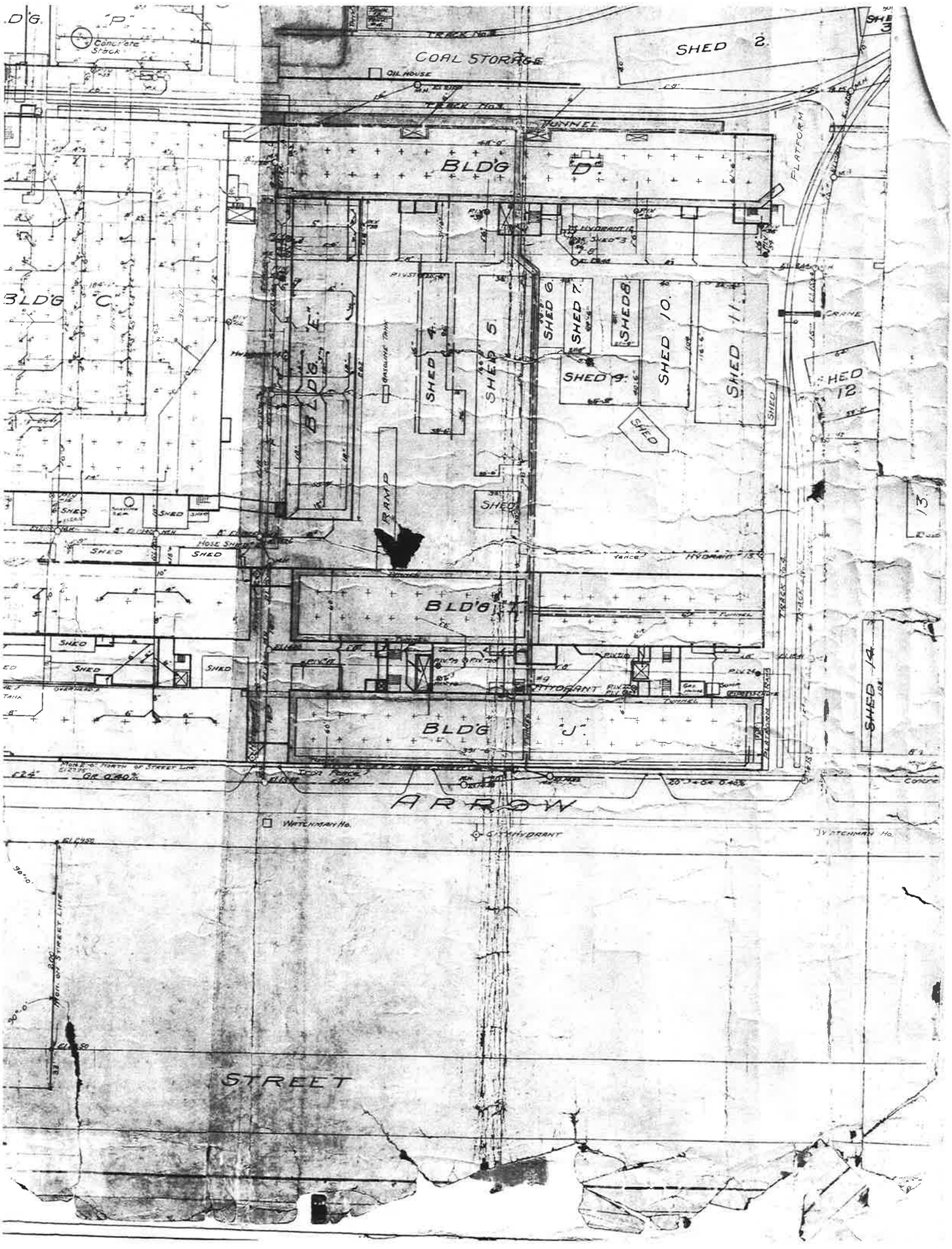
ELKWOOD
GREAT ARROW
INDUSTRIAL COMP.
1719 R
1719 R1
1719 R2 & 3
1719 R4 & 5
1719 R6 & 7
77'
44'
232'
V-1003
263'
224'
162'
#1711
HANSEL
PATTERSON
#175
O'Connell
MACHINERY
Co.
16 1/2'
203'
3"
15'
16 1/2'
Dead
End
#1685
ELMWOOD AVE.
V-1384
1095
3" PLT
9'
10'
3" ST
6'HHHL
Lincoln
Storage
#155
#255
COMPUTER
MAIL
6" ST
3" PLT
7'HHC
GREAT ARROW
12'SSC
12" CTA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Concrete Shack
COAL STORAGE
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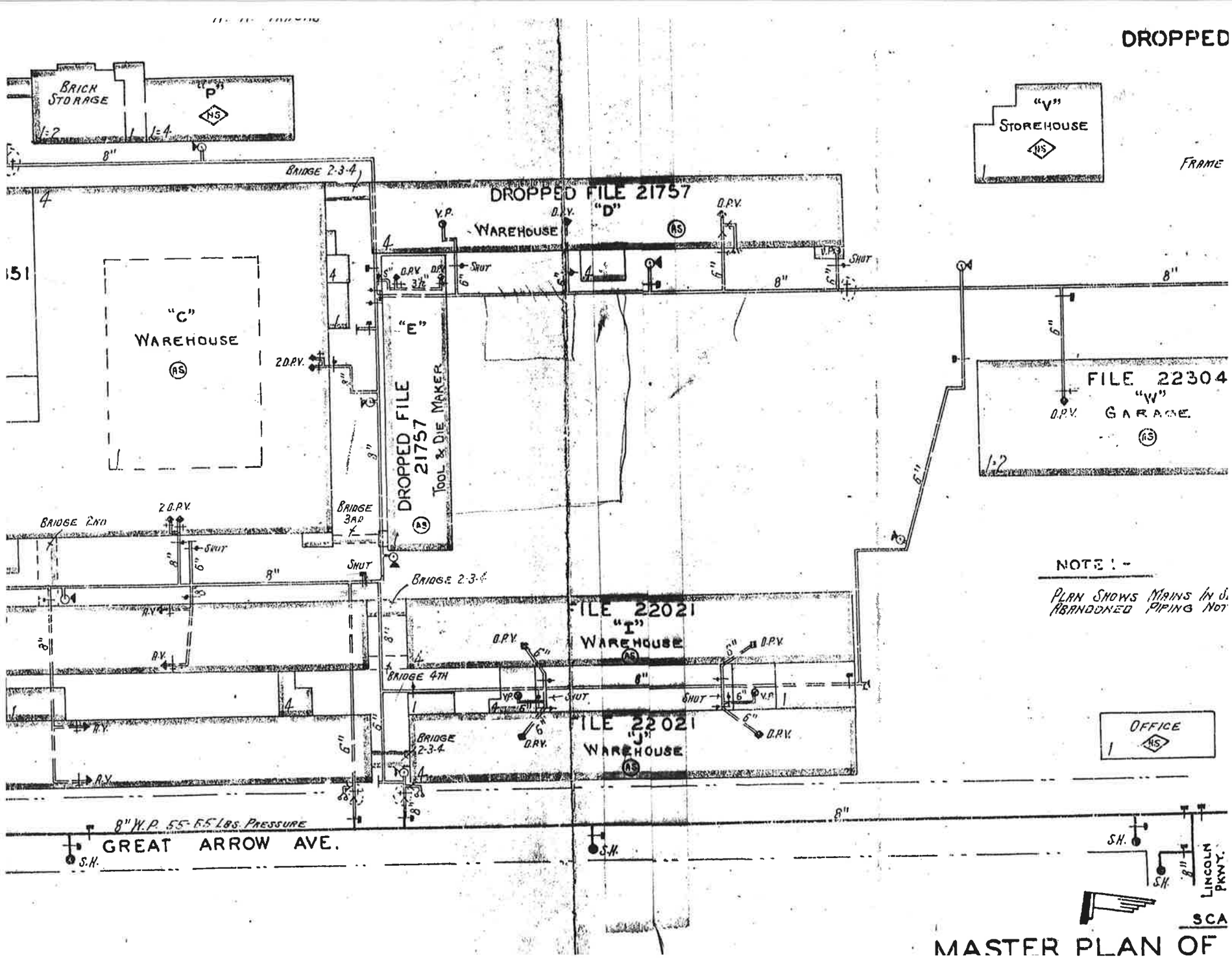
OIL HOUSE
TUNNEL
BLD'G D.
PLATFORM
BLD'G C.
BLD'G E.
SHED 4.
SHED 5.
SHED 6.
SHED 7.
SHED 8.
SHED 10.
SHED 11.
SHED 9.
CRANE
SHED 12
SHED 13
RAMP
SHED
HOSE SHED
BLD'G J.
SHED 14
ARROW
WATCHMAN Hq.
STREET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NS
"V"
STOREHOUSE
NS
FRAME
8"
BRIDGE 2-3-4
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"D"
WAREHOUSE
AS
V.P.
O.P.V.
SHUT
"C"
WAREHOUSE
AS
"E"
DROPPED FILE 21757
TOOL & DIE MAKER
AS
2 O.P.V.
BRIDGE 2ND
BRIDGE 3RD
FILE 22304
"W"
GARAGE
AS
NOTE :-
PLAN SHOWS MAINS IN S
ABANDONED PIPING NOT
FILE 22021
"I"
WAREHOUSE
AS
BRIDGE 4TH
FILE 22021
"J"
WAREHOUSE
AS
OFFICE
NS
R.V.
8" W.P. 55 F.F. LBS. PRESSURE
GREAT ARROW AVE.
S.H.
LINCOLN PKWY.
SCA
MASTER PLAN OF

Appendix C – Laboratory Report

JOB: L1723613 REPORT STYLE: Data Usability Report
0010: Alpha Analytical Report Cover Page - OK
0015: Sample Cross Reference Summary - OK
0060: Case Narrative - OK
0100: Volatiles Cover Page - OK
0110: Volatiles Sample Results - OK
0120: Volatiles Method Blank Report - OK
0130: Volatiles LCS Report - OK
0150: Volatiles Matrix SpikeReport - OK
0180: Semivolatiles Cover Page - OK
0190: Semivolatiles Sample Results - OK
0200: Semivolatiles Method Blank Report - OK
0210: Semivolatiles LCS Report - OK
0230: Semivolatiles Matrix Spike Report - OK
0700: PCBs Cover Page - OK
0710: PCBs Sample Results - OK
0720: PCBs Method Blank Report - OK
0730: PCBs LCS Report - OK
1005: Metals Sample Results - OK
1010: Metals Method Blank Report - OK
1020: Metals LCS Report - OK
1040: Metals Matrix Spike Report - OK
1180: Inorganics Cover Page - OK
1200: Wet Chemistry Sample Results - OK
1210: Wet Chemistry Method Blank Report - OK
1220: Wet Chemistry LCS Report - OK
1240: Wet Chemistry Matrix Spike Report - OK
1250: Wet Chemistry Duplicate Report - OK
5100: Sample Receipt & Container Information Report - OK
5200: Glossary - OK
5400: References - OK

ANALYTICAL REPORT

Lab Number:	L1723613
Client:	GZA GeoEnvironmental 535 Washington St. Buffalo, NY 14203
ATTN:	James Richert
Phone:	(716) 685-2300
Project Name:	PIERCE ARROW APARTMENTS
Project Number:	56831.10
Report Date:	07/19/17

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), NJ NELAP (MA935), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-14-00197).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: PIERCE ARROW APARTMENTS
Project Number: 56831.10

Lab Number: L1723613
Report Date: 07/19/17

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1723613-01	SP-1-8"-071117	SOIL	BUFFALO, NY	07/11/17 09:40	07/11/17
L1723613-02	SP-1-0.5-8-071117	SOIL	BUFFALO, NY	07/11/17 09:40	07/11/17
L1723613-03	SP-2-3.5-071117	SOIL	BUFFALO, NY	07/11/17 10:10	07/11/17
L1723613-04	SP-3-2-071117	SOIL	BUFFALO, NY	07/11/17 10:30	07/11/17
L1723613-05	SP-3-1-8-071117	SOIL	BUFFALO, NY	07/11/17 10:30	07/11/17
L1723613-06	SP-5-1-071117	SOIL	BUFFALO, NY	07/11/17 11:15	07/11/17
L1723613-07	SP-5-1-8-071117	SOIL	BUFFALO, NY	07/11/17 11:15	07/11/17
L1723613-08	SP-6-0.5-071117	SOIL	BUFFALO, NY	07/11/17 11:40	07/11/17
L1723613-09	SP-6-0-1-071117	SOIL	BUFFALO, NY	07/11/17 11:40	07/11/17
L1723613-10	SP-7-4-071117	SOIL	BUFFALO, NY	07/11/17 12:30	07/11/17
L1723613-11	SP-7-4-8-071117	SOIL	BUFFALO, NY	07/11/17 12:30	07/11/17
L1723613-12	SP-8-0.5-071117	SOIL	BUFFALO, NY	07/11/17 13:00	07/11/17
L1723613-13	SP-8-0-1-071117	SOIL	BUFFALO, NY	07/11/17 13:00	07/11/17
L1723613-14	SP-9-2-071117	SOIL	BUFFALO, NY	07/11/17 13:20	07/11/17
L1723613-15	SP-9-0-13-071117	SOIL	BUFFALO, NY	07/11/17 13:20	07/11/17
L1723613-16	SP-10-4-071117	SOIL	BUFFALO, NY	07/11/17 13:50	07/11/17
L1723613-17	SP-10-0-4.5-071117	SOIL	BUFFALO, NY	07/11/17 13:50	07/11/17
L1723613-18	SP-11-3-071117	SOIL	BUFFALO, NY	07/11/17 14:20	07/11/17
L1723613-19	SP-11-0.5-4.5-071117	SOIL	BUFFALO, NY	07/11/17 14:20	07/11/17
L1723613-20	SP-12-1.5-071117	SOIL	BUFFALO, NY	07/11/17 14:45	07/11/17
L1723613-21	SP-12-0-3-071117	SOIL	BUFFALO, NY	07/11/17 14:45	07/11/17
L1723613-22	SP-13-4.5-071117	SOIL	BUFFALO, NY	07/11/17 15:15	07/11/17
L1723613-23	SP-13-0-4.5-071117	SOIL	BUFFALO, NY	07/11/17 15:15	07/11/17
L1723613-24	SUBSURFACE DUPLICATE -	SOIL	BUFFALO, NY	07/11/17 00:00	07/11/17

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
	071117				
L1723613-25	SP-9-GW-071117	WATER	BUFFALO, NY	07/11/17 15:30	07/11/17
L1723613-26	SP-13-GW-071117	WATER	BUFFALO, NY	07/11/17 15:45	07/11/17
L1723613-27	SS-1-071117	SOIL	BUFFALO, NY	07/11/17 15:50	07/11/17
L1723613-28	SS-2-071117	SOIL	BUFFALO, NY	07/11/17 15:55	07/11/17
L1723613-29	SS-3-071117	SOIL	BUFFALO, NY	07/11/17 16:00	07/11/17
L1723613-30	SS-4-071117	SOIL	BUFFALO, NY	07/11/17 16:10	07/11/17
L1723613-31	SURFACE SOIL DUPLICATE	SOIL	BUFFALO, NY	07/11/17 00:00	07/11/17

Project Name: PIERCE ARROW APARTMENTS **Lab Number:** L1723613
Project Number: 56831.10 **Report Date:** 07/19/17

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY
For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name:	PIERCE ARROW APARTMENTS	**Lab Number:**	L1723613
Project Number:	56831.10	**Report Date:**	07/19/17

Case Narrative (continued)

Report Submission

This is a partial report. A final report will be issued as soon as the results of all requested analyses become available.

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Volatile Organics

L1723613-01, -03, -04, -06, -10, -12, -20, and -24: The analysis of Volatile Organics by EPA Method 5035/8260 Low Level could not be performed due to excessive sample weight. A High Level analysis was performed and is reported.

Semivolatile Organics

L1723613-26: The sample has elevated detection limits due to limited sample volume available for analysis and the analytical dilution required by the sample matrix.

The WG1022578-4/-5 MS/MSD recoveries, performed on L1723613-27, are outside the acceptance criteria for fluoranthene (0%/0%), benzo(a)anthracene (MSD at 0%), benzo(a)pyrene (MSD at 0%), benzo(b)fluoranthene (MSD at 0%), phenanthrene (0%/0%) and pyrene (0%/0%). The unacceptable percent recoveries are attributed to the elevated concentrations of target compounds present in the native sample.

Semivolatile Organics by SIM

L1723613-26: The sample has elevated detection limits due to limited sample volume available for analysis and the analytical dilution required by the sample matrix.

L1723613-26: The surrogate recoveries are below the acceptance criteria for 2-fluorophenol (0%), phenol-d6 (0%), nitrobenzene-d5 (0%), 2-fluorobiphenyl (0%), 2,4,6-tribromophenol (0%) and 4-terphenyl-d14 (0%) due to the dilution required to quantitate the sample. Re-extraction was not required; therefore, the results of the original analysis are reported.

Project Name: PIERCE ARROW APARTMENTS **Lab Number:** L1723613
Project Number: 56831.10 **Report Date:** 07/19/17

Case Narrative (continued)

Total Metals

L1723613-03, -05, -07, -09, -11, -13, -15, -17, -19, -21, -23, -24, -27 through -31: The sample has elevated detection limits for all elements, with the exception of mercury, due to the dilution required by matrix interferences encountered during analysis.

The WG1021962-4 MSD recovery for manganese (0%), performed on L1723613-05, does not apply because the sample concentration is greater than four times the spike amount added.

The WG1021962-3/-4 MS/MSD RPD, performed on L1723613-05, is above the acceptance criteria for manganese (28%).

The WG1021962-7/-8 MS/MSD recoveries, performed on L1723613-27, are outside the acceptance criteria for cadmium (MSD at 73%), chromium (MS at 356%), lead (MSD at 60%), nickel (71%/73%) and zinc (148%/53%). A post digestion spike was performed and yielded unacceptable recoveries for cadmium (73%), chromium (66%), lead (68%), nickel (69%) and zinc (59%). This has been attributed to sample matrix.

The WG1021962-7 MS recovery for manganese (2170%), performed on L1723613-27, does not apply because the sample concentration is greater than four times the spike amount added.

The WG1021962-7/-8 MS/MSD RPDs for chromium (78%), manganese (79%) and zinc (24%), performed on L1723613-27, are above the acceptance criteria.

The WG1022069-3/-4 MS/MSD recoveries, performed on L1723613-05, are outside the acceptance criteria for mercury (123%/128%). A post digestion spike was performed and was within acceptance criteria.

The WG1022069-5/-6 MS/MSD recoveries, performed on L1723613-27, are outside the acceptance criteria for mercury (127%/126%). A post digestion spike was performed and was within acceptance criteria.

Cyanide, Total

L1723613-07, -15, -17 and -19: The sample has an elevated detection limit due to the dilution required by the sample matrix.

The WG1022226-2 LCS recovery (136%), associated with L1723613-02 and -03, is above our in-house acceptance criteria, but within the vendor-certified acceptance limits. The results of the original analyses are reported.

The WG1022230-2 LCS recovery (136%), associated with L1723613-05, -07, -09, -11, -13, -15, -17 and -

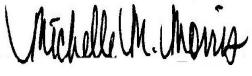
Project Name:	PIERCE ARROW APARTMENTS	**Lab Number:**	L1723613
Project Number:	56831.10	**Report Date:**	07/19/17

Case Narrative (continued)

19, is above our in-house acceptance criteria, but within the vendor-certified acceptance limits. The results of the original analyses are reported.

The WG1022567-3 LCSD recovery (124%), associated with L1723613-21, -23, -24 and -27 through -31, is above our in-house acceptance criteria, but within the vendor-certified acceptance limits. The results of the original analyses are reported.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:  Michelle M. Morris

Title: Technical Director/Representative Date: 07/19/17

ORGANICS

VOLATILES

Project Name: PIERCE ARROW APARTMENTS **Lab Number:** L1723613

Project Number: 56831.10 **Report Date:** 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-01
Client ID: SP-1-8"-071117
Sample Location: BUFFALO, NY

Date Collected: 07/11/17 09:40
Date Received: 07/11/17
Field Prep: Not Specified

Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 07/16/17 11:55
Analyst: MV
Percent Solids: 81%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	690	110	1
1,1-Dichloroethane	ND		ug/kg	100	19.	1
Chloroform	ND		ug/kg	100	26.	1
Carbon tetrachloride	ND		ug/kg	69	24.	1
1,2-Dichloropropane	ND		ug/kg	240	16.	1
Dibromochloromethane	ND		ug/kg	69	12.	1
1,1,2-Trichloroethane	ND		ug/kg	100	22.	1
Tetrachloroethene	ND		ug/kg	69	21.	1
Chlorobenzene	ND		ug/kg	69	24.	1
Trichlorofluoromethane	ND		ug/kg	350	29.	1
1,2-Dichloroethane	ND		ug/kg	69	17.	1
1,1,1-Trichloroethane	ND		ug/kg	69	24.	1
Bromodichloromethane	ND		ug/kg	69	21.	1
trans-1,3-Dichloropropene	ND		ug/kg	69	14.	1
cis-1,3-Dichloropropene	ND		ug/kg	69	16.	1
Bromoform	ND		ug/kg	280	16.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	69	21.	1
Benzene	ND		ug/kg	69	13.	1
Toluene	ND		ug/kg	100	14.	1
Ethylbenzene	ND		ug/kg	69	12.	1
Chloromethane	ND		ug/kg	350	30.	1
Bromomethane	68	J	ug/kg	140	23.	1
Vinyl chloride	ND		ug/kg	140	22.	1
Chloroethane	ND		ug/kg	140	22.	1
1,1-Dichloroethene	ND		ug/kg	69	26.	1
trans-1,2-Dichloroethene	ND		ug/kg	100	17.	1
Trichloroethene	ND		ug/kg	69	21.	1
1,2-Dichlorobenzene	ND		ug/kg	350	13.	1
1,3-Dichlorobenzene	ND		ug/kg	350	15.	1
1,4-Dichlorobenzene	ND		ug/kg	350	13.	1

Project Name: PIERCE ARROW APARTMENTS **Lab Number:** L1723613

Project Number: 56831.10 **Report Date:** 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-01 Date Collected: 07/11/17 09:40

Client ID: SP-1-8"-071117 Date Received: 07/11/17

Sample Location: BUFFALO, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	140	11.	1
p/m-Xylene	ND		ug/kg	140	24.	1
o-Xylene	ND		ug/kg	140	23.	1
cis-1,2-Dichloroethene	ND		ug/kg	69	24.	1
Styrene	ND		ug/kg	140	28.	1
Dichlorodifluoromethane	ND		ug/kg	690	35.	1
Acetone	ND		ug/kg	690	160	1
Carbon disulfide	ND		ug/kg	690	76.	1
2-Butanone	ND		ug/kg	690	48.	1
4-Methyl-2-pentanone	ND		ug/kg	690	17.	1
2-Hexanone	ND		ug/kg	690	46.	1
Bromochloromethane	ND		ug/kg	350	25.	1
1,2-Dibromoethane	ND		ug/kg	280	14.	1
n-Butylbenzene	ND		ug/kg	69	16.	1
sec-Butylbenzene	ND		ug/kg	69	15.	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	350	27.	1
Isopropylbenzene	ND		ug/kg	69	13.	1
p-Isopropyltoluene	ND		ug/kg	69	14.	1
Naphthalene	ND		ug/kg	350	9.6	1
n-Propylbenzene	ND		ug/kg	69	15.	1
1,2,3-Trichlorobenzene	ND		ug/kg	350	17.	1
1,2,4-Trichlorobenzene	ND		ug/kg	350	15.	1
1,3,5-Trimethylbenzene	ND		ug/kg	350	11.	1
1,2,4-Trimethylbenzene	ND		ug/kg	350	13.	1
Methyl Acetate	ND		ug/kg	1400	32.	1
Cyclohexane	ND		ug/kg	1400	30.	1
1,4-Dioxane	ND		ug/kg	2800	1000	1
Freon-113	ND		ug/kg	1400	36.	1
Methyl cyclohexane	ND		ug/kg	280	17.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	113		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	107		70-130
Dibromofluoromethane	97		70-130

Project Name: PIERCE ARROW APARTMENTS **Lab Number:** L1723613

Project Number: 56831.10 **Report Date:** 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-03
Client ID: SP-2-3.5-071117
Sample Location: BUFFALO, NY

Date Collected: 07/11/17 10:10
Date Received: 07/11/17
Field Prep: Not Specified

Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 07/16/17 12:21
Analyst: MV
Percent Solids: 76%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	700	120	1
1,1-Dichloroethane	ND		ug/kg	100	19.	1
Chloroform	ND		ug/kg	100	26.	1
Carbon tetrachloride	ND		ug/kg	70	24.	1
1,2-Dichloropropane	ND		ug/kg	240	16.	1
Dibromochloromethane	ND		ug/kg	70	12.	1
1,1,2-Trichloroethane	ND		ug/kg	100	22.	1
Tetrachloroethene	ND		ug/kg	70	21.	1
Chlorobenzene	ND		ug/kg	70	24.	1
Trichlorofluoromethane	ND		ug/kg	350	29.	1
1,2-Dichloroethane	ND		ug/kg	70	17.	1
1,1,1-Trichloroethane	ND		ug/kg	70	24.	1
Bromodichloromethane	ND		ug/kg	70	22.	1
trans-1,3-Dichloropropene	ND		ug/kg	70	14.	1
cis-1,3-Dichloropropene	ND		ug/kg	70	16.	1
Bromoform	ND		ug/kg	280	16.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	70	21.	1
Benzene	ND		ug/kg	70	14.	1
Toluene	ND		ug/kg	100	14.	1
Ethylbenzene	ND		ug/kg	70	12.	1
Chloromethane	ND		ug/kg	350	30.	1
Bromomethane	ND		ug/kg	140	24.	1
Vinyl chloride	ND		ug/kg	140	22.	1
Chloroethane	ND		ug/kg	140	22.	1
1,1-Dichloroethene	ND		ug/kg	70	26.	1
trans-1,2-Dichloroethene	ND		ug/kg	100	17.	1
Trichloroethene	ND		ug/kg	70	21.	1
1,2-Dichlorobenzene	ND		ug/kg	350	13.	1
1,3-Dichlorobenzene	ND		ug/kg	350	15.	1
1,4-Dichlorobenzene	ND		ug/kg	350	13.	1

Project Name: PIERCE ARROW APARTMENTS **Lab Number:** L1723613

Project Number: 56831.10 **Report Date:** 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-03 Date Collected: 07/11/17 10:10

Client ID: SP-2-3.5-071117 Date Received: 07/11/17

Sample Location: BUFFALO, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	140	11.	1
p/m-Xylene	ND		ug/kg	140	24.	1
o-Xylene	ND		ug/kg	140	24.	1
cis-1,2-Dichloroethene	ND		ug/kg	70	24.	1
Styrene	ND		ug/kg	140	28.	1
Dichlorodifluoromethane	ND		ug/kg	700	35.	1
Acetone	ND		ug/kg	700	160	1
Carbon disulfide	ND		ug/kg	700	77.	1
2-Butanone	ND		ug/kg	700	48.	1
4-Methyl-2-pentanone	ND		ug/kg	700	17.	1
2-Hexanone	ND		ug/kg	700	47.	1
Bromochloromethane	ND		ug/kg	350	25.	1
1,2-Dibromoethane	ND		ug/kg	280	14.	1
n-Butylbenzene	ND		ug/kg	70	16.	1
sec-Butylbenzene	ND		ug/kg	70	15.	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	350	28.	1
Isopropylbenzene	ND		ug/kg	70	14.	1
p-Isopropyltoluene	ND		ug/kg	70	14.	1
Naphthalene	ND		ug/kg	350	9.6	1
n-Propylbenzene	ND		ug/kg	70	15.	1
1,2,3-Trichlorobenzene	ND		ug/kg	350	18.	1
1,2,4-Trichlorobenzene	ND		ug/kg	350	15.	1
1,3,5-Trimethylbenzene	ND		ug/kg	350	11.	1
1,2,4-Trimethylbenzene	ND		ug/kg	350	13.	1
Methyl Acetate	ND		ug/kg	1400	32.	1
Cyclohexane	ND		ug/kg	1400	30.	1
1,4-Dioxane	ND		ug/kg	2800	1000	1
Freon-113	ND		ug/kg	1400	36.	1
Methyl cyclohexane	ND		ug/kg	280	17.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		70-130
Toluene-d8	106		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	100		70-130

Project Name: PIERCE ARROW APARTMENTS **Lab Number:** L1723613

Project Number: 56831.10 **Report Date:** 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-04
Client ID: SP-3-2-071117
Sample Location: BUFFALO, NY

Date Collected: 07/11/17 10:30
Date Received: 07/11/17
Field Prep: Not Specified

Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 07/16/17 12:48
Analyst: MV
Percent Solids: 82%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	580	96.	1
1,1-Dichloroethane	ND		ug/kg	87	16.	1
Chloroform	ND		ug/kg	87	21.	1
Carbon tetrachloride	ND		ug/kg	58	20.	1
1,2-Dichloropropane	ND		ug/kg	200	13.	1
Dibromochloromethane	ND		ug/kg	58	10.	1
1,1,2-Trichloroethane	ND		ug/kg	87	18.	1
Tetrachloroethene	ND		ug/kg	58	18.	1
Chlorobenzene	ND		ug/kg	58	20.	1
Trichlorofluoromethane	ND		ug/kg	290	24.	1
1,2-Dichloroethane	ND		ug/kg	58	14.	1
1,1,1-Trichloroethane	ND		ug/kg	58	20.	1
Bromodichloromethane	ND		ug/kg	58	18.	1
trans-1,3-Dichloropropene	ND		ug/kg	58	12.	1
cis-1,3-Dichloropropene	ND		ug/kg	58	13.	1
Bromoform	ND		ug/kg	230	14.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	58	17.	1
Benzene	ND		ug/kg	58	11.	1
Toluene	ND		ug/kg	87	11.	1
Ethylbenzene	ND		ug/kg	58	9.9	1
Chloromethane	ND		ug/kg	290	25.	1
Bromomethane	26	J	ug/kg	120	20.	1
Vinyl chloride	ND		ug/kg	120	18.	1
Chloroethane	ND		ug/kg	120	18.	1
1,1-Dichloroethene	ND		ug/kg	58	22.	1
trans-1,2-Dichloroethene	ND		ug/kg	87	14.	1
Trichloroethene	ND		ug/kg	58	18.	1
1,2-Dichlorobenzene	ND		ug/kg	290	10.	1
1,3-Dichlorobenzene	ND		ug/kg	290	13.	1
1,4-Dichlorobenzene	ND		ug/kg	290	10.	1

Project Name: PIERCE ARROW APARTMENTS **Lab Number:** L1723613

Project Number: 56831.10 **Report Date:** 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-04 Date Collected: 07/11/17 10:30

Client ID: SP-3-2-071117 Date Received: 07/11/17

Sample Location: BUFFALO, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	120	8.9	1
p/m-Xylene	ND		ug/kg	120	20.	1
o-Xylene	ND		ug/kg	120	20.	1
cis-1,2-Dichloroethene	ND		ug/kg	58	20.	1
Styrene	ND		ug/kg	120	23.	1
Dichlorodifluoromethane	ND		ug/kg	580	29.	1
Acetone	ND		ug/kg	580	130	1
Carbon disulfide	ND		ug/kg	580	64.	1
2-Butanone	ND		ug/kg	580	40.	1
4-Methyl-2-pentanone	ND		ug/kg	580	14.	1
2-Hexanone	ND		ug/kg	580	39.	1
Bromochloromethane	ND		ug/kg	290	21.	1
1,2-Dibromoethane	ND		ug/kg	230	12.	1
n-Butylbenzene	ND		ug/kg	58	13.	1
sec-Butylbenzene	ND		ug/kg	58	13.	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	290	23.	1
Isopropylbenzene	ND		ug/kg	58	11.	1
p-Isopropyltoluene	ND		ug/kg	58	12.	1
Naphthalene	ND		ug/kg	290	8.0	1
n-Propylbenzene	ND		ug/kg	58	12.	1
1,2,3-Trichlorobenzene	ND		ug/kg	290	14.	1
1,2,4-Trichlorobenzene	ND		ug/kg	290	12.	1
1,3,5-Trimethylbenzene	ND		ug/kg	290	9.4	1
1,2,4-Trimethylbenzene	ND		ug/kg	290	11.	1
Methyl Acetate	140	J	ug/kg	1200	27.	1
Cyclohexane	ND		ug/kg	1200	25.	1
1,4-Dioxane	ND		ug/kg	2300	840	1
Freon-113	ND		ug/kg	1200	30.	1
Methyl cyclohexane	ND		ug/kg	230	14.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
Toluene-d8	105		70-130
4-Bromofluorobenzene	107		70-130
Dibromofluoromethane	102		70-130

Project Name: PIERCE ARROW APARTMENTS **Lab Number:** L1723613

Project Number: 56831.10 **Report Date:** 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-06
Client ID: SP-5-1-071117
Sample Location: BUFFALO, NY

Date Collected: 07/11/17 11:15
Date Received: 07/11/17
Field Prep: Not Specified

Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 07/16/17 14:06
Analyst: MV
Percent Solids: 81%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	550	90.	1
1,1-Dichloroethane	ND		ug/kg	82	15.	1
Chloroform	ND		ug/kg	82	20.	1
Carbon tetrachloride	ND		ug/kg	55	19.	1
1,2-Dichloropropane	ND		ug/kg	190	12.	1
Dibromochloromethane	ND		ug/kg	55	9.6	1
1,1,2-Trichloroethane	ND		ug/kg	82	17.	1
Tetrachloroethene	ND		ug/kg	55	16.	1
Chlorobenzene	ND		ug/kg	55	19.	1
Trichlorofluoromethane	ND		ug/kg	270	23.	1
1,2-Dichloroethane	ND		ug/kg	55	13.	1
1,1,1-Trichloroethane	ND		ug/kg	55	19.	1
Bromodichloromethane	ND		ug/kg	55	17.	1
trans-1,3-Dichloropropene	ND		ug/kg	55	11.	1
cis-1,3-Dichloropropene	ND		ug/kg	55	13.	1
Bromoform	ND		ug/kg	220	13.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	55	16.	1
Benzene	ND		ug/kg	55	10.	1
Toluene	ND		ug/kg	82	11.	1
Ethylbenzene	ND		ug/kg	55	9.3	1
Chloromethane	ND		ug/kg	270	24.	1
Bromomethane	42	J	ug/kg	110	18.	1
Vinyl chloride	ND		ug/kg	110	17.	1
Chloroethane	ND		ug/kg	110	17.	1
1,1-Dichloroethene	ND		ug/kg	55	20.	1
trans-1,2-Dichloroethene	ND		ug/kg	82	13.	1
Trichloroethene	ND		ug/kg	55	16.	1
1,2-Dichlorobenzene	ND		ug/kg	270	10.	1
1,3-Dichlorobenzene	ND		ug/kg	270	12.	1
1,4-Dichlorobenzene	ND		ug/kg	270	10.	1

Project Name: PIERCE ARROW APARTMENTS **Lab Number:** L1723613

Project Number: 56831.10 **Report Date:** 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-06 Date Collected: 07/11/17 11:15

Client ID: SP-5-1-071117 Date Received: 07/11/17

Sample Location: BUFFALO, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	110	8.4	1
p/m-Xylene	ND		ug/kg	110	19.	1
o-Xylene	ND		ug/kg	110	18.	1
cis-1,2-Dichloroethene	ND		ug/kg	55	19.	1
Styrene	ND		ug/kg	110	22.	1
Dichlorodifluoromethane	ND		ug/kg	550	27.	1
Acetone	ND		ug/kg	550	120	1
Carbon disulfide	ND		ug/kg	550	60.	1
2-Butanone	ND		ug/kg	550	38.	1
4-Methyl-2-pentanone	ND		ug/kg	550	13.	1
2-Hexanone	ND		ug/kg	550	36.	1
Bromochloromethane	ND		ug/kg	270	20.	1
1,2-Dibromoethane	ND		ug/kg	220	11.	1
n-Butylbenzene	ND		ug/kg	55	12.	1
sec-Butylbenzene	ND		ug/kg	55	12.	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	270	22.	1
Isopropylbenzene	ND		ug/kg	55	11.	1
p-Isopropyltoluene	ND		ug/kg	55	11.	1
Naphthalene	18	J	ug/kg	270	7.6	1
n-Propylbenzene	ND		ug/kg	55	12.	1
1,2,3-Trichlorobenzene	ND		ug/kg	270	14.	1
1,2,4-Trichlorobenzene	ND		ug/kg	270	12.	1
1,3,5-Trimethylbenzene	ND		ug/kg	270	8.8	1
1,2,4-Trimethylbenzene	ND		ug/kg	270	10.	1
Methyl Acetate	ND		ug/kg	1100	25.	1
Cyclohexane	ND		ug/kg	1100	24.	1
1,4-Dioxane	ND		ug/kg	2200	790	1
Freon-113	ND		ug/kg	1100	28.	1
Methyl cyclohexane	ND		ug/kg	220	13.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	114		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	104		70-130

Project Name: PIERCE ARROW APARTMENTS **Lab Number:** L1723613

Project Number: 56831.10 **Report Date:** 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-08
Client ID: SP-6-0.5-071117
Sample Location: BUFFALO, NY

Date Collected: 07/11/17 11:40
Date Received: 07/11/17
Field Prep: Not Specified

Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 07/16/17 14:33
Analyst: MV
Percent Solids: 81%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	1000	160	1
1,1-Dichloroethane	ND		ug/kg	150	27.	1
Chloroform	ND		ug/kg	150	37.	1
Carbon tetrachloride	ND		ug/kg	100	34.	1
1,2-Dichloropropane	ND		ug/kg	350	23.	1
Dibromochloromethane	ND		ug/kg	100	18.	1
1,1,2-Trichloroethane	ND		ug/kg	150	31.	1
Tetrachloroethene	ND		ug/kg	100	30.	1
Chlorobenzene	ND		ug/kg	100	35.	1
Trichlorofluoromethane	ND		ug/kg	500	42.	1
1,2-Dichloroethane	ND		ug/kg	100	24.	1
1,1,1-Trichloroethane	ND		ug/kg	100	35.	1
Bromodichloromethane	ND		ug/kg	100	31.	1
trans-1,3-Dichloropropene	ND		ug/kg	100	21.	1
cis-1,3-Dichloropropene	ND		ug/kg	100	23.	1
Bromoform	ND		ug/kg	400	24.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	100	30.	1
Benzene	ND		ug/kg	100	19.	1
Toluene	33	J	ug/kg	150	19.	1
Ethylbenzene	ND		ug/kg	100	17.	1
Chloromethane	ND		ug/kg	500	43.	1
Bromomethane	ND		ug/kg	200	34.	1
Vinyl chloride	ND		ug/kg	200	31.	1
Chloroethane	ND		ug/kg	200	31.	1
1,1-Dichloroethene	ND		ug/kg	100	37.	1
trans-1,2-Dichloroethene	ND		ug/kg	150	24.	1
Trichloroethene	ND		ug/kg	100	30.	1
1,2-Dichlorobenzene	ND		ug/kg	500	18.	1
1,3-Dichlorobenzene	ND		ug/kg	500	22.	1
1,4-Dichlorobenzene	ND		ug/kg	500	18.	1

Project Name: PIERCE ARROW APARTMENTS **Lab Number:** L1723613

Project Number: 56831.10 **Report Date:** 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-08 Date Collected: 07/11/17 11:40

Client ID: SP-6-0.5-071117 Date Received: 07/11/17

Sample Location: BUFFALO, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	200	15.	1
p/m-Xylene	ND		ug/kg	200	35.	1
o-Xylene	ND		ug/kg	200	34.	1
cis-1,2-Dichloroethene	ND		ug/kg	100	34.	1
Styrene	ND		ug/kg	200	40.	1
Dichlorodifluoromethane	ND		ug/kg	1000	50.	1
Acetone	460	J	ug/kg	1000	230	1
Carbon disulfide	ND		ug/kg	1000	110	1
2-Butanone	ND		ug/kg	1000	69.	1
4-Methyl-2-pentanone	ND		ug/kg	1000	24.	1
2-Hexanone	ND		ug/kg	1000	66.	1
Bromochloromethane	ND		ug/kg	500	36.	1
1,2-Dibromoethane	ND		ug/kg	400	20.	1
n-Butylbenzene	ND		ug/kg	100	23.	1
sec-Butylbenzene	ND		ug/kg	100	22.	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	500	39.	1
Isopropylbenzene	ND		ug/kg	100	19.	1
p-Isopropyltoluene	ND		ug/kg	100	20.	1
Naphthalene	22	J	ug/kg	500	14.	1
n-Propylbenzene	ND		ug/kg	100	21.	1
1,2,3-Trichlorobenzene	ND		ug/kg	500	25.	1
1,2,4-Trichlorobenzene	ND		ug/kg	500	21.	1
1,3,5-Trimethylbenzene	32	J	ug/kg	500	16.	1
1,2,4-Trimethylbenzene	33	J	ug/kg	500	18.	1
Methyl Acetate	870	J	ug/kg	2000	46.	1
Cyclohexane	240	J	ug/kg	2000	43.	1
1,4-Dioxane	ND		ug/kg	4000	1400	1
Freon-113	ND		ug/kg	2000	51.	1
Methyl cyclohexane	820		ug/kg	400	24.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	106		70-130
4-Bromofluorobenzene	107		70-130
Dibromofluoromethane	99		70-130

Project Name: PIERCE ARROW APARTMENTS **Lab Number:** L1723613

Project Number: 56831.10 **Report Date:** 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-10
Client ID: SP-7-4-071117
Sample Location: BUFFALO, NY

Date Collected: 07/11/17 12:30
Date Received: 07/11/17
Field Prep: Not Specified

Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 07/16/17 14:59
Analyst: MV
Percent Solids: 80%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	600	99.	1
1,1-Dichloroethane	ND		ug/kg	90	16.	1
Chloroform	ND		ug/kg	90	22.	1
Carbon tetrachloride	ND		ug/kg	60	21.	1
1,2-Dichloropropane	ND		ug/kg	210	14.	1
Dibromochloromethane	ND		ug/kg	60	10.	1
1,1,2-Trichloroethane	ND		ug/kg	90	19.	1
Tetrachloroethene	ND		ug/kg	60	18.	1
Chlorobenzene	ND		ug/kg	60	21.	1
Trichlorofluoromethane	ND		ug/kg	300	25.	1
1,2-Dichloroethane	ND		ug/kg	60	15.	1
1,1,1-Trichloroethane	ND		ug/kg	60	21.	1
Bromodichloromethane	ND		ug/kg	60	18.	1
trans-1,3-Dichloropropene	ND		ug/kg	60	12.	1
cis-1,3-Dichloropropene	ND		ug/kg	60	14.	1
Bromoform	ND		ug/kg	240	14.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	60	18.	1
Benzene	ND		ug/kg	60	12.	1
Toluene	ND		ug/kg	90	12.	1
Ethylbenzene	ND		ug/kg	60	10.	1
Chloromethane	ND		ug/kg	300	26.	1
Bromomethane	28	J	ug/kg	120	20.	1
Vinyl chloride	ND		ug/kg	120	19.	1
Chloroethane	ND		ug/kg	120	19.	1
1,1-Dichloroethene	ND		ug/kg	60	22.	1
trans-1,2-Dichloroethene	ND		ug/kg	90	14.	1
Trichloroethene	ND		ug/kg	60	18.	1
1,2-Dichlorobenzene	ND		ug/kg	300	11.	1
1,3-Dichlorobenzene	ND		ug/kg	300	13.	1
1,4-Dichlorobenzene	ND		ug/kg	300	11.	1

Project Name: PIERCE ARROW APARTMENTS **Lab Number:** L1723613

Project Number: 56831.10 **Report Date:** 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-10 Date Collected: 07/11/17 12:30

Client ID: SP-7-4-071117 Date Received: 07/11/17

Sample Location: BUFFALO, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	120	9.2	1
p/m-Xylene	ND		ug/kg	120	21.	1
o-Xylene	ND		ug/kg	120	20.	1
cis-1,2-Dichloroethene	ND		ug/kg	60	20.	1
Styrene	ND		ug/kg	120	24.	1
Dichlorodifluoromethane	ND		ug/kg	600	30.	1
Acetone	ND		ug/kg	600	140	1
Carbon disulfide	ND		ug/kg	600	66.	1
2-Butanone	ND		ug/kg	600	41.	1
4-Methyl-2-pentanone	ND		ug/kg	600	15.	1
2-Hexanone	ND		ug/kg	600	40.	1
Bromochloromethane	ND		ug/kg	300	21.	1
1,2-Dibromoethane	ND		ug/kg	240	12.	1
n-Butylbenzene	ND		ug/kg	60	14.	1
sec-Butylbenzene	ND		ug/kg	60	13.	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	300	24.	1
Isopropylbenzene	ND		ug/kg	60	12.	1
p-Isopropyltoluene	ND		ug/kg	60	12.	1
Naphthalene	ND		ug/kg	300	8.3	1
n-Propylbenzene	ND		ug/kg	60	13.	1
1,2,3-Trichlorobenzene	ND		ug/kg	300	15.	1
1,2,4-Trichlorobenzene	ND		ug/kg	300	13.	1
1,3,5-Trimethylbenzene	ND		ug/kg	300	9.6	1
1,2,4-Trimethylbenzene	ND		ug/kg	300	11.	1
Methyl Acetate	ND		ug/kg	1200	28.	1
Cyclohexane	ND		ug/kg	1200	26.	1
1,4-Dioxane	ND		ug/kg	2400	860	1
Freon-113	ND		ug/kg	1200	31.	1
Methyl cyclohexane	ND		ug/kg	240	14.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
Toluene-d8	105		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	101		70-130

Project Name: PIERCE ARROW APARTMENTS **Lab Number:** L1723613

Project Number: 56831.10 **Report Date:** 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-12
Client ID: SP-8-0.5-071117
Sample Location: BUFFALO, NY

Date Collected: 07/11/17 13:00
Date Received: 07/11/17
Field Prep: Not Specified

Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 07/16/17 15:25
Analyst: MV
Percent Solids: 96%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	580	95.	1
1,1-Dichloroethane	ND		ug/kg	86	16.	1
Chloroform	ND		ug/kg	86	21.	1
Carbon tetrachloride	ND		ug/kg	58	20.	1
1,2-Dichloropropane	ND		ug/kg	200	13.	1
Dibromochloromethane	ND		ug/kg	58	10.	1
1,1,2-Trichloroethane	ND		ug/kg	86	18.	1
Tetrachloroethene	ND		ug/kg	58	17.	1
Chlorobenzene	ND		ug/kg	58	20.	1
Trichlorofluoromethane	ND		ug/kg	290	24.	1
1,2-Dichloroethane	ND		ug/kg	58	14.	1
1,1,1-Trichloroethane	ND		ug/kg	58	20.	1
Bromodichloromethane	ND		ug/kg	58	18.	1
trans-1,3-Dichloropropene	ND		ug/kg	58	12.	1
cis-1,3-Dichloropropene	ND		ug/kg	58	13.	1
Bromoform	ND		ug/kg	230	14.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	58	17.	1
Benzene	ND		ug/kg	58	11.	1
Toluene	ND		ug/kg	86	11.	1
Ethylbenzene	ND		ug/kg	58	9.8	1
Chloromethane	ND		ug/kg	290	25.	1
Bromomethane	24	J	ug/kg	120	20.	1
Vinyl chloride	ND		ug/kg	120	18.	1
Chloroethane	ND		ug/kg	120	18.	1
1,1-Dichloroethene	ND		ug/kg	58	21.	1
trans-1,2-Dichloroethene	ND		ug/kg	86	14.	1
Trichloroethene	ND		ug/kg	58	17.	1
1,2-Dichlorobenzene	ND		ug/kg	290	10.	1
1,3-Dichlorobenzene	ND		ug/kg	290	12.	1
1,4-Dichlorobenzene	ND		ug/kg	290	10.	1

Project Name: PIERCE ARROW APARTMENTS **Lab Number:** L1723613

Project Number: 56831.10 **Report Date:** 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-12 Date Collected: 07/11/17 13:00

Client ID: SP-8-0.5-071117 Date Received: 07/11/17

Sample Location: BUFFALO, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	120	8.8	1
p/m-Xylene	ND		ug/kg	120	20.	1
o-Xylene	ND		ug/kg	120	20.	1
cis-1,2-Dichloroethene	ND		ug/kg	58	20.	1
Styrene	ND		ug/kg	120	23.	1
Dichlorodifluoromethane	ND		ug/kg	580	29.	1
Acetone	ND		ug/kg	580	130	1
Carbon disulfide	ND		ug/kg	580	63.	1
2-Butanone	ND		ug/kg	580	40.	1
4-Methyl-2-pentanone	ND		ug/kg	580	14.	1
2-Hexanone	ND		ug/kg	580	38.	1
Bromochloromethane	ND		ug/kg	290	21.	1
1,2-Dibromoethane	ND		ug/kg	230	11.	1
n-Butylbenzene	ND		ug/kg	58	13.	1
sec-Butylbenzene	ND		ug/kg	58	12.	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	290	23.	1
Isopropylbenzene	ND		ug/kg	58	11.	1
p-Isopropyltoluene	ND		ug/kg	58	12.	1
Naphthalene	ND		ug/kg	290	8.0	1
n-Propylbenzene	ND		ug/kg	58	12.	1
1,2,3-Trichlorobenzene	ND		ug/kg	290	14.	1
1,2,4-Trichlorobenzene	ND		ug/kg	290	12.	1
1,3,5-Trimethylbenzene	ND		ug/kg	290	9.3	1
1,2,4-Trimethylbenzene	ND		ug/kg	290	11.	1
Methyl Acetate	ND		ug/kg	1200	27.	1
Cyclohexane	ND		ug/kg	1200	25.	1
1,4-Dioxane	ND		ug/kg	2300	830	1
Freon-113	ND		ug/kg	1200	30.	1
Methyl cyclohexane	ND		ug/kg	230	14.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	106		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	98		70-130

Project Name: PIERCE ARROW APARTMENTS **Lab Number:** L1723613

Project Number: 56831.10 **Report Date:** 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-14
Client ID: SP-9-2-071117
Sample Location: BUFFALO, NY

Date Collected: 07/11/17 13:20
Date Received: 07/11/17
Field Prep: Not Specified

Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 07/16/17 15:51
Analyst: MV
Percent Solids: 86%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	1100	190	1
1,1-Dichloroethane	ND		ug/kg	170	30.	1
Chloroform	ND		ug/kg	170	42.	1
Carbon tetrachloride	ND		ug/kg	110	39.	1
1,2-Dichloropropane	ND		ug/kg	400	26.	1
Dibromochloromethane	ND		ug/kg	110	20.	1
1,1,2-Trichloroethane	ND		ug/kg	170	35.	1
Tetrachloroethene	ND		ug/kg	110	34.	1
Chlorobenzene	ND		ug/kg	110	39.	1
Trichlorofluoromethane	ND		ug/kg	560	47.	1
1,2-Dichloroethane	ND		ug/kg	110	28.	1
1,1,1-Trichloroethane	ND		ug/kg	110	40.	1
Bromodichloromethane	ND		ug/kg	110	35.	1
trans-1,3-Dichloropropene	ND		ug/kg	110	23.	1
cis-1,3-Dichloropropene	ND		ug/kg	110	26.	1
Bromoform	ND		ug/kg	450	27.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	110	34.	1
Benzene	ND		ug/kg	110	22.	1
Toluene	100	J	ug/kg	170	22.	1
Ethylbenzene	ND		ug/kg	110	19.	1
Chloromethane	ND		ug/kg	560	49.	1
Bromomethane	75	J	ug/kg	220	38.	1
Vinyl chloride	ND		ug/kg	220	36.	1
Chloroethane	ND		ug/kg	220	36.	1
1,1-Dichloroethene	ND		ug/kg	110	42.	1
trans-1,2-Dichloroethene	ND		ug/kg	170	27.	1
Trichloroethene	ND		ug/kg	110	34.	1
1,2-Dichlorobenzene	ND		ug/kg	560	20.	1
1,3-Dichlorobenzene	ND		ug/kg	560	25.	1
1,4-Dichlorobenzene	ND		ug/kg	560	20.	1

Project Name: PIERCE ARROW APARTMENTS **Lab Number:** L1723613

Project Number: 56831.10 **Report Date:** 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-14 Date Collected: 07/11/17 13:20

Client ID: SP-9-2-071117 Date Received: 07/11/17

Sample Location: BUFFALO, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	220	17.	1
p/m-Xylene	200	J	ug/kg	220	40.	1
o-Xylene	110	J	ug/kg	220	38.	1
cis-1,2-Dichloroethene	ND		ug/kg	110	39.	1
Styrene	ND		ug/kg	220	45.	1
Dichlorodifluoromethane	ND		ug/kg	1100	56.	1
Acetone	ND		ug/kg	1100	260	1
Carbon disulfide	ND		ug/kg	1100	120	1
2-Butanone	ND		ug/kg	1100	78.	1
4-Methyl-2-pentanone	ND		ug/kg	1100	28.	1
2-Hexanone	ND		ug/kg	1100	75.	1
Bromochloromethane	ND		ug/kg	560	40.	1
1,2-Dibromoethane	ND		ug/kg	450	22.	1
n-Butylbenzene	ND		ug/kg	110	26.	1
sec-Butylbenzene	ND		ug/kg	110	24.	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	560	45.	1
Isopropylbenzene	ND		ug/kg	110	22.	1
p-Isopropyltoluene	ND		ug/kg	110	23.	1
Naphthalene	64	J	ug/kg	560	16.	1
n-Propylbenzene	ND		ug/kg	110	24.	1
1,2,3-Trichlorobenzene	ND		ug/kg	560	28.	1
1,2,4-Trichlorobenzene	ND		ug/kg	560	24.	1
1,3,5-Trimethylbenzene	45	J	ug/kg	560	18.	1
1,2,4-Trimethylbenzene	95	J	ug/kg	560	21.	1
Methyl Acetate	ND		ug/kg	2200	52.	1
Cyclohexane	290	J	ug/kg	2200	49.	1
1,4-Dioxane	ND		ug/kg	4500	1600	1
Freon-113	ND		ug/kg	2200	58.	1
Methyl cyclohexane	810		ug/kg	450	27.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
Toluene-d8	105		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	100		70-130

Project Name: PIERCE ARROW APARTMENTS **Lab Number:** L1723613

Project Number: 56831.10 **Report Date:** 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-16
Client ID: SP-10-4-071117
Sample Location: BUFFALO, NY

Date Collected: 07/11/17 13:50
Date Received: 07/11/17
Field Prep: Not Specified

Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 07/16/17 18:55
Analyst: MV
Percent Solids: 76%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	1200	200	1
1,1-Dichloroethane	ND		ug/kg	180	33.	1
Chloroform	ND		ug/kg	180	45.	1
Carbon tetrachloride	ND		ug/kg	120	42.	1
1,2-Dichloropropane	ND		ug/kg	430	28.	1
Dibromochloromethane	ND		ug/kg	120	21.	1
1,1,2-Trichloroethane	ND		ug/kg	180	38.	1
Tetrachloroethene	ND		ug/kg	120	37.	1
Chlorobenzene	ND		ug/kg	120	42.	1
Trichlorofluoromethane	ND		ug/kg	610	51.	1
1,2-Dichloroethane	ND		ug/kg	120	30.	1
1,1,1-Trichloroethane	ND		ug/kg	120	43.	1
Bromodichloromethane	ND		ug/kg	120	38.	1
trans-1,3-Dichloropropene	ND		ug/kg	120	25.	1
cis-1,3-Dichloropropene	ND		ug/kg	120	28.	1
Bromoform	ND		ug/kg	490	29.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	120	36.	1
Benzene	120		ug/kg	120	24.	1
Toluene	580		ug/kg	180	24.	1
Ethylbenzene	100	J	ug/kg	120	21.	1
Chloromethane	ND		ug/kg	610	53.	1
Bromomethane	ND		ug/kg	240	41.	1
Vinyl chloride	ND		ug/kg	240	38.	1
Chloroethane	ND		ug/kg	240	38.	1
1,1-Dichloroethene	ND		ug/kg	120	45.	1
trans-1,2-Dichloroethene	ND		ug/kg	180	29.	1
Trichloroethene	290		ug/kg	120	37.	1
1,2-Dichlorobenzene	ND		ug/kg	610	22.	1
1,3-Dichlorobenzene	ND		ug/kg	610	26.	1
1,4-Dichlorobenzene	ND		ug/kg	610	22.	1

Project Name: PIERCE ARROW APARTMENTS **Lab Number:** L1723613

Project Number: 56831.10 **Report Date:** 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-16 Date Collected: 07/11/17 13:50

Client ID: SP-10-4-071117 Date Received: 07/11/17

Sample Location: BUFFALO, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	240	19.	1
p/m-Xylene	720		ug/kg	240	43.	1
o-Xylene	390		ug/kg	240	41.	1
cis-1,2-Dichloroethene	ND		ug/kg	120	42.	1
Styrene	ND		ug/kg	240	49.	1
Dichlorodifluoromethane	ND		ug/kg	1200	61.	1
Acetone	ND		ug/kg	1200	280	1
Carbon disulfide	ND		ug/kg	1200	130	1
2-Butanone	ND		ug/kg	1200	84.	1
4-Methyl-2-pentanone	ND		ug/kg	1200	30.	1
2-Hexanone	ND		ug/kg	1200	81.	1
Bromochloromethane	ND		ug/kg	610	44.	1
1,2-Dibromoethane	ND		ug/kg	490	24.	1
n-Butylbenzene	ND		ug/kg	120	28.	1
sec-Butylbenzene	31	J	ug/kg	120	26.	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	610	48.	1
Isopropylbenzene	46	J	ug/kg	120	24.	1
p-Isopropyltoluene	28	J	ug/kg	120	25.	1
Naphthalene	220	J	ug/kg	610	17.	1
n-Propylbenzene	53	J	ug/kg	120	26.	1
1,2,3-Trichlorobenzene	ND		ug/kg	610	30.	1
1,2,4-Trichlorobenzene	ND		ug/kg	610	26.	1
1,3,5-Trimethylbenzene	140	J	ug/kg	610	20.	1
1,2,4-Trimethylbenzene	320	J	ug/kg	610	23.	1
Methyl Acetate	1100	J	ug/kg	2400	56.	1
Cyclohexane	320	J	ug/kg	2400	53.	1
1,4-Dioxane	ND		ug/kg	4900	1800	1
Freon-113	ND		ug/kg	2400	63.	1
Methyl cyclohexane	1300		ug/kg	490	29.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	108		70-130
4-Bromofluorobenzene	109		70-130
Dibromofluoromethane	97		70-130

Project Name: PIERCE ARROW APARTMENTS **Lab Number:** L1723613

Project Number: 56831.10 **Report Date:** 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-18
Client ID: SP-11-3-071117
Sample Location: BUFFALO, NY

Date Collected: 07/11/17 14:20
Date Received: 07/11/17
Field Prep: Not Specified

Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 07/16/17 19:21
Analyst: MV
Percent Solids: 92%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	1300	220	1
1,1-Dichloroethane	ND		ug/kg	200	36.	1
Chloroform	ND		ug/kg	200	49.	1
Carbon tetrachloride	ND		ug/kg	130	46.	1
1,2-Dichloropropane	ND		ug/kg	460	30.	1
Dibromochloromethane	ND		ug/kg	130	23.	1
1,1,2-Trichloroethane	ND		ug/kg	200	42.	1
Tetrachloroethene	ND		ug/kg	130	40.	1
Chlorobenzene	ND		ug/kg	130	46.	1
Trichlorofluoromethane	ND		ug/kg	660	55.	1
1,2-Dichloroethane	ND		ug/kg	130	33.	1
1,1,1-Trichloroethane	ND		ug/kg	130	46.	1
Bromodichloromethane	ND		ug/kg	130	41.	1
trans-1,3-Dichloropropene	ND		ug/kg	130	28.	1
cis-1,3-Dichloropropene	ND		ug/kg	130	31.	1
Bromoform	ND		ug/kg	530	32.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	130	40.	1
Benzene	360		ug/kg	130	26.	1
Toluene	6800		ug/kg	200	26.	1
Ethylbenzene	1800		ug/kg	130	23.	1
Chloromethane	73	J	ug/kg	660	58.	1
Bromomethane	ND		ug/kg	260	45.	1
Vinyl chloride	ND		ug/kg	260	42.	1
Chloroethane	ND		ug/kg	260	42.	1
1,1-Dichloroethene	ND		ug/kg	130	49.	1
trans-1,2-Dichloroethene	ND		ug/kg	200	32.	1
Trichloroethene	ND		ug/kg	130	40.	1
1,2-Dichlorobenzene	ND		ug/kg	660	24.	1
1,3-Dichlorobenzene	ND		ug/kg	660	29.	1
1,4-Dichlorobenzene	ND		ug/kg	660	24.	1

Project Name: PIERCE ARROW APARTMENTS **Lab Number:** L1723613

Project Number: 56831.10 **Report Date:** 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-18 Date Collected: 07/11/17 14:20

Client ID: SP-11-3-071117 Date Received: 07/11/17

Sample Location: BUFFALO, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	260	20.	1
p/m-Xylene	10000		ug/kg	260	47.	1
o-Xylene	6300		ug/kg	260	45.	1
cis-1,2-Dichloroethene	ND		ug/kg	130	45.	1
Styrene	ND		ug/kg	260	53.	1
Dichlorodifluoromethane	ND		ug/kg	1300	66.	1
Acetone	1800		ug/kg	1300	300	1
Carbon disulfide	ND		ug/kg	1300	150	1
2-Butanone	ND		ug/kg	1300	92.	1
4-Methyl-2-pentanone	ND		ug/kg	1300	32.	1
2-Hexanone	ND		ug/kg	1300	88.	1
Bromochloromethane	ND		ug/kg	660	47.	1
1,2-Dibromoethane	ND		ug/kg	530	26.	1
n-Butylbenzene	310		ug/kg	130	30.	1
sec-Butylbenzene	240		ug/kg	130	29.	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	660	53.	1
Isopropylbenzene	620		ug/kg	130	26.	1
p-Isopropyltoluene	220		ug/kg	130	27.	1
Naphthalene	5400		ug/kg	660	18.	1
n-Propylbenzene	960		ug/kg	130	28.	1
1,2,3-Trichlorobenzene	ND		ug/kg	660	33.	1
1,2,4-Trichlorobenzene	ND		ug/kg	660	28.	1
1,3,5-Trimethylbenzene	860		ug/kg	660	21.	1
1,2,4-Trimethylbenzene	3700		ug/kg	660	25.	1
Methyl Acetate	ND		ug/kg	2600	62.	1
Cyclohexane	7200		ug/kg	2600	58.	1
1,4-Dioxane	ND		ug/kg	5300	1900	1
Freon-113	ND		ug/kg	2600	68.	1
Methyl cyclohexane	19000		ug/kg	530	32.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	119		70-130
4-Bromofluorobenzene	120		70-130
Dibromofluoromethane	99		70-130

Project Name: PIERCE ARROW APARTMENTS **Lab Number:** L1723613

Project Number: 56831.10 **Report Date:** 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-20
Client ID: SP-12-1.5-071117
Sample Location: BUFFALO, NY

Date Collected: 07/11/17 14:45
Date Received: 07/11/17
Field Prep: Not Specified

Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 07/15/17 18:33
Analyst: CBN
Percent Solids: 79%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	960	160	1
1,1-Dichloroethane	ND		ug/kg	140	26.	1
Chloroform	ND		ug/kg	140	36.	1
Carbon tetrachloride	ND		ug/kg	96	33.	1
1,2-Dichloropropane	ND		ug/kg	340	22.	1
Dibromochloromethane	ND		ug/kg	96	17.	1
1,1,2-Trichloroethane	ND		ug/kg	140	30.	1
Tetrachloroethene	ND		ug/kg	96	29.	1
Chlorobenzene	ND		ug/kg	96	34.	1
Trichlorofluoromethane	ND		ug/kg	480	40.	1
1,2-Dichloroethane	ND		ug/kg	96	24.	1
1,1,1-Trichloroethane	ND		ug/kg	96	34.	1
Bromodichloromethane	ND		ug/kg	96	30.	1
trans-1,3-Dichloropropene	ND		ug/kg	96	20.	1
cis-1,3-Dichloropropene	ND		ug/kg	96	22.	1
Bromoform	ND		ug/kg	390	23.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	96	29.	1
Benzene	ND		ug/kg	96	19.	1
Toluene	22	J	ug/kg	140	19.	1
Ethylbenzene	ND		ug/kg	96	16.	1
Chloromethane	ND		ug/kg	480	42.	1
Bromomethane	ND		ug/kg	190	33.	1
Vinyl chloride	ND		ug/kg	190	30.	1
Chloroethane	ND		ug/kg	190	30.	1
1,1-Dichloroethene	ND		ug/kg	96	36.	1
trans-1,2-Dichloroethene	ND		ug/kg	140	23.	1
Trichloroethene	43	J	ug/kg	96	29.	1
1,2-Dichlorobenzene	ND		ug/kg	480	18.	1
1,3-Dichlorobenzene	ND		ug/kg	480	21.	1
1,4-Dichlorobenzene	ND		ug/kg	480	18.	1

Project Name: PIERCE ARROW APARTMENTS **Lab Number:** L1723613

Project Number: 56831.10 **Report Date:** 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-20 Date Collected: 07/11/17 14:45

Client ID: SP-12-1.5-071117 Date Received: 07/11/17

Sample Location: BUFFALO, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	190	15.	1
p/m-Xylene	39	J	ug/kg	190	34.	1
o-Xylene	40	J	ug/kg	190	33.	1
cis-1,2-Dichloroethene	ND		ug/kg	96	33.	1
Styrene	ND		ug/kg	190	39.	1
Dichlorodifluoromethane	ND		ug/kg	960	48.	1
Acetone	320	J	ug/kg	960	220	1
Carbon disulfide	150	J	ug/kg	960	110	1
2-Butanone	ND		ug/kg	960	67.	1
4-Methyl-2-pentanone	ND		ug/kg	960	24.	1
2-Hexanone	ND		ug/kg	960	64.	1
Bromochloromethane	ND		ug/kg	480	34.	1
1,2-Dibromoethane	ND		ug/kg	390	19.	1
n-Butylbenzene	ND		ug/kg	96	22.	1
sec-Butylbenzene	ND		ug/kg	96	21.	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	480	38.	1
Isopropylbenzene	ND		ug/kg	96	19.	1
p-Isopropyltoluene	ND		ug/kg	96	20.	1
Naphthalene	40	J	ug/kg	480	13.	1
n-Propylbenzene	ND		ug/kg	96	21.	1
1,2,3-Trichlorobenzene	ND		ug/kg	480	24.	1
1,2,4-Trichlorobenzene	ND		ug/kg	480	21.	1
1,3,5-Trimethylbenzene	17	J	ug/kg	480	16.	1
1,2,4-Trimethylbenzene	32	J	ug/kg	480	18.	1
Methyl Acetate	420	J	ug/kg	1900	45.	1
Cyclohexane	88	J	ug/kg	1900	42.	1
1,4-Dioxane	ND		ug/kg	3900	1400	1
Freon-113	ND		ug/kg	1900	50.	1
Methyl cyclohexane	340	J	ug/kg	390	23.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	102		70-130

Project Name: PIERCE ARROW APARTMENTS **Lab Number:** L1723613

Project Number: 56831.10 **Report Date:** 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-22
Client ID: SP-13-4.5-071117
Sample Location: BUFFALO, NY

Date Collected: 07/11/17 15:15
Date Received: 07/11/17
Field Prep: Not Specified

Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 07/15/17 18:59
Analyst: CBN
Percent Solids: 73%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	1800	300	1
1,1-Dichloroethane	150	J	ug/kg	270	49.	1
Chloroform	ND		ug/kg	270	67.	1
Carbon tetrachloride	ND		ug/kg	180	63.	1
1,2-Dichloropropane	ND		ug/kg	640	42.	1
Dibromochloromethane	ND		ug/kg	180	32.	1
1,1,2-Trichloroethane	ND		ug/kg	270	57.	1
Tetrachloroethene	ND		ug/kg	180	55.	1
Chlorobenzene	ND		ug/kg	180	63.	1
Trichlorofluoromethane	ND		ug/kg	910	76.	1
1,2-Dichloroethane	ND		ug/kg	180	45.	1
1,1,1-Trichloroethane	ND		ug/kg	180	64.	1
Bromodichloromethane	ND		ug/kg	180	56.	1
trans-1,3-Dichloropropene	ND		ug/kg	180	38.	1
cis-1,3-Dichloropropene	ND		ug/kg	180	42.	1
Bromoform	ND		ug/kg	730	43.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	180	54.	1
Benzene	68	J	ug/kg	180	35.	1
Toluene	160	J	ug/kg	270	36.	1
Ethylbenzene	61	J	ug/kg	180	31.	1
Chloromethane	ND		ug/kg	910	79.	1
Bromomethane	ND		ug/kg	360	62.	1
Vinyl chloride	ND		ug/kg	360	57.	1
Chloroethane	ND		ug/kg	360	58.	1
1,1-Dichloroethene	ND		ug/kg	180	68.	1
trans-1,2-Dichloroethene	64	J	ug/kg	270	44.	1
Trichloroethene	23000		ug/kg	180	55.	1
1,2-Dichlorobenzene	ND		ug/kg	910	33.	1
1,3-Dichlorobenzene	ND		ug/kg	910	40.	1
1,4-Dichlorobenzene	ND		ug/kg	910	33.	1

Project Name: PIERCE ARROW APARTMENTS **Lab Number:** L1723613

Project Number: 56831.10 **Report Date:** 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-22 Date Collected: 07/11/17 15:15

Client ID: SP-13-4.5-071117 Date Received: 07/11/17

Sample Location: BUFFALO, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	360	28.	1
p/m-Xylene	370		ug/kg	360	64.	1
o-Xylene	120	J	ug/kg	360	62.	1
cis-1,2-Dichloroethene	730		ug/kg	180	62.	1
Styrene	ND		ug/kg	360	73.	1
Dichlorodifluoromethane	ND		ug/kg	1800	91.	1
Acetone	640	J	ug/kg	1800	420	1
Carbon disulfide	310	J	ug/kg	1800	200	1
2-Butanone	ND		ug/kg	1800	120	1
4-Methyl-2-pentanone	ND		ug/kg	1800	44.	1
2-Hexanone	ND		ug/kg	1800	120	1
Bromochloromethane	ND		ug/kg	910	65.	1
1,2-Dibromoethane	ND		ug/kg	730	36.	1
n-Butylbenzene	ND		ug/kg	180	42.	1
sec-Butylbenzene	ND		ug/kg	180	40.	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	910	72.	1
Isopropylbenzene	ND		ug/kg	180	35.	1
p-Isopropyltoluene	ND		ug/kg	180	37.	1
Naphthalene	ND		ug/kg	910	25.	1
n-Propylbenzene	ND		ug/kg	180	39.	1
1,2,3-Trichlorobenzene	ND		ug/kg	910	46.	1
1,2,4-Trichlorobenzene	ND		ug/kg	910	39.	1
1,3,5-Trimethylbenzene	77	J	ug/kg	910	29.	1
1,2,4-Trimethylbenzene	220	J	ug/kg	910	34.	1
Methyl Acetate	570	J	ug/kg	3600	84.	1
Cyclohexane	ND		ug/kg	3600	79.	1
1,4-Dioxane	ND		ug/kg	7300	2600	1
Freon-113	ND		ug/kg	3600	94.	1
Methyl cyclohexane	220	J	ug/kg	730	44.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	92		70-130
4-Bromofluorobenzene	114		70-130
Dibromofluoromethane	102		70-130

Project Name: PIERCE ARROW APARTMENTS **Lab Number:** L1723613

Project Number: 56831.10 **Report Date:** 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-24
Client ID: SUBSURFACE DUPLICATE -071117
Sample Location: BUFFALO, NY

Date Collected: 07/11/17 00:00
Date Received: 07/11/17
Field Prep: Not Specified

Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 07/15/17 19:24
Analyst: CBN
Percent Solids: 83%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	630	100	1
1,1-Dichloroethane	ND		ug/kg	94	17.	1
Chloroform	ND		ug/kg	94	23.	1
Carbon tetrachloride	ND		ug/kg	63	22.	1
1,2-Dichloropropane	ND		ug/kg	220	14.	1
Dibromochloromethane	ND		ug/kg	63	11.	1
1,1,2-Trichloroethane	ND		ug/kg	94	20.	1
Tetrachloroethene	ND		ug/kg	63	19.	1
Chlorobenzene	ND		ug/kg	63	22.	1
Trichlorofluoromethane	ND		ug/kg	310	26.	1
1,2-Dichloroethane	ND		ug/kg	63	15.	1
1,1,1-Trichloroethane	ND		ug/kg	63	22.	1
Bromodichloromethane	ND		ug/kg	63	19.	1
trans-1,3-Dichloropropene	ND		ug/kg	63	13.	1
cis-1,3-Dichloropropene	ND		ug/kg	63	14.	1
Bromoform	ND		ug/kg	250	15.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	63	19.	1
Benzene	ND		ug/kg	63	12.	1
Toluene	ND		ug/kg	94	12.	1
Ethylbenzene	ND		ug/kg	63	11.	1
Chloromethane	ND		ug/kg	310	27.	1
Bromomethane	ND		ug/kg	120	21.	1
Vinyl chloride	ND		ug/kg	120	20.	1
Chloroethane	ND		ug/kg	120	20.	1
1,1-Dichloroethene	ND		ug/kg	63	23.	1
trans-1,2-Dichloroethene	ND		ug/kg	94	15.	1
Trichloroethene	ND		ug/kg	63	19.	1
1,2-Dichlorobenzene	ND		ug/kg	310	11.	1
1,3-Dichlorobenzene	ND		ug/kg	310	14.	1
1,4-Dichlorobenzene	ND		ug/kg	310	11.	1

Project Name: PIERCE ARROW APARTMENTS **Lab Number:** L1723613

Project Number: 56831.10 **Report Date:** 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-24 Date Collected: 07/11/17 00:00

Client ID: SUBSURFACE DUPLICATE -071117 Date Received: 07/11/17

Sample Location: BUFFALO, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	120	9.6	1
p/m-Xylene	ND		ug/kg	120	22.	1
o-Xylene	ND		ug/kg	120	21.	1
cis-1,2-Dichloroethene	ND		ug/kg	63	21.	1
Styrene	ND		ug/kg	120	25.	1
Dichlorodifluoromethane	ND		ug/kg	630	31.	1
Acetone	190	J	ug/kg	630	140	1
Carbon disulfide	180	J	ug/kg	630	69.	1
2-Butanone	ND		ug/kg	630	43.	1
4-Methyl-2-pentanone	ND		ug/kg	630	15.	1
2-Hexanone	ND		ug/kg	630	42.	1
Bromochloromethane	ND		ug/kg	310	22.	1
1,2-Dibromoethane	ND		ug/kg	250	12.	1
n-Butylbenzene	ND		ug/kg	63	14.	1
sec-Butylbenzene	ND		ug/kg	63	14.	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	310	25.	1
Isopropylbenzene	ND		ug/kg	63	12.	1
p-Isopropyltoluene	ND		ug/kg	63	13.	1
Naphthalene	ND		ug/kg	310	8.6	1
n-Propylbenzene	ND		ug/kg	63	13.	1
1,2,3-Trichlorobenzene	ND		ug/kg	310	16.	1
1,2,4-Trichlorobenzene	ND		ug/kg	310	13.	1
1,3,5-Trimethylbenzene	ND		ug/kg	310	10.	1
1,2,4-Trimethylbenzene	ND		ug/kg	310	12.	1
Methyl Acetate	ND		ug/kg	1200	29.	1
Cyclohexane	ND		ug/kg	1200	27.	1
1,4-Dioxane	ND		ug/kg	2500	900	1
Freon-113	ND		ug/kg	1200	32.	1
Methyl cyclohexane	ND		ug/kg	250	15.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	101		70-130

Project Name: PIERCE ARROW APARTMENTS **Lab Number:** L1723613

Project Number: 56831.10 **Report Date:** 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-25
Client ID: SP-9-GW-071117
Sample Location: BUFFALO, NY

Date Collected: 07/11/17 15:30
Date Received: 07/11/17
Field Prep: Not Specified

Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 07/15/17 14:53
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	0.29	J	ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: PIERCE ARROW APARTMENTS **Lab Number:** L1723613

Project Number: 56831.10 **Report Date:** 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-25 Date Collected: 07/11/17 15:30

Client ID: SP-9-GW-071117 Date Received: 07/11/17

Sample Location: BUFFALO, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	0.96	J	ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	61.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	120		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	88		70-130
Dibromofluoromethane	114		70-130

Project Name: PIERCE ARROW APARTMENTS **Lab Number:** L1723613

Project Number: 56831.10 **Report Date:** 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-26
Client ID: SP-13-GW-071117
Sample Location: BUFFALO, NY

Date Collected: 07/11/17 15:45
Date Received: 07/11/17
Field Prep: Not Specified

Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 07/17/17 23:30
Analyst: PK

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	3.2		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	28		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: PIERCE ARROW APARTMENTS **Lab Number:** L1723613

Project Number: 56831.10 **Report Date:** 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-26 Date Collected: 07/11/17 15:45

Client ID: SP-13-GW-071117 Date Received: 07/11/17

Sample Location: BUFFALO, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	2.3	J	ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	9.3		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	61.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	0.54	J	ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	114		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	110		70-130

Project Name: PIERCE ARROW APARTMENTS **Lab Number:** L1723613

Project Number: 56831.10 **Report Date:** 07/19/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 07/15/17 10:52
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 20,22,24 Batch: WG1023111-5					
Methylene chloride	ND		ug/kg	500	82.
1,1-Dichloroethane	ND		ug/kg	75	14.
Chloroform	ND		ug/kg	75	18.
Carbon tetrachloride	ND		ug/kg	50	17.
1,2-Dichloropropane	ND		ug/kg	180	11.
Dibromochloromethane	ND		ug/kg	50	8.8
1,1,2-Trichloroethane	ND		ug/kg	75	16.
Tetrachloroethene	ND		ug/kg	50	15.
Chlorobenzene	ND		ug/kg	50	17.
Trichlorofluoromethane	ND		ug/kg	250	21.
1,2-Dichloroethane	ND		ug/kg	50	12.
1,1,1-Trichloroethane	ND		ug/kg	50	18.
Bromodichloromethane	ND		ug/kg	50	15.
trans-1,3-Dichloropropene	ND		ug/kg	50	10.
cis-1,3-Dichloropropene	ND		ug/kg	50	12.
Bromoform	ND		ug/kg	200	12.
1,1,2,2-Tetrachloroethane	ND		ug/kg	50	15.
Benzene	ND		ug/kg	50	9.6
Toluene	ND		ug/kg	75	9.8
Ethylbenzene	ND		ug/kg	50	8.5
Chloromethane	ND		ug/kg	250	22.
Bromomethane	ND		ug/kg	100	17.
Vinyl chloride	ND		ug/kg	100	16.
Chloroethane	ND		ug/kg	100	16.
1,1-Dichloroethene	ND		ug/kg	50	19.
trans-1,2-Dichloroethene	ND		ug/kg	75	12.
Trichloroethene	ND		ug/kg	50	15.
1,2-Dichlorobenzene	ND		ug/kg	250	9.1
1,3-Dichlorobenzene	ND		ug/kg	250	11.

Project Name: PIERCE ARROW APARTMENTS **Lab Number:** L1723613

Project Number: 56831.10 **Report Date:** 07/19/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 07/15/17 10:52
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 20,22,24 Batch: WG1023111-5					
1,4-Dichlorobenzene	ND		ug/kg	250	9.1
Methyl tert butyl ether	ND		ug/kg	100	7.6
p/m-Xylene	ND		ug/kg	100	18.
o-Xylene	ND		ug/kg	100	17.
cis-1,2-Dichloroethene	ND		ug/kg	50	17.
Styrene	ND		ug/kg	100	20.
Dichlorodifluoromethane	ND		ug/kg	500	25.
Acetone	120	J	ug/kg	500	110
Carbon disulfide	380	J	ug/kg	500	55.
2-Butanone	ND		ug/kg	500	34.
4-Methyl-2-pentanone	ND		ug/kg	500	12.
2-Hexanone	ND		ug/kg	500	33.
Bromochloromethane	ND		ug/kg	250	18.
1,2-Dibromoethane	ND		ug/kg	200	10.
n-Butylbenzene	ND		ug/kg	50	11.
sec-Butylbenzene	ND		ug/kg	50	11.
1,2-Dibromo-3-chloropropane	ND		ug/kg	250	20.
Isopropylbenzene	ND		ug/kg	50	9.7
p-Isopropyltoluene	ND		ug/kg	50	10.
Naphthalene	ND		ug/kg	250	6.9
n-Propylbenzene	ND		ug/kg	50	11.
1,2,3-Trichlorobenzene	ND		ug/kg	250	12.
1,2,4-Trichlorobenzene	ND		ug/kg	250	11.
1,3,5-Trimethylbenzene	ND		ug/kg	250	8.0
1,2,4-Trimethylbenzene	ND		ug/kg	250	9.3
Methyl Acetate	ND		ug/kg	1000	23.
Cyclohexane	ND		ug/kg	1000	22.
1,4-Dioxane	ND		ug/kg	2000	720
Freon-113	ND		ug/kg	1000	26.

Project Name: PIERCE ARROW APARTMENTS **Lab Number:** L1723613

Project Number: 56831.10 **Report Date:** 07/19/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 07/15/17 10:52
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 20,22,24 Batch: WG1023111-5					
Methyl cyclohexane	ND		ug/kg	200	12.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	107		70-130

Project Name: PIERCE ARROW APARTMENTS **Lab Number:** L1723613

Project Number: 56831.10 **Report Date:** 07/19/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 07/16/17 09:44
Analyst: CBN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01,03-04,06,08,10,12,14,16,18 Batch: WG1023156-5					
Methylene chloride	ND		ug/kg	500	82.
1,1-Dichloroethane	ND		ug/kg	75	14.
Chloroform	ND		ug/kg	75	18.
Carbon tetrachloride	ND		ug/kg	50	17.
1,2-Dichloropropane	ND		ug/kg	180	11.
Dibromochloromethane	ND		ug/kg	50	8.8
1,1,2-Trichloroethane	ND		ug/kg	75	16.
Tetrachloroethene	ND		ug/kg	50	15.
Chlorobenzene	ND		ug/kg	50	17.
Trichlorofluoromethane	ND		ug/kg	250	21.
1,2-Dichloroethane	ND		ug/kg	50	12.
1,1,1-Trichloroethane	ND		ug/kg	50	18.
Bromodichloromethane	ND		ug/kg	50	15.
trans-1,3-Dichloropropene	ND		ug/kg	50	10.
cis-1,3-Dichloropropene	ND		ug/kg	50	12.
Bromoform	ND		ug/kg	200	12.
1,1,2,2-Tetrachloroethane	ND		ug/kg	50	15.
Benzene	ND		ug/kg	50	9.6
Toluene	ND		ug/kg	75	9.8
Ethylbenzene	ND		ug/kg	50	8.5
Chloromethane	ND		ug/kg	250	22.
Bromomethane	37	J	ug/kg	100	17.
Vinyl chloride	ND		ug/kg	100	16.
Chloroethane	ND		ug/kg	100	16.
1,1-Dichloroethene	ND		ug/kg	50	19.
trans-1,2-Dichloroethene	ND		ug/kg	75	12.
Trichloroethene	ND		ug/kg	50	15.
1,2-Dichlorobenzene	ND		ug/kg	250	9.1
1,3-Dichlorobenzene	ND		ug/kg	250	11.

Project Name: PIERCE ARROW APARTMENTS **Lab Number:** L1723613

Project Number: 56831.10 **Report Date:** 07/19/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 07/16/17 09:44
Analyst: CBN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01,03-04,06,08,10,12,14,16,18 Batch: WG1023156-5					
1,4-Dichlorobenzene	ND		ug/kg	250	9.1
Methyl tert butyl ether	ND		ug/kg	100	7.6
p/m-Xylene	ND		ug/kg	100	18.
o-Xylene	ND		ug/kg	100	17.
cis-1,2-Dichloroethene	ND		ug/kg	50	17.
Styrene	ND		ug/kg	100	20.
Dichlorodifluoromethane	ND		ug/kg	500	25.
Acetone	110	J	ug/kg	500	110
Carbon disulfide	120	J	ug/kg	500	55.
2-Butanone	ND		ug/kg	500	34.
4-Methyl-2-pentanone	ND		ug/kg	500	12.
2-Hexanone	ND		ug/kg	500	33.
Bromochloromethane	ND		ug/kg	250	18.
1,2-Dibromoethane	ND		ug/kg	200	10.
n-Butylbenzene	ND		ug/kg	50	11.
sec-Butylbenzene	ND		ug/kg	50	11.
1,2-Dibromo-3-chloropropane	ND		ug/kg	250	20.
Isopropylbenzene	ND		ug/kg	50	9.7
p-Isopropyltoluene	ND		ug/kg	50	10.
Naphthalene	ND		ug/kg	250	6.9
n-Propylbenzene	ND		ug/kg	50	11.
1,2,3-Trichlorobenzene	ND		ug/kg	250	12.
1,2,4-Trichlorobenzene	ND		ug/kg	250	11.
1,3,5-Trimethylbenzene	ND		ug/kg	250	8.0
1,2,4-Trimethylbenzene	ND		ug/kg	250	9.3
Methyl Acetate	ND		ug/kg	1000	23.
Cyclohexane	ND		ug/kg	1000	22.
1,4-Dioxane	ND		ug/kg	2000	720
Freon-113	ND		ug/kg	1000	26.

Project Name: PIERCE ARROW APARTMENTS **Lab Number:** L1723613

Project Number: 56831.10 **Report Date:** 07/19/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 07/16/17 09:44
Analyst: CBN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01,03-04,06,08,10,12,14,16,18 Batch: WG1023156-5					
Methyl cyclohexane	ND		ug/kg	200	12.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	99		70-130

Project Name: PIERCE ARROW APARTMENTS **Lab Number:** L1723613

Project Number: 56831.10 **Report Date:** 07/19/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 07/15/17 09:02
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 25 Batch: WG1023200-5					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.17
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70

Project Name: PIERCE ARROW APARTMENTS **Lab Number:** L1723613

Project Number: 56831.10 **Report Date:** 07/19/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 07/15/17 09:02
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 25 Batch: WG1023200-5					
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
n-Butylbenzene	ND		ug/l	2.5	0.70
sec-Butylbenzene	ND		ug/l	2.5	0.70
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
p-Isopropyltoluene	ND		ug/l	2.5	0.70
Naphthalene	ND		ug/l	2.5	0.70
n-Propylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70
Methyl Acetate	ND		ug/l	2.0	0.23
Cyclohexane	ND		ug/l	10	0.27
1,4-Dioxane	ND		ug/l	250	61.
Freon-113	ND		ug/l	2.5	0.70

Project Name: PIERCE ARROW APARTMENTS **Lab Number:** L1723613

Project Number: 56831.10 **Report Date:** 07/19/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 07/15/17 09:02
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 25 Batch: WG1023200-5					
Methyl cyclohexane	ND		ug/l	10	0.40

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	115		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	107		70-130

Project Name: PIERCE ARROW APARTMENTS **Lab Number:** L1723613

Project Number: 56831.10 **Report Date:** 07/19/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 07/17/17 22:05
Analyst: PK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 26 Batch: WG1023473-5					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.17
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70

Project Name: PIERCE ARROW APARTMENTS **Lab Number:** L1723613

Project Number: 56831.10 **Report Date:** 07/19/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 07/17/17 22:05
Analyst: PK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 26 Batch: WG1023473-5					
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
n-Butylbenzene	ND		ug/l	2.5	0.70
sec-Butylbenzene	ND		ug/l	2.5	0.70
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
p-Isopropyltoluene	ND		ug/l	2.5	0.70
Naphthalene	ND		ug/l	2.5	0.70
n-Propylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70
Methyl Acetate	ND		ug/l	2.0	0.23
Cyclohexane	ND		ug/l	10	0.27
1,4-Dioxane	ND		ug/l	250	61.
Freon-113	ND		ug/l	2.5	0.70

Project Name: PIERCE ARROW APARTMENTS **Lab Number:** L1723613

Project Number: 56831.10 **Report Date:** 07/19/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 07/17/17 22:05
Analyst: PK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 26 Batch: WG1023473-5					
Methyl cyclohexane	ND		ug/l	10	0.40

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	115		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	111		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: PIERCE ARROW APARTMENTS
Project Number: 56831.10

Lab Number: L1723613
Report Date: 07/19/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 20,22,24 Batch: WG1023111-3 WG1023111-4								
Methylene chloride	112		113		70-130	1		30
1,1-Dichloroethane	118		116		70-130	2		30
Chloroform	117		115		70-130	2		30
Carbon tetrachloride	113		113		70-130	0		30
1,2-Dichloropropane	114		112		70-130	2		30
Dibromochloromethane	100		97		70-130	3		30
1,1,2-Trichloroethane	103		100		70-130	3		30
Tetrachloroethene	101		98		70-130	3		30
Chlorobenzene	101		99		70-130	2		30
Trichlorofluoromethane	120		117		70-139	3		30
1,2-Dichloroethane	116		116		70-130	0		30
1,1,1-Trichloroethane	117		115		70-130	2		30
Bromodichloromethane	112		112		70-130	0		30
trans-1,3-Dichloropropene	102		99		70-130	3		30
cis-1,3-Dichloropropene	109		109		70-130	0		30
Bromoform	99		94		70-130	5		30
1,1,2,2-Tetrachloroethane	97		95		70-130	2		30
Benzene	114		112		70-130	2		30
Toluene	105		98		70-130	7		30
Ethylbenzene	104		100		70-130	4		30
Chloromethane	120		119		52-130	1		30
Bromomethane	113		113		57-147	0		30
Vinyl chloride	116		117		67-130	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: PIERCE ARROW APARTMENTS

Project Number: 56831.10

Lab Number: L1723613

Report Date: 07/19/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 20,22,24 Batch: WG1023111-3 WG1023111-4								
Chloroethane	127		123		50-151	3		30
1,1-Dichloroethene	112		112		65-135	0		30
trans-1,2-Dichloroethene	112		110		70-130	2		30
Trichloroethene	116		111		70-130	4		30
1,2-Dichlorobenzene	95		97		70-130	2		30
1,3-Dichlorobenzene	97		94		70-130	3		30
1,4-Dichlorobenzene	95		93		70-130	2		30
Methyl tert butyl ether	107		109		66-130	2		30
p/m-Xylene	105		100		70-130	5		30
o-Xylene	102		98		70-130	4		30
cis-1,2-Dichloroethene	109		109		70-130	0		30
Styrene	105		99		70-130	6		30
Dichlorodifluoromethane	120		120		30-146	0		30
Acetone	115		113		54-140	2		30
Carbon disulfide	**137**	Q	**159**	Q	59-130	15		30
2-Butanone	116		109		70-130	6		30
4-Methyl-2-pentanone	92		90		70-130	2		30
2-Hexanone	98		96		70-130	2		30
Bromochloromethane	111		112		70-130	1		30
1,2-Dibromoethane	100		100		70-130	0		30
n-Butylbenzene	103		100		70-130	3		30
sec-Butylbenzene	101		100		70-130	1		30
1,2-Dibromo-3-chloropropane	90		94		68-130	4		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: PIERCE ARROW APARTMENTS

Project Number: 56831.10

Lab Number: L1723613

Report Date: 07/19/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 20,22,24 Batch: WG1023111-3 WG1023111-4								
Isopropylbenzene	100		96		70-130	4		30
p-Isopropyltoluene	100		98		70-130	2		30
Naphthalene	88		87		70-130	1		30
n-Propylbenzene	103		98		70-130	5		30
1,2,3-Trichlorobenzene	90		89		70-130	1		30
1,2,4-Trichlorobenzene	93		89		70-130	4		30
1,3,5-Trimethylbenzene	101		98		70-130	3		30
1,2,4-Trimethylbenzene	101		98		70-130	3		30
Methyl Acetate	117		114		51-146	3		30
Cyclohexane	117		115		59-142	2		30
1,4-Dioxane	92		103		65-136	11		30
Freon-113	116		115		50-139	1		30
Methyl cyclohexane	112		110		70-130	2		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	108		106		70-130
Toluene-d8	99		95		70-130
4-Bromofluorobenzene	101		98		70-130
Dibromofluoromethane	103		104		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: PIERCE ARROW APARTMENTS
Project Number: 56831.10

Lab Number: L1723613
Report Date: 07/19/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01,03-04,06,08,10,12,14,16,18 Batch: WG1023156-3 WG1023156-4								
Methylene chloride	81		90		70-130	11		30
1,1-Dichloroethane	83		95		70-130	13		30
Chloroform	85		95		70-130	11		30
Carbon tetrachloride	93		104		70-130	11		30
1,2-Dichloropropane	91		98		70-130	7		30
Dibromochloromethane	91		98		70-130	7		30
1,1,2-Trichloroethane	92		99		70-130	7		30
Tetrachloroethene	93		99		70-130	6		30
Chlorobenzene	90		97		70-130	7		30
Trichlorofluoromethane	85		94		70-139	10		30
1,2-Dichloroethane	90		99		70-130	10		30
1,1,1-Trichloroethane	90		99		70-130	10		30
Bromodichloromethane	92		100		70-130	8		30
trans-1,3-Dichloropropene	96		102		70-130	6		30
cis-1,3-Dichloropropene	86		92		70-130	7		30
Bromoform	93		97		70-130	4		30
1,1,2,2-Tetrachloroethane	93		98		70-130	5		30
Benzene	84		95		70-130	12		30
Toluene	93		99		70-130	6		30
Ethylbenzene	92		100		70-130	8		30
Chloromethane	81		88		52-130	8		30
Bromomethane	87		88		57-147	1		30
Vinyl chloride	88		99		67-130	12		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: PIERCE ARROW APARTMENTS
Project Number: 56831.10

Lab Number: L1723613
Report Date: 07/19/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01,03-04,06,08,10,12,14,16,18 Batch: WG1023156-3 WG1023156-4								
Chloroethane	83		87		50-151	5		30
1,1-Dichloroethene	72		77		65-135	7		30
trans-1,2-Dichloroethene	80		91		70-130	13		30
Trichloroethene	90		98		70-130	9		30
1,2-Dichlorobenzene	93		98		70-130	5		30
1,3-Dichlorobenzene	94		100		70-130	6		30
1,4-Dichlorobenzene	90		99		70-130	10		30
Methyl tert butyl ether	69		**62**	Q	66-130	11		30
p/m-Xylene	91		98		70-130	7		30
o-Xylene	90		97		70-130	7		30
cis-1,2-Dichloroethene	85		92		70-130	8		30
Styrene	90		98		70-130	9		30
Dichlorodifluoromethane	83		92		30-146	10		30
Acetone	95		100		54-140	5		30
Carbon disulfide	64		62		59-130	3		30
2-Butanone	84		87		70-130	4		30
4-Methyl-2-pentanone	98		103		70-130	5		30
2-Hexanone	97		102		70-130	5		30
Bromochloromethane	86		90		70-130	5		30
1,2-Dibromoethane	93		99		70-130	6		30
n-Butylbenzene	97		103		70-130	6		30
sec-Butylbenzene	95		103		70-130	8		30
1,2-Dibromo-3-chloropropane	90		92		68-130	2		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: PIERCE ARROW APARTMENTS

Project Number: 56831.10

Lab Number: L1723613

Report Date: 07/19/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01,03-04,06,08,10,12,14,16,18 Batch: WG1023156-3 WG1023156-4								
Isopropylbenzene	96		103		70-130	7		30
p-Isopropyltoluene	96		104		70-130	8		30
Naphthalene	91		94		70-130	3		30
n-Propylbenzene	96		104		70-130	8		30
1,2,3-Trichlorobenzene	93		98		70-130	5		30
1,2,4-Trichlorobenzene	91		97		70-130	6		30
1,3,5-Trimethylbenzene	95		105		70-130	10		30
1,2,4-Trimethylbenzene	96		104		70-130	8		30
Methyl Acetate	86		96		51-146	11		30
Cyclohexane	91		105		59-142	14		30
1,4-Dioxane	104		103		65-136	1		30
Freon-113	85		87		50-139	2		30
Methyl cyclohexane	91		100		70-130	9		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	104		106		70-130
Toluene-d8	108		108		70-130
4-Bromofluorobenzene	107		106		70-130
Dibromofluoromethane	98		100		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: PIERCE ARROW APARTMENTS

Project Number: 56831.10

Lab Number: L1723613

Report Date: 07/19/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 25 Batch: WG1023200-3 WG1023200-4								
Methylene chloride	96		100		70-130	4		20
1,1-Dichloroethane	93		99		70-130	6		20
Chloroform	98		100		70-130	2		20
Carbon tetrachloride	96		100		63-132	4		20
1,2-Dichloropropane	93		100		70-130	7		20
Dibromochloromethane	97		110		63-130	13		20
1,1,2-Trichloroethane	98		110		70-130	12		20
Tetrachloroethene	98		100		70-130	2		20
Chlorobenzene	93		99		75-130	6		20
Trichlorofluoromethane	92		96		62-150	4		20
1,2-Dichloroethane	100		110		70-130	10		20
1,1,1-Trichloroethane	95		100		67-130	5		20
Bromodichloromethane	99		100		67-130	1		20
trans-1,3-Dichloropropene	85		92		70-130	8		20
cis-1,3-Dichloropropene	87		92		70-130	6		20
Bromoform	82		88		54-136	7		20
1,1,2,2-Tetrachloroethane	90		98		67-130	9		20
Benzene	99		100		70-130	1		20
Toluene	91		97		70-130	6		20
Ethylbenzene	93		97		70-130	4		20
Chloromethane	87		89		64-130	2		20
Bromomethane	82		95		39-139	15		20
Vinyl chloride	93		94		55-140	1		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: PIERCE ARROW APARTMENTS

Project Number: 56831.10

Lab Number: L1723613

Report Date: 07/19/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 25 Batch: WG1023200-3 WG1023200-4								
Chloroethane	96		100		55-138	4		20
1,1-Dichloroethene	98		96		61-145	2		20
trans-1,2-Dichloroethene	92		96		70-130	4		20
Trichloroethene	96		100		70-130	4		20
1,2-Dichlorobenzene	92		98		70-130	6		20
1,3-Dichlorobenzene	92		97		70-130	5		20
1,4-Dichlorobenzene	91		95		70-130	4		20
Methyl tert butyl ether	100		110		63-130	10		20
p/m-Xylene	95		100		70-130	5		20
o-Xylene	90		95		70-130	5		20
cis-1,2-Dichloroethene	97		100		70-130	3		20
Styrene	95		100		70-130	5		20
Dichlorodifluoromethane	72		74		36-147	3		20
Acetone	**160**	Q	90		58-148	**56**	Q	20
Carbon disulfide	96		91		51-130	5		20
2-Butanone	96		93		63-138	3		20
4-Methyl-2-pentanone	67		75		59-130	11		20
2-Hexanone	65		69		57-130	6		20
Bromochloromethane	100		110		70-130	10		20
1,2-Dibromoethane	99		110		70-130	11		20
n-Butylbenzene	91		93		53-136	2		20
sec-Butylbenzene	90		93		70-130	3		20
1,2-Dibromo-3-chloropropane	88		94		41-144	7		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: PIERCE ARROW APARTMENTS

Project Number: 56831.10

Lab Number: L1723613

Report Date: 07/19/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 25 Batch: WG1023200-3 WG1023200-4								
Isopropylbenzene	90		92		70-130	2		20
p-Isopropyltoluene	84		86		70-130	2		20
Naphthalene	88		89		70-130	1		20
n-Propylbenzene	89		92		69-130	3		20
1,2,3-Trichlorobenzene	100		110		70-130	10		20
1,2,4-Trichlorobenzene	85		88		70-130	3		20
1,3,5-Trimethylbenzene	90		95		64-130	5		20
1,2,4-Trimethylbenzene	86		88		70-130	2		20
Methyl Acetate	91		100		70-130	9		20
Cyclohexane	86		89		70-130	3		20
1,4-Dioxane	118		122		56-162	3		20
Freon-113	88		87		70-130	1		20
Methyl cyclohexane	86		90		70-130	5		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	112		114		70-130
Toluene-d8	99		99		70-130
4-Bromofluorobenzene	97		94		70-130
Dibromofluoromethane	105		107		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: PIERCE ARROW APARTMENTS
Project Number: 56831.10

Lab Number: L1723613
Report Date: 07/19/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 26 Batch: WG1023473-3 WG1023473-4								
Methylene chloride	99		97		70-130	2		20
1,1-Dichloroethane	98		95		70-130	3		20
Chloroform	110		100		70-130	10		20
Carbon tetrachloride	110		110		63-132	0		20
1,2-Dichloropropane	94		93		70-130	1		20
Dibromochloromethane	100		100		63-130	0		20
1,1,2-Trichloroethane	91		91		70-130	0		20
Tetrachloroethene	100		100		70-130	0		20
Chlorobenzene	97		94		75-130	3		20
Trichlorofluoromethane	110		100		62-150	10		20
1,2-Dichloroethane	110		110		70-130	0		20
1,1,1-Trichloroethane	110		110		67-130	0		20
Bromodichloromethane	110		100		67-130	10		20
trans-1,3-Dichloropropene	91		88		70-130	3		20
cis-1,3-Dichloropropene	100		100		70-130	0		20
Bromoform	96		96		54-136	0		20
1,1,2,2-Tetrachloroethane	85		84		67-130	1		20
Benzene	97		94		70-130	3		20
Toluene	94		91		70-130	3		20
Ethylbenzene	94		92		70-130	2		20
Chloromethane	85		84		64-130	1		20
Bromomethane	93		94		39-139	1		20
Vinyl chloride	88		86		55-140	2		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: PIERCE ARROW APARTMENTS

Project Number: 56831.10

Lab Number: L1723613

Report Date: 07/19/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 26 Batch: WG1023473-3 WG1023473-4								
Chloroethane	94		93		55-138	1		20
1,1-Dichloroethene	99		95		61-145	4		20
trans-1,2-Dichloroethene	100		99		70-130	1		20
Trichloroethene	100		100		70-130	0		20
1,2-Dichlorobenzene	95		92		70-130	3		20
1,3-Dichlorobenzene	96		92		70-130	4		20
1,4-Dichlorobenzene	95		90		70-130	5		20
Methyl tert butyl ether	100		100		63-130	0		20
p/m-Xylene	100		95		70-130	5		20
o-Xylene	100		95		70-130	5		20
cis-1,2-Dichloroethene	100		100		70-130	0		20
Styrene	100		95		70-130	5		20
Dichlorodifluoromethane	89		87		36-147	2		20
Acetone	110		110		58-148	0		20
Carbon disulfide	93		90		51-130	3		20
2-Butanone	82		85		63-138	4		20
4-Methyl-2-pentanone	83		79		59-130	5		20
2-Hexanone	76		76		57-130	0		20
Bromochloromethane	110		110		70-130	0		20
1,2-Dibromoethane	100		100		70-130	0		20
n-Butylbenzene	87		84		53-136	4		20
sec-Butylbenzene	89		85		70-130	5		20
1,2-Dibromo-3-chloropropane	84		84		41-144	0		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: PIERCE ARROW APARTMENTS
Project Number: 56831.10

Lab Number: L1723613
Report Date: 07/19/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 26 Batch: WG1023473-3 WG1023473-4								
Isopropylbenzene	92		87		70-130	6		20
p-Isopropyltoluene	93		90		70-130	3		20
Naphthalene	83		89		70-130	7		20
n-Propylbenzene	88		84		69-130	5		20
1,2,3-Trichlorobenzene	86		95		70-130	10		20
1,2,4-Trichlorobenzene	90		92		70-130	2		20
1,3,5-Trimethylbenzene	92		89		64-130	3		20
1,2,4-Trimethylbenzene	94		90		70-130	4		20
Methyl Acetate	88		79		70-130	11		20
Cyclohexane	85		82		70-130	4		20
1,4-Dioxane	106		112		56-162	6		20
Freon-113	97		94		70-130	3		20
Methyl cyclohexane	90		86		70-130	5		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	111		110		70-130
Toluene-d8	97		96		70-130
4-Bromofluorobenzene	95		94		70-130
Dibromofluoromethane	110		111		70-130

Matrix Spike Analysis

Batch Quality Control

Project Name: PIERCE ARROW APARTMENTS
Project Number: 56831.10
Lab Number: L1723613
Report Date: 07/19/17

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01,03-04,06,08,10,12,14,16,18 QC Batch ID: WG1023156-6 WG1023156-7 QC Sample: L1723613-04 Client ID: SP-3-2-071117												
Methylene chloride	ND	1200	920	76		950	79		70-130	4		30
1,1-Dichloroethane	ND	1200	900	75		950	79		70-130	6		30
Chloroform	ND	1200	930	78		1000	83		70-130	7		30
Carbon tetrachloride	ND	1200	840	70		940	78		70-130	11		30
1,2-Dichloropropane	ND	1200	1000	84		1000	87		70-130	3		30
Dibromochloromethane	ND	1200	1000	86		1100	88		70-130	3		30
1,1,2-Trichloroethane	ND	1200	1100	90		1100	92		70-130	3		30
Tetrachloroethene	ND	1200	850	71		920	77		70-130	8		30
Chlorobenzene	ND	1200	970	81		1000	84		70-130	4		30
Trichlorofluoromethane	ND	1200	270J	**22**	Q	300	**25**	Q	70-139	12		30
1,2-Dichloroethane	ND	1200	1100	88		1100	92		70-130	4		30
1,1,1-Trichloroethane	ND	1200	860	71		950	79		70-130	11		30
Bromodichloromethane	ND	1200	1000	83		1100	88		70-130	5		30
trans-1,3-Dichloropropene	ND	1200	1100	88		1100	91		70-130	3		30
cis-1,3-Dichloropropene	ND	1200	960	80		1000	84		70-130	5		30
Bromoform	ND	1200	990	82		1100	88		70-130	6		30
1,1,2,2-Tetrachloroethane	ND	1200	1000	87		1100	88		70-130	2		30
Benzene	ND	1200	900	75		960	80		70-130	7		30
Toluene	ND	1200	950	79		990	82		70-130	4		30
Ethylbenzene	ND	1200	940	78		990	82		70-130	5		30
Chloromethane	ND	1200	900	75		970	81		52-130	8		30
Bromomethane	26.J	1200	880	74		900	75		57-147	2		30
Vinyl chloride	ND	1200	850	71		960	80		67-130	11		30

Matrix Spike Analysis

Batch Quality Control

Project Name: PIERCE ARROW APARTMENTS
Project Number: 56831.10
Lab Number: L1723613
Report Date: 07/19/17

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01,03-04,06,08,10,12,14,16,18 QC Batch ID: WG1023156-6 WG1023156-7 QC Sample: L1723613-04 Client ID: SP-3-2-071117												
Chloroethane	ND	1200	330	**27**	Q	370	**31**	Q	50-151	13		30
1,1-Dichloroethene	ND	1200	740	**62**	Q	750	**62**	Q	65-135	0		30
trans-1,2-Dichloroethene	ND	1200	800	**66**	Q	880	73		70-130	9		30
Trichloroethene	ND	1200	890	74		990	82		70-130	10		30
1,2-Dichlorobenzene	ND	1200	1100	88		1000	87		70-130	1		30
1,3-Dichlorobenzene	ND	1200	980	82		1000	87		70-130	6		30
1,4-Dichlorobenzene	ND	1200	1000	84		1000	85		70-130	1		30
Methyl tert butyl ether	ND	1200	590	**49**	Q	690	**57**	Q	66-130	15		30
p/m-Xylene	ND	2300	1900	80		2000	85		70-130	5		30
o-Xylene	ND	2300	1900	83		2000	86		70-130	4		30
cis-1,2-Dichloroethene	ND	1200	900	75		950	80		70-130	6		30
Styrene	ND	2300	2000	85		2000	87		70-130	3		30
Dichlorodifluoromethane	ND	1200	770	64		850	71		30-146	11		30
Acetone	ND	1200	1200	103		1400	113		54-140	9		30
Carbon disulfide	ND	1200	600	**50**	Q	670	**56**	Q	59-130	11		30
2-Butanone	ND	1200	1100	88		1200	98		70-130	10		30
4-Methyl-2-pentanone	ND	1200	1100	90		1100	91		70-130	1		30
2-Hexanone	ND	1200	1000	86		1100	94		70-130	9		30
Bromochloromethane	ND	1200	950	79		990	83		70-130	4		30
1,2-Dibromoethane	ND	1200	1100	88		1100	92		70-130	4		30
n-Butylbenzene	ND	1200	920	76		950	79		70-130	3		30
sec-Butylbenzene	ND	1200	910	75		970	81		70-130	7		30
1,2-Dibromo-3-chloropropane	ND	1200	990	82		1000	84		68-130	2		30

Matrix Spike Analysis

Batch Quality Control

Project Name: PIERCE ARROW APARTMENTS
Project Number: 56831.10
Lab Number: L1723613
Report Date: 07/19/17

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01,03-04,06,08,10,12,14,16,18 QC Batch ID: WG1023156-6 WG1023156-7 QC Sample: L1723613-04 Client ID: SP-3-2-071117												
Isopropylbenzene	ND	1200	920	76		990	82		70-130	7		30
p-Isopropyltoluene	ND	1200	930	77		990	82		70-130	6		30
Naphthalene	ND	1200	1000	87		1100	90		70-130	4		30
n-Propylbenzene	ND	1200	930	77		1000	83		70-130	7		30
1,2,3-Trichlorobenzene	ND	1200	1000	85		1100	88		70-130	3		30
1,2,4-Trichlorobenzene	ND	1200	990	83		1000	86		70-130	4		30
1,3,5-Trimethylbenzene	ND	1200	970	81		1000	84		70-130	4		30
1,2,4-Trimethylbenzene	ND	1200	990	82		1000	85		70-130	3		30
Methyl Acetate	140J	1200	1400	118		1500	125		51-146	6		30
Cyclohexane	ND	1200	820J	69		960J	80		59-142	15		30
1,4-Dioxane	ND	58000	61000	105		61000	105		65-136	0		30
Freon-113	ND	1200	760J	64		880J	74		50-139	15		30
Methyl cyclohexane	ND	1200	800	**66**	Q	920	76		70-130	14		30

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		109		70-130
4-Bromofluorobenzene	104		104		70-130
Dibromofluoromethane	101		103		70-130
Toluene-d8	106		108		70-130

SEMIVOLATILES

Project Name: PIERCE ARROW APARTMENTS **Lab Number:** L1723613

Project Number: 56831.10 **Report Date:** 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-02
Client ID: SP-1-0.5-8-071117
Sample Location: BUFFALO, NY

Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 07/17/17 16:18
Analyst: RC
Percent Solids: 82%

Date Collected: 07/11/17 09:40
Date Received: 07/11/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 07/14/17 08:04

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	160	21.	1
Hexachlorobenzene	ND		ug/kg	120	22.	1
Fluoranthene	78	J	ug/kg	120	23.	1
Naphthalene	ND		ug/kg	200	24.	1
Benzo(a)anthracene	32	J	ug/kg	120	22.	1
Benzo(a)pyrene	ND		ug/kg	160	49.	1
Benzo(b)fluoranthene	ND		ug/kg	120	34.	1
Benzo(k)fluoranthene	ND		ug/kg	120	32.	1
Chrysene	30	J	ug/kg	120	21.	1
Acenaphthylene	ND		ug/kg	160	31.	1
Anthracene	ND		ug/kg	120	39.	1
Benzo(ghi)perylene	ND		ug/kg	160	24.	1
Fluorene	ND		ug/kg	200	19.	1
Phenanthrene	60	J	ug/kg	120	24.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	23.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	160	28.	1
Pyrene	65	J	ug/kg	120	20.	1
Dibenzofuran	ND		ug/kg	200	19.	1
Pentachlorophenol	ND		ug/kg	160	44.	1
Phenol	ND		ug/kg	200	30.	1
2-Methylphenol	ND		ug/kg	200	31.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	290	31.	1

Project Name: PIERCE ARROW APARTMENTS **Lab Number:** L1723613

Project Number: 56831.10 **Report Date:** 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-02 Date Collected: 07/11/17 09:40

Client ID: SP-1-0.5-8-071117 Date Received: 07/11/17

Sample Location: BUFFALO, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	67		25-120
Phenol-d6	72		10-120
Nitrobenzene-d5	72		23-120
2-Fluorobiphenyl	67		30-120
2,4,6-Tribromophenol	108		10-136
4-Terphenyl-d14	66		18-120

Project Name: PIERCE ARROW APARTMENTS **Lab Number:** L1723613

Project Number: 56831.10 **Report Date:** 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-03
Client ID: SP-2-3.5-071117
Sample Location: BUFFALO, NY

Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 07/17/17 16:44
Analyst: RC
Percent Solids: 76%

Date Collected: 07/11/17 10:10
Date Received: 07/11/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 07/14/17 08:04

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	170	22.	1
Hexachlorobenzene	ND		ug/kg	130	24.	1
Fluoranthene	ND		ug/kg	130	25.	1
Naphthalene	ND		ug/kg	210	26.	1
Benzo(a)anthracene	ND		ug/kg	130	24.	1
Benzo(a)pyrene	ND		ug/kg	170	52.	1
Benzo(b)fluoranthene	ND		ug/kg	130	36.	1
Benzo(k)fluoranthene	ND		ug/kg	130	34.	1
Chrysene	ND		ug/kg	130	22.	1
Acenaphthylene	ND		ug/kg	170	33.	1
Anthracene	ND		ug/kg	130	42.	1
Benzo(ghi)perylene	ND		ug/kg	170	25.	1
Fluorene	ND		ug/kg	210	21.	1
Phenanthrene	ND		ug/kg	130	26.	1
Dibenzo(a,h)anthracene	ND		ug/kg	130	25.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	170	30.	1
Pyrene	22	J	ug/kg	130	21.	1
Dibenzofuran	ND		ug/kg	210	20.	1
Pentachlorophenol	ND		ug/kg	170	47.	1
Phenol	ND		ug/kg	210	32.	1
2-Methylphenol	ND		ug/kg	210	33.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	310	34.	1

Project Name: PIERCE ARROW APARTMENTS **Lab Number:** L1723613

Project Number: 56831.10 **Report Date:** 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-03 Date Collected: 07/11/17 10:10

Client ID: SP-2-3.5-071117 Date Received: 07/11/17

Sample Location: BUFFALO, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	54		25-120
Phenol-d6	60		10-120
Nitrobenzene-d5	60		23-120
2-Fluorobiphenyl	60		30-120
2,4,6-Tribromophenol	94		10-136
4-Terphenyl-d14	61		18-120

Project Name: PIERCE ARROW APARTMENTS **Lab Number:** L1723613

Project Number: 56831.10 **Report Date:** 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-05
Client ID: SP-3-1-8-071117
Sample Location: BUFFALO, NY

Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 07/17/17 15:52
Analyst: RC
Percent Solids: 81%

Date Collected: 07/11/17 10:30
Date Received: 07/11/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 07/14/17 08:04

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	160	21.	1
Hexachlorobenzene	ND		ug/kg	120	23.	1
Fluoranthene	160		ug/kg	120	23.	1
Naphthalene	ND		ug/kg	200	25.	1
Benzo(a)anthracene	80	J	ug/kg	120	23.	1
Benzo(a)pyrene	69	J	ug/kg	160	50.	1
Benzo(b)fluoranthene	81	J	ug/kg	120	34.	1
Benzo(k)fluoranthene	ND		ug/kg	120	33.	1
Chrysene	70	J	ug/kg	120	21.	1
Acenaphthylene	ND		ug/kg	160	32.	1
Anthracene	ND		ug/kg	120	40.	1
Benzo(ghi)perylene	34	J	ug/kg	160	24.	1
Fluorene	ND		ug/kg	200	20.	1
Phenanthrene	93	J	ug/kg	120	25.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	24.	1
Indeno(1,2,3-cd)pyrene	37	J	ug/kg	160	28.	1
Pyrene	140		ug/kg	120	20.	1
Dibenzofuran	ND		ug/kg	200	19.	1
Pentachlorophenol	ND		ug/kg	160	45.	1
Phenol	ND		ug/kg	200	31.	1
2-Methylphenol	ND		ug/kg	200	32.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	290	32.	1

Project Name: PIERCE ARROW APARTMENTS **Lab Number:** L1723613

Project Number: 56831.10 **Report Date:** 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-05 Date Collected: 07/11/17 10:30

Client ID: SP-3-1-8-071117 Date Received: 07/11/17

Sample Location: BUFFALO, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	44		25-120
Phenol-d6	50		10-120
Nitrobenzene-d5	48		23-120
2-Fluorobiphenyl	54		30-120
2,4,6-Tribromophenol	99		10-136
4-Terphenyl-d14	64		18-120

Project Name: PIERCE ARROW APARTMENTS **Lab Number:** L1723613

Project Number: 56831.10 **Report Date:** 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-07
Client ID: SP-5-1-8-071117
Sample Location: BUFFALO, NY

Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 07/17/17 17:10
Analyst: RC
Percent Solids: 78%

Date Collected: 07/11/17 11:15
Date Received: 07/11/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 07/14/17 08:04

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	160	21.	1
Hexachlorobenzene	ND		ug/kg	120	23.	1
Fluoranthene	73	J	ug/kg	120	24.	1
Naphthalene	26	J	ug/kg	210	25.	1
Benzo(a)anthracene	35	J	ug/kg	120	23.	1
Benzo(a)pyrene	ND		ug/kg	160	50.	1
Benzo(b)fluoranthene	40	J	ug/kg	120	35.	1
Benzo(k)fluoranthene	ND		ug/kg	120	33.	1
Chrysene	37	J	ug/kg	120	22.	1
Acenaphthylene	ND		ug/kg	160	32.	1
Anthracene	ND		ug/kg	120	40.	1
Benzo(ghi)perylene	ND		ug/kg	160	24.	1
Fluorene	ND		ug/kg	210	20.	1
Phenanthrene	64	J	ug/kg	120	25.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	24.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	160	29.	1
Pyrene	61	J	ug/kg	120	20.	1
Dibenzofuran	ND		ug/kg	210	20.	1
Pentachlorophenol	ND		ug/kg	160	46.	1
Phenol	ND		ug/kg	210	31.	1
2-Methylphenol	ND		ug/kg	210	32.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	300	32.	1

Project Name: PIERCE ARROW APARTMENTS **Lab Number:** L1723613

Project Number: 56831.10 **Report Date:** 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-07 Date Collected: 07/11/17 11:15

Client ID: SP-5-1-8-071117 Date Received: 07/11/17

Sample Location: BUFFALO, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	83		25-120
Phenol-d6	88		10-120
Nitrobenzene-d5	87		23-120
2-Fluorobiphenyl	82		30-120
2,4,6-Tribromophenol	107		10-136
4-Terphenyl-d14	67		18-120

Project Name: PIERCE ARROW APARTMENTS **Lab Number:** L1723613

Project Number: 56831.10 **Report Date:** 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-09
Client ID: SP-6-0-1-071117
Sample Location: BUFFALO, NY

Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 07/17/17 17:36
Analyst: RC
Percent Solids: 87%

Date Collected: 07/11/17 11:40
Date Received: 07/11/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 07/14/17 08:04

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	340		ug/kg	150	20.	1
Hexachlorobenzene	ND		ug/kg	120	22.	1
Fluoranthene	5200		ug/kg	120	22.	1
Naphthalene	110	J	ug/kg	190	23.	1
Benzo(a)anthracene	2300		ug/kg	120	22.	1
Benzo(a)pyrene	2100		ug/kg	150	47.	1
Benzo(b)fluoranthene	3100		ug/kg	120	32.	1
Benzo(k)fluoranthene	950		ug/kg	120	31.	1
Chrysene	2400		ug/kg	120	20.	1
Acenaphthylene	ND		ug/kg	150	30.	1
Anthracene	600		ug/kg	120	37.	1
Benzo(ghi)perylene	1300		ug/kg	150	22.	1
Fluorene	250		ug/kg	190	19.	1
Phenanthrene	3200		ug/kg	120	23.	1
Dibenzo(a,h)anthracene	350		ug/kg	120	22.	1
Indeno(1,2,3-cd)pyrene	1400		ug/kg	150	27.	1
Pyrene	4200		ug/kg	120	19.	1
Dibenzofuran	170	J	ug/kg	190	18.	1
Pentachlorophenol	ND		ug/kg	150	42.	1
Phenol	ND		ug/kg	190	29.	1
2-Methylphenol	ND		ug/kg	190	30.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	280	30.	1

Project Name: PIERCE ARROW APARTMENTS **Lab Number:** L1723613

Project Number: 56831.10 **Report Date:** 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-09 Date Collected: 07/11/17 11:40

Client ID: SP-6-0-1-071117 Date Received: 07/11/17

Sample Location: BUFFALO, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	67		25-120
Phenol-d6	71		10-120
Nitrobenzene-d5	82		23-120
2-Fluorobiphenyl	76		30-120
2,4,6-Tribromophenol	84		10-136
4-Terphenyl-d14	71		18-120

Project Name: PIERCE ARROW APARTMENTS **Lab Number:** L1723613

Project Number: 56831.10 **Report Date:** 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-11
Client ID: SP-7-4-8-071117
Sample Location: BUFFALO, NY

Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 07/17/17 18:02
Analyst: RC
Percent Solids: 84%

Date Collected: 07/11/17 12:30
Date Received: 07/11/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 07/14/17 08:06

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	160	20.	1
Hexachlorobenzene	ND		ug/kg	120	22.	1
Fluoranthene	35	J	ug/kg	120	23.	1
Naphthalene	ND		ug/kg	200	24.	1
Benzo(a)anthracene	ND		ug/kg	120	22.	1
Benzo(a)pyrene	ND		ug/kg	160	48.	1
Benzo(b)fluoranthene	ND		ug/kg	120	33.	1
Benzo(k)fluoranthene	ND		ug/kg	120	32.	1
Chrysene	ND		ug/kg	120	20.	1
Acenaphthylene	ND		ug/kg	160	30.	1
Anthracene	ND		ug/kg	120	38.	1
Benzo(ghi)perylene	ND		ug/kg	160	23.	1
Fluorene	ND		ug/kg	200	19.	1
Phenanthrene	ND		ug/kg	120	24.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	23.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	160	28.	1
Pyrene	37	J	ug/kg	120	20.	1
Dibenzofuran	ND		ug/kg	200	19.	1
Pentachlorophenol	ND		ug/kg	160	43.	1
Phenol	ND		ug/kg	200	30.	1
2-Methylphenol	ND		ug/kg	200	31.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	280	31.	1

Project Name: PIERCE ARROW APARTMENTS **Lab Number:** L1723613

Project Number: 56831.10 **Report Date:** 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-11 Date Collected: 07/11/17 12:30

Client ID: SP-7-4-8-071117 Date Received: 07/11/17

Sample Location: BUFFALO, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	66		25-120
Phenol-d6	71		10-120
Nitrobenzene-d5	74		23-120
2-Fluorobiphenyl	66		30-120
2,4,6-Tribromophenol	82		10-136
4-Terphenyl-d14	57		18-120

Project Name: PIERCE ARROW APARTMENTS **Lab Number:** L1723613

Project Number: 56831.10 **Report Date:** 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-13
Client ID: SP-8-0-1-071117
Sample Location: BUFFALO, NY

Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 07/17/17 18:28
Analyst: RC
Percent Solids: 91%

Date Collected: 07/11/17 13:00
Date Received: 07/11/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 07/14/17 08:06

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	18.	1
Hexachlorobenzene	ND		ug/kg	110	20.	1
Fluoranthene	240		ug/kg	110	20.	1
Naphthalene	ND		ug/kg	180	22.	1
Benzo(a)anthracene	120		ug/kg	110	20.	1
Benzo(a)pyrene	120	J	ug/kg	140	44.	1
Benzo(b)fluoranthene	180		ug/kg	110	30.	1
Benzo(k)fluoranthene	66	J	ug/kg	110	29.	1
Chrysene	130		ug/kg	110	19.	1
Acenaphthylene	ND		ug/kg	140	28.	1
Anthracene	ND		ug/kg	110	35.	1
Benzo(ghi)perylene	110	J	ug/kg	140	21.	1
Fluorene	ND		ug/kg	180	17.	1
Phenanthrene	120		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	24	J	ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	86	J	ug/kg	140	25.	1
Pyrene	230		ug/kg	110	18.	1
Dibenzofuran	ND		ug/kg	180	17.	1
Pentachlorophenol	ND		ug/kg	140	39.	1
Phenol	ND		ug/kg	180	27.	1
2-Methylphenol	ND		ug/kg	180	28.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	260	28.	1

Project Name: PIERCE ARROW APARTMENTS **Lab Number:** L1723613

Project Number: 56831.10 **Report Date:** 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-13 Date Collected: 07/11/17 13:00

Client ID: SP-8-0-1-071117 Date Received: 07/11/17

Sample Location: BUFFALO, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	37		25-120
Phenol-d6	51		10-120
Nitrobenzene-d5	59		23-120
2-Fluorobiphenyl	56		30-120
2,4,6-Tribromophenol	25		10-136
4-Terphenyl-d14	51		18-120

Project Name: PIERCE ARROW APARTMENTS **Lab Number:** L1723613

Project Number: 56831.10 **Report Date:** 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-15
Client ID: SP-9-0-13-071117
Sample Location: BUFFALO, NY

Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 07/17/17 18:54
Analyst: RC
Percent Solids: 85%

Date Collected: 07/11/17 13:20
Date Received: 07/11/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 07/14/17 08:06

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	38	J	ug/kg	150	20.	1
Hexachlorobenzene	ND		ug/kg	110	21.	1
Fluoranthene	960		ug/kg	110	22.	1
Naphthalene	150	J	ug/kg	190	23.	1
Benzo(a)anthracene	490		ug/kg	110	21.	1
Benzo(a)pyrene	390		ug/kg	150	46.	1
Benzo(b)fluoranthene	510		ug/kg	110	32.	1
Benzo(k)fluoranthene	180		ug/kg	110	30.	1
Chrysene	530		ug/kg	110	20.	1
Acenaphthylene	50	J	ug/kg	150	29.	1
Anthracene	110		ug/kg	110	37.	1
Benzo(ghi)perylene	290		ug/kg	150	22.	1
Fluorene	54	J	ug/kg	190	18.	1
Phenanthrene	630		ug/kg	110	23.	1
Dibenzo(a,h)anthracene	79	J	ug/kg	110	22.	1
Indeno(1,2,3-cd)pyrene	270		ug/kg	150	26.	1
Pyrene	1000		ug/kg	110	19.	1
Dibenzofuran	87	J	ug/kg	190	18.	1
Pentachlorophenol	ND		ug/kg	150	42.	1
Phenol	ND		ug/kg	190	29.	1
2-Methylphenol	ND		ug/kg	190	30.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	270	30.	1

Project Name: PIERCE ARROW APARTMENTS **Lab Number:** L1723613

Project Number: 56831.10 **Report Date:** 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-15 Date Collected: 07/11/17 13:20

Client ID: SP-9-0-13-071117 Date Received: 07/11/17

Sample Location: BUFFALO, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	45		25-120
Phenol-d6	50		10-120
Nitrobenzene-d5	61		23-120
2-Fluorobiphenyl	60		30-120
2,4,6-Tribromophenol	60		10-136
4-Terphenyl-d14	51		18-120

Project Name: PIERCE ARROW APARTMENTS **Lab Number:** L1723613

Project Number: 56831.10 **Report Date:** 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-17
Client ID: SP-10-0-4.5-071117
Sample Location: BUFFALO, NY

Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 07/17/17 19:20
Analyst: RC
Percent Solids: 92%

Date Collected: 07/11/17 13:50
Date Received: 07/11/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 07/14/17 08:06

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	280		ug/kg	140	19.	1
Hexachlorobenzene	ND		ug/kg	110	20.	1
Fluoranthene	4800		ug/kg	110	21.	1
Naphthalene	810		ug/kg	180	22.	1
Benzo(a)anthracene	2200		ug/kg	110	20.	1
Benzo(a)pyrene	2500		ug/kg	140	44.	1
Benzo(b)fluoranthene	3900		ug/kg	110	30.	1
Benzo(k)fluoranthene	1400		ug/kg	110	29.	1
Chrysene	2700		ug/kg	110	19.	1
Acenaphthylene	390		ug/kg	140	28.	1
Anthracene	740		ug/kg	110	35.	1
Benzo(ghi)perylene	1800		ug/kg	140	21.	1
Fluorene	310		ug/kg	180	18.	1
Phenanthrene	3200		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	440		ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	2100		ug/kg	140	25.	1
Pyrene	4000		ug/kg	110	18.	1
Dibenzofuran	420		ug/kg	180	17.	1
Pentachlorophenol	ND		ug/kg	140	40.	1
Phenol	ND		ug/kg	180	27.	1
2-Methylphenol	ND		ug/kg	180	28.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	260	28.	1

Project Name: PIERCE ARROW APARTMENTS **Lab Number:** L1723613

Project Number: 56831.10 **Report Date:** 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-17 Date Collected: 07/11/17 13:50

Client ID: SP-10-0-4.5-071117 Date Received: 07/11/17

Sample Location: BUFFALO, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	47		25-120
Phenol-d6	51		10-120
Nitrobenzene-d5	77		23-120
2-Fluorobiphenyl	60		30-120
2,4,6-Tribromophenol	73		10-136
4-Terphenyl-d14	61		18-120

Project Name: PIERCE ARROW APARTMENTS **Lab Number:** L1723613

Project Number: 56831.10 **Report Date:** 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-19
Client ID: SP-11-0.5-4.5-071117
Sample Location: BUFFALO, NY

Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 07/17/17 19:46
Analyst: RC
Percent Solids: 85%

Date Collected: 07/11/17 14:20
Date Received: 07/11/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 07/14/17 08:06

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	20.	1
Hexachlorobenzene	ND		ug/kg	120	22.	1
Fluoranthene	280		ug/kg	120	22.	1
Naphthalene	540		ug/kg	190	23.	1
Benzo(a)anthracene	190		ug/kg	120	22.	1
Benzo(a)pyrene	150		ug/kg	150	47.	1
Benzo(b)fluoranthene	210		ug/kg	120	32.	1
Benzo(k)fluoranthene	56	J	ug/kg	120	31.	1
Chrysene	270		ug/kg	120	20.	1
Acenaphthylene	ND		ug/kg	150	30.	1
Anthracene	40	J	ug/kg	120	37.	1
Benzo(ghi)perylene	130	J	ug/kg	150	22.	1
Fluorene	33	J	ug/kg	190	19.	1
Phenanthrene	410		ug/kg	120	23.	1
Dibenzo(a,h)anthracene	38	J	ug/kg	120	22.	1
Indeno(1,2,3-cd)pyrene	110	J	ug/kg	150	27.	1
Pyrene	290		ug/kg	120	19.	1
Dibenzofuran	180	J	ug/kg	190	18.	1
Pentachlorophenol	ND		ug/kg	150	42.	1
Phenol	ND		ug/kg	190	29.	1
2-Methylphenol	ND		ug/kg	190	30.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	280	30.	1

Project Name: PIERCE ARROW APARTMENTS **Lab Number:** L1723613

Project Number: 56831.10 **Report Date:** 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-19 Date Collected: 07/11/17 14:20

Client ID: SP-11-0.5-4.5-071117 Date Received: 07/11/17

Sample Location: BUFFALO, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	56		25-120
Phenol-d6	62		10-120
Nitrobenzene-d5	78		23-120
2-Fluorobiphenyl	85		30-120
2,4,6-Tribromophenol	79		10-136
4-Terphenyl-d14	64		18-120

Project Name: PIERCE ARROW APARTMENTS **Lab Number:** L1723613

Project Number: 56831.10 **Report Date:** 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-21
Client ID: SP-12-0-3-071117
Sample Location: BUFFALO, NY

Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 07/17/17 20:12
Analyst: RC
Percent Solids: 77%

Date Collected: 07/11/17 14:45
Date Received: 07/11/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 07/14/17 08:06

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	47	J	ug/kg	170	22.	1
Hexachlorobenzene	ND		ug/kg	130	24.	1
Fluoranthene	830		ug/kg	130	24.	1
Naphthalene	510		ug/kg	210	26.	1
Benzo(a)anthracene	390		ug/kg	130	24.	1
Benzo(a)pyrene	350		ug/kg	170	52.	1
Benzo(b)fluoranthene	520		ug/kg	130	36.	1
Benzo(k)fluoranthene	160		ug/kg	130	34.	1
Chrysene	440		ug/kg	130	22.	1
Acenaphthylene	ND		ug/kg	170	33.	1
Anthracene	110	J	ug/kg	130	42.	1
Benzo(ghi)perylene	190		ug/kg	170	25.	1
Fluorene	63	J	ug/kg	210	21.	1
Phenanthrene	820		ug/kg	130	26.	1
Dibenzo(a,h)anthracene	60	J	ug/kg	130	25.	1
Indeno(1,2,3-cd)pyrene	210		ug/kg	170	30.	1
Pyrene	690		ug/kg	130	21.	1
Dibenzofuran	200	J	ug/kg	210	20.	1
Pentachlorophenol	ND		ug/kg	170	47.	1
Phenol	ND		ug/kg	210	32.	1
2-Methylphenol	ND		ug/kg	210	33.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	310	33.	1

Project Name: PIERCE ARROW APARTMENTS **Lab Number:** L1723613

Project Number: 56831.10 **Report Date:** 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-21 Date Collected: 07/11/17 14:45

Client ID: SP-12-0-3-071117 Date Received: 07/11/17

Sample Location: BUFFALO, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	52		25-120
Phenol-d6	57		10-120
Nitrobenzene-d5	77		23-120
2-Fluorobiphenyl	64		30-120
2,4,6-Tribromophenol	77		10-136
4-Terphenyl-d14	49		18-120

Project Name: PIERCE ARROW APARTMENTS
Project Number: 56831.10
Lab Number: L1723613
Report Date: 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-23
Client ID: SP-13-0-4.5-071117
Sample Location: BUFFALO, NY

Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 07/17/17 20:37
Analyst: RC
Percent Solids: 77%

Date Collected: 07/11/17 15:15
Date Received: 07/11/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 07/14/17 08:06

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	170	22.	1
Hexachlorobenzene	ND		ug/kg	130	24.	1
Fluoranthene	240		ug/kg	130	24.	1
Naphthalene	110	J	ug/kg	210	26.	1
Benzo(a)anthracene	280		ug/kg	130	24.	1
Benzo(a)pyrene	100	J	ug/kg	170	52.	1
Benzo(b)fluoranthene	120	J	ug/kg	130	36.	1
Benzo(k)fluoranthene	35	J	ug/kg	130	34.	1
Chrysene	260		ug/kg	130	22.	1
Acenaphthylene	ND		ug/kg	170	33.	1
Anthracene	140		ug/kg	130	42.	1
Benzo(ghi)perylene	63	J	ug/kg	170	25.	1
Fluorene	ND		ug/kg	210	21.	1
Phenanthrene	150		ug/kg	130	26.	1
Dibenzo(a,h)anthracene	ND		ug/kg	130	25.	1
Indeno(1,2,3-cd)pyrene	55	J	ug/kg	170	30.	1
Pyrene	700		ug/kg	130	21.	1
Dibenzofuran	ND		ug/kg	210	20.	1
Pentachlorophenol	ND		ug/kg	170	47.	1
Phenol	ND		ug/kg	210	32.	1
2-Methylphenol	ND		ug/kg	210	33.	1
3-Methylphenol/4-Methylphenol	140	J	ug/kg	310	34.	1

Project Name: PIERCE ARROW APARTMENTS **Lab Number:** L1723613

Project Number: 56831.10 **Report Date:** 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-23 Date Collected: 07/11/17 15:15

Client ID: SP-13-0-4.5-071117 Date Received: 07/11/17

Sample Location: BUFFALO, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	49		25-120
Phenol-d6	66		10-120
Nitrobenzene-d5	81		23-120
2-Fluorobiphenyl	70		30-120
2,4,6-Tribromophenol	53		10-136
4-Terphenyl-d14	66		18-120

Project Name: PIERCE ARROW APARTMENTS
Project Number: 56831.10
Lab Number: L1723613
Report Date: 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-25
Client ID: SP-9-GW-071117
Sample Location: BUFFALO, NY

Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 07/18/17 05:59
Analyst: RC

Date Collected: 07/11/17 15:30
Date Received: 07/11/17
Field Prep: Not Specified
Extraction Method: EPA 3510C
Extraction Date: 07/14/17 04:18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Dibenzofuran	ND		ug/l	1.9	0.63	1
Phenol	ND		ug/l	4.8	1.8	1
2-Methylphenol	ND		ug/l	4.8	0.98	1
3-Methylphenol/4-Methylphenol	ND		ug/l	4.8	1.1	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	30		21-120
Phenol-d6	23		10-120
Nitrobenzene-d5	57		23-120
2-Fluorobiphenyl	54		15-120
2,4,6-Tribromophenol	60		10-120
4-Terphenyl-d14	48		41-149

Project Name: PIERCE ARROW APARTMENTS **Lab Number:** L1723613

Project Number: 56831.10 **Report Date:** 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-25
Client ID: SP-9-GW-071117
Sample Location: BUFFALO, NY

Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 07/15/17 15:57
Analyst: KL

Date Collected: 07/11/17 15:30
Date Received: 07/11/17
Field Prep: Not Specified
Extraction Method: EPA 3510C
Extraction Date: 07/14/17 04:18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.03	1
Fluoranthene	0.93		ug/l	0.10	0.04	1
Naphthalene	0.10		ug/l	0.10	0.04	1
Benzo(a)anthracene	0.52		ug/l	0.10	0.02	1
Benzo(a)pyrene	0.59		ug/l	0.10	0.04	1
Benzo(b)fluoranthene	0.86		ug/l	0.10	0.02	1
Benzo(k)fluoranthene	0.29		ug/l	0.10	0.04	1
Chrysene	0.63		ug/l	0.10	0.04	1
Acenaphthylene	0.07	J	ug/l	0.10	0.03	1
Anthracene	0.10		ug/l	0.10	0.03	1
Benzo(ghi)perylene	0.55		ug/l	0.10	0.04	1
Fluorene	0.04	J	ug/l	0.10	0.04	1
Phenanthrene	0.41		ug/l	0.10	0.01	1
Dibenzo(a,h)anthracene	0.11		ug/l	0.10	0.04	1
Indeno(1,2,3-cd)pyrene	0.53		ug/l	0.10	0.04	1
Pyrene	0.90		ug/l	0.10	0.04	1
Pentachlorophenol	ND		ug/l	0.77	0.21	1
Hexachlorobenzene	ND		ug/l	0.77	0.03	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	39		21-120
Phenol-d6	28		10-120
Nitrobenzene-d5	59		23-120
2-Fluorobiphenyl	64		15-120
2,4,6-Tribromophenol	64		10-120
4-Terphenyl-d14	53		41-149

Project Name: PIERCE ARROW APARTMENTS
Project Number: 56831.10
Lab Number: L1723613
Report Date: 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-26 D
Client ID: SP-13-GW-071117
Sample Location: BUFFALO, NY

Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 07/18/17 10:15
Analyst: RC

Date Collected: 07/11/17 15:45
Date Received: 07/11/17
Field Prep: Not Specified
Extraction Method: EPA 3510C
Extraction Date: 07/14/17 04:18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Dibenzofuran	ND		ug/l	40	13.	10
Phenol	ND		ug/l	100	38.	10
2-Methylphenol	ND		ug/l	100	20.	10
3-Methylphenol/4-Methylphenol	ND		ug/l	100	22.	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	**19**	Q	21-120
Phenol-d6	15		10-120
Nitrobenzene-d5	64		23-120
2-Fluorobiphenyl	30		15-120
2,4,6-Tribromophenol	34		10-120
4-Terphenyl-d14	**27**	Q	41-149

Project Name: PIERCE ARROW APARTMENTS **Lab Number:** L1723613

Project Number: 56831.10 **Report Date:** 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-26 D
Client ID: SP-13-GW-071117
Sample Location: BUFFALO, NY

Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 07/17/17 11:01
Analyst: KL

Date Collected: 07/11/17 15:45
Date Received: 07/11/17
Field Prep: Not Specified
Extraction Method: EPA 3510C
Extraction Date: 07/14/17 04:18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	20	7.0	100
Fluoranthene	70		ug/l	20	7.6	100
Naphthalene	ND		ug/l	20	8.6	100
Benzo(a)anthracene	120		ug/l	20	3.6	100
Benzo(a)pyrene	36		ug/l	20	7.8	100
Benzo(b)fluoranthene	28		ug/l	20	3.2	100
Benzo(k)fluoranthene	ND		ug/l	20	8.4	100
Chrysene	140		ug/l	20	7.6	100
Acenaphthylene	14	J	ug/l	20	7.0	100
Anthracene	71		ug/l	20	7.0	100
Benzo(ghi)perylene	23		ug/l	20	8.4	100
Fluorene	ND		ug/l	20	7.4	100
Phenanthrene	ND		ug/l	20	3.0	100
Dibenzo(a,h)anthracene	ND		ug/l	20	7.8	100
Indeno(1,2,3-cd)pyrene	9.4	J	ug/l	20	8.0	100
Pyrene	390		ug/l	20	8.0	100
Pentachlorophenol	ND		ug/l	160	44.	100
Hexachlorobenzene	ND		ug/l	160	6.4	100

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	**0**	Q	21-120
Phenol-d6	**0**	Q	10-120
Nitrobenzene-d5	**0**	Q	23-120
2-Fluorobiphenyl	**0**	Q	15-120
2,4,6-Tribromophenol	**0**	Q	10-120
4-Terphenyl-d14	**0**	Q	41-149

Project Name: PIERCE ARROW APARTMENTS
Project Number: 56831.10
Lab Number: L1723613
Report Date: 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-27
Client ID: SS-1-071117
Sample Location: BUFFALO, NY

Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 07/17/17 18:06
Analyst: CB
Percent Solids: 84%

Date Collected: 07/11/17 15:50
Date Received: 07/11/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 07/14/17 09:59

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	920		ug/kg	160	20.	1
Hexachlorobenzene	ND		ug/kg	120	22.	1
Fluoranthene	7300		ug/kg	120	23.	1
Naphthalene	320		ug/kg	200	24.	1
Benzo(a)anthracene	3600		ug/kg	120	22.	1
Benzo(a)pyrene	2700		ug/kg	160	48.	1
Benzo(b)fluoranthene	3600		ug/kg	120	33.	1
Benzo(k)fluoranthene	1200		ug/kg	120	32.	1
Chrysene	3100		ug/kg	120	20.	1
Acenaphthylene	38	J	ug/kg	160	30.	1
Anthracene	1800		ug/kg	120	38.	1
Benzo(ghi)perylene	1300		ug/kg	160	23.	1
Fluorene	980		ug/kg	200	19.	1
Phenanthrene	6400		ug/kg	120	24.	1
Dibenzo(a,h)anthracene	380		ug/kg	120	23.	1
Indeno(1,2,3-cd)pyrene	1600		ug/kg	160	27.	1
Pyrene	5900		ug/kg	120	20.	1
Dibenzofuran	580		ug/kg	200	19.	1
Pentachlorophenol	ND		ug/kg	160	43.	1
Phenol	ND		ug/kg	200	30.	1
2-Methylphenol	ND		ug/kg	200	30.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	280	31.	1

Project Name: PIERCE ARROW APARTMENTS **Lab Number:** L1723613

Project Number: 56831.10 **Report Date:** 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-27 Date Collected: 07/11/17 15:50

Client ID: SS-1-071117 Date Received: 07/11/17

Sample Location: BUFFALO, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	73		25-120
Phenol-d6	73		10-120
Nitrobenzene-d5	81		23-120
2-Fluorobiphenyl	74		30-120
2,4,6-Tribromophenol	115		10-136
4-Terphenyl-d14	54		18-120

Project Name: PIERCE ARROW APARTMENTS **Lab Number:** L1723613

Project Number: 56831.10 **Report Date:** 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-28
Client ID: SS-2-071117
Sample Location: BUFFALO, NY

Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 07/18/17 03:51
Analyst: PS
Percent Solids: 84%

Date Collected: 07/11/17 15:55
Date Received: 07/11/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 07/14/17 09:59

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	23	J	ug/kg	160	20.	1
Hexachlorobenzene	ND		ug/kg	120	22.	1
Fluoranthene	360		ug/kg	120	22.	1
Naphthalene	31	J	ug/kg	200	24.	1
Benzo(a)anthracene	180		ug/kg	120	22.	1
Benzo(a)pyrene	160		ug/kg	160	48.	1
Benzo(b)fluoranthene	230		ug/kg	120	33.	1
Benzo(k)fluoranthene	68	J	ug/kg	120	31.	1
Chrysene	170		ug/kg	120	20.	1
Acenaphthylene	ND		ug/kg	160	30.	1
Anthracene	50	J	ug/kg	120	38.	1
Benzo(ghi)perylene	110	J	ug/kg	160	23.	1
Fluorene	22	J	ug/kg	200	19.	1
Phenanthrene	230		ug/kg	120	24.	1
Dibenzo(a,h)anthracene	32	J	ug/kg	120	23.	1
Indeno(1,2,3-cd)pyrene	130	J	ug/kg	160	27.	1
Pyrene	290		ug/kg	120	19.	1
Dibenzofuran	20	J	ug/kg	200	18.	1
Pentachlorophenol	ND		ug/kg	160	43.	1
Phenol	ND		ug/kg	200	30.	1
2-Methylphenol	ND		ug/kg	200	30.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	280	31.	1

Project Name: PIERCE ARROW APARTMENTS **Lab Number:** L1723613

Project Number: 56831.10 **Report Date:** 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-28 Date Collected: 07/11/17 15:55

Client ID: SS-2-071117 Date Received: 07/11/17

Sample Location: BUFFALO, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	78		25-120
Phenol-d6	79		10-120
Nitrobenzene-d5	91		23-120
2-Fluorobiphenyl	66		30-120
2,4,6-Tribromophenol	62		10-136
4-Terphenyl-d14	51		18-120

Project Name: PIERCE ARROW APARTMENTS **Lab Number:** L1723613

Project Number: 56831.10 **Report Date:** 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-29
Client ID: SS-3-071117
Sample Location: BUFFALO, NY

Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 07/18/17 17:25
Analyst: PS
Percent Solids: 91%

Date Collected: 07/11/17 16:00
Date Received: 07/11/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 07/14/17 09:59

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	52	J	ug/kg	140	19.	1
Hexachlorobenzene	ND		ug/kg	110	20.	1
Fluoranthene	670		ug/kg	110	21.	1
Naphthalene	84	J	ug/kg	180	22.	1
Benzo(a)anthracene	300		ug/kg	110	20.	1
Benzo(a)pyrene	270		ug/kg	140	44.	1
Benzo(b)fluoranthene	370		ug/kg	110	30.	1
Benzo(k)fluoranthene	130		ug/kg	110	29.	1
Chrysene	300		ug/kg	110	19.	1
Acenaphthylene	ND		ug/kg	140	28.	1
Anthracene	97	J	ug/kg	110	35.	1
Benzo(ghi)perylene	170		ug/kg	140	21.	1
Fluorene	42	J	ug/kg	180	17.	1
Phenanthrene	480		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	42	J	ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	170		ug/kg	140	25.	1
Pyrene	530		ug/kg	110	18.	1
Dibenzofuran	31	J	ug/kg	180	17.	1
Pentachlorophenol	ND		ug/kg	140	40.	1
Phenol	ND		ug/kg	180	27.	1
2-Methylphenol	ND		ug/kg	180	28.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	260	28.	1

Project Name: PIERCE ARROW APARTMENTS **Lab Number:** L1723613

Project Number: 56831.10 **Report Date:** 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-29 Date Collected: 07/11/17 16:00

Client ID: SS-3-071117 Date Received: 07/11/17

Sample Location: BUFFALO, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	31		25-120
Phenol-d6	35		10-120
Nitrobenzene-d5	39		23-120
2-Fluorobiphenyl	35		30-120
2,4,6-Tribromophenol	30		10-136
4-Terphenyl-d14	25		18-120

Project Name: PIERCE ARROW APARTMENTS
Project Number: 56831.10
Lab Number: L1723613
Report Date: 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-30
Client ID: SS-4-071117
Sample Location: BUFFALO, NY

Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 07/19/17 04:19
Analyst: CB
Percent Solids: 97%

Date Collected: 07/11/17 16:10
Date Received: 07/11/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 07/18/17 20:32

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	670		ug/kg	130	17.	1
Hexachlorobenzene	ND		ug/kg	100	19.	1
Fluoranthene	5800		ug/kg	100	19.	1
Naphthalene	730		ug/kg	170	20.	1
Benzo(a)anthracene	2400		ug/kg	100	19.	1
Benzo(a)pyrene	1500		ug/kg	130	41.	1
Benzo(b)fluoranthene	2400		ug/kg	100	28.	1
Benzo(k)fluoranthene	670		ug/kg	100	27.	1
Chrysene	2400		ug/kg	100	18.	1
Acenaphthylene	26	J	ug/kg	130	26.	1
Anthracene	1100		ug/kg	100	33.	1
Benzo(ghi)perylene	980		ug/kg	130	20.	1
Fluorene	570		ug/kg	170	16.	1
Phenanthrene	6000		ug/kg	100	20.	1
Dibenzo(a,h)anthracene	260		ug/kg	100	19.	1
Indeno(1,2,3-cd)pyrene	1100		ug/kg	130	24.	1
Pyrene	4600		ug/kg	100	17.	1
Dibenzofuran	560		ug/kg	170	16.	1
Pentachlorophenol	ND		ug/kg	130	37.	1
Phenol	ND		ug/kg	170	25.	1
2-Methylphenol	ND		ug/kg	170	26.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.	1

Project Name: PIERCE ARROW APARTMENTS **Lab Number:** L1723613

Project Number: 56831.10 **Report Date:** 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-30 Date Collected: 07/11/17 16:10

Client ID: SS-4-071117 Date Received: 07/11/17

Sample Location: BUFFALO, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	30		25-120
Phenol-d6	30		10-120
Nitrobenzene-d5	38		23-120
2-Fluorobiphenyl	30		30-120
2,4,6-Tribromophenol	24		10-136
4-Terphenyl-d14	28		18-120

Project Name: PIERCE ARROW APARTMENTS
Project Number: 56831.10
Lab Number: L1723613
Report Date: 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-31
Client ID: SURFACE SOIL DUPLICATE
Sample Location: BUFFALO, NY

Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 07/18/17 18:18
Analyst: PS
Percent Solids: 93%

Date Collected: 07/11/17 00:00
Date Received: 07/11/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 07/14/17 09:59

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	80	J	ug/kg	140	18.	1
Hexachlorobenzene	ND		ug/kg	100	20.	1
Fluoranthene	1200		ug/kg	100	20.	1
Naphthalene	160	J	ug/kg	180	21.	1
Benzo(a)anthracene	460		ug/kg	100	20.	1
Benzo(a)pyrene	340		ug/kg	140	43.	1
Benzo(b)fluoranthene	500		ug/kg	100	30.	1
Benzo(k)fluoranthene	170		ug/kg	100	28.	1
Chrysene	460		ug/kg	100	18.	1
Acenaphthylene	ND		ug/kg	140	27.	1
Anthracene	170		ug/kg	100	34.	1
Benzo(ghi)perylene	280		ug/kg	140	21.	1
Fluorene	67	J	ug/kg	180	17.	1
Phenanthrene	800		ug/kg	100	21.	1
Dibenzo(a,h)anthracene	73	J	ug/kg	100	20.	1
Indeno(1,2,3-cd)pyrene	270		ug/kg	140	25.	1
Pyrene	930		ug/kg	100	18.	1
Dibenzofuran	49	J	ug/kg	180	17.	1
Pentachlorophenol	ND		ug/kg	140	39.	1
Phenol	ND		ug/kg	180	27.	1
2-Methylphenol	ND		ug/kg	180	27.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	250	28.	1

Project Name: PIERCE ARROW APARTMENTS **Lab Number:** L1723613

Project Number: 56831.10 **Report Date:** 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-31 Date Collected: 07/11/17 00:00

Client ID: SURFACE SOIL DUPLICATE Date Received: 07/11/17

Sample Location: BUFFALO, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	44		25-120
Phenol-d6	45		10-120
Nitrobenzene-d5	52		23-120
2-Fluorobiphenyl	47		30-120
2,4,6-Tribromophenol	39		10-136
4-Terphenyl-d14	33		18-120

Project Name: PIERCE ARROW APARTMENTS
Project Number: 56831.10
Lab Number: L1723613
Report Date: 07/19/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 07/18/17 01:18
Analyst: RC

Extraction Method: EPA 3510C
Extraction Date: 07/14/17 04:18

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 25-26 Batch: WG1022459-1					
Dibenzofuran	ND		ug/l	2.0	0.66
Phenol	ND		ug/l	5.0	1.9
2-Methylphenol	ND		ug/l	5.0	1.0
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	1.1
Tentatively Identified Compounds					
No Tentatively Identified Compounds	ND		ug/l		

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	37		21-120
Phenol-d6	28		10-120
Nitrobenzene-d5	70		23-120
2-Fluorobiphenyl	81		15-120
2,4,6-Tribromophenol	89		10-120
4-Terphenyl-d14	69		41-149

Project Name: PIERCE ARROW APARTMENTS
Project Number: 56831.10
Lab Number: L1723613
Report Date: 07/19/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 07/15/17 14:38
Analyst: KL

Extraction Method: EPA 3510C
Extraction Date: 07/14/17 04:18

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 25-26 Batch: WG1022460-1					
Acenaphthene	ND		ug/l	0.10	0.04
Fluoranthene	ND		ug/l	0.10	0.04
Naphthalene	ND		ug/l	0.10	0.04
Benzo(a)anthracene	ND		ug/l	0.10	0.02
Benzo(a)pyrene	ND		ug/l	0.10	0.04
Benzo(b)fluoranthene	ND		ug/l	0.10	0.02
Benzo(k)fluoranthene	ND		ug/l	0.10	0.04
Chrysene	ND		ug/l	0.10	0.04
Acenaphthylene	ND		ug/l	0.10	0.04
Anthracene	ND		ug/l	0.10	0.04
Benzo(ghi)perylene	ND		ug/l	0.10	0.04
Fluorene	ND		ug/l	0.10	0.04
Phenanthrene	ND		ug/l	0.10	0.02
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.04
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.04
Pyrene	ND		ug/l	0.10	0.04
Pentachlorophenol	ND		ug/l	0.80	0.22
Hexachlorobenzene	ND		ug/l	0.80	0.03

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	54		21-120
Phenol-d6	37		10-120
Nitrobenzene-d5	94		23-120
2-Fluorobiphenyl	97		15-120
2,4,6-Tribromophenol	94		10-120
4-Terphenyl-d14	82		41-149

Project Name: PIERCE ARROW APARTMENTS
Project Number: 56831.10
Lab Number: L1723613
Report Date: 07/19/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 07/17/17 11:07
Analyst: RC

Extraction Method: EPA 3546
Extraction Date: 07/14/17 08:04

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 02-03,05,07,09,11,13,15,17,19,21,23 Batch: WG1022533-1					
Acenaphthene	ND		ug/kg	130	17.
Hexachlorobenzene	ND		ug/kg	98	18.
Fluoranthene	ND		ug/kg	98	19.
Naphthalene	ND		ug/kg	160	20.
Benzo(a)anthracene	ND		ug/kg	98	18.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	98	27.
Benzo(k)fluoranthene	ND		ug/kg	98	26.
Chrysene	ND		ug/kg	98	17.
Acenaphthylene	ND		ug/kg	130	25.
Anthracene	ND		ug/kg	98	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	98	20.
Dibenzo(a,h)anthracene	ND		ug/kg	98	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	98	16.
Dibenzofuran	ND		ug/kg	160	15.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	160	24.
2-Methylphenol	ND		ug/kg	160	25.
3-Methylphenol/4-Methylphenol	ND		ug/kg	230	25.

Tentatively Identified Compounds

No Tentatively Identified Compounds ND ug/kg

Project Name: PIERCE ARROW APARTMENTS
Project Number: 56831.10
Lab Number: L1723613
Report Date: 07/19/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 07/17/17 11:07
Analyst: RC

Extraction Method: EPA 3546
Extraction Date: 07/14/17 08:04

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 02-03,05,07,09,11,13,15,17,19,21,23 Batch: WG1022533-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	71		25-120
Phenol-d6	76		10-120
Nitrobenzene-d5	72		23-120
2-Fluorobiphenyl	83		30-120
2,4,6-Tribromophenol	108		10-136
4-Terphenyl-d14	101		18-120

Project Name: PIERCE ARROW APARTMENTS
Project Number: 56831.10
Lab Number: L1723613
Report Date: 07/19/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 07/15/17 13:26
Analyst: PS

Extraction Method: EPA 3546
Extraction Date: 07/14/17 09:59

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 27-29,31 Batch: WG1022578-1					
Acenaphthene	ND		ug/kg	130	17.
Hexachlorobenzene	ND		ug/kg	99	18.
Fluoranthene	ND		ug/kg	99	19.
Naphthalene	ND		ug/kg	160	20.
Benzo(a)anthracene	ND		ug/kg	99	18.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	99	28.
Benzo(k)fluoranthene	ND		ug/kg	99	26.
Chrysene	ND		ug/kg	99	17.
Acenaphthylene	ND		ug/kg	130	25.
Anthracene	ND		ug/kg	99	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	99	20.
Dibenzo(a,h)anthracene	ND		ug/kg	99	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	99	16.
Dibenzofuran	ND		ug/kg	160	16.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	160	25.
2-Methylphenol	ND		ug/kg	160	26.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.

Tentatively Identified Compounds

No Tentatively Identified Compounds ND ug/kg

Project Name: PIERCE ARROW APARTMENTS
Project Number: 56831.10
Lab Number: L1723613
Report Date: 07/19/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 07/15/17 13:26
Analyst: PS

Extraction Method: EPA 3546
Extraction Date: 07/14/17 09:59

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 27-29,31 Batch: WG1022578-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	93		25-120
Phenol-d6	95		10-120
Nitrobenzene-d5	98		23-120
2-Fluorobiphenyl	85		30-120
2,4,6-Tribromophenol	86		10-136
4-Terphenyl-d14	89		18-120

Project Name: PIERCE ARROW APARTMENTS
Project Number: 56831.10
Lab Number: L1723613
Report Date: 07/19/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 07/18/17 16:59
Analyst: SZ

Extraction Method: EPA 3546
Extraction Date: 07/18/17 07:44

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 30 Batch: WG1023388-1					
Acenaphthene	ND		ug/kg	130	17.
Hexachlorobenzene	ND		ug/kg	98	18.
Fluoranthene	ND		ug/kg	98	19.
Naphthalene	ND		ug/kg	160	20.
Benzo(a)anthracene	ND		ug/kg	98	18.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	98	28.
Benzo(k)fluoranthene	ND		ug/kg	98	26.
Chrysene	ND		ug/kg	98	17.
Acenaphthylene	ND		ug/kg	130	25.
Anthracene	ND		ug/kg	98	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	98	20.
Dibenzo(a,h)anthracene	ND		ug/kg	98	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	98	16.
Dibenzofuran	ND		ug/kg	160	16.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	160	25.
2-Methylphenol	ND		ug/kg	160	25.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.
Tentatively Identified Compounds					
No Tentatively Identified Compounds	ND		ug/kg		

Project Name: PIERCE ARROW APARTMENTS
Project Number: 56831.10
Lab Number: L1723613
Report Date: 07/19/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 07/18/17 16:59
Analyst: SZ

Extraction Method: EPA 3546
Extraction Date: 07/18/17 07:44

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 30 Batch: WG1023388-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	75		25-120
Phenol-d6	76		10-120
Nitrobenzene-d5	77		23-120
2-Fluorobiphenyl	72		30-120
2,4,6-Tribromophenol	58		10-136
4-Terphenyl-d14	72		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: PIERCE ARROW APARTMENTS

Project Number: 56831.10

Lab Number: L1723613

Report Date: 07/19/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 25-26 Batch: WG1022459-2 WG1022459-3								
Dibenzofuran	74		75		40-140	1		30
Phenol	34		34		12-110	0		30
2-Methylphenol	71		68		30-130	4		30
3-Methylphenol/4-Methylphenol	74		72		30-130	3		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	58		46		21-120
Phenol-d6	40		38		10-120
Nitrobenzene-d5	78		82		23-120
2-Fluorobiphenyl	78		77		15-120
2,4,6-Tribromophenol	119		95		10-120
4-Terphenyl-d14	77		70		41-149

Lab Control Sample Analysis
Batch Quality Control

Project Name: PIERCE ARROW APARTMENTS
Project Number: 56831.10

Lab Number: L1723613
Report Date: 07/19/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 25-26 Batch: WG1022460-2 WG1022460-3								
Acenaphthene	78		72		37-111	8		40
Fluoranthene	81		77		40-140	5		40
Naphthalene	76		71		40-140	7		40
Benzo(a)anthracene	79		75		40-140	5		40
Benzo(a)pyrene	78		74		40-140	5		40
Benzo(b)fluoranthene	78		75		40-140	4		40
Benzo(k)fluoranthene	79		77		40-140	3		40
Chrysene	78		74		40-140	5		40
Acenaphthylene	82		76		40-140	8		40
Anthracene	80		74		40-140	8		40
Benzo(ghi)perylene	76		70		40-140	8		40
Fluorene	80		74		40-140	8		40
Phenanthrene	78		72		40-140	8		40
Dibenzo(a,h)anthracene	78		72		40-140	8		40
Indeno(1,2,3-cd)pyrene	79		73		40-140	8		40
Pyrene	80		76		26-127	5		40
Pentachlorophenol	95		87		9-103	9		40
Hexachlorobenzene	76		71		40-140	7		40

Lab Control Sample Analysis

Batch Quality Control

Project Name: PIERCE ARROW APARTMENTS

Project Number: 56831.10

Lab Number: L1723613

Report Date: 07/19/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits

Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 25-26 Batch: WG1022460-2 WG1022460-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	51		47		21-120
Phenol-d6	36		33		10-120
Nitrobenzene-d5	75		68		23-120
2-Fluorobiphenyl	84		77		15-120
2,4,6-Tribromophenol	83		78		10-120
4-Terphenyl-d14	80		75		41-149

Lab Control Sample Analysis

Batch Quality Control

Project Name: PIERCE ARROW APARTMENTS

Project Number: 56831.10

Lab Number: L1723613

Report Date: 07/19/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02-03,05,07,09,11,13,15,17,19,21,23 Batch: WG1022533-2 WG1022533-3								
Acenaphthene	86		80		31-137	7		50
Hexachlorobenzene	100		89		40-140	12		50
Fluoranthene	89		82		40-140	8		50
Naphthalene	77		74		40-140	4		50
Benzo(a)anthracene	80		72		40-140	11		50
Benzo(a)pyrene	85		77		40-140	10		50
Benzo(b)fluoranthene	82		74		40-140	10		50
Benzo(k)fluoranthene	88		80		40-140	10		50
Chrysene	80		75		40-140	6		50
Acenaphthylene	82		76		40-140	8		50
Anthracene	80		75		40-140	6		50
Benzo(ghi)perylene	84		76		40-140	10		50
Fluorene	91		83		40-140	9		50
Phenanthrene	82		76		40-140	8		50
Dibenzo(a,h)anthracene	79		71		40-140	11		50
Indeno(1,2,3-cd)pyrene	82		75		40-140	9		50
Pyrene	88		82		35-142	7		50
Dibenzofuran	89		80		40-140	11		50
Pentachlorophenol	101		88		17-109	14		50
Phenol	72		68		26-90	6		50
2-Methylphenol	83		81		30-130.	2		50
3-Methylphenol/4-Methylphenol	89		83		30-130	7		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: PIERCE ARROW APARTMENTS

Project Number: 56831.10

Lab Number: L1723613

Report Date: 07/19/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02-03,05,07,09,11,13,15,17,19,21,23 Batch: WG1022533-2 WG1022533-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	75		74		25-120
Phenol-d6	85		79		10-120
Nitrobenzene-d5	88		85		23-120
2-Fluorobiphenyl	84		76		30-120
2,4,6-Tribromophenol	117		102		10-136
4-Terphenyl-d14	90		82		18-120

Lab Control Sample Analysis
Batch Quality Control

Project Name: PIERCE ARROW APARTMENTS
Project Number: 56831.10

Lab Number: L1723613
Report Date: 07/19/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 27-29,31 Batch: WG1022578-2 WG1022578-3								
Acenaphthene	103		72		31-137	35		50
Hexachlorobenzene	95		62		40-140	42		50
Fluoranthene	101		69		40-140	38		50
Naphthalene	91		66		40-140	32		50
Benzo(a)anthracene	99		66		40-140	40		50
Benzo(a)pyrene	99		66		40-140	40		50
Benzo(b)fluoranthene	104		68		40-140	42		50
Benzo(k)fluoranthene	92		62		40-140	39		50
Chrysene	94		64		40-140	38		50
Acenaphthylene	94		64		40-140	38		50
Anthracene	101		70		40-140	36		50
Benzo(ghi)perylene	97		65		40-140	40		50
Fluorene	106		72		40-140	38		50
Phenanthrene	98		68		40-140	36		50
Dibenzo(a,h)anthracene	98		67		40-140	38		50
Indeno(1,2,3-cd)pyrene	101		68		40-140	39		50
Pyrene	100		69		35-142	37		50
Dibenzofuran	104		72		40-140	36		50
Pentachlorophenol	82		54		17-109	41		50
Phenol	**113**	Q	79		26-90	35		50
2-Methylphenol	104		74		30-130.	34		50
3-Methylphenol/4-Methylphenol	109		75		30-130	37		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: PIERCE ARROW APARTMENTS
Project Number: 56831.10

Lab Number: L1723613
Report Date: 07/19/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 27-29,31 Batch: WG1022578-2 WG1022578-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	98		69		25-120
Phenol-d6	97		69		10-120
Nitrobenzene-d5	101		73		23-120
2-Fluorobiphenyl	88		60		30-120
2,4,6-Tribromophenol	94		66		10-136
4-Terphenyl-d14	89		62		18-120

Lab Control Sample Analysis
Batch Quality Control

Project Name: PIERCE ARROW APARTMENTS
Project Number: 56831.10

Lab Number: L1723613
Report Date: 07/19/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 30 Batch: WG1023388-2 WG1023388-3								
Acenaphthene	69		66		31-137	4		50
Hexachlorobenzene	63		63		40-140	0		50
Fluoranthene	66		62		40-140	6		50
Naphthalene	61		60		40-140	2		50
Benzo(a)anthracene	62		59		40-140	5		50
Benzo(a)pyrene	60		59		40-140	2		50
Benzo(b)fluoranthene	58		58		40-140	0		50
Benzo(k)fluoranthene	58		58		40-140	0		50
Chrysene	60		58		40-140	3		50
Acenaphthylene	68		64		40-140	6		50
Anthracene	67		64		40-140	5		50
Benzo(ghi)perylene	57		55		40-140	4		50
Fluorene	71		67		40-140	6		50
Phenanthrene	64		60		40-140	6		50
Dibenzo(a,h)anthracene	59		58		40-140	2		50
Indeno(1,2,3-cd)pyrene	59		60		40-140	2		50
Pyrene	66		61		35-142	8		50
Dibenzofuran	70		67		40-140	4		50
Pentachlorophenol	61		56		17-109	9		50
Phenol	71		67		26-90	6		50
2-Methylphenol	74		69		30-130.	7		50
3-Methylphenol/4-Methylphenol	74		68		30-130	8		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: PIERCE ARROW APARTMENTS
Project Number: 56831.10

Lab Number: L1723613
Report Date: 07/19/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 30 Batch: WG1023388-2 WG1023388-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	65		62		25-120
Phenol-d6	70		64		10-120
Nitrobenzene-d5	70		66		23-120
2-Fluorobiphenyl	63		59		30-120
2,4,6-Tribromophenol	60		61		10-136
4-Terphenyl-d14	60		57		18-120

Matrix Spike Analysis
Batch Quality Control

Project Name: PIERCE ARROW APARTMENTS
Project Number: 56831.10
Lab Number: L1723613
Report Date: 07/19/17

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02-03,05,07,09,11,13,15,17,19,21,23 QC Batch ID: WG1022533-4 WG1022533-5 QC Sample: L1723613-05 Client ID: SP-3-1-8-071117												
Acenaphthene	ND	1600	1400	87		1200	74		31-137	15		50
Hexachlorobenzene	ND	1600	1600	100		1400	86		40-140	13		50
Fluoranthene	160	1600	1800	100		1300	70		40-140	32		50
Naphthalene	ND	1600	1200	75		1100	68		40-140	9		50
Benzo(a)anthracene	80.J	1600	1400	87		1100	68		40-140	24		50
Benzo(a)pyrene	69.J	1600	1400	87		1100	68		40-140	24		50
Benzo(b)fluoranthene	81.J	1600	1400	87		1100	68		40-140	24		50
Benzo(k)fluoranthene	ND	1600	1300	81		1100	68		40-140	17		50
Chrysene	70.J	1600	1400	87		1100	68		40-140	24		50
Acenaphthylene	ND	1600	1300	81		1200	74		40-140	8		50
Anthracene	ND	1600	1400	87		1200	74		40-140	15		50
Benzo(ghi)perylene	34.J	1600	1400	87		1100	68		40-140	24		50
Fluorene	ND	1600	1500	93		1200	74		40-140	22		50
Phenanthrene	93.J	1600	1700	110		1200	74		40-140	34		50
Dibenzo(a,h)anthracene	ND	1600	1200	75		1000	62		40-140	18		50
Indeno(1,2,3-cd)pyrene	37.J	1600	1400	87		1100	68		40-140	24		50
Pyrene	140	1600	1800	100		1300	72		35-142	32		50
Dibenzofuran	ND	1600	1400	87		1200	74		40-140	15		50
Pentachlorophenol	ND	1600	1700	**110**	Q	1400	86		17-109	19		50
Phenol	ND	1600	1200	75		1000	62		26-90	18		50
2-Methylphenol	ND	1600	1400	87		1200	74		30-130.	15		50
3-Methylphenol/4-Methylphenol	ND	1600	1400	87		1300	80		30-130	7		50

Matrix Spike Analysis

Batch Quality Control

Project Name: PIERCE ARROW APARTMENTS
Project Number: 56831.10

Lab Number: L1723613
Report Date: 07/19/17

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02-03,05,07,09,11,13,15,17,19,21,23 QC Batch ID: WG1022533-4 WG1022533-5 QC Sample: L1723613-05 Client ID: SP-3-1-8-071117												

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
2,4,6-Tribromophenol	117		98		10-136
2-Fluorobiphenyl	83		71		30-120
2-Fluorophenol	75		67		25-120
4-Terphenyl-d14	86		74		18-120
Nitrobenzene-d5	90		75		23-120
Phenol-d6	81		73		10-120

Matrix Spike Analysis
Batch Quality Control

Project Name: PIERCE ARROW APARTMENTS
Project Number: 56831.10
Lab Number: L1723613
Report Date: 07/19/17

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 27-29,31 QC Batch ID: WG1022578-4 WG1022578-5 QC Sample: L1723613-27 Client ID: SS-1-071117												
Acenaphthene	920	1570	2100	75		1800	56		31-137	15		50
Hexachlorobenzene	ND	1570	1600	100		1300	83		40-140	21		50
Fluoranthene	7300	1570	7000	**0**	Q	6400	**0**	Q	40-140	9		50
Naphthalene	320	1570	1500	75		1200	56		40-140	22		50
Benzo(a)anthracene	3600	1570	3900	**19**	Q	3400	**0**	Q	40-140	14		50
Benzo(a)pyrene	2700	1570	3200	**32**	Q	2700	**0**	Q	40-140	17		50
Benzo(b)fluoranthene	3600	1570	4200	**38**	Q	3400	**0**	Q	40-140	21		50
Benzo(k)fluoranthene	1200	1570	1900	45		1700	**32**	Q	40-140	11		50
Chrysene	3100	1570	3600	**32**	Q	3300	**13**	Q	40-140	9		50
Acenaphthylene	38.J	1570	1400	89		1100	70		40-140	24		50
Anthracene	1800	1570	2700	57		2400	**38**	Q	40-140	12		50
Benzo(ghi)perylene	1300	1570	1900	**38**	Q	1700	**26**	Q	40-140	11		50
Fluorene	980	1570	2200	78		1900	59		40-140	15		50
Phenanthrene	6400	1570	6400	**0**	Q	6000	**0**	Q	40-140	6		50
Dibenzo(a,h)anthracene	380	1570	1300	59		1000	40		40-140	26		50
Indeno(1,2,3-cd)pyrene	1600	1570	2200	**38**	Q	1900	**19**	Q	40-140	15		50
Pyrene	5900	1570	5800	**0**	Q	5300	**0**	Q	35-142	9		50
Dibenzofuran	580	1570	2000	90		1700	72		40-140	16		50
Pentachlorophenol	ND	1570	1500	96		1100	70		17-109	31		50
Phenol	ND	1570	1200	76		1000	64		26-90	18		50
2-Methylphenol	ND	1570	1200	76		1100	70		30-130.	9		50
3-Methylphenol/4-Methylphenol	ND	1570	1300	83		1100	70		30-130	17		50

Matrix Spike Analysis

Batch Quality Control

Project Name: PIERCE ARROW APARTMENTS
Project Number: 56831.10

Lab Number: L1723613
Report Date: 07/19/17

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits

Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 27-29,31 QC Batch ID: WG1022578-4 WG1022578-5 QC Sample: L1723613-27
Client ID: SS-1-071117

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
2,4,6-Tribromophenol	121		99		10-136
2-Fluorobiphenyl	81		70		30-120
2-Fluorophenol	78		66		25-120
4-Terphenyl-d14	72		61		18-120
Nitrobenzene-d5	85		73		23-120
Phenol-d6	76		64		10-120

PCBS

Project Name: PIERCE ARROW APARTMENTS
Project Number: 56831.10
Lab Number: L1723613
Report Date: 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-03
Client ID: SP-2-3.5-071117
Sample Location: BUFFALO, NY

Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 07/18/17 09:55
Analyst: JA
Percent Solids: 76%

Date Collected: 07/11/17 10:10
Date Received: 07/11/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 07/14/17 13:33
Cleanup Method: EPA 3665A
Cleanup Date: 07/15/17
Cleanup Method: EPA 3660B
Cleanup Date: 07/15/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	43.0	4.88	1	A
Aroclor 1221	ND		ug/kg	43.0	6.55	1	A
Aroclor 1232	ND		ug/kg	43.0	4.23	1	A
Aroclor 1242	ND		ug/kg	43.0	5.27	1	A
Aroclor 1248	ND		ug/kg	43.0	4.83	1	A
Aroclor 1254	ND		ug/kg	43.0	3.51	1	A
Aroclor 1260	ND		ug/kg	43.0	4.49	1	A
Aroclor 1262	ND		ug/kg	43.0	3.54	1	A
Aroclor 1268	ND		ug/kg	43.0	3.05	1	A
PCBs, Total	ND		ug/kg	43.0	3.05	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	34		30-150	A
Decachlorobiphenyl	42		30-150	A
2,4,5,6-Tetrachloro-m-xylene	35		30-150	B
Decachlorobiphenyl	56		30-150	B

Project Name: PIERCE ARROW APARTMENTS **Lab Number:** L1723613

Project Number: 56831.10 **Report Date:** 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-09
Client ID: SP-6-0-1-071117
Sample Location: BUFFALO, NY

Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 07/18/17 10:12
Analyst: JA
Percent Solids: 87%

Date Collected: 07/11/17 11:40
Date Received: 07/11/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 07/14/17 13:33
Cleanup Method: EPA 3665A
Cleanup Date: 07/15/17
Cleanup Method: EPA 3660B
Cleanup Date: 07/15/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	37.5	4.26	1	A
Aroclor 1221	ND		ug/kg	37.5	5.71	1	A
Aroclor 1232	ND		ug/kg	37.5	3.69	1	A
Aroclor 1242	ND		ug/kg	37.5	4.59	1	A
Aroclor 1248	ND		ug/kg	37.5	4.21	1	A
Aroclor 1254	26.0	J	ug/kg	37.5	3.06	1	B
Aroclor 1260	24.5	J	ug/kg	37.5	3.92	1	B
Aroclor 1262	ND		ug/kg	37.5	3.08	1	A
Aroclor 1268	ND		ug/kg	37.5	2.66	1	A
PCBs, Total	50.5	J	ug/kg	37.5	3.06	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	51		30-150	A
Decachlorobiphenyl	54		30-150	A
2,4,5,6-Tetrachloro-m-xylene	47		30-150	B
Decachlorobiphenyl	72		30-150	B

Project Name: PIERCE ARROW APARTMENTS
Project Number: 56831.10
Lab Number: L1723613
Report Date: 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-11
Client ID: SP-7-4-8-071117
Sample Location: BUFFALO, NY

Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 07/18/17 10:28
Analyst: JA
Percent Solids: 84%

Date Collected: 07/11/17 12:30
Date Received: 07/11/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 07/14/17 13:33
Cleanup Method: EPA 3665A
Cleanup Date: 07/15/17
Cleanup Method: EPA 3660B
Cleanup Date: 07/15/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	39.1	4.43	1	A
Aroclor 1221	ND		ug/kg	39.1	5.94	1	A
Aroclor 1232	ND		ug/kg	39.1	3.84	1	A
Aroclor 1242	ND		ug/kg	39.1	4.78	1	A
Aroclor 1248	ND		ug/kg	39.1	4.38	1	A
Aroclor 1254	ND		ug/kg	39.1	3.19	1	A
Aroclor 1260	ND		ug/kg	39.1	4.08	1	A
Aroclor 1262	ND		ug/kg	39.1	3.21	1	A
Aroclor 1268	ND		ug/kg	39.1	2.76	1	A
PCBs, Total	ND		ug/kg	39.1	2.76	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	54		30-150	A
Decachlorobiphenyl	51		30-150	A
2,4,5,6-Tetrachloro-m-xylene	59		30-150	B
Decachlorobiphenyl	65		30-150	B

Project Name: PIERCE ARROW APARTMENTS
Project Number: 56831.10
Lab Number: L1723613
Report Date: 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-13
Client ID: SP-8-0-1-071117
Sample Location: BUFFALO, NY

Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 07/18/17 10:45
Analyst: JA
Percent Solids: 91%

Date Collected: 07/11/17 13:00
Date Received: 07/11/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 07/14/17 13:33
Cleanup Method: EPA 3665A
Cleanup Date: 07/15/17
Cleanup Method: EPA 3660B
Cleanup Date: 07/15/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	36.2	4.10	1	A
Aroclor 1221	ND		ug/kg	36.2	5.50	1	A
Aroclor 1232	ND		ug/kg	36.2	3.56	1	A
Aroclor 1242	ND		ug/kg	36.2	4.42	1	A
Aroclor 1248	ND		ug/kg	36.2	4.06	1	A
Aroclor 1254	ND		ug/kg	36.2	2.95	1	A
Aroclor 1260	7.79	J	ug/kg	36.2	3.77	1	B
Aroclor 1262	ND		ug/kg	36.2	2.97	1	A
Aroclor 1268	ND		ug/kg	36.2	2.56	1	A
PCBs, Total	7.79	J	ug/kg	36.2	3.77	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	50		30-150	A
Decachlorobiphenyl	39		30-150	A
2,4,5,6-Tetrachloro-m-xylene	51		30-150	B
Decachlorobiphenyl	56		30-150	B

Project Name: PIERCE ARROW APARTMENTS
Project Number: 56831.10
Lab Number: L1723613
Report Date: 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-15
Client ID: SP-9-0-13-071117
Sample Location: BUFFALO, NY

Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 07/18/17 11:01
Analyst: JA
Percent Solids: 85%

Date Collected: 07/11/17 13:20
Date Received: 07/11/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 07/14/17 13:33
Cleanup Method: EPA 3665A
Cleanup Date: 07/15/17
Cleanup Method: EPA 3660B
Cleanup Date: 07/15/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	38.4	4.35	1	A
Aroclor 1221	ND		ug/kg	38.4	5.84	1	A
Aroclor 1232	ND		ug/kg	38.4	3.78	1	A
Aroclor 1242	ND		ug/kg	38.4	4.70	1	A
Aroclor 1248	ND		ug/kg	38.4	4.31	1	A
Aroclor 1254	ND		ug/kg	38.4	3.13	1	A
Aroclor 1260	ND		ug/kg	38.4	4.01	1	A
Aroclor 1262	ND		ug/kg	38.4	3.16	1	A
Aroclor 1268	ND		ug/kg	38.4	2.72	1	A
PCBs, Total	ND		ug/kg	38.4	2.72	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	52		30-150	A
Decachlorobiphenyl	49		30-150	A
2,4,5,6-Tetrachloro-m-xylene	51		30-150	B
Decachlorobiphenyl	69		30-150	B

Project Name: PIERCE ARROW APARTMENTS **Lab Number:** L1723613

Project Number: 56831.10 **Report Date:** 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-19
Client ID: SP-11-0.5-4.5-071117
Sample Location: BUFFALO, NY

Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 07/18/17 11:17
Analyst: JA
Percent Solids: 85%

Date Collected: 07/11/17 14:20
Date Received: 07/11/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 07/14/17 13:33
Cleanup Method: EPA 3665A
Cleanup Date: 07/15/17
Cleanup Method: EPA 3660B
Cleanup Date: 07/15/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	38.3	4.34	1	A
Aroclor 1221	ND		ug/kg	38.3	5.82	1	A
Aroclor 1232	ND		ug/kg	38.3	3.76	1	A
Aroclor 1242	ND		ug/kg	38.3	4.68	1	A
Aroclor 1248	ND		ug/kg	38.3	4.29	1	A
Aroclor 1254	ND		ug/kg	38.3	3.12	1	A
Aroclor 1260	ND		ug/kg	38.3	4.00	1	A
Aroclor 1262	ND		ug/kg	38.3	3.14	1	A
Aroclor 1268	ND		ug/kg	38.3	2.71	1	A
PCBs, Total	ND		ug/kg	38.3	2.71	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	62		30-150	A
Decachlorobiphenyl	54		30-150	A
2,4,5,6-Tetrachloro-m-xylene	63		30-150	B
Decachlorobiphenyl	74		30-150	B

Project Name: PIERCE ARROW APARTMENTS
Project Number: 56831.10

Lab Number: L1723613
Report Date: 07/19/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 07/16/17 21:07
Analyst: JW

Extraction Method: EPA 3546
Extraction Date: 07/14/17 01:05
Cleanup Method: EPA 3665A
Cleanup Date: 07/14/17
Cleanup Method: EPA 3660B
Cleanup Date: 07/14/17

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 03,09,11,13,15,19 Batch: WG1022440-1						
Aroclor 1016	ND		ug/kg	31.6	3.58	A
Aroclor 1221	ND		ug/kg	31.6	4.81	A
Aroclor 1232	ND		ug/kg	31.6	3.11	A
Aroclor 1242	ND		ug/kg	31.6	3.87	A
Aroclor 1248	ND		ug/kg	31.6	3.55	A
Aroclor 1254	ND		ug/kg	31.6	2.58	A
Aroclor 1260	ND		ug/kg	31.6	3.30	A
Aroclor 1262	ND		ug/kg	31.6	2.60	A
Aroclor 1268	ND		ug/kg	31.6	2.24	A
PCBs, Total	ND		ug/kg	31.6	2.24	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	79		30-150	A
Decachlorobiphenyl	85		30-150	A
2,4,5,6-Tetrachloro-m-xylene	85		30-150	B
Decachlorobiphenyl	103		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: PIERCE ARROW APARTMENTS

Project Number: 56831.10

Lab Number: L1723613

Report Date: 07/19/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 03,09,11,13,15,19 Batch: WG1022440-2 WG1022440-3									
Aroclor 1016	77		78		40-140	1		50	A
Aroclor 1260	73		76		40-140	4		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	75		78		30-150	A
Decachlorobiphenyl	79		81		30-150	A
2,4,5,6-Tetrachloro-m-xylene	83		85		30-150	B
Decachlorobiphenyl	96		100		30-150	B

METALS

Project Name: PIERCE ARROW APARTMENTS
Lab Number: L1723613
Project Number: 56831.10
Report Date: 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-02
Client ID: SP-1-0.5-8-071117
Sample Location: BUFFALO, NY
Matrix: Soil
Percent Solids: 82%

Date Collected: 07/11/17 09:40
Date Received: 07/11/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	4.25		mg/kg	0.473	0.098	1	07/12/17 21:10	07/17/17 15:47	EPA 3050B	1,6010C	PS
Barium, Total	103		mg/kg	0.473	0.082	1	07/12/17 21:10	07/17/17 15:47	EPA 3050B	1,6010C	PS
Beryllium, Total	0.563		mg/kg	0.236	0.016	1	07/12/17 21:10	07/17/17 15:47	EPA 3050B	1,6010C	PS
Cadmium, Total	0.710		mg/kg	0.473	0.046	1	07/12/17 21:10	07/17/17 15:47	EPA 3050B	1,6010C	PS
Chromium, Total	13.8		mg/kg	0.473	0.045	1	07/12/17 21:10	07/17/17 15:47	EPA 3050B	1,6010C	PS
Copper, Total	18.0		mg/kg	0.473	0.122	1	07/12/17 21:10	07/17/17 15:47	EPA 3050B	1,6010C	PS
Lead, Total	122		mg/kg	2.36	0.127	1	07/12/17 21:10	07/17/17 15:47	EPA 3050B	1,6010C	PS
Manganese, Total	266		mg/kg	0.473	0.075	1	07/12/17 21:10	07/17/17 15:47	EPA 3050B	1,6010C	PS
Mercury, Total	0.12		mg/kg	0.08	0.02	1	07/13/17 09:00	07/17/17 14:51	EPA 7471B	1,7471B	MG
Nickel, Total	16.8		mg/kg	1.18	0.114	1	07/12/17 21:10	07/17/17 15:47	EPA 3050B	1,6010C	PS
Selenium, Total	0.147	J	mg/kg	0.946	0.122	1	07/12/17 21:10	07/17/17 15:47	EPA 3050B	1,6010C	PS
Silver, Total	ND		mg/kg	0.473	0.134	1	07/12/17 21:10	07/17/17 15:47	EPA 3050B	1,6010C	PS
Zinc, Total	83.5		mg/kg	2.36	0.139	1	07/12/17 21:10	07/17/17 15:47	EPA 3050B	1,6010C	PS

Project Name: PIERCE ARROW APARTMENTS
Lab Number: L1723613
Project Number: 56831.10
Report Date: 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-03
Client ID: SP-2-3.5-071117
Sample Location: BUFFALO, NY
Matrix: Soil
Percent Solids: 76%

Date Collected: 07/11/17 10:10
Date Received: 07/11/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	4.64		mg/kg	1.04	0.217	2	07/12/17 21:10	07/17/17 15:51	EPA 3050B	1,6010C	PS
Barium, Total	110		mg/kg	1.04	0.181	2	07/12/17 21:10	07/17/17 15:51	EPA 3050B	1,6010C	PS
Beryllium, Total	0.615		mg/kg	0.521	0.034	2	07/12/17 21:10	07/17/17 15:51	EPA 3050B	1,6010C	PS
Cadmium, Total	0.782	J	mg/kg	1.04	0.102	2	07/12/17 21:10	07/17/17 15:51	EPA 3050B	1,6010C	PS
Chromium, Total	16.9		mg/kg	1.04	0.100	2	07/12/17 21:10	07/17/17 15:51	EPA 3050B	1,6010C	PS
Copper, Total	18.6		mg/kg	1.04	0.269	2	07/12/17 21:10	07/17/17 15:51	EPA 3050B	1,6010C	PS
Lead, Total	18.2		mg/kg	5.21	0.279	2	07/12/17 21:10	07/17/17 15:51	EPA 3050B	1,6010C	PS
Manganese, Total	307		mg/kg	1.04	0.166	2	07/12/17 21:10	07/17/17 15:51	EPA 3050B	1,6010C	PS
Mercury, Total	0.05	J	mg/kg	0.08	0.02	1	07/13/17 09:00	07/17/17 14:53	EPA 7471B	1,7471B	MG
Nickel, Total	17.4		mg/kg	2.60	0.252	2	07/12/17 21:10	07/17/17 15:51	EPA 3050B	1,6010C	PS
Selenium, Total	ND		mg/kg	2.08	0.269	2	07/12/17 21:10	07/17/17 15:51	EPA 3050B	1,6010C	PS
Silver, Total	ND		mg/kg	1.04	0.295	2	07/12/17 21:10	07/17/17 15:51	EPA 3050B	1,6010C	PS
Zinc, Total	56.8		mg/kg	5.21	0.305	2	07/12/17 21:10	07/17/17 15:51	EPA 3050B	1,6010C	PS

Project Name: PIERCE ARROW APARTMENTS
Lab Number: L1723613
Project Number: 56831.10
Report Date: 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-05
Client ID: SP-3-1-8-071117
Sample Location: BUFFALO, NY
Matrix: Soil
Percent Solids: 81%

Date Collected: 07/11/17 10:30
Date Received: 07/11/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	5.41		mg/kg	0.991	0.206	2	07/12/17 21:10	07/17/17 15:31	EPA 3050B	1,6010C	PS
Barium, Total	66.9		mg/kg	0.991	0.172	2	07/12/17 21:10	07/17/17 15:31	EPA 3050B	1,6010C	PS
Beryllium, Total	0.416	J	mg/kg	0.496	0.033	2	07/12/17 21:10	07/17/17 15:31	EPA 3050B	1,6010C	PS
Cadmium, Total	0.734	J	mg/kg	0.991	0.097	2	07/12/17 21:10	07/17/17 15:31	EPA 3050B	1,6010C	PS
Chromium, Total	13.2		mg/kg	0.991	0.095	2	07/12/17 21:10	07/17/17 15:31	EPA 3050B	1,6010C	PS
Copper, Total	14.2		mg/kg	0.991	0.256	2	07/12/17 21:10	07/17/17 15:31	EPA 3050B	1,6010C	PS
Lead, Total	17.5		mg/kg	4.96	0.266	2	07/12/17 21:10	07/17/17 15:31	EPA 3050B	1,6010C	PS
Manganese, Total	218		mg/kg	0.991	0.158	2	07/12/17 21:10	07/17/17 15:31	EPA 3050B	1,6010C	PS
Mercury, Total	0.04	J	mg/kg	0.08	0.02	1	07/13/17 09:00	07/17/17 14:32	EPA 7471B	1,7471B	MG
Nickel, Total	13.3		mg/kg	2.48	0.240	2	07/12/17 21:10	07/17/17 15:31	EPA 3050B	1,6010C	PS
Selenium, Total	ND		mg/kg	1.98	0.256	2	07/12/17 21:10	07/17/17 15:31	EPA 3050B	1,6010C	PS
Silver, Total	ND		mg/kg	0.991	0.280	2	07/12/17 21:10	07/17/17 15:31	EPA 3050B	1,6010C	PS
Zinc, Total	49.3		mg/kg	4.96	0.290	2	07/12/17 21:10	07/17/17 15:31	EPA 3050B	1,6010C	PS

Project Name: PIERCE ARROW APARTMENTS
Lab Number: L1723613
Project Number: 56831.10
Report Date: 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-07
Client ID: SP-5-1-8-071117
Sample Location: BUFFALO, NY
Matrix: Soil
Percent Solids: 78%

Date Collected: 07/11/17 11:15
Date Received: 07/11/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	5.86		mg/kg	0.992	0.206	2	07/12/17 21:10	07/17/17 15:55	EPA 3050B	1,6010C	PS
Barium, Total	90.1		mg/kg	0.992	0.172	2	07/12/17 21:10	07/17/17 15:55	EPA 3050B	1,6010C	PS
Beryllium, Total	0.456	J	mg/kg	0.496	0.033	2	07/12/17 21:10	07/17/17 15:55	EPA 3050B	1,6010C	PS
Cadmium, Total	0.902	J	mg/kg	0.992	0.097	2	07/12/17 21:10	07/17/17 15:55	EPA 3050B	1,6010C	PS
Chromium, Total	17.2		mg/kg	0.992	0.095	2	07/12/17 21:10	07/17/17 15:55	EPA 3050B	1,6010C	PS
Copper, Total	21.8		mg/kg	0.992	0.256	2	07/12/17 21:10	07/17/17 15:55	EPA 3050B	1,6010C	PS
Lead, Total	10.9		mg/kg	4.96	0.266	2	07/12/17 21:10	07/17/17 15:55	EPA 3050B	1,6010C	PS
Manganese, Total	422		mg/kg	0.992	0.158	2	07/12/17 21:10	07/17/17 15:55	EPA 3050B	1,6010C	PS
Mercury, Total	ND		mg/kg	0.08	0.02	1	07/13/17 09:00	07/17/17 14:55	EPA 7471B	1,7471B	MG
Nickel, Total	21.9		mg/kg	2.48	0.240	2	07/12/17 21:10	07/17/17 15:55	EPA 3050B	1,6010C	PS
Selenium, Total	ND		mg/kg	1.98	0.256	2	07/12/17 21:10	07/17/17 15:55	EPA 3050B	1,6010C	PS
Silver, Total	ND		mg/kg	0.992	0.281	2	07/12/17 21:10	07/17/17 15:55	EPA 3050B	1,6010C	PS
Zinc, Total	57.0		mg/kg	4.96	0.290	2	07/12/17 21:10	07/17/17 15:55	EPA 3050B	1,6010C	PS

Project Name: PIERCE ARROW APARTMENTS
Lab Number: L1723613
Project Number: 56831.10
Report Date: 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-09
Client ID: SP-6-0-1-071117
Sample Location: BUFFALO, NY
Matrix: Soil
Percent Solids: 87%

Date Collected: 07/11/17 11:40
Date Received: 07/11/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	4.41		mg/kg	0.900	0.187	2	07/12/17 21:10	07/17/17 16:11	EPA 3050B	1,6010C	PS
Barium, Total	209		mg/kg	0.900	0.156	2	07/12/17 21:10	07/17/17 16:11	EPA 3050B	1,6010C	PS
Beryllium, Total	1.54		mg/kg	0.450	0.030	2	07/12/17 21:10	07/17/17 16:11	EPA 3050B	1,6010C	PS
Cadmium, Total	0.324	J	mg/kg	0.900	0.088	2	07/12/17 21:10	07/17/17 16:11	EPA 3050B	1,6010C	PS
Chromium, Total	7.00		mg/kg	0.900	0.086	2	07/12/17 21:10	07/17/17 16:11	EPA 3050B	1,6010C	PS
Copper, Total	29.2		mg/kg	0.900	0.232	2	07/12/17 21:10	07/17/17 16:11	EPA 3050B	1,6010C	PS
Lead, Total	33.2		mg/kg	4.50	0.241	2	07/12/17 21:10	07/17/17 16:11	EPA 3050B	1,6010C	PS
Manganese, Total	2180		mg/kg	0.900	0.143	2	07/12/17 21:10	07/17/17 16:11	EPA 3050B	1,6010C	PS
Mercury, Total	0.03	J	mg/kg	0.07	0.02	1	07/13/17 09:00	07/17/17 14:56	EPA 7471B	1,7471B	MG
Nickel, Total	6.32		mg/kg	2.25	0.218	2	07/12/17 21:10	07/17/17 16:11	EPA 3050B	1,6010C	PS
Selenium, Total	1.97		mg/kg	1.80	0.232	2	07/12/17 21:10	07/17/17 16:11	EPA 3050B	1,6010C	PS
Silver, Total	0.738	J	mg/kg	0.900	0.255	2	07/12/17 21:10	07/17/17 16:11	EPA 3050B	1,6010C	PS
Zinc, Total	33.2		mg/kg	4.50	0.264	2	07/12/17 21:10	07/17/17 16:11	EPA 3050B	1,6010C	PS

Project Name: PIERCE ARROW APARTMENTS
Lab Number: L1723613
Project Number: 56831.10
Report Date: 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-11
Client ID: SP-7-4-8-071117
Sample Location: BUFFALO, NY
Matrix: Soil
Percent Solids: 84%

Date Collected: 07/11/17 12:30
Date Received: 07/11/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	3.86		mg/kg	0.944	0.196	2	07/12/17 21:10	07/17/17 16:15	EPA 3050B	1,6010C	PS
Barium, Total	90.5		mg/kg	0.944	0.164	2	07/12/17 21:10	07/17/17 16:15	EPA 3050B	1,6010C	PS
Beryllium, Total	0.548		mg/kg	0.472	0.031	2	07/12/17 21:10	07/17/17 16:15	EPA 3050B	1,6010C	PS
Cadmium, Total	1.04		mg/kg	0.944	0.093	2	07/12/17 21:10	07/17/17 16:15	EPA 3050B	1,6010C	PS
Chromium, Total	19.5		mg/kg	0.944	0.091	2	07/12/17 21:10	07/17/17 16:15	EPA 3050B	1,6010C	PS
Copper, Total	24.1		mg/kg	0.944	0.244	2	07/12/17 21:10	07/17/17 16:15	EPA 3050B	1,6010C	PS
Lead, Total	9.86		mg/kg	4.72	0.253	2	07/12/17 21:10	07/17/17 16:15	EPA 3050B	1,6010C	PS
Manganese, Total	451		mg/kg	0.944	0.150	2	07/12/17 21:10	07/17/17 16:15	EPA 3050B	1,6010C	PS
Mercury, Total	ND		mg/kg	0.08	0.02	1	07/13/17 09:00	07/17/17 14:58	EPA 7471B	1,7471B	MG
Nickel, Total	25.4		mg/kg	2.36	0.228	2	07/12/17 21:10	07/17/17 16:15	EPA 3050B	1,6010C	PS
Selenium, Total	ND		mg/kg	1.89	0.244	2	07/12/17 21:10	07/17/17 16:15	EPA 3050B	1,6010C	PS
Silver, Total	ND		mg/kg	0.944	0.267	2	07/12/17 21:10	07/17/17 16:15	EPA 3050B	1,6010C	PS
Zinc, Total	65.6		mg/kg	4.72	0.277	2	07/12/17 21:10	07/17/17 16:15	EPA 3050B	1,6010C	PS

Project Name: PIERCE ARROW APARTMENTS
Lab Number: L1723613
Project Number: 56831.10
Report Date: 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-13
Client ID: SP-8-0-1-071117
Sample Location: BUFFALO, NY
Matrix: Soil
Percent Solids: 91%

Date Collected: 07/11/17 13:00
Date Received: 07/11/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	7.15		mg/kg	0.864	0.180	2	07/12/17 21:10	07/17/17 16:19	EPA 3050B	1,6010C	PS
Barium, Total	192		mg/kg	0.864	0.150	2	07/12/17 21:10	07/17/17 16:19	EPA 3050B	1,6010C	PS
Beryllium, Total	0.751		mg/kg	0.432	0.029	2	07/12/17 21:10	07/17/17 16:19	EPA 3050B	1,6010C	PS
Cadmium, Total	4.20		mg/kg	0.864	0.085	2	07/12/17 21:10	07/17/17 16:19	EPA 3050B	1,6010C	PS
Chromium, Total	1510		mg/kg	0.864	0.083	2	07/12/17 21:10	07/17/17 16:19	EPA 3050B	1,6010C	PS
Copper, Total	200		mg/kg	0.864	0.223	2	07/12/17 21:10	07/17/17 16:19	EPA 3050B	1,6010C	PS
Lead, Total	30.3		mg/kg	4.32	0.231	2	07/12/17 21:10	07/17/17 16:19	EPA 3050B	1,6010C	PS
Manganese, Total	38600		mg/kg	8.64	1.37	20	07/12/17 21:10	07/17/17 18:20	EPA 3050B	1,6010C	AB
Mercury, Total	ND		mg/kg	0.07	0.02	1	07/13/17 09:00	07/17/17 15:00	EPA 7471B	1,7471B	MG
Nickel, Total	72.0		mg/kg	2.16	0.209	2	07/12/17 21:10	07/17/17 16:19	EPA 3050B	1,6010C	PS
Selenium, Total	8.23		mg/kg	1.73	0.223	2	07/12/17 21:10	07/17/17 16:19	EPA 3050B	1,6010C	PS
Silver, Total	7.32		mg/kg	0.864	0.244	2	07/12/17 21:10	07/17/17 16:19	EPA 3050B	1,6010C	PS
Zinc, Total	70.2		mg/kg	4.32	0.253	2	07/12/17 21:10	07/17/17 16:19	EPA 3050B	1,6010C	PS

Project Name: PIERCE ARROW APARTMENTS
Lab Number: L1723613
Project Number: 56831.10
Report Date: 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-15
Client ID: SP-9-0-13-071117
Sample Location: BUFFALO, NY
Matrix: Soil
Percent Solids: 85%

Date Collected: 07/11/17 13:20
Date Received: 07/11/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	5.73		mg/kg	0.893	0.186	2	07/12/17 21:10	07/17/17 16:23	EPA 3050B	1,6010C	PS
Barium, Total	44.6		mg/kg	0.893	0.155	2	07/12/17 21:10	07/17/17 16:23	EPA 3050B	1,6010C	PS
Beryllium, Total	0.295	J	mg/kg	0.447	0.030	2	07/12/17 21:10	07/17/17 16:23	EPA 3050B	1,6010C	PS
Cadmium, Total	0.572	J	mg/kg	0.893	0.088	2	07/12/17 21:10	07/17/17 16:23	EPA 3050B	1,6010C	PS
Chromium, Total	7.78		mg/kg	0.893	0.086	2	07/12/17 21:10	07/17/17 16:23	EPA 3050B	1,6010C	PS
Copper, Total	50.0		mg/kg	0.893	0.230	2	07/12/17 21:10	07/17/17 16:23	EPA 3050B	1,6010C	PS
Lead, Total	47.6		mg/kg	4.47	0.239	2	07/12/17 21:10	07/17/17 16:23	EPA 3050B	1,6010C	PS
Manganese, Total	155		mg/kg	0.893	0.142	2	07/12/17 21:10	07/17/17 16:23	EPA 3050B	1,6010C	PS
Mercury, Total	0.04	J	mg/kg	0.07	0.02	1	07/13/17 09:00	07/17/17 15:02	EPA 7471B	1,7471B	MG
Nickel, Total	9.83		mg/kg	2.23	0.216	2	07/12/17 21:10	07/17/17 16:23	EPA 3050B	1,6010C	PS
Selenium, Total	0.777	J	mg/kg	1.79	0.230	2	07/12/17 21:10	07/17/17 16:23	EPA 3050B	1,6010C	PS
Silver, Total	ND		mg/kg	0.893	0.253	2	07/12/17 21:10	07/17/17 16:23	EPA 3050B	1,6010C	PS
Zinc, Total	54.2		mg/kg	4.47	0.262	2	07/12/17 21:10	07/17/17 16:23	EPA 3050B	1,6010C	PS

Project Name: PIERCE ARROW APARTMENTS
Lab Number: L1723613
Project Number: 56831.10
Report Date: 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-17
Client ID: SP-10-0-4.5-071117
Sample Location: BUFFALO, NY
Matrix: Soil
Percent Solids: 92%

Date Collected: 07/11/17 13:50
Date Received: 07/11/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	14.6		mg/kg	0.857	0.178	2	07/12/17 21:10	07/17/17 16:27	EPA 3050B	1,6010C	PS
Barium, Total	101		mg/kg	0.857	0.149	2	07/12/17 21:10	07/17/17 16:27	EPA 3050B	1,6010C	PS
Beryllium, Total	0.454		mg/kg	0.428	0.028	2	07/12/17 21:10	07/17/17 16:27	EPA 3050B	1,6010C	PS
Cadmium, Total	1.94		mg/kg	0.857	0.084	2	07/12/17 21:10	07/17/17 16:27	EPA 3050B	1,6010C	PS
Chromium, Total	20.5		mg/kg	0.857	0.082	2	07/12/17 21:10	07/17/17 16:27	EPA 3050B	1,6010C	PS
Copper, Total	494		mg/kg	0.857	0.221	2	07/12/17 21:10	07/17/17 16:27	EPA 3050B	1,6010C	PS
Lead, Total	210		mg/kg	4.28	0.230	2	07/12/17 21:10	07/17/17 16:27	EPA 3050B	1,6010C	PS
Manganese, Total	388		mg/kg	0.857	0.136	2	07/12/17 21:10	07/17/17 16:27	EPA 3050B	1,6010C	PS
Mercury, Total	0.55		mg/kg	0.07	0.01	1	07/13/17 09:00	07/17/17 15:04	EPA 7471B	1,7471B	MG
Nickel, Total	34.7		mg/kg	2.14	0.207	2	07/12/17 21:10	07/17/17 16:27	EPA 3050B	1,6010C	PS
Selenium, Total	0.737	J	mg/kg	1.71	0.221	2	07/12/17 21:10	07/17/17 16:27	EPA 3050B	1,6010C	PS
Silver, Total	0.600	J	mg/kg	0.857	0.242	2	07/12/17 21:10	07/17/17 16:27	EPA 3050B	1,6010C	PS
Zinc, Total	269		mg/kg	4.28	0.251	2	07/12/17 21:10	07/17/17 16:27	EPA 3050B	1,6010C	PS

Project Name: PIERCE ARROW APARTMENTS
Lab Number: L1723613
Project Number: 56831.10
Report Date: 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-19
Client ID: SP-11-0.5-4.5-071117
Sample Location: BUFFALO, NY
Matrix: Soil
Percent Solids: 85%

Date Collected: 07/11/17 14:20
Date Received: 07/11/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	52.7		mg/kg	0.890	0.185	2	07/12/17 21:10	07/17/17 17:04	EPA 3050B	1,6010C	AB
Barium, Total	76.7		mg/kg	0.890	0.155	2	07/12/17 21:10	07/17/17 17:04	EPA 3050B	1,6010C	AB
Beryllium, Total	0.427	J	mg/kg	0.445	0.029	2	07/12/17 21:10	07/17/17 17:04	EPA 3050B	1,6010C	AB
Cadmium, Total	1.97		mg/kg	0.890	0.087	2	07/12/17 21:10	07/17/17 17:04	EPA 3050B	1,6010C	AB
Chromium, Total	17.3		mg/kg	0.890	0.086	2	07/12/17 21:10	07/17/17 17:04	EPA 3050B	1,6010C	AB
Copper, Total	49.5		mg/kg	0.890	0.230	2	07/12/17 21:10	07/17/17 17:04	EPA 3050B	1,6010C	AB
Lead, Total	29.8		mg/kg	4.45	0.239	2	07/12/17 21:10	07/17/17 17:04	EPA 3050B	1,6010C	AB
Manganese, Total	87.3		mg/kg	0.890	0.142	2	07/12/17 21:10	07/17/17 17:04	EPA 3050B	1,6010C	AB
Mercury, Total	0.05	J	mg/kg	0.07	0.02	1	07/13/17 09:00	07/17/17 15:10	EPA 7471B	1,7471B	MG
Nickel, Total	8.96		mg/kg	2.23	0.215	2	07/12/17 21:10	07/17/17 17:04	EPA 3050B	1,6010C	AB
Selenium, Total	1.88		mg/kg	1.78	0.230	2	07/12/17 21:10	07/17/17 17:04	EPA 3050B	1,6010C	AB
Silver, Total	0.267	J	mg/kg	0.890	0.252	2	07/12/17 21:10	07/17/17 17:04	EPA 3050B	1,6010C	AB
Zinc, Total	41.6		mg/kg	4.45	0.261	2	07/12/17 21:10	07/17/17 17:04	EPA 3050B	1,6010C	AB

Project Name: PIERCE ARROW APARTMENTS
Lab Number: L1723613
Project Number: 56831.10
Report Date: 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-21
Client ID: SP-12-0-3-071117
Sample Location: BUFFALO, NY
Matrix: Soil
Percent Solids: 77%

Date Collected: 07/11/17 14:45
Date Received: 07/11/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	14.3		mg/kg	1.03	0.214	2	07/12/17 21:10	07/17/17 17:08	EPA 3050B	1,6010C	AB
Barium, Total	101		mg/kg	1.03	0.179	2	07/12/17 21:10	07/17/17 17:08	EPA 3050B	1,6010C	AB
Beryllium, Total	0.596		mg/kg	0.514	0.034	2	07/12/17 21:10	07/17/17 17:08	EPA 3050B	1,6010C	AB
Cadmium, Total	1.52		mg/kg	1.03	0.101	2	07/12/17 21:10	07/17/17 17:08	EPA 3050B	1,6010C	AB
Chromium, Total	45.8		mg/kg	1.03	0.099	2	07/12/17 21:10	07/17/17 17:08	EPA 3050B	1,6010C	AB
Copper, Total	268		mg/kg	1.03	0.265	2	07/12/17 21:10	07/17/17 17:08	EPA 3050B	1,6010C	AB
Lead, Total	200		mg/kg	5.14	0.275	2	07/12/17 21:10	07/17/17 17:08	EPA 3050B	1,6010C	AB
Manganese, Total	452		mg/kg	1.03	0.163	2	07/12/17 21:10	07/17/17 17:08	EPA 3050B	1,6010C	AB
Mercury, Total	0.16		mg/kg	0.08	0.02	1	07/13/17 09:00	07/17/17 15:11	EPA 7471B	1,7471B	MG
Nickel, Total	21.6		mg/kg	2.57	0.248	2	07/12/17 21:10	07/17/17 17:08	EPA 3050B	1,6010C	AB
Selenium, Total	1.05	J	mg/kg	2.05	0.265	2	07/12/17 21:10	07/17/17 17:08	EPA 3050B	1,6010C	AB
Silver, Total	0.339	J	mg/kg	1.03	0.291	2	07/12/17 21:10	07/17/17 17:08	EPA 3050B	1,6010C	AB
Zinc, Total	234		mg/kg	5.14	0.301	2	07/12/17 21:10	07/17/17 17:08	EPA 3050B	1,6010C	AB

Project Name: PIERCE ARROW APARTMENTS **Lab Number:** L1723613

Project Number: 56831.10 **Report Date:** 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-23 Date Collected: 07/11/17 15:15

Client ID: SP-13-0-4.5-071117 Date Received: 07/11/17

Sample Location: BUFFALO, NY Field Prep: Not Specified

Matrix: Soil

Percent Solids: 77%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	11.0		mg/kg	1.01	0.210	2	07/12/17 21:10	07/17/17 17:12	EPA 3050B	1,6010C	AB
Barium, Total	67.3		mg/kg	1.01	0.175	2	07/12/17 21:10	07/17/17 17:12	EPA 3050B	1,6010C	AB
Beryllium, Total	0.494	J	mg/kg	0.504	0.033	2	07/12/17 21:10	07/17/17 17:12	EPA 3050B	1,6010C	AB
Cadmium, Total	1.03		mg/kg	1.01	0.099	2	07/12/17 21:10	07/17/17 17:12	EPA 3050B	1,6010C	AB
Chromium, Total	66.6		mg/kg	1.01	0.097	2	07/12/17 21:10	07/17/17 17:12	EPA 3050B	1,6010C	AB
Copper, Total	202		mg/kg	1.01	0.260	2	07/12/17 21:10	07/17/17 17:12	EPA 3050B	1,6010C	AB
Lead, Total	69.7		mg/kg	5.04	0.270	2	07/12/17 21:10	07/17/17 17:12	EPA 3050B	1,6010C	AB
Manganese, Total	756		mg/kg	1.01	0.160	2	07/12/17 21:10	07/17/17 17:12	EPA 3050B	1,6010C	AB
Mercury, Total	0.04	J	mg/kg	0.08	0.02	1	07/13/17 09:00	07/17/17 15:13	EPA 7471B	1,7471B	MG
Nickel, Total	22.1		mg/kg	2.52	0.244	2	07/12/17 21:10	07/17/17 17:12	EPA 3050B	1,6010C	AB
Selenium, Total	1.76	J	mg/kg	2.02	0.260	2	07/12/17 21:10	07/17/17 17:12	EPA 3050B	1,6010C	AB
Silver, Total	0.494	J	mg/kg	1.01	0.285	2	07/12/17 21:10	07/17/17 17:12	EPA 3050B	1,6010C	AB
Zinc, Total	85.9		mg/kg	5.04	0.295	2	07/12/17 21:10	07/17/17 17:12	EPA 3050B	1,6010C	AB

Project Name: PIERCE ARROW APARTMENTS
Lab Number: L1723613
Project Number: 56831.10
Report Date: 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-24
Client ID: SUBSURFACE DUPLICATE -071117
Sample Location: BUFFALO, NY
Matrix: Soil
Percent Solids: 83%

Date Collected: 07/11/17 00:00
Date Received: 07/11/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	2.51		mg/kg	0.952	0.198	2	07/12/17 21:10	07/17/17 17:16	EPA 3050B	1,6010C	AB
Barium, Total	136		mg/kg	0.952	0.166	2	07/12/17 21:10	07/17/17 17:16	EPA 3050B	1,6010C	AB
Beryllium, Total	0.476		mg/kg	0.476	0.031	2	07/12/17 21:10	07/17/17 17:16	EPA 3050B	1,6010C	AB
Cadmium, Total	0.905	J	mg/kg	0.952	0.093	2	07/12/17 21:10	07/17/17 17:16	EPA 3050B	1,6010C	AB
Chromium, Total	18.0		mg/kg	0.952	0.091	2	07/12/17 21:10	07/17/17 17:16	EPA 3050B	1,6010C	AB
Copper, Total	20.6		mg/kg	0.952	0.246	2	07/12/17 21:10	07/17/17 17:16	EPA 3050B	1,6010C	AB
Lead, Total	9.72		mg/kg	4.76	0.255	2	07/12/17 21:10	07/17/17 17:16	EPA 3050B	1,6010C	AB
Manganese, Total	431		mg/kg	0.952	0.151	2	07/12/17 21:10	07/17/17 17:16	EPA 3050B	1,6010C	AB
Mercury, Total	ND		mg/kg	0.08	0.02	1	07/13/17 09:00	07/17/17 15:15	EPA 7471B	1,7471B	MG
Nickel, Total	23.1		mg/kg	2.38	0.230	2	07/12/17 21:10	07/17/17 17:16	EPA 3050B	1,6010C	AB
Selenium, Total	ND		mg/kg	1.90	0.246	2	07/12/17 21:10	07/17/17 17:16	EPA 3050B	1,6010C	AB
Silver, Total	ND		mg/kg	0.952	0.270	2	07/12/17 21:10	07/17/17 17:16	EPA 3050B	1,6010C	AB
Zinc, Total	60.6		mg/kg	4.76	0.279	2	07/12/17 21:10	07/17/17 17:16	EPA 3050B	1,6010C	AB

Project Name: PIERCE ARROW APARTMENTS
Project Number: 56831.10
Lab Number: L1723613
Report Date: 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-27
Client ID: SS-1-071117
Sample Location: BUFFALO, NY
Matrix: Soil
Percent Solids: 84%

Date Collected: 07/11/17 15:50
Date Received: 07/11/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	5.38		mg/kg	0.947	0.197	2	07/12/17 21:10	07/17/17 16:31	EPA 3050B	1,6010C	PS
Barium, Total	110		mg/kg	0.947	0.165	2	07/12/17 21:10	07/17/17 16:31	EPA 3050B	1,6010C	PS
Beryllium, Total	0.474		mg/kg	0.474	0.031	2	07/12/17 21:10	07/17/17 16:31	EPA 3050B	1,6010C	PS
Cadmium, Total	1.26		mg/kg	0.947	0.093	2	07/12/17 21:10	07/17/17 16:31	EPA 3050B	1,6010C	PS
Chromium, Total	26.6		mg/kg	0.947	0.091	2	07/12/17 21:10	07/17/17 16:31	EPA 3050B	1,6010C	PS
Copper, Total	45.0		mg/kg	0.947	0.244	2	07/12/17 21:10	07/17/17 16:31	EPA 3050B	1,6010C	PS
Lead, Total	57.0		mg/kg	4.74	0.254	2	07/12/17 21:10	07/17/17 16:31	EPA 3050B	1,6010C	PS
Manganese, Total	677		mg/kg	0.947	0.151	2	07/12/17 21:10	07/17/17 16:31	EPA 3050B	1,6010C	PS
Mercury, Total	0.05	J	mg/kg	0.08	0.02	1	07/13/17 09:00	07/17/17 14:40	EPA 7471B	1,7471B	MG
Nickel, Total	23.2		mg/kg	2.37	0.229	2	07/12/17 21:10	07/17/17 16:31	EPA 3050B	1,6010C	PS
Selenium, Total	ND		mg/kg	1.89	0.244	2	07/12/17 21:10	07/17/17 16:31	EPA 3050B	1,6010C	PS
Silver, Total	0.398	J	mg/kg	0.947	0.268	2	07/12/17 21:10	07/17/17 16:31	EPA 3050B	1,6010C	PS
Zinc, Total	135		mg/kg	4.74	0.278	2	07/12/17 21:10	07/17/17 16:31	EPA 3050B	1,6010C	PS

Project Name: PIERCE ARROW APARTMENTS
Lab Number: L1723613
Project Number: 56831.10
Report Date: 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-28
Client ID: SS-2-071117
Sample Location: BUFFALO, NY
Matrix: Soil
Percent Solids: 84%

Date Collected: 07/11/17 15:55
Date Received: 07/11/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	5.71		mg/kg	0.911	0.190	2	07/12/17 21:10	07/17/17 17:20	EPA 3050B	1,6010C	AB
Barium, Total	102		mg/kg	0.911	0.158	2	07/12/17 21:10	07/17/17 17:20	EPA 3050B	1,6010C	AB
Beryllium, Total	0.492		mg/kg	0.456	0.030	2	07/12/17 21:10	07/17/17 17:20	EPA 3050B	1,6010C	AB
Cadmium, Total	1.18		mg/kg	0.911	0.089	2	07/12/17 21:10	07/17/17 17:20	EPA 3050B	1,6010C	AB
Chromium, Total	277		mg/kg	0.911	0.088	2	07/12/17 21:10	07/17/17 17:20	EPA 3050B	1,6010C	AB
Copper, Total	48.6		mg/kg	0.911	0.235	2	07/12/17 21:10	07/17/17 17:20	EPA 3050B	1,6010C	AB
Lead, Total	51.1		mg/kg	4.56	0.244	2	07/12/17 21:10	07/17/17 17:20	EPA 3050B	1,6010C	AB
Manganese, Total	642		mg/kg	0.911	0.145	2	07/12/17 21:10	07/17/17 17:20	EPA 3050B	1,6010C	AB
Mercury, Total	0.05	J	mg/kg	0.07	0.02	1	07/13/17 09:00	07/17/17 15:17	EPA 7471B	1,7471B	MG
Nickel, Total	482		mg/kg	2.28	0.220	2	07/12/17 21:10	07/17/17 17:20	EPA 3050B	1,6010C	AB
Selenium, Total	0.647	J	mg/kg	1.82	0.235	2	07/12/17 21:10	07/17/17 17:20	EPA 3050B	1,6010C	AB
Silver, Total	0.355	J	mg/kg	0.911	0.258	2	07/12/17 21:10	07/17/17 17:20	EPA 3050B	1,6010C	AB
Zinc, Total	96.6		mg/kg	4.56	0.267	2	07/12/17 21:10	07/17/17 17:20	EPA 3050B	1,6010C	AB

Project Name: PIERCE ARROW APARTMENTS
Lab Number: L1723613
Project Number: 56831.10
Report Date: 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-29
Client ID: SS-3-071117
Sample Location: BUFFALO, NY
Matrix: Soil
Percent Solids: 91%

Date Collected: 07/11/17 16:00
Date Received: 07/11/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	3.61		mg/kg	0.828	0.172	2	07/12/17 21:10	07/17/17 17:24	EPA 3050B	1,6010C	AB
Barium, Total	68.2		mg/kg	0.828	0.144	2	07/12/17 21:10	07/17/17 17:24	EPA 3050B	1,6010C	AB
Beryllium, Total	0.563		mg/kg	0.414	0.027	2	07/12/17 21:10	07/17/17 17:24	EPA 3050B	1,6010C	AB
Cadmium, Total	0.811	J	mg/kg	0.828	0.081	2	07/12/17 21:10	07/17/17 17:24	EPA 3050B	1,6010C	AB
Chromium, Total	12.5		mg/kg	0.828	0.079	2	07/12/17 21:10	07/17/17 17:24	EPA 3050B	1,6010C	AB
Copper, Total	33.9		mg/kg	0.828	0.214	2	07/12/17 21:10	07/17/17 17:24	EPA 3050B	1,6010C	AB
Lead, Total	32.4		mg/kg	4.14	0.222	2	07/12/17 21:10	07/17/17 17:24	EPA 3050B	1,6010C	AB
Manganese, Total	414		mg/kg	0.828	0.132	2	07/12/17 21:10	07/17/17 17:24	EPA 3050B	1,6010C	AB
Mercury, Total	0.03	J	mg/kg	0.07	0.01	1	07/13/17 09:00	07/17/17 15:19	EPA 7471B	1,7471B	MG
Nickel, Total	11.5		mg/kg	2.07	0.200	2	07/12/17 21:10	07/17/17 17:24	EPA 3050B	1,6010C	AB
Selenium, Total	0.364	J	mg/kg	1.66	0.214	2	07/12/17 21:10	07/17/17 17:24	EPA 3050B	1,6010C	AB
Silver, Total	0.256	J	mg/kg	0.828	0.234	2	07/12/17 21:10	07/17/17 17:24	EPA 3050B	1,6010C	AB
Zinc, Total	95.8		mg/kg	4.14	0.242	2	07/12/17 21:10	07/17/17 17:24	EPA 3050B	1,6010C	AB

Project Name: PIERCE ARROW APARTMENTS
Project Number: 56831.10
Lab Number: L1723613
Report Date: 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-30
Client ID: SS-4-071117
Sample Location: BUFFALO, NY
Matrix: Soil
Percent Solids: 97%

Date Collected: 07/11/17 16:10
Date Received: 07/11/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	3.30		mg/kg	0.801	0.167	2	07/12/17 21:10	07/17/17 17:28	EPA 3050B	1,6010C	AB
Barium, Total	49.4		mg/kg	0.801	0.139	2	07/12/17 21:10	07/17/17 17:28	EPA 3050B	1,6010C	AB
Beryllium, Total	0.232	J	mg/kg	0.401	0.026	2	07/12/17 21:10	07/17/17 17:28	EPA 3050B	1,6010C	AB
Cadmium, Total	0.625	J	mg/kg	0.801	0.079	2	07/12/17 21:10	07/17/17 17:28	EPA 3050B	1,6010C	AB
Chromium, Total	11.5		mg/kg	0.801	0.077	2	07/12/17 21:10	07/17/17 17:28	EPA 3050B	1,6010C	AB
Copper, Total	18.8		mg/kg	0.801	0.207	2	07/12/17 21:10	07/17/17 17:28	EPA 3050B	1,6010C	AB
Lead, Total	12.3		mg/kg	4.01	0.215	2	07/12/17 21:10	07/17/17 17:28	EPA 3050B	1,6010C	AB
Manganese, Total	305		mg/kg	0.801	0.127	2	07/12/17 21:10	07/17/17 17:28	EPA 3050B	1,6010C	AB
Mercury, Total	0.03	J	mg/kg	0.06	0.01	1	07/13/17 09:00	07/17/17 15:21	EPA 7471B	1,7471B	MG
Nickel, Total	13.0		mg/kg	2.00	0.194	2	07/12/17 21:10	07/17/17 17:28	EPA 3050B	1,6010C	AB
Selenium, Total	ND		mg/kg	1.60	0.207	2	07/12/17 21:10	07/17/17 17:28	EPA 3050B	1,6010C	AB
Silver, Total	ND		mg/kg	0.801	0.227	2	07/12/17 21:10	07/17/17 17:28	EPA 3050B	1,6010C	AB
Zinc, Total	59.8		mg/kg	4.01	0.235	2	07/12/17 21:10	07/17/17 17:28	EPA 3050B	1,6010C	AB

Project Name: PIERCE ARROW APARTMENTS
Lab Number: L1723613
Project Number: 56831.10
Report Date: 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-31
Client ID: SURFACE SOIL DUPLICATE
Sample Location: BUFFALO, NY
Matrix: Soil
Percent Solids: 93%

Date Collected: 07/11/17 00:00
Date Received: 07/11/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	3.43		mg/kg	0.838	0.174	2	07/12/17 21:10	07/17/17 17:56	EPA 3050B	1,6010C	AB
Barium, Total	69.6		mg/kg	0.838	0.146	2	07/12/17 21:10	07/17/17 17:56	EPA 3050B	1,6010C	AB
Beryllium, Total	0.335	J	mg/kg	0.419	0.028	2	07/12/17 21:10	07/17/17 17:56	EPA 3050B	1,6010C	AB
Cadmium, Total	0.771	J	mg/kg	0.838	0.082	2	07/12/17 21:10	07/17/17 17:56	EPA 3050B	1,6010C	AB
Chromium, Total	12.6		mg/kg	0.838	0.081	2	07/12/17 21:10	07/17/17 17:56	EPA 3050B	1,6010C	AB
Copper, Total	29.4		mg/kg	0.838	0.216	2	07/12/17 21:10	07/17/17 17:56	EPA 3050B	1,6010C	AB
Lead, Total	29.1		mg/kg	4.19	0.225	2	07/12/17 21:10	07/17/17 17:56	EPA 3050B	1,6010C	AB
Manganese, Total	499		mg/kg	0.838	0.133	2	07/12/17 21:10	07/17/17 17:56	EPA 3050B	1,6010C	AB
Mercury, Total	0.03	J	mg/kg	0.07	0.01	1	07/13/17 09:00	07/17/17 15:23	EPA 7471B	1,7471B	MG
Nickel, Total	11.4		mg/kg	2.10	0.203	2	07/12/17 21:10	07/17/17 17:56	EPA 3050B	1,6010C	AB
Selenium, Total	0.914	J	mg/kg	1.68	0.216	2	07/12/17 21:10	07/17/17 17:56	EPA 3050B	1,6010C	AB
Silver, Total	ND		mg/kg	0.838	0.237	2	07/12/17 21:10	07/17/17 17:56	EPA 3050B	1,6010C	AB
Zinc, Total	93.6		mg/kg	4.19	0.246	2	07/12/17 21:10	07/17/17 17:56	EPA 3050B	1,6010C	AB

Project Name: PIERCE ARROW APARTMENTS **Lab Number:** L1723613

Project Number: 56831.10 **Report Date:** 07/19/17

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 02-03,05,07,09,11,13,15,17,19,21,23-24,27-31 Batch: WG1021962-1										
Arsenic, Total	0.164	J	mg/kg	0.400	0.083	1	07/12/17 21:10	07/17/17 15:23	1,6010C	PS
Barium, Total	ND		mg/kg	0.400	0.070	1	07/12/17 21:10	07/17/17 15:23	1,6010C	PS
Beryllium, Total	ND		mg/kg	0.200	0.013	1	07/12/17 21:10	07/17/17 15:23	1,6010C	PS
Cadmium, Total	ND		mg/kg	0.400	0.039	1	07/12/17 21:10	07/17/17 15:23	1,6010C	PS
Chromium, Total	ND		mg/kg	0.400	0.038	1	07/12/17 21:10	07/17/17 15:23	1,6010C	PS
Copper, Total	ND		mg/kg	0.400	0.103	1	07/12/17 21:10	07/17/17 15:23	1,6010C	PS
Lead, Total	ND		mg/kg	2.00	0.107	1	07/12/17 21:10	07/17/17 15:23	1,6010C	PS
Manganese, Total	ND		mg/kg	0.400	0.064	1	07/12/17 21:10	07/17/17 15:23	1,6010C	PS
Nickel, Total	ND		mg/kg	1.00	0.097	1	07/12/17 21:10	07/17/17 15:23	1,6010C	PS
Selenium, Total	ND		mg/kg	0.800	0.103	1	07/12/17 21:10	07/17/17 15:23	1,6010C	PS
Silver, Total	ND		mg/kg	0.400	0.113	1	07/12/17 21:10	07/17/17 15:23	1,6010C	PS
Zinc, Total	ND		mg/kg	2.00	0.117	1	07/12/17 21:10	07/17/17 15:23	1,6010C	PS

Prep Information

Digestion Method: EPA 3050B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 02-03,05,07,09,11,13,15,17,19,21,23-24,27-31 Batch: WG1022069-1										
Mercury, Total	ND		mg/kg	0.08	0.02	1	07/13/17 09:00	07/17/17 14:28	1,7471B	MG

Prep Information

Digestion Method: EPA 7471B

Lab Control Sample Analysis

Batch Quality Control

Project Name: PIERCE ARROW APARTMENTS

Project Number: 56831.10

Lab Number: L1723613

Report Date: 07/19/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 02-03,05,07,09,11,13,15,17,19,21,23-24,27-31 Batch: WG1021962-2 SRM Lot Number: D093-540								
Arsenic, Total	110		-		70-130	-		
Barium, Total	104		-		83-117	-		
Beryllium, Total	100		-		83-117	-		
Cadmium, Total	97		-		83-117	-		
Chromium, Total	100		-		80-120	-		
Copper, Total	101		-		82-118	-		
Lead, Total	96		-		82-117	-		
Manganese, Total	104		-		81-119	-		
Nickel, Total	95		-		83-117	-		
Selenium, Total	103		-		78-122	-		
Silver, Total	108		-		76-124	-		
Zinc, Total	96		-		83-117	-		
Total Metals - Mansfield Lab Associated sample(s): 02-03,05,07,09,11,13,15,17,19,21,23-24,27-31 Batch: WG1022069-2 SRM Lot Number: D093-540								
Mercury, Total	81		-		72-128	-		

Matrix Spike Analysis
Batch Quality Control

Project Name: PIERCE ARROW APARTMENTS
Project Number: 56831.10

Lab Number: L1723613
Report Date: 07/19/17

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 02-03,05,07,09,11,13,15,17,19,21,23-24,27-31 QC Batch ID: WG1021962-3 WG1021962-4 QC Sample: L1723613-05 Client ID: SP-3-1-8-071117												
Arsenic, Total	5.41	11.4	16.4	96		17.0	101		75-125	4		20
Barium, Total	66.9	191	235	88		233	87		75-125	1		20
Beryllium, Total	0.416J	4.77	4.44	93		4.46	93		75-125	0		20
Cadmium, Total	0.734J	4.87	4.94	101		4.96	102		75-125	0		20
Chromium, Total	13.2	19.1	29.6	86		29.0	82		75-125	2		20
Copper, Total	14.2	23.9	36.4	93		34.3	84		75-125	6		20
Lead, Total	17.5	48.7	56.9	81		61.1	89		75-125	7		20
Manganese, Total	218.	47.7	266	100		200	**0**	Q	75-125	**28**	Q	20
Nickel, Total	13.3	47.7	53.6	84		52.4	82		75-125	2		20
Selenium, Total	ND	11.4	9.88	86		10.5	91		75-125	6		20
Silver, Total	ND	28.6	24.6	86		24.8	86		75-125	1		20
Zinc, Total	49.3	47.7	95.4	96		91.0	87		75-125	5		20

Matrix Spike Analysis
Batch Quality Control

Project Name: PIERCE ARROW APARTMENTS
Project Number: 56831.10
Lab Number: L1723613
Report Date: 07/19/17

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery		Recovery Limits	RPD		RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 02-03,05,07,09,11,13,15,17,19,21,23-24,27-31 QC Batch ID: WG1021962-7 WG1021962-8 QC Sample: L1723613-27 Client ID: SS-1-071117												
Arsenic, Total	5.38	11.2	15.1	87		15.0	85		75-125	1		20
Barium, Total	110.	187	275	88		255	77		75-125	8		20
Beryllium, Total	0.474	4.67	4.06	87		3.99	85		75-125	2		20
Cadmium, Total	1.26	4.77	5.08	80		4.74	**73**	Q	75-125	7		20
Chromium, Total	26.6	18.7	93.2	**356**	Q	41.1	77		75-125	**78**	Q	20
Copper, Total	45.0	23.4	68.1	99		63.3	78		75-125	7		20
Lead, Total	57.0	47.7	99.7	90		85.5	**60**	Q	75-125	15		20
Manganese, Total	677.	46.7	1690	**2170**	Q	731	115		75-125	**79**	Q	20
Nickel, Total	23.2	46.7	56.4	**71**	Q	57.3	**73**	Q	75-125	2		20
Selenium, Total	ND	11.2	10.2	91		9.14	81		75-125	11		20
Silver, Total	0.398J	28	24.3	87		22.8	81		75-125	6		20
Zinc, Total	135.	46.7	204	**148**	Q	160	**53**	Q	75-125	**24**	Q	20
Total Metals - Mansfield Lab Associated sample(s): 02-03,05,07,09,11,13,15,17,19,21,23-24,27-31 QC Batch ID: WG1022069-3 WG1022069-4 QC Sample: L1723613-05 Client ID: SP-3-1-8-071117												
Mercury, Total	0.04J	0.162	0.20	**123**	Q	0.20	**128**	Q	80-120	0		20
Total Metals - Mansfield Lab Associated sample(s): 02-03,05,07,09,11,13,15,17,19,21,23-24,27-31 QC Batch ID: WG1022069-5 WG1022069-6 QC Sample: L1723613-27 Client ID: SS-1-071117												
Mercury, Total	0.05J	0.15	0.19	**127**	Q	0.19	**126**	Q	80-120	0		20

INORGANICS
&
MISCELLANEOUS

Project Name: PIERCE ARROW APARTMENTS
Project Number: 56831.10
Lab Number: L1723613
Report Date: 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-01
Client ID: SP-1-8"-071117
Sample Location: BUFFALO, NY
Matrix: Soil

Date Collected: 07/11/17 09:40
Date Received: 07/11/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	80.7		%	0.100	NA	1	-	07/12/17 17:40	121,2540G	RI

Project Name: PIERCE ARROW APARTMENTS
Project Number: 56831.10
Lab Number: L1723613
Report Date: 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-02
Client ID: SP-1-0.5-8-071117
Sample Location: BUFFALO, NY
Matrix: Soil
Date Collected: 07/11/17 09:40
Date Received: 07/11/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	81.8		%	0.100	NA	1	-	07/12/17 17:40	121,2540G	RI
Cyanide, Total	0.93	J	mg/kg	1.2	0.20	1	07/13/17 12:50	07/13/17 15:59	1,9010C/9012B	LK

Project Name: PIERCE ARROW APARTMENTS
Project Number: 56831.10
Lab Number: L1723613
Report Date: 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-03
Client ID: SP-2-3.5-071117
Sample Location: BUFFALO, NY
Matrix: Soil
Date Collected: 07/11/17 10:10
Date Received: 07/11/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	76.4		%	0.100	NA	1	-	07/12/17 17:40	121,2540G	RI
Cyanide, Total	0.36	J	mg/kg	1.2	0.20	1	07/13/17 12:50	07/13/17 16:00	1,9010C/9012B	LK

Project Name: PIERCE ARROW APARTMENTS
Project Number: 56831.10
Lab Number: L1723613
Report Date: 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-04
Client ID: SP-3-2-071117
Sample Location: BUFFALO, NY
Matrix: Soil

Date Collected: 07/11/17 10:30
Date Received: 07/11/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	82.4		%	0.100	NA	1	-	07/12/17 17:40	121,2540G	RI

Project Name: PIERCE ARROW APARTMENTS
Project Number: 56831.10
Lab Number: L1723613
Report Date: 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-05
Client ID: SP-3-1-8-071117
Sample Location: BUFFALO, NY
Matrix: Soil
Date Collected: 07/11/17 10:30
Date Received: 07/11/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	80.5		%	0.100	NA	1	-	07/12/17 17:40	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.2	0.20	1	07/13/17 12:50	07/13/17 16:02	1,9010C/9012B	LK

Project Name: PIERCE ARROW APARTMENTS
Project Number: 56831.10
Lab Number: L1723613
Report Date: 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-06
Client ID: SP-5-1-071117
Sample Location: BUFFALO, NY
Matrix: Soil

Date Collected: 07/11/17 11:15
Date Received: 07/11/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	80.8		%	0.100	NA	1	-	07/12/17 17:40	121,2540G	RI

Project Name: PIERCE ARROW APARTMENTS
Project Number: 56831.10
Lab Number: L1723613
Report Date: 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-07
Client ID: SP-5-1-8-071117
Sample Location: BUFFALO, NY
Matrix: Soil
Date Collected: 07/11/17 11:15
Date Received: 07/11/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	78.3		%	0.100	NA	1	-	07/13/17 11:22	121,2540G	RI
Cyanide, Total	ND		mg/kg	2.4	0.40	2	07/13/17 12:50	07/13/17 16:23	1,9010C/9012B	LK

Project Name: PIERCE ARROW APARTMENTS
Project Number: 56831.10
Lab Number: L1723613
Report Date: 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-08
Client ID: SP-6-0.5-071117
Sample Location: BUFFALO, NY
Matrix: Soil

Date Collected: 07/11/17 11:40
Date Received: 07/11/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	81.2		%	0.100	NA	1	-	07/12/17 17:40	121,2540G	RI

Project Name: PIERCE ARROW APARTMENTS
Project Number: 56831.10
Lab Number: L1723613
Report Date: 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-09
Client ID: SP-6-0-1-071117
Sample Location: BUFFALO, NY
Matrix: Soil
Date Collected: 07/11/17 11:40
Date Received: 07/11/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	86.5		%	0.100	NA	1	-	07/12/17 17:40	121,2540G	RI
Cyanide, Total	0.91	J	mg/kg	1.1	0.18	1	07/13/17 12:50	07/13/17 16:05	1,9010C/9012B	LK

Project Name: PIERCE ARROW APARTMENTS
Project Number: 56831.10
Lab Number: L1723613
Report Date: 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-10
Client ID: SP-7-4-071117
Sample Location: BUFFALO, NY
Matrix: Soil

Date Collected: 07/11/17 12:30
Date Received: 07/11/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	79.9		%	0.100	NA	1	-	07/12/17 17:40	121,2540G	RI

Project Name: PIERCE ARROW APARTMENTS
Project Number: 56831.10
Lab Number: L1723613
Report Date: 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-11
Client ID: SP-7-4-8-071117
Sample Location: BUFFALO, NY
Matrix: Soil
Date Collected: 07/11/17 12:30
Date Received: 07/11/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	83.6		%	0.100	NA	1	-	07/13/17 11:22	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.1	0.19	1	07/13/17 12:50	07/13/17 16:06	1,9010C/9012B	LK

Project Name: PIERCE ARROW APARTMENTS
Project Number: 56831.10
Lab Number: L1723613
Report Date: 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-12
Client ID: SP-8-0.5-071117
Sample Location: BUFFALO, NY
Matrix: Soil

Date Collected: 07/11/17 13:00
Date Received: 07/11/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	95.8		%	0.100	NA	1	-	07/13/17 11:22	121,2540G	RI

Project Name: PIERCE ARROW APARTMENTS
Project Number: 56831.10
Lab Number: L1723613
Report Date: 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-13
Client ID: SP-8-0-1-071117
Sample Location: BUFFALO, NY
Matrix: Soil

Date Collected: 07/11/17 13:00
Date Received: 07/11/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	90.8		%	0.100	NA	1	-	07/13/17 11:22	121,2540G	RI
Cyanide, Total	8.4		mg/kg	1.0	0.17	1	07/13/17 12:50	07/13/17 16:07	1,9010C/9012B	LK

Project Name: PIERCE ARROW APARTMENTS
Project Number: 56831.10
Lab Number: L1723613
Report Date: 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-14
Client ID: SP-9-2-071117
Sample Location: BUFFALO, NY
Matrix: Soil
Date Collected: 07/11/17 13:20
Date Received: 07/11/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	85.5		%	0.100	NA	1	-	07/13/17 11:22	121,2540G	RI

Project Name: PIERCE ARROW APARTMENTS
Project Number: 56831.10
Lab Number: L1723613
Report Date: 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-15
Client ID: SP-9-0-13-071117
Sample Location: BUFFALO, NY
Matrix: Soil
Date Collected: 07/11/17 13:20
Date Received: 07/11/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	85.0		%	0.100	NA	1	-	07/13/17 11:22	121,2540G	RI
Cyanide, Total	0.53	J	mg/kg	2.2	0.37	2	07/13/17 12:50	07/13/17 16:21	1,9010C/9012B	LK

Project Name: PIERCE ARROW APARTMENTS
Project Number: 56831.10
Lab Number: L1723613
Report Date: 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-16
Client ID: SP-10-4-071117
Sample Location: BUFFALO, NY
Matrix: Soil

Date Collected: 07/11/17 13:50
Date Received: 07/11/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	76.0		%	0.100	NA	1	-	07/13/17 11:22	121,2540G	RI

Project Name: PIERCE ARROW APARTMENTS
Project Number: 56831.10
Lab Number: L1723613
Report Date: 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-17
Client ID: SP-10-0-4.5-071117
Sample Location: BUFFALO, NY
Matrix: Soil
Date Collected: 07/11/17 13:50
Date Received: 07/11/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	91.7		%	0.100	NA	1	-	07/13/17 11:22	121,2540G	RI
Cyanide, Total	0.68	J	mg/kg	2.0	0.33	2	07/13/17 12:50	07/13/17 16:22	1,9010C/9012B	LK

Project Name: PIERCE ARROW APARTMENTS
Project Number: 56831.10
Lab Number: L1723613
Report Date: 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-18
Client ID: SP-11-3-071117
Sample Location: BUFFALO, NY
Matrix: Soil

Date Collected: 07/11/17 14:20
Date Received: 07/11/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	92.4		%	0.100	NA	1	-	07/13/17 11:22	121,2540G	RI

Project Name: PIERCE ARROW APARTMENTS
Project Number: 56831.10
Lab Number: L1723613
Report Date: 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-19
Client ID: SP-11-0.5-4.5-071117
Sample Location: BUFFALO, NY
Matrix: Soil

Date Collected: 07/11/17 14:20
Date Received: 07/11/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	85.4		%	0.100	NA	1	-	07/13/17 11:22	121,2540G	RI
Cyanide, Total	ND		mg/kg	2.2	0.36	2	07/13/17 12:50	07/13/17 16:23	1,9010C/9012B	LK

Project Name: PIERCE ARROW APARTMENTS
Project Number: 56831.10
Lab Number: L1723613
Report Date: 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-20
Client ID: SP-12-1.5-071117
Sample Location: BUFFALO, NY
Matrix: Soil
Date Collected: 07/11/17 14:45
Date Received: 07/11/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	79.0		%	0.100	NA	1	-	07/13/17 11:22	121,2540G	RI

Project Name: PIERCE ARROW APARTMENTS
Project Number: 56831.10
Lab Number: L1723613
Report Date: 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-21
Client ID: SP-12-0-3-071117
Sample Location: BUFFALO, NY
Matrix: Soil
Date Collected: 07/11/17 14:45
Date Received: 07/11/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	77.4		%	0.100	NA	1	-	07/13/17 11:22	121,2540G	RI
Cyanide, Total	1.6		mg/kg	1.2	0.20	1	07/14/17 10:40	07/14/17 13:41	1,9010C/9012B	LK

Project Name: PIERCE ARROW APARTMENTS
Project Number: 56831.10
Lab Number: L1723613
Report Date: 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-22
Client ID: SP-13-4.5-071117
Sample Location: BUFFALO, NY
Matrix: Soil

Date Collected: 07/11/17 15:15
Date Received: 07/11/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	72.8		%	0.100	NA	1	-	07/13/17 11:22	121,2540G	RI

Project Name: PIERCE ARROW APARTMENTS
Project Number: 56831.10
Lab Number: L1723613
Report Date: 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-23
Client ID: SP-13-0-4.5-071117
Sample Location: BUFFALO, NY
Matrix: Soil
Date Collected: 07/11/17 15:15
Date Received: 07/11/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	77.3		%	0.100	NA	1	-	07/13/17 11:22	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.2	0.20	1	07/14/17 10:40	07/14/17 13:42	1,9010C/9012B	LK

Project Name: PIERCE ARROW APARTMENTS
Project Number: 56831.10
Lab Number: L1723613
Report Date: 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-24
Client ID: SUBSURFACE DUPLICATE -071117
Sample Location: BUFFALO, NY
Matrix: Soil
Date Collected: 07/11/17 00:00
Date Received: 07/11/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	82.6		%	0.100	NA	1	-	07/13/17 11:22	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.2	0.20	1	07/14/17 10:40	07/14/17 13:44	1,9010C/9012B	LK

Project Name: PIERCE ARROW APARTMENTS
Project Number: 56831.10
Lab Number: L1723613
Report Date: 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-27
Client ID: SS-1-071117
Sample Location: BUFFALO, NY
Matrix: Soil
Date Collected: 07/11/17 15:50
Date Received: 07/11/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	83.7		%	0.100	NA	1	-	07/13/17 10:52	121,2540G	RI
Cyanide, Total	0.80	J	mg/kg	1.1	0.18	1	07/14/17 10:40	07/14/17 13:45	1,9010C/9012B	LK

Project Name: PIERCE ARROW APARTMENTS
Project Number: 56831.10
Lab Number: L1723613
Report Date: 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-28
Client ID: SS-2-071117
Sample Location: BUFFALO, NY
Matrix: Soil
Date Collected: 07/11/17 15:55
Date Received: 07/11/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	84.3		%	0.100	NA	1	-	07/13/17 10:52	121,2540G	RI
Cyanide, Total	0.35	J	mg/kg	1.1	0.18	1	07/14/17 10:40	07/14/17 13:48	1,9010C/9012B	LK

Project Name: PIERCE ARROW APARTMENTS
Project Number: 56831.10
Lab Number: L1723613
Report Date: 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-29
Client ID: SS-3-071117
Sample Location: BUFFALO, NY
Matrix: Soil
Date Collected: 07/11/17 16:00
Date Received: 07/11/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	91.4		%	0.100	NA	1	-	07/13/17 10:52	121,2540G	RI
Cyanide, Total	0.18	J	mg/kg	1.0	0.17	1	07/14/17 10:40	07/14/17 13:48	1,9010C/9012B	LK

Project Name: PIERCE ARROW APARTMENTS
Project Number: 56831.10
Lab Number: L1723613
Report Date: 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-30
Client ID: SS-4-071117
Sample Location: BUFFALO, NY
Matrix: Soil
Date Collected: 07/11/17 16:10
Date Received: 07/11/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	97.4		%	0.100	NA	1	-	07/13/17 10:52	121,2540G	RI
Cyanide, Total	0.27	J	mg/kg	1.0	0.16	1	07/14/17 10:40	07/14/17 13:49	1,9010C/9012B	LK

Project Name: PIERCE ARROW APARTMENTS
Project Number: 56831.10
Lab Number: L1723613
Report Date: 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-31
Client ID: SURFACE SOIL DUPLICATE
Sample Location: BUFFALO, NY
Matrix: Soil
Date Collected: 07/11/17 00:00
Date Received: 07/11/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	92.6		%	0.100	NA	1	-	07/13/17 10:52	121,2540G	RI
Cyanide, Total	0.24	J	mg/kg	1.0	0.17	1	07/14/17 10:40	07/14/17 13:50	1,9010C/9012B	LK

Project Name: PIERCE ARROW APARTMENTS **Lab Number:** L1723613

Project Number: 56831.10 **Report Date:** 07/19/17

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 02-03 Batch: WG1022226-1										
Cyanide, Total	ND		mg/kg	0.86	0.14	1	07/13/17 12:50	07/13/17 15:24	1,9010C/9012B	LK
General Chemistry - Westborough Lab for sample(s): 05,07,09,11,13,15,17,19 Batch: WG1022230-1										
Cyanide, Total	ND		mg/kg	0.86	0.14	1	07/13/17 12:50	07/13/17 15:23	1,9010C/9012B	LK
General Chemistry - Westborough Lab for sample(s): 21,23-24,27-31 Batch: WG1022567-1										
Cyanide, Total	ND		mg/kg	0.94	0.16	1	07/14/17 10:40	07/14/17 13:27	1,9010C/9012B	LK

Lab Control Sample Analysis

Batch Quality Control

Project Name: PIERCE ARROW APARTMENTS

Project Number: 56831.10

Lab Number: L1723613

Report Date: 07/19/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 02-03 Batch: WG1022226-2 WG1022226-3								
Cyanide, Total	**136**	Q	95		80-120	29		35
General Chemistry - Westborough Lab Associated sample(s): 05,07,09,11,13,15,17,19 Batch: WG1022230-2 WG1022230-3								
Cyanide, Total	**136**	Q	96		80-120	27		35
General Chemistry - Westborough Lab Associated sample(s): 21,23-24,27-31 Batch: WG1022567-2 WG1022567-3								
Cyanide, Total	118		**124**	Q	80-120	4		35

Matrix Spike Analysis
Batch Quality Control

Project Name: PIERCE ARROW APARTMENTS
Project Number: 56831.10

Lab Number: L1723613
Report Date: 07/19/17

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 02-03 QC Batch ID: WG1022226-4 WG1022226-5 QC Sample: L1723404-01 Client ID: MS Sample												
Cyanide, Total	0.78J	11	11	89		12	96		75-125	9		35
General Chemistry - Westborough Lab Associated sample(s): 05,07,09,11,13,15,17,19 QC Batch ID: WG1022230-4 WG1022230-5 QC Sample: L1723613-05 Client ID: SP-3-1-8-071117												
Cyanide, Total	ND	12	11	89		12	99		75-125	9		35
General Chemistry - Westborough Lab Associated sample(s): 21,23-24,27-31 QC Batch ID: WG1022567-4 WG1022567-5 QC Sample: L1723613-27 Client ID: SS-1-071117												
Cyanide, Total	0.80J	12	13	100		11	94		75-125	17		35

Lab Duplicate Analysis
Batch Quality Control

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Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-06,08-10 QC Batch ID: WG1021937-1 QC Sample: L1723613-05 Client ID: SP-3-1-8-071117						
Solids, Total	80.5	82.5	%	2		20
General Chemistry - Westborough Lab Associated sample(s): 07,11-24 QC Batch ID: WG1022198-1 QC Sample: L1723613-07 Client ID: SP-5-1-8-071117						
Solids, Total	78.3	77.7	%	1		20
General Chemistry - Westborough Lab Associated sample(s): 27-31 QC Batch ID: WG1022212-1 QC Sample: L1723613-27 Client ID: SS-1-071117						
Solids, Total	83.7	84.3	%	1		20

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Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent
B	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1723613-01A	Vial MeOH preserved	B	NA		4.2	Y	Absent		NYTCL-8260HLW(14)
L1723613-01B	Vial water preserved	B	NA		4.2	Y	Absent	12-JUL-17 07:54	NYTCL-8260HLW(14)
L1723613-01C	Vial water preserved	B	NA		4.2	Y	Absent	12-JUL-17 07:54	NYTCL-8260HLW(14)
L1723613-01D	Plastic 2oz unpreserved for TS	B	NA		4.2	Y	Absent		TS(7)
L1723613-02A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.7	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),CU-TI(180),PB-TI(180),SE-TI(180),ZN-TI(180),HG-T(28),MN-TI(180),CD-TI(180)
L1723613-02B	Glass 120ml/4oz unpreserved	A	NA		4.7	Y	Absent		NYTCL-8270(14),TS(7)
L1723613-03A	Vial MeOH preserved	B	NA		4.2	Y	Absent		NYTCL-8260HLW(14)
L1723613-03B	Vial water preserved	B	NA		4.2	Y	Absent	12-JUL-17 07:54	NYTCL-8260HLW(14)
L1723613-03C	Vial water preserved	B	NA		4.2	Y	Absent	12-JUL-17 07:54	NYTCL-8260HLW(14)
L1723613-03D	Plastic 2oz unpreserved for TS	B	NA		4.2	Y	Absent		TS(7)
L1723613-03E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.7	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),CU-TI(180),PB-TI(180),SE-TI(180),ZN-TI(180),HG-T(28),MN-TI(180),CD-TI(180)
L1723613-03F	Glass 60mL/2oz unpreserved	A	NA		4.7	Y	Absent		NYTCL-8270(14),NYTCL-8082(14)
L1723613-03G	Glass 120ml/4oz unpreserved	A	NA		4.7	Y	Absent		NYTCL-8270(14),NYTCL-8082(14)
L1723613-04A	Vial MeOH preserved	B	NA		4.2	Y	Absent		NYTCL-8260HLW(14)
L1723613-04A1	Vial MeOH preserved	B	NA		4.2	Y	Absent		NYTCL-8260HLW(14)
L1723613-04A2	Vial MeOH preserved	B	NA		4.2	Y	Absent		NYTCL-8260HLW(14)
L1723613-04B	Vial water preserved	B	NA		4.2	Y	Absent	12-JUL-17 07:54	NYTCL-8260HLW(14)
L1723613-04B1	Vial water preserved	B	NA		4.2	Y	Absent	12-JUL-17 07:54	NYTCL-8260HLW(14)
L1723613-04B2	Vial water preserved	B	NA		4.2	Y	Absent	12-JUL-17 07:54	NYTCL-8260HLW(14)

*Values in parentheses indicate holding time in days

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Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1723613-04C	Vial water preserved	B	NA		4.2	Y	Absent	12-JUL-17 07:54	NYTCL-8260HLW(14)
L1723613-04C1	Vial water preserved	B	NA		4.2	Y	Absent	12-JUL-17 07:54	NYTCL-8260HLW(14)
L1723613-04C2	Vial water preserved	B	NA		4.2	Y	Absent	12-JUL-17 07:54	NYTCL-8260HLW(14)
L1723613-04D	Plastic 2oz unpreserved for TS	B	NA		4.2	Y	Absent		TS(7)
L1723613-04D1	Plastic 2oz unpreserved for TS	B	NA		4.2	Y	Absent		TS(7)
L1723613-04D2	Plastic 2oz unpreserved for TS	B	NA		4.2	Y	Absent		TS(7)
L1723613-05A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.7	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),CU-TI(180),PB-TI(180),SE-TI(180),ZN-TI(180),HG-T(28),MN-TI(180),CD-TI(180)
L1723613-05A1	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.7	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),CU-TI(180),PB-TI(180),SE-TI(180),ZN-TI(180),HG-T(28),MN-TI(180),CD-TI(180)
L1723613-05A2	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.7	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),CU-TI(180),PB-TI(180),SE-TI(180),ZN-TI(180),HG-T(28),MN-TI(180),CD-TI(180)
L1723613-05B	Glass 120ml/4oz unpreserved	A	NA		4.7	Y	Absent		NYTCL-8270(14),TS(7)
L1723613-05B1	Glass 120ml/4oz unpreserved	A	NA		4.7	Y	Absent		NYTCL-8270(14),TS(7)
L1723613-05B2	Glass 120ml/4oz unpreserved	A	NA		4.7	Y	Absent		NYTCL-8270(14),TS(7)
L1723613-06A	Vial MeOH preserved	A	NA		4.7	Y	Absent		NYTCL-8260HLW(14)
L1723613-06B	Vial water preserved	B	NA		4.2	Y	Absent	12-JUL-17 07:54	NYTCL-8260HLW(14)
L1723613-06C	Vial water preserved	B	NA		4.2	Y	Absent	12-JUL-17 07:54	NYTCL-8260HLW(14)
L1723613-06D	Plastic 2oz unpreserved for TS	B	NA		4.2	Y	Absent		TS(7)
L1723613-07A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.7	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),CU-TI(180),PB-TI(180),SE-TI(180),ZN-TI(180),HG-T(28),MN-TI(180),CD-TI(180)
L1723613-07B	Glass 120ml/4oz unpreserved	A	NA		4.7	Y	Absent		NYTCL-8270(14),TS(7)
L1723613-08A	Vial MeOH preserved	A	NA		4.7	Y	Absent		NYTCL-8260HLW(14)
L1723613-08B	Vial water preserved	A	NA		4.7	Y	Absent	12-JUL-17 07:54	NYTCL-8260HLW(14)
L1723613-08C	Vial water preserved	A	NA		4.7	Y	Absent	12-JUL-17 07:54	NYTCL-8260HLW(14)
L1723613-08D	Plastic 2oz unpreserved for TS	A	NA		4.7	Y	Absent		TS(7)
L1723613-09A	Glass 60mL/2oz unpreserved	A	NA		4.7	Y	Absent		TS(7)

*Values in parentheses indicate holding time in days

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1723613-09B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.7	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),CU-TI(180),PB-TI(180),SE-TI(180),ZN-TI(180),HG-T(28),MN-TI(180),CD-TI(180)
L1723613-09C	Glass 120ml/4oz unpreserved	A	NA		4.7	Y	Absent		NYTCL-8270(14),NYTCL-8082(14)
L1723613-10A	Vial MeOH preserved	A	NA		4.7	Y	Absent		NYTCL-8260HLW(14)
L1723613-10B	Vial water preserved	A	NA		4.7	Y	Absent	12-JUL-17 07:54	NYTCL-8260HLW(14)
L1723613-10C	Vial water preserved	A	NA		4.7	Y	Absent	12-JUL-17 07:54	NYTCL-8260HLW(14)
L1723613-10D	Plastic 2oz unpreserved for TS	A	NA		4.7	Y	Absent		TS(7)
L1723613-11A	Glass 60mL/2oz unpreserved	A	NA		4.7	Y	Absent		TS(7)
L1723613-11B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.7	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),CU-TI(180),PB-TI(180),SE-TI(180),ZN-TI(180),HG-T(28),MN-TI(180),CD-TI(180)
L1723613-11C	Glass 120ml/4oz unpreserved	A	NA		4.7	Y	Absent		NYTCL-8270(14),NYTCL-8082(14)
L1723613-12A	Vial MeOH preserved	A	NA		4.7	Y	Absent		NYTCL-8260HLW(14)
L1723613-12B	Vial water preserved	A	NA		4.7	Y	Absent	12-JUL-17 07:54	NYTCL-8260HLW(14)
L1723613-12C	Vial water preserved	A	NA		4.7	Y	Absent	12-JUL-17 07:54	NYTCL-8260HLW(14)
L1723613-12D	Plastic 2oz unpreserved for TS	A	NA		4.7	Y	Absent		TS(7)
L1723613-13A	Glass 60mL/2oz unpreserved	A	NA		4.7	Y	Absent		TS(7)
L1723613-13B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.7	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),CU-TI(180),PB-TI(180),SE-TI(180),ZN-TI(180),HG-T(28),MN-TI(180),CD-TI(180)
L1723613-13C	Glass 120ml/4oz unpreserved	A	NA		4.7	Y	Absent		NYTCL-8270(14),NYTCL-8082(14)
L1723613-14A	Vial MeOH preserved	A	NA		4.7	Y	Absent		NYTCL-8260HLW(14)
L1723613-14B	Vial water preserved	A	NA		4.7	Y	Absent	12-JUL-17 07:54	NYTCL-8260HLW(14)
L1723613-14C	Vial water preserved	A	NA		4.7	Y	Absent	12-JUL-17 07:54	NYTCL-8260HLW(14)
L1723613-14D	Plastic 2oz unpreserved for TS	A	NA		4.7	Y	Absent		TS(7)
L1723613-15A	Glass 60mL/2oz unpreserved	A	NA		4.7	Y	Absent		TS(7)
L1723613-15B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.7	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),CU-TI(180),PB-TI(180),SE-TI(180),ZN-TI(180),HG-T(28),MN-TI(180),CD-TI(180)
L1723613-15C	Glass 120ml/4oz unpreserved	A	NA		4.7	Y	Absent		NYTCL-8270(14),NYTCL-8082(14)

*Values in parentheses indicate holding time in days

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Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1723613-16A	Vial MeOH preserved	A	NA		4.7	Y	Absent		NYTCL-8260HLW(14)
L1723613-16B	Vial water preserved	A	NA		4.7	Y	Absent	12-JUL-17 07:54	NYTCL-8260HLW(14)
L1723613-16C	Vial water preserved	A	NA		4.7	Y	Absent	12-JUL-17 07:54	NYTCL-8260HLW(14)
L1723613-16D	Plastic 2oz unpreserved for TS	A	NA		4.7	Y	Absent		TS(7)
L1723613-17A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.7	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),CU-TI(180),PB-TI(180),SE-TI(180),ZN-TI(180),HG-T(28),MN-TI(180),CD-TI(180)
L1723613-17B	Glass 120ml/4oz unpreserved	A	NA		4.7	Y	Absent		NYTCL-8270(14),TS(7)
L1723613-18A	Vial MeOH preserved	B	NA		4.2	Y	Absent		NYTCL-8260HLW(14)
L1723613-18B	Vial water preserved	B	NA		4.2	Y	Absent	12-JUL-17 07:54	NYTCL-8260HLW(14)
L1723613-18C	Vial water preserved	B	NA		4.2	Y	Absent	12-JUL-17 07:54	NYTCL-8260HLW(14)
L1723613-18D	Plastic 2oz unpreserved for TS	B	NA		4.2	Y	Absent		TS(7)
L1723613-19A	Glass 60mL/2oz unpreserved	A	NA		4.7	Y	Absent		TS(7)
L1723613-19B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.7	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),CU-TI(180),PB-TI(180),SE-TI(180),ZN-TI(180),HG-T(28),MN-TI(180),CD-TI(180)
L1723613-19C	Glass 120ml/4oz unpreserved	A	NA		4.7	Y	Absent		NYTCL-8270(14),NYTCL-8082(14)
L1723613-20A	Vial MeOH preserved	A	NA		4.7	Y	Absent		NYTCL-8260HLW(14)
L1723613-20B	Vial water preserved	A	NA		4.7	Y	Absent	12-JUL-17 07:54	NYTCL-8260HLW(14)
L1723613-20C	Vial water preserved	A	NA		4.7	Y	Absent	12-JUL-17 07:54	NYTCL-8260HLW(14)
L1723613-20D	Plastic 2oz unpreserved for TS	A	NA		4.7	Y	Absent		TS(7)
L1723613-21A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.7	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),CU-TI(180),PB-TI(180),SE-TI(180),ZN-TI(180),HG-T(28),MN-TI(180),CD-TI(180)
L1723613-21B	Glass 120ml/4oz unpreserved	A	NA		4.7	Y	Absent		NYTCL-8270(14),TS(7)
L1723613-22A	Vial MeOH preserved	B	NA		4.2	Y	Absent		NYTCL-8260HLW(14)
L1723613-22B	Vial water preserved	B	NA		4.2	Y	Absent	12-JUL-17 07:54	NYTCL-8260HLW(14)
L1723613-22C	Vial water preserved	B	NA		4.2	Y	Absent	12-JUL-17 07:54	NYTCL-8260HLW(14)
L1723613-22D	Plastic 2oz unpreserved for TS	B	NA		4.2	Y	Absent		TS(7)

*Values in parentheses indicate holding time in days

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Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1723613-23A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.7	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),CU-TI(180),PB-TI(180),SE-TI(180),ZN-TI(180),HG-T(28),MN-TI(180),CD-TI(180)
L1723613-23B	Glass 120ml/4oz unpreserved	A	NA		4.7	Y	Absent		NYTCL-8270(14),TS(7)
L1723613-24A	Vial MeOH preserved	A	NA		4.7	Y	Absent		NYTCL-8260HLW(14)
L1723613-24B	Vial water preserved	A	NA		4.7	Y	Absent	12-JUL-17 07:54	NYTCL-8260HLW(14)
L1723613-24C	Vial water preserved	A	NA		4.7	Y	Absent	12-JUL-17 07:54	NYTCL-8260HLW(14)
L1723613-24D	Plastic 2oz unpreserved for TS	A	NA		4.7	Y	Absent		TS(7)
L1723613-24E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.7	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),CU-TI(180),PB-TI(180),SE-TI(180),ZN-TI(180),HG-T(28),MN-TI(180),CD-TI(180)
L1723613-24F	Glass 120ml/4oz unpreserved	A	NA		4.7	Y	Absent		-
L1723613-25A	Vial HCl preserved	A	NA		4.7	Y	Absent		NYTCL-8260(14)
L1723613-25B	Vial HCl preserved	A	NA		4.7	Y	Absent		NYTCL-8260(14)
L1723613-25C	Vial HCl preserved	A	NA		4.7	Y	Absent		NYTCL-8260(14)
L1723613-25D	Amber 1000ml unpreserved	B	7	7	4.2	Y	Absent		NYTCL-8270(7),NYTCL-8270-SIM(7)
L1723613-26A	Vial HCl preserved	B	NA		4.2	Y	Absent		NYTCL-8260(14)
L1723613-26B	Vial HCl preserved	B	NA		4.2	Y	Absent		NYTCL-8260(14)
L1723613-26C	Vial HCl preserved	B	NA		4.2	Y	Absent		NYTCL-8260(14)
L1723613-26D	Amber 1000ml unpreserved	B	8	8	4.2	Y	Absent		NYTCL-8270(7),NYTCL-8270-SIM(7)
L1723613-27A	Metals Only-Glass 60mL/2oz unpreserved	B	NA		4.2	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),CU-TI(180),PB-TI(180),SE-TI(180),ZN-TI(180),HG-T(28),MN-TI(180),CD-TI(180)
L1723613-27A1	Metals Only-Glass 60mL/2oz unpreserved	B	NA		4.2	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),CU-TI(180),PB-TI(180),SE-TI(180),ZN-TI(180),HG-T(28),MN-TI(180),CD-TI(180)
L1723613-27A2	Metals Only-Glass 60mL/2oz unpreserved	B	NA		4.2	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),CU-TI(180),PB-TI(180),SE-TI(180),ZN-TI(180),HG-T(28),MN-TI(180),CD-TI(180)
L1723613-27B	Glass 120ml/4oz unpreserved	B	NA		4.2	Y	Absent		NYTCL-8270(14),TS(7)
L1723613-27B1	Glass 120ml/4oz unpreserved	B	NA		4.2	Y	Absent		NYTCL-8270(14),TS(7)

*Values in parentheses indicate holding time in days

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Lab Number: L1723613
Report Date: 07/19/17

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1723613-27B2	Glass 120ml/4oz unpreserved	B	NA		4.2	Y	Absent		NYTCL-8270(14),TS(7)
L1723613-28A	Metals Only-Glass 60mL/2oz unpreserved	B	NA		4.2	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),CU-TI(180),PB-TI(180),SE-TI(180),ZN-TI(180),HG-T(28),MN-TI(180),CD-TI(180)
L1723613-28B	Glass 120ml/4oz unpreserved	B	NA		4.2	Y	Absent		NYTCL-8270(14),TS(7)
L1723613-29A	Metals Only-Glass 60mL/2oz unpreserved	B	NA		4.2	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),CU-TI(180),PB-TI(180),SE-TI(180),ZN-TI(180),HG-T(28),MN-TI(180),CD-TI(180)
L1723613-29B	Glass 120ml/4oz unpreserved	B	NA		4.2	Y	Absent		NYTCL-8270(14),TS(7)
L1723613-30A	Metals Only-Glass 60mL/2oz unpreserved	B	NA		4.2	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),CU-TI(180),PB-TI(180),SE-TI(180),ZN-TI(180),HG-T(28),MN-TI(180),CD-TI(180)
L1723613-30B	Glass 120ml/4oz unpreserved	B	NA		4.2	Y	Absent		NYTCL-8270(14),TS(7)
L1723613-31A	Metals Only-Glass 60mL/2oz unpreserved	B	NA		4.2	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),CU-TI(180),PB-TI(180),SE-TI(180),ZN-TI(180),HG-T(28),MN-TI(180),CD-TI(180)
L1723613-31B	Glass 120ml/4oz unpreserved	B	NA		4.2	Y	Absent		NYTCL-8270(14),TS(7)

*Values in parentheses indicate holding time in days

Project Name:	PIERCE ARROW APARTMENTS	**Lab Number:**	L1723613
Project Number:	56831.10	**Report Date:**	07/19/17

GLOSSARY

Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

1	- The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A	- Spectra identified as "Aldol Condensation Product".
B	- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related

Report Format: DU Report with 'J' Qualifiers

Project Name:	PIERCE ARROW APARTMENTS	**Lab Number:**	L1723613
Project Number:	56831.10	**Report Date:**	07/19/17

Data Qualifiers

projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers

Project Name:	PIERCE ARROW APARTMENTS	**Lab Number:**	L1723613
Project Number:	56831.10	**Report Date:**	07/19/17

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624: m/p-xylene, o-xylene
EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
EPA 300: DW: Bromide
EPA 6860: NPW and SCM: Perchlorate
EPA 9010: NPW and SCM: Amenable Cyanide Distillation
EPA 9012B: NPW: Total Cyanide
EPA 9050A: NPW: Specific Conductance
SM3500: NPW: Ferrous Iron
SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO2, NO3.
SM5310C: DW: Dissolved Organic Carbon

Mansfield Facility
SM 2540D: TSS
EPA 3005A NPW
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **SM4500NO3-F, EPA 353.2**: Nitrate-N**, EPA 351.1, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D.**
EPA 624: Volatile Halocarbons & Aromatics,
EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E.**

Mansfield Facility:

Drinking Water
EPA 200.7: Ba, Be, Cd, Cr, Cu, Ni, Na, Ca. **EPA 200.8:** Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Ni, Se, TL. **EPA 245.1** Hg.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-9288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page: 1 of 3

Date Rec'd in Lab: 7/12/17

ALPHA Job #: L1723613

Client Information

Client: GZA
Address: 535 Washington St. Buffalo, NY
Phone: 716 6852300
Fax:
Email: james.richert@gza.com

Project Information

Project Name: Pierce Arrow Apartments
Project Location: Buffalo, NY
Project #: 56831.10
(Use Project name as Project #): ☐
Project Manager: James Richert
ALPHAQuote #:

Turn-Around Time

Standard: ☒ Due Date:
Rush (only if pre approved): ☐ # of Days:

Deliverables

☐ ASP-A ☒ ASP-B
☒ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Billing Information

☒ Same as Client Info
PO #

Regulatory Requirement

☐ NY TOGS ☒ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☒ NY Restricted Use ☐ Other
☒ NY Unrestricted Use
☐ NYC Sewer Discharge

Disposal Site Information

Please identify below location of applicable disposal facilities.
Disposal Facility:
☐ NJ ☐ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	VOC 8260 TCL & CP-51	SVOC 8270	Metals Part 375	PCBs	Total Bottle	Sample Specific Comments
23613-01	SP-1-8"-071117	7/11/17	940	Soil	JB	X					
-02	SP-1-0.5-8-071117		940				X	X			
-03	SP-2-3.5-071117		1010			X	X	X	X		
-04	SP-3-2-071117		1030			X					MS/MSD
-05	SP-3-1-8-071117		1030				X	X			MS/MSD
-06	SP-5-1-071117		1115			X					
-07	SP-5-1-8-071117		1115				X	X			
-08	SP-6-0.5-071117		1140			X					
-09	SP-6-0-1-071117		1140				X	X	X		
-10	SP-7-4-071117		1230			X					

Container Type
Preservative

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
Thomas Bolan	7/11/17 1745	Fed Ex for AAC	7/11/17 1745
Fed Ex for AAC	7/11/17 1745	Jamielle Matt	7/12/17 0105

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-25 HC (rev. 30-Sept-2013)

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 2 of 3

Date Rec'd in Lab: 7/12/17

ALPHA Job #: L1723613

Project Information

Project Name: Pierce Arrow Apartments
Project Location: Buffalo, NY
Project #: 56831.10
(Use Project name as Project #) ☐
Project Manager: James Richert
ALPHAQuote #:

Client Information

Client: GZA
Address: 535 Washington St, Buffalo, NY
Phone: 716-685-2300
Fax:
Email: james.richert@gza.com

Turn-Around Time

Standard ☒ Due Date:
Rush (only if pre approved) ☐ # of Days:

Deliverables

☐ ASP-A ☒ ASP-B
☒ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Billing Information

☒ Same as Client Info
PO #

Regulatory Requirement

☐ NY TOGS ☒ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☒ NY Restricted Use ☐ Other
☒ NY Unrestricted Use
☐ NYC Sewer Discharge

Disposal Site Information

Please identify below location of applicable disposal facilities.
Disposal Facility: ☐ NJ ☐ NY ☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please specify Metals or TAL.

Sample Filtration: ☐ Done ☐ Lab to do
Preservation: ☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	VOC 8260 TCL + CP-51	SVOC 8270	Metals Part 375	PCBs					Sample Specific Comments	Total Bottles
23613-11	SP-7-4-8-071117	7/11/17	1230	Soil	TB		X	X	X						
-12	SP-8-0.5-071117	7/11/17	1300	↓	↓	X									
-13	SP-8-0-1-071117	↓	1300	↓	↓		X	X	X						
-14	SP-9-2-071117	↓	1320	↓	↓	X									
-15	SP-9-0-13-071117	↓	1320	↓	↓		X	X	X						
-16	SP-10-4-071117	↓	1350	↓	↓	X									
-17	SP-10-0-4.5-071117	↓	1350	↓	↓		X	X							
-18	SP-11-3-071117	↓	1420	↓	↓	X									
-19	SP-11-0.5-4.5-071117	↓	1420	↓	↓		X	X	X						
-20	SP-12-1.5-071117	↓	1445	↓	↓	X									

Container Type:
Preservative:

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code:
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
Thomas Bohlen	7/11/17 1745	Eric Snyder AAL	7/11/17 1745
Eric Snyder AAL	7/11/17 1745	Kamelle Matt	7/12/17 01:05

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-25 HC (rev. 30-Sept-2013)

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581 — 8 Walkup Dr. — TEL: 508-898-9220 — FAX: 508-898-9193

Mansfield, MA 02048 — 320 Forbes Blvd — TEL: 508-822-9300 — FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 3 of 3

Date Rec'd in Lab: 7/12/17

ALPHA Job #: L1723613

Client Information
Client: GZA
Address: 535 Washington Buffalo, NY
Phone: 716-685-2300
Fax:
Email: james.richert@gza.com

Project Information
Project Name: Pierce Arrow Apartments
Project Location: Buffalo, NY
Project #: 56 831.10
(Use Project name as Project #)
Project Manager: James Richert
ALPHAQuote #:

Turn-Around Time
Standard: X
Rush (only if pre approved): ☐
Due Date:
# of Days:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please specify Metals or TAL.

Deliverables
☐ ASP-A
X ASP-B
X EQuIS (1 File)
☐ EQuIS (4 File)
☐ Other

Billing Information
X Same as Client Info
PO #

Regulatory Requirement
☐ NY TOGS
X NY Part 375
☐ AWQ Standards
☐ NY CP-51
X NY Restricted Use
☐ Other
X NY Unrestricted Use
☐ NYC Sewer Discharge

Disposal Site Information
Please identify below location of applicable disposal facilities.
Disposal Facility:
☐ NJ ☐ NY
☐ Other:

ANALYSIS

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	8260 VOC-TCL	TCL SVOC 8270	Metals Part 375	PCBs	Total Bottle	Sample Specific Comments
23613-21	SP-W-0-3-071117	7/11/17	1445	Soil	TS		X	X			
-22	SP-13-4.5-071117		1515			X					
-23	SP-13-0-4.5-071117		1515				X	X			
-24	Subsurface Duplicate-071117		-	Soil		X	X	X			
-25	SP-9-GW-071117		1530	GW		X	X				
-26	SP-13-GW-071117		1545	GW		X	X				
-27	SS-1-071117		1550 ~~1700~~	Soil			X	X			MS/MSD
-28	SS-2-071117		1555				X	X			
-29	SS-3-071117		1600				X	X			
-30 -31	~~SS-4-071117~~ Surface Soil Duplicate		~~1610~~				X	X			

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

Container Type
Preservative

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code:
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
Thomas Bolden	7/11/17 1745	Eric Snyder AHC	7/11/17 1745
Eric Snyder AHC	7/11/17 1745	Danielle Watt	7/12/17 01:05

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-25 HC (rev. 30-Sept-2013)

GZA GeoEnvironmental, Inc.

APPENDIX B

NYSDEC PFAS SAMPLING REFERENCE DOCUMENTS

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Remediation, Region 9
270 Michigan Avenue, Buffalo, NY 14203-2915
P: (716) 851-7220 | F: (716) 851-7226
www.dec.ny.gov

March 26, 2018

Great Arrow Estates, LLC
Mr. Nick Sinatra
617 Main Street
Buffalo, New York 14203

RE: Request for sampling of Emerging Contaminants
Site Name: 157 Great Arrow, Buffalo, Erie County
Site ID: C915326

Dear Mr. Sinatra:

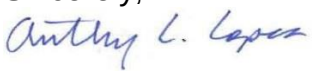
The New York State Department of Environmental Conservation (DEC) is undertaking a Statewide evaluation of remediation sites to better understand the risk posed to New Yorkers by 1,4-dioxane and per- and polyfluoroalkyl substances (PFAS). PFAS have historically not been evaluated at remediation sites, and 1,4-dioxane has not been evaluated at the levels that are now thought to represent a health concern. This initiative is being undertaken as a result of these “emerging contaminants” having been found in a number of drinking water supplies in New York. The DEC is requesting that you test the water for these chemicals utilizing a select number of existing monitoring wells that represent the groundwater quality of the above-referenced site. DEC recommends that at least one of these wells should be up gradient of the site.

The attached guidance provides information on the analytical methods and reporting requirements. A second guidance document describes special precautions that need to be considered when sampling for PFAS.

Please prepare a draft letter work plan that identifies the wells proposed for sampling, brief description of the sampling methods, and anticipated sampling date within 60 business days. If you wish to discuss the scope of the requested water testing, please contact me within 10 business days. If you have any questions please feel free to contact me, at 716-851-7220.

Mr. Nick Sinatra
March 26, 2018

Sincerely,



Anthony Lopes, P.E.
Project Manager

Ec: C. Staniszewski
J. Richert
C. Slater

Groundwater Sampling for Emerging Contaminants

February 2018

Issue: NYSDEC has committed to analyzing representative groundwater samples at remediation sites for emerging contaminants (1,4-dioxane and PFAS) as described in the below guidance.

Implementation

NYSDEC project managers will be contacting site owners to schedule sampling for these chemicals. Only groundwater sampling is required. The number of samples required will be similar to the number of samples where "full TAL/TCL sampling" would typically be required in a remedial investigation. If sampling is not feasible (e.g., the site no longer has any monitoring wells in place), sampling may be waived on a site-specific basis after first considering potential sources of these chemicals and whether there are water supplies nearby.

Upon a new site being brought into any program (i.e., SSF, BCP), PFAS and 1,4-dioxane will be incorporated into the investigation of groundwater as part of the standard "full TAL/TCL" sampling. Until an SCO is established for PFAS, soil samples do not need to be analyzed for PFAS unless groundwater contamination is detected. Separate guidance will be developed to address sites where emerging contaminants are found in the groundwater. The analysis currently performed for SVOCs in soil is adequate for evaluation of 1,4-dioxane, which already has an established SCO.

Analysis and Reporting

Labs should provide a full category B deliverable, and a DUSR should be prepared by a data validator.

The work plan should explicitly describe analysis and reporting requirements.

PFAS sample analysis: Samples should be analyzed by an environmental laboratory certified by ELAP to use EPA method 537 or ISO 25101. ELAP does not currently offer certification for PFAS analysis of non-drinking water samples (including groundwater, soil and sediment), so there is no requirement to use an ELAP certified method. The preferred method is the modified EPA Method 537. Labs have been able to achieve reporting limits for PFOA and PFOS of 2 ng/l (part per trillion). If labs are not able to achieve similar reporting limits, the NYSDEC project manager will make case-by-case decisions as to whether the analysis can meet the needs for the specific site.

PFAS sample reporting: DER has developed a PFAS target analyte list (below) with the intent of achieving reporting consistency between labs for commonly reportable analytes. It is expected that reported results for PFAS will include, at a minimum, all the compounds listed. This list may be updated in the future as new information is learned and as labs develop new capabilities. If lab and/or matrix specific issues are encountered for any particular compounds, the NYSDEC project manager will make case-by-case decisions as to whether particular analytes may be temporarily or permanently discontinued from analysis for each site. Any technical lab issues should be brought to the attention of a NYSDEC chemist.

Some sampling using this full PFAS target analyte list is needed to understand the nature of contamination. It may also be critical to differentiate PFAS compounds associated with a site from other sources of these chemicals. Like routine refinements to parameter lists based on investigative findings, the full PFAS target analyte list may not be needed for all sampling intended to define the extent of

contamination. Project managers may approve a shorter analyte list (e.g., just the UCMR3 list) for some reporting on a case by case basis.

1,4-Dioxane Analysis and Reporting: The method detection limit (MDL) for 1,4-dioxane should be no higher than 0.28 µg/l (ppb). ELAP offers certification for both EPA Methods 8260 and 8270. In order to get the appropriate detection limits, the lab would need to run either of these methods in "selective ion monitoring" (SIM) mode. DER is advising PMS to use 8270, since this method provides a more robust extraction procedure, uses a larger sample volume, and is less vulnerable to interference from chlorinated solvents (we acknowledge that 8260 has been shown to have a higher recovery in some studies).

Full PFAS Target Analyte List

Group	Chemical Name	Abbreviation	CAS Number
Perfluoroalkyl sulfonates	**Perfluorobutanesulfonic acid**	**PFBS**	**375-73-5**
	Perfluorohexanesulfonic acid	**PFHxS**	**355-46-4**
	Perfluoroheptanesulfonic acid	PFHpS	375-92-8
	Perfluorooctanessulfonic acid	**PFOS**	**1763-23-1**
	Perfluorodecanesulfonic acid	PFDS	335-77-3
Perfluoroalkyl carboxylates	Perfluorobutanoic acid	PFBA	375-22-4
	Perfluoropentanoic acid	PFPeA	2706-90-3
	Perfluorohexanoic acid	PFHxA	307-24-4
	Perfluoroheptanoic acid	**PFHpA**	**375-85-9**
	Perfluorooctanoic acid	**PFOA**	**335-67-1**
	Perfluorononanoic acid	**PFNA**	**375-95-1**
	Perfluorodecanoic acid	PFDA	335-76-2
	Perfluoroundecanoic acid	PFUA/PFUdA	2058-94-8
	Perfluorododecanoic acid	PFDoA	307-55-1
	Perfluorotridecanoic acid	PFTriA/PFTrDA	72629-94-8
	Perfluorotetradecanoic acid	PFTA/PFTeDA	376-06-7
Fluorinated Telomer Sulfonates	6:2 Fluorotelomer sulfonate	6:2 FTS	27619-97-2
	8:2 Fluorotelomer sulfonate	8:2 FTS	39108-34-4
Perfluorooctane-sulfonamides	Perfluroroctanesulfonamide	FOSA	754-91-6
Perfluorooctane-sulfonamidoacetic acids	N-methyl perfluorooctanesulfonamidoacetic acid	N-MeFOSAA	2355-31-9
	N-ethyl perfluorooctanesulfonamidoacetic acid	N-EtFOSAA	2991-50-6

Bold entries depict the 6 original UCMR3 chemicals

Collection of Groundwater Samples for Perfluorooctanoic Acid (PFOA) and Perfluorinated Compounds (PFCs) from Monitoring Wells Sample Protocol

Samples collected using this protocol are intended to be analyzed for perfluorooctanoic acid (PFOA) and other perfluorinated compounds by Modified (Low Level) Test Method 537.

The procedure used must be consistent with the NYSDEC March 1991 Sampling Guidelines and Protocols http://www.dec.ny.gov/docs/remediation_hudson_pdf/sgpsect5.pdf with the following materials limitations.

At this time acceptable materials for sampling include: stainless steel, high density polyethylene (HDPE), PVC, silicone, acetate and polypropylene. Equipment blanks should be generated at least daily. Additional materials may be acceptable if pre-approved by NYSDEC. Requests to use alternate equipment should include clean equipment blanks. **NOTE: Grunfos pumps and bladder pumps are known to contain PFC materials (e.g. Teflon™ washers for Grunfos pumps and LDPE bladders for bladder pumps).** All sampling equipment components and sample containers should not come in contact with aluminum foil, low density polyethylene (LDPE), glass or polytetrafluoroethylene (PTFE, Teflon™) materials including sample bottle cap liners with a PTFE layer. Standard two step decontamination using detergent and clean water rinse will be performed for equipment that does come in contact with PFC materials. Clothing that contains PTFE material (including GORE-TEX®) or that have been waterproofed with PFC materials must be avoided. Many food and drink packaging materials and “plumbers thread seal tape” contain PFCs.

All clothing worn by sampling personnel must have been laundered multiple times. The sampler must wear nitrile gloves while filling and sealing the sample bottles.

Pre-cleaned sample bottles with closures, coolers, ice, sample labels and a chain of custody form will be provided by the laboratory.

1. Fill two pre-cleaned 500 mL HDPE or polypropylene bottle with the sample.
2. Cap the bottles with an acceptable cap and liner closure system.
3. Label the sample bottles.
4. Fill out the chain of custody.
5. Place in a cooler maintained at 4 ± 2º Celsius.

Collect one equipment blank for every sample batch, not to exceed 20 samples.

Collect one field duplicate for every sample batch, not to exceed 20 samples.

Collect one matrix spike / matrix spike duplicate (MS/MSD) for every sample batch, not to exceed 20 samples.

Request appropriate data deliverable (Category A or B) and an electronic data deliverable.

APPENDIX C

QUALITY ASSURANCE PROJECT PLAN (QAPP)

QUALITY ASSURANCE PROJECT PLAN
157 GREAT ARROW AVENUE SITE
BUFFALO, NEW YORK
BROWNFIELD CLEANUP PROGRAM
SITE NO. C915326

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1.0 INTRODUCTION

1.1 PURPOSE AND OBJECTIVE

This Quality Assurance Project Plan (QAPP) has been developed by GZA GeoEnvironmental of New York (GZA) for project activities described in the associated Remedial Investigation Work Plan (RIWP) for the 157 Great Arrow Avenue Site, located at 157 Great Arrow Avenue, Buffalo, New York (see Figure 1). This QAPP presents the project scope, objectives, organization, planned activities, sampling procedures, data quality objectives and quality assurance/quality control (QA/QC) procedures.

Protocols for sample collection, sample handling and storage, equipment decontamination, chain- of-custody procedures, etc. are described in Section 3. This QAPP was developed in general accordance with the requirements of Section 2.4 of the NYSDEC DER-10/Technical Guidance for Site Investigation and Remediation, effective May 3, 2010 (NYSDEC DER-10).

1.2 PROJECT BACKGROUND

The 157 Great Arrow Ave. Site (Site) is a brownfield site with known contamination of on-site soil and groundwater. The Site is planned to be redeveloped into residential apartments. The Site is part of the former heavy manufacturing facility known as the Former Pierce Arrow Manufacturing Facility. The on-Site soil and groundwater contamination will require further investigation and remediation prior to Site redevelopment. The nature, extent, and impact of the environmental contamination is not yet sufficiently defined, thus further environmental investigation work must be completed to provide information necessary to evaluate and select remedial measures. The Remedial Investigation Work Plan (RIWP) provides descriptions of the investigation procedures to be implemented to characterize the environmental conditions of the Site. Data collected through the RI will be used to define the nature and extent of environmental contamination and the related risks to human health, if any. Potential remedial alternatives will then be identified and assessed in a Remedial Alternatives Analysis (RAA). Recommended remedial actions will then be presented a Remedial Work Plan (RWP). This QAPP was prepared to supplement and support the RIWP.

1.3 PROJECT DESCRIPTION

This QAPP is the quality control basis for the scope of work, which is further described in the Remedial Investigation Work Plan. The major tasks involved at the Site are:

- Characterization of Urban Fill;
- Characterization of Native Soil;
- Characterization of Surface Soil;
- Characterization of Groundwater;
- Characterization of Soil Gas and Indoor Air; and
- Characterization of Earthen Berm.

1.4 PROJECT MANAGEMENT AND ORGANIZATION

1.4.1 Personnel

The general responsibilities of key project personnel are listed below.

NYSDEC Project Manager – Tony Lopes will have the responsibility for regulatory oversight for the work associated with BCP.

Great Arrow Estates, LLC Project Manager – Nick Sinatra will have the responsibility for implementing the project and has the authority to commit funding necessary to meet the objectives and requirements.

GZA Project Manager – Jim Richert will be responsible for managing the implementation of the activities associated with the remedial investigation, remediation and coordinating the collection of data during the project. The Project Manager is responsible for technical quality control and project oversight.

Quality Assurance (QA) Officer – Todd Bown will report to the Project Manager and will be responsible for ensuring that QA/QC procedures are being followed. The QA Officer will be responsible for overseeing the review of field and laboratory data.

The QA Officer will monitor the performance of the laboratory to verify that the Data Quality Objectives for the project are met.

Field QA Officer – Todd Bown will be responsible for the overall operation of the field team and reports directly to the Project Manager.

2.0 SITE INVESTIGATION PROCEDURES AND RATIONALE

General field activities are described in the following sections and described in further detail in the Interim Remedial Measures Work Plan.

2.1 AIR SURVEILLANCE AND MONITORING

Air surveillance screening for total volatile organics and particulates for health and safety concerns will be performed with a portable organic vapor meter (OVM) equipped with a photoionization detector (PID) that is using a 11.7 electron volt (eV) bulb and dust monitors placed both upwind and downwind of intrusive work sites. Monitoring will be performed during invasive activities such as the planned soil excavations of the berm. The OVM will also be used to field screen samples. Additional details are presented in the Site-specific Health and Safety Plan which includes the NYSDOH generic Community Air Monitoring Plan (CAMP).

2.2 SOIL SAMPLING

Soil sampling will occur during remedial investigation activities involving soil boring and berm excavation activities and waste characterization. Samples will be collected and transferred to sample containers as soon as possible after being retrieved from the subsurface (i.e., acetate Geoprobe liners and excavator bucket).

The sampling equipment will be decontaminated by the subcontractor prior to arrival on-Site. During remedial investigation activities, decontamination will be accomplished using steam cleaning or high pressure hot water to wash equipment prior to moving to the next location. Stainless steel sampling devices will be cleaned manually with non-phosphate detergent (i.e., Alconox) wash and potable water followed by a potable water rinse or a second steam cleaning followed by a distilled/deionized water rinse. Equipment will be similarly cleaned prior to leaving the Site.

Soil samples, with the exception of those for VOCs, will be homogenized using a "coning and quartering" procedure. The soil will be removed from the sampling equipment and transferred to a clean surface (metal foil, steel pan, bowl, etc.). Observed debris, such as bricks, large stones, organics, etc. will be removed from the sample. The soil will be mixed to provide a more homogeneous sample for lab analysis. The soil will be scraped from the sides, corners, and bottom of the clean surface, rolled to the middle, and thoroughly mixed until the material appears homogenous. An aliquot of this pile will then be transferred to the required sample containers, slightly tamped-down, filled to near the top of the container, and sealed with the appropriate cap. Soil or sediment on the threads of the container will be removed prior to placing the cap on the sample container. Soil samples for VOC analysis will be collected and directly placed into one unpreserved 2 oz jar per sample location.

Soil screening will be performed in two ways: by holding the probe of the OVM directly over the sample once it is retrieved from the subsurface and again by headspace screening after a representative portion of the soil samples has been placed in plastic bags, allowed to warm to ambient temperature, and placing the tip of the OVM into the plastic bag. The OVM used will be equipped with a PID that is using a 11.7 eV bulb.

The OVM will be calibrated daily, in accordance to manufacturer's requirements using a standard gas. Prior to screening, the headspace soil samples will be allowed to equilibrate to ambient temperature. For headspace screening, a hole will be made in the sample bag and the tip of the OVM inserted into the bag, and the peak response will be recorded. A response of less than 1 part per million (ppm), using this method, is not considered significant and will be reported as not detected.

2.3 EQUIPMENT DECONTAMINATION

To avoid cross contamination, non-disposable sampling equipment (defined as any piece of re- usable equipment which may contact a sample) will be decontaminated according to the following procedures outlined below.

2.3.1 Non-Dedicated Reusable Equipment

Non-dedicated reusable equipment such as stainless steel mixing bowls; pumps used for groundwater evacuation (and sampling, if applicable) etc. will require field decontamination. Acids and solvents will not be used in the field decontamination of such equipment.

Decontamination typically involves scrubbing/washing with a laboratory grade detergent (e.g. Alconox) to remove visible contamination, followed by potable (tap) water and analyte-free water rinses. Tap water may be used from any treated municipal water system; the use of an untreated potable water supply is not an acceptable substitute. Equipment should be allowed to dry prior to use. Steam cleaning or high pressure hot water cleaning may be used in the initial removal of gross, visible contamination. Tubing will not be re-used (new tubing will be used for each well).

2.3.2 Disposable Sampling Equipment

Disposable sampling equipment will not be field-decontaminated; equipment may be rinsed with laboratory-provided analyte-free water prior to use. Disposable spoons or spatulas purchased from non-environmental equipment vendors (such as restaurant supply houses) will be decontaminated by scrubbing/washing with a laboratory grade detergent followed by potable water and Analyte-free water rinse; or by using steam or high pressure hot water rinse, followed by analyte free water rinse. The equipment will be allowed to air dry prior to use.

2.3.3 Heavy Equipment

Certain heavy equipment such as, excavator buckets, etc. may be used to obtain samples. Such equipment will be subject to high pressure hot water or steam cleaning between uses. A member of the sampling team will visually inspect the equipment to check that visible contamination has been removed by this procedure prior to sampling. Such equipment will be cleaned between excavation locations. Decontamination between excavation samples at a single location will be performed using Alconox and water to clean the samplers. Samples submitted for analysis will not include material, which has been in direct contact with the excavator bucket.

2.4 STORAGE AND DISPOSAL OF INVESTIGATION-DERIVED WASTE

The sampling methods and equipment have been selected to limit both the need for decontamination and the volume of waste material to be generated. Investigation-derived material (e.g., decon sediments and water) generated during this project shall be presumed to be non- hazardous waste and will be discharged to the ground surface unless evidence of contamination such as elevated PID readings (>10 PPM above background), visual staining, petroleum or solvent odors are encountered. If evince of contamination is encountered, soil IDW will be containerized in 55-gallon drums for proper characterization and disposal during Site remediation.

Personal protective equipment and disposable sampling equipment will be placed in plastic garbage bags for disposal as a non-hazardous solid waste.

Decontamination Fluids

Wash water and rinse water, including mild detergent, generated during Site work will be discharged to the ground surface on-site near the site of generation.

3.0 SAMPLE HANDLING

3.1 SAMPLE IDENTIFICATION/LABELING

Samples will be assigned a unique identification using the sample location or other sample-specific identifier. Sample identification will be limited to seven alphanumeric characters to be consistent with the limitations of the laboratory tracking/reporting software. The general sample identification format follows.

SP - XX - Y-Y

Where:

SP = Type of sample (i.e., Soil Probe, groundwater, surface soil)
XX = Numeric character indicating the number from which the sample was obtained.
Y'-Y' = Depth of the sample.

Quality control (QC) field duplicate samples will be submitted blind to the laboratory; a fictitious sample identification will be created using the same system as the original. The sample identifications (of the original sample and its field duplicate) will be marked in the project specific field book and on the copy of the chain-of-custody kept by the sampler and copied to the project manager. Sample containers will be labeled in the field prior to the collection of samples. Affixed to each sampling container will be a non-removable label on which the following information will be recorded with permanent water-proof ink:

- Site name and location;
- Sample identification code;
- Date and time;
- Sampler's initials;
- Preservative; and
- Requested analyses.

3.2 SAMPLES, BOTTLES, PRESERVATION, AND HOLDING TIME

Table 1 specifies the analytical method, matrix, holding time, containers, and preservatives for the various analyses to be completed. Sample bottle requirements and holding times are discussed further below.

3.2.1 Sample Bottles

The selection of sample containers used to collect samples is based on the criteria of sample matrix, analytical method, potential contaminants of concern, reactivity of container material with the sample, QA/QC requirements and regulatory protocol requirements. Sample bottles will be provided by the analytical laboratory and will conform to the requirements of USEPA's Specifications and Guidance for Contaminant-Free Sample Containers.

3.2.2 Holding Times

Holding times are judged from the verified time of sample receipt (VTSR) by the laboratory; samples will be shipped from the field to arrive at the lab no later than 48 hours from the time of sample collection. Holding time requirements will be those specified in the NYSDEC ASP; it should be noted that for some analyses, these holding times are more stringent than the holding time for the corresponding USEPA method.

Although trip blanks are prepared in the analytical laboratory and shipped to the Site prior to the collection of environmental samples, for the purposes of determining holding time conformance, trip blanks will be considered to have been generated on the same day as the environmental samples with which they are shipped and delivered. Procurement of bottles and blanks will be scheduled to prevent trip blanks from being stored for excessive periods prior to their return to the laboratory; the goal is that trip blanks should be held for no longer than one week prior to use.

3.3 CHAIN OF CUSTODY AND SHIPPING

A chain-of-custody form will trace the path of sample containers from the project site to the laboratory. A sample Chain of Custody is included in Attachment 1, Field Forms. Sample/bottle tracking sheets or the chain-of-custody will be used to track the containers from the laboratory to the containers' destination. The project manager will notify the laboratory of upcoming field sampling events and the subsequent transfer of samples. This notification will include information concerning the number and type of samples, and the anticipated date of arrival. Insulated sample shipping containers (typically coolers) will be provided by the laboratory for shipping samples. All sample bottles within each shipping container will be individually labeled with an adhesive identification label provided by the laboratory. Project personnel receiving the sample containers from the laboratory will check each cooler for the condition and integrity of the bottles prior to field work.

Once the sample containers are filled, they will be immediately placed in the cooler with ice (in plastic bags to prevent leaking) or synthetic ice packs to maintain the samples at 4 ^{O}C. The field sampler will indicate the sample designation/location number in the space provided on the chain- of-custody form for each sample. The chain of custody forms will be signed and placed in a sealed plastic bag in the cooler. The completed shipping container will be closed for transport with nylon strapping, or a similar shipping tape, and two paper seals will be affixed to the lid. The seals must be broken to open the cooler and will indicate tampering if the seals are broken before receipt at the laboratory. The cooler will be shipped either by laboratory-provided courier or by an overnight delivery service to the laboratory. When the laboratory receives the coolers, the custody seals will be checked and lab personnel will sign the chain-of-custody form.

4.0 QUALITY ASSURANCE/QUALITY CONTROL PROTOCOLS

This section describes the analytical methods, principles and procedures that will be used to generate quality data. These protocols include laboratory calibration, field equipment calibration, QC sample collection and analysis, quantitative evaluation of data quality protocols and data qualification, if necessary.

4.1 ANALYTICAL METHODS, PROCEDURES & CALIBRATION

4.1.1 Methods

Analytical methods to be used during this project are presented in the NYSDEC Analytical Services Protocol (ASP), June 2005. Specific methods and references for each parameter are shown in Table 1. The sample preservation and holding time requirements are also identified in Table 1. Quantification and detections limits for all analysis are those specified under the appropriate test methods.

It is the laboratory's responsibility to be familiar with this document, procedures and deliverables pertaining to the Site work. Analytical testing will be performed by a laboratory certified by the NYSDOH Environmental Laboratory Approval Program and Contract Laboratory Protocol.

4.1.2 Laboratory Instrumentation & Equipment

Laboratory instruments and equipment will be calibrated following SW-846 analytical methods protocol. Initial calibrations will be performed before samples analysis. Calibration checks will be performed at the frequencies specified in each analytical method.

4.1.3 Field Equipment

Field equipment will be used during various activities of the project and during the collection of environmental samples. The field equipment to be used may include the following.

Field equipment used includes:

- OVM with a photoionization detector.
- Electronic water level indicator.
- Multi-gas meter (CO, LEL, O_2, and H_2S).
- Particulate monitor

Field equipment will be cleaned and calibrated prior to use. The Operating and Maintenance (O&M) manuals for the field equipment will be kept in the field when in use and a copy will be retained in project files.

Calibration and standardization for the field equipment during project use will be in accordance with the manufacturer's recommendations and will be recorded in the field log book. If instrument performance or data fall outside acceptable limits, then corrective actions will be taken. These actions may include recalibration of instruments, acquiring new standards, replacing equipment, or repairing equipment. Subcontractors providing analytical services should perform their own internal laboratory audits and calibration procedures with data review conducted at a frequency so that errors and problems are detected early, thus avoiding the prospect of redoing large segments of work.

4.2 QUALITY CONTROL SAMPLES

4.2.1 Analytical Equipment

The analytical methods to be utilized (see Table 1) for laboratory sample analysis address the quality control to be used and the frequency of replicates, blanks and calibration standards for laboratory analytical equipment.

4.2.2 Field Samples

Field quality control samples will consist of trip blanks, sample duplicate, matrix spike and matrix spike duplicate. Trip blanks, for VOCs only, will consist of analyte free reagent grade water in VOC sampling containers to be used for the project. Trip blanks will be prepared at the laboratory, sealed, transported to the Site and returned without being opened to assess contamination that may have occurred during transport. Trip blanks will be submitted at a rate of one per sampling event when VOCs are shipped to the laboratory.

Field duplicate samples are used to assess the variability of a matrix at a specific sampling point and to assess the reproducibility of the sampling method. For soil samples, these samples are separate aliquots of the same sample; prior to dividing the sample into "sample" and "duplicate" aliquots, the samples are homogenized (except for the VOC aliquots, which are not homogenized). Aqueous field duplicate samples are second samples collected from the same location, at the same time, in the same manner as the first, and placed into a separate container. Each duplicate sample will be analyzed for the same parameters as the original sample collected that day. The blind field duplicate Relative Percent Difference (RPD) objective will be $\pm$50% percent RPD for all matrices. Field duplicates will be collected at a frequency of 1 per 20 environmental samples for both matrices (aqueous and non-aqueous) and test parameters.

Matrix spike/matrix spike duplicate (MS/MSD) samples are used to assess the laboratory method's accuracy and precision. These samples are spiked with known quantities of target analytes at the laboratory. The samples are collected at a frequency of five percent(1 in 20).

5.0 DATA DOCUMENTATION

5.1 FIELD NOTEBOOK

Field notebooks will be initiated at the start of on-Site work, in addition to field forms that will be filled out summarizing field work and become part of the project file. The field notebook will include the following daily information for Site activities:

- Date;
- Meteorological conditions (temperature, wind, precipitation);
- Site conditions (e.g., dry, damp, dusty, etc.);
- Identification of crew members (GZA and subcontractor present) and other personnel (e.g., agency or site owner) present;
- Description of field activities;
- Location(s) where work is performed;
- Problems encountered and corrective actions taken;
- Records of field measurements or descriptions recorded; and,
- Notice of modifications to the scope of work.

5.2 FIELD REPORTING FORMS

Field reporting forms (or their equivalent) to be utilized during the remediation may include the following:

- Excavation Log;
- Sample Collection Log;
- Chain of Custody Form; and
- Calibration Log.

These forms, when completed, will become part of the project file.

6.0 CORRECTIVE ACTIONS

If instrument performance or data fall outside acceptable limits, then corrective actions will be taken. These actions may include recalibration or standardization of instruments, acquiring new standards, replacing equipment, repairing equipment, and reanalyzing samples or redoing sections of work. Subcontractors providing analytical services should perform their own internal laboratory audits and calibration procedures with data review conducted at a frequency so that errors and problems are detected early, thus avoiding the prospect of redoing large segments of work.

Situations related to this project requiring corrective action will be documented and made part of the project file. For each measurement system identified requiring corrective action, the responsible individual for initiating the corrective action and also the individual responsible for approving the corrective action, if necessary, will be identified. As part of its total quality management program, GZA makes the results of laboratory audits and data validation reports available to the analytical laboratories. The laboratories are therefore made aware of non-critical items and areas where improvement may be made in subsequent NYSDEC ASP work.

7.0 DATA REDUCTION, VALIDATION, AND REPORTING

The guidance followed to perform quality data validation, and the methods and procedures outlined herein pertain to initiating and performing data validation, as well as reviewing data validation performed by others (if applicable). An outline of the data validation process is presented here, followed by a description of data validation review summaries.

7.1 LABORATORY DATA REPORTING AND REDUCTION

The laboratory will meet the applicable documentation, data reduction, and reporting protocols as specified in the 2005 revision of the NYSDEC ASP CLP. Laboratory data reports for non-CLP data will conform to NYSDEC Category B deliverable requirements. With full CLP documentation, deliverables will include, but not be limited to:

Organics	**Inorganics**
Chains of Custody	Chains of Custody
Blanks	Blanks
Holding Times	Holding Times
Internal Standards	Furnace AA QC
Laboratory Duplicates	CRDL Standards
Tentatively Identified Compounds	ICP Serial Dilutions
GC/MS Instrument Performance Check	Laboratory Control Samples
System Monitoring Compound Recovery	Laboratory Duplicates Matrix
Spike & Matrix Spike Duplicates	ICP Interference Check GC/MS
Tuning	Spiked Sample Recovery
Surrogate Recoveries	

Copies of the laboratory's generic Quality Assurance Plan (QAP) will be on file at GZA. The laboratory's QAP will indicate the standard methods and practices for obtaining and assessing data, and how data are reduced from the analytical instruments to a finished report, indicating levels of review along the way.

In addition to the hard copy of the data report, the laboratory will be asked to provide the sample data in spreadsheet form to minimize possible transcription errors resulting from the manual transcription of data.

7.2 DATA VALIDATION AND DATA USABILITY SUMMARY REPORT

CLP data will be validated by a data validation subcontractor. Data validation will be performed in accordance with guidelines established in Appendix 2B of the NYSDEC DER-10. Where necessary and appropriate, supplemental validation criteria may be derived from the EPA Functional Guidelines (USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review, EPA-540/R-94/012, February 1993; and USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review, EPA-540/R-94/013, February, 1994).

Data Usability Summary Reports (DUSRs) will consist of text results of the review and marked up copies of Form I (results with qualifiers applied by the validator). Validation will consist of target and non-target compounds with corresponding method blank data, spike and surrogate recoveries, sample data, and a final note of validation decision or qualification, along with any pertinent footnote references. Qualifiers applied to the data will be documented in the report text.

There may be some analyses for which there is no established USEPA or NYSDEC data validation protocol. In such cases, validation will be based on the EPA Region II SOPs and EPA Functional Guidelines as much as possible, as well as the laboratory's adherence to the technical requirements of the method, and the professional judgment of the validator. The degree of rigor in such validation will correspond to the nature of the data and the significance of the data and its intended use. Unless otherwise requested, non-CLP data (e.g., total organic carbon) is not subject to validation.

7.3 FIELD DATA

Field chemistry data collected during air monitoring, and soil screening (e.g., OVM readings), will be presented on field logs and provided in the appendices of the report.

8.0 PERFORMANCE AND SYSTEM AUDITS

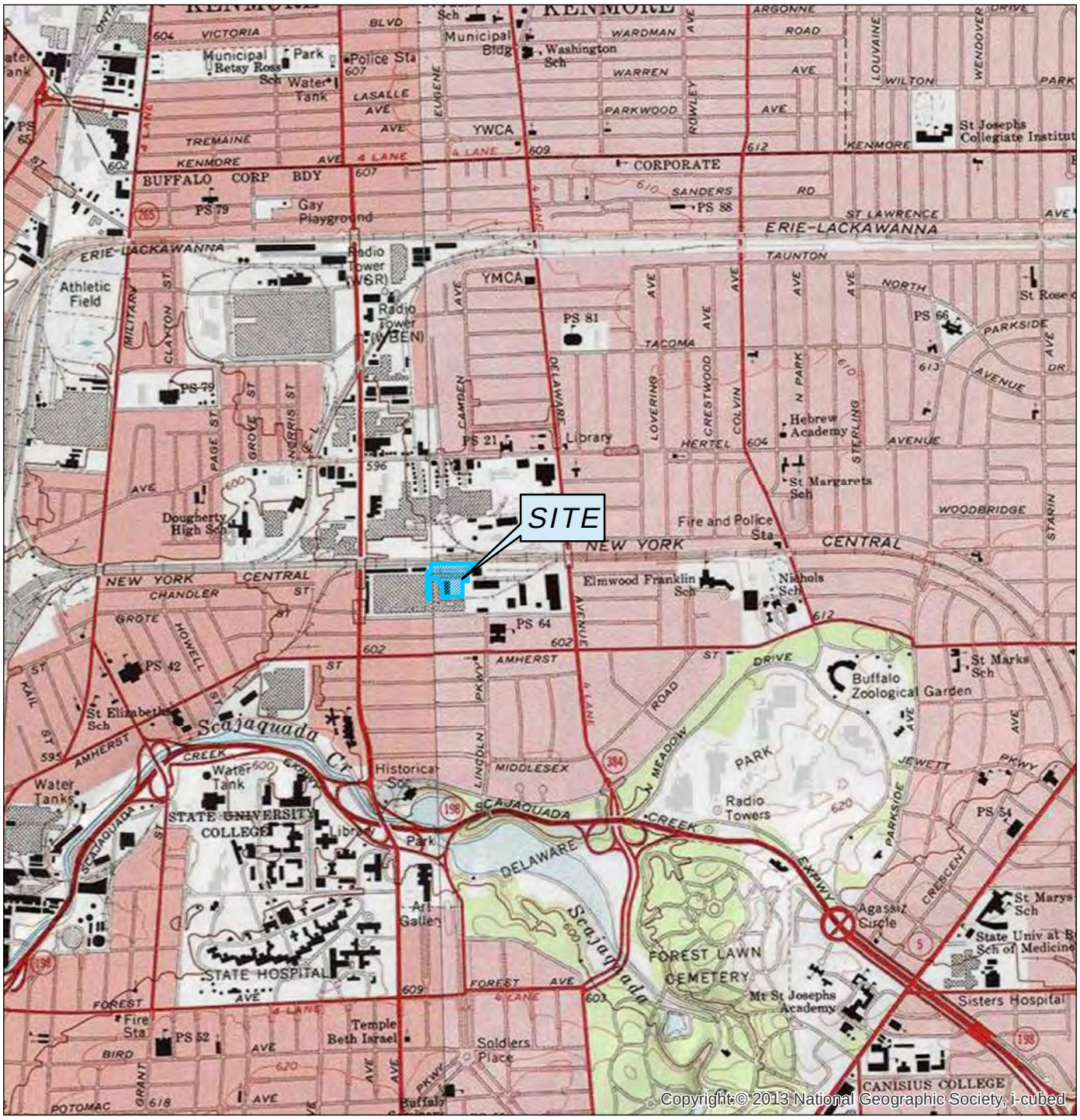
An audit of the laboratory(s) during the BCP work will not be performed unless warranted by a problem(s) that cannot be resolved by any other means, or at the discretion of GZA or NYSDEC.

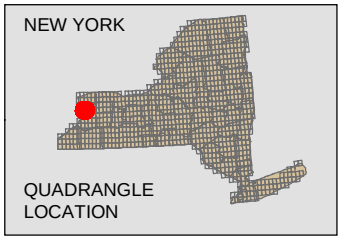
9.0 QUALITY ASSURANCE REPORTS TO MANAGEMENT

Monthly project status reporting to the NYSDEC will include aspects of quality control that were pertinent during the month's activities. Problems revealed during review of the month's activities will be documented and addressed. These reports will include a description of completed and on- going activities, and an indication how each task is progressing relative to the project schedule.

The project manager, through task managers, will be responsible for verifying that records and files related to this project are stored appropriately and are retrievable.

The laboratory will submit memoranda or correspondence related to quality control of this project's samples as part of its deliverables package.





SOURCE : THIS MAP CONTAINS THE ESRI ARCGIS ONLINE USA TOPOGRAPHIC MAP SERVICE, PUBLISHED DECEMBER 12, 2009 BY ESRI ARCIMS SERVICES AND UPDATED AS NEEDED. THIS SERVICE USES UNIFORM NATIONALLY RECOGNIZED DATUM AND CARTOGRAPHY STANDARDS AND A VARIETY OF AVAILABLE SOURCES FROM SEVERAL DATA PROVIDERS

Data Supplied by : esri

0 1,000 2,000 4,000

SCALE IN FEET

N W E S

NO.	ISSUE/DESCRIPTION	BY	DATE

REMEDIAL INVESTIGATION WORK PLAN
157 GREAT ARROW AVENUE
BUFFALO, NEW YORK 14207

Final Engineering Report

Greater Property Locus Map

PREPARED BY:
GZA GeoEnvironmental, Inc. of Buffalo
Engineers and Scientists
535 WASHINGTON ST
BUFFALO, NEW YORK 14203

PREPARED FOR:
GREAT ARROW DEVELOPMENT, LLC

PROJ MGR: JJR	REVIEWED BY: TGB	CHECKED BY: BK	FIGURE 1
DESIGNED BY: TGB	DRAWN BY: DCF	SCALE: 1 " = 2,000 '	
DATE: August 2017	PROJECT NO. 21.0056831.20	REVISION NO.	

 T:\Clients\56831 Pierce Arrow BCP Application for Sinatra\Remedial Investigation Work plan\MXD's\Figure1_SiteLocus.mxd, 8/25/2017, 12:49:32 PM, dustin.fletcher

QAPP Table 1
Summary of Analytical Program

Medium	Analysis Type	Method	Sample Container	Preservative	Temperature	Holding Time
Soil	Volatile Organic Compounds	EPA 8260	Glass with Teflon Line Cap	None	4° C (Minimize Headspace)	10 days
Soil	Semivolatile Organic Compounds	EPA 8270	Glass with Teflon Line Cap	None	4° C (Store in Dark)	5 Days
Soil	Metals	EPA 6010	Plastic/Glass	None	4° C	180 Days
Soil	Polychlrinated BiPhenyls	EPA 8082	Glass with Teflon Line Cap	None	4° C	5 Days
Soil	Pesticides	EPA 8081	Glass with Teflon Line Cap	None	4° C	5 Days
Soil	Total Cyanide	EPA 9012	Glass	None	4° C	14 Days
Soil	Hexavalent Chromimium	EPA 7196A	Plastic/Glass	None	4° C	24 Hours
Water	Volatile Organic Compounds	EPA 8260	Glass with Teflon Line Cap	Hydrochloric Acid	4° C (Minimize Headspace)	10 days
Water	Semivolatile Organic Compounds	EPA 8270	Glass with Teflon Line Cap	None	4° C (Store in Dark)	5 Days
Water	Metals	EPA 6010	Plastic/Glass	Nitric Acid (pH <2)	4° C	180 Days
Water	Polychlrinated BiPhenyls	EPA 8082	Glass with Teflon Line Cap	None	4° C	5 Days
Water	Pesticides	EPA 8081	Glass with Teflon Line Cap	None	4° C	5 Days
Water	Total Cyanide	EPA 9012A	Plastic/Glass	Sodium Hydroxide (pH<12 + 0.6g Asorbic Acid)	4° C	14 Days
Water	Hexavalent Chromimium	EPA 7196A	Plastic/Glass	None	4° C	24 Hours
Water	1,4-Dioxane	EPA 8270D-SIM	amber glass	None	4° C	7 days
Water	PFAS -(NY 21 List)	EPA 537 Modified	plastic	None	4° C	14 Days
AIR	Volatile Organic Compounds	EPA TO-15	Canister		Ambient	30 days

APPENDIX D

HEALTH AND SAFETY PLAN (HASP)

with

COMMUNITY AIR MONITORING PLAN (CAMP)

GZA SITE-SPECIFIC HEALTH, SAFETY & ACCIDENT PREVENTION STANDARD-PLAN

1. CLIENT/SITE/PROJECT INFORMATION		
Client: Sinatra and Company Real Estate		
Site Address: 157 Great Arrow Ave., Buffalo, New York		
Site Description (be sure to list pertinent site features, chemicals used at the facility, and other potential hazard sources: Vacant four-story warehouse building and surrounding parking and former rail yard.		
Work Environment (active manufacturing, office, vacant site, undeveloped property, etc.): Vacant warehouse of former Pierce Arrow auto manufacturing complex.		
Job/Project #: 21.0056831.20	Estimated Start Date: TBA	Estimated Finish Date: TBA
Site is Covered by the Following Regulations:	OSHA HAZWOPER Standard ☒	Mine Safety and Health Administration ☐
	OSHA Construction Regulations ☐	

2. EMERGENCY INFORMATION		
Hospital Name: Sister's Hospital		Hospital Phone: 716-862-1000
Hospital Address: 2157 Main Street, Buffalo, NY, 14215		Directions and Street Map Attached: ☒ Yes
Local Fire #: 911	Local Ambulance #: 911 or	Local Police #: 911
WorkCare Incident Intervention Services:	**For non-emergencies, if an employee becomes hurt or sick call 888-449-7787**	
Other Emergency Contact(s): Bart Klettke	Phone #'s: 716-570-2093	

Site-Specific Emergency Preparedness/Response Procedures/Concerns:

Conduct pre-job site briefing with project members, including subcontractors and client representatives (as applicable) to review emergency procedures and responsibilities prior to start of each day's work. Review emergency contact information, locations of emergency equipment (e.g. first aid kits, fire extinguishers, evacuation routes), review of emergency procedures, and current location and access to hospital. Ensure that cell phones are charged daily and have vehicle phone chargers on hand.

Possible emergencies on site include physical injuries. Personnel on site will have current first aid and will be able to respond to minor injuries while emergency response personnel are contacted for assistance.

- All EHS Events (incidents, first aid, near misses, unsafe acts/conditions, fires, chemical spills, property damage, and extraordinary safe behaviors) must be reported immediately to the Project Manager, and within 24 hours to the EHS Event Reporting Portal at http://www.kelleronline.com. Username gempl1 Password 4Incidents&
- In the event of a chemical release greater than 5 gallons, site personnel will evacuate the affected area and relocate to an upwind location. The GZA Field Safety Officer and client site representative shall be contacted immediately.
- Site work shall not be conducted during nighttime, severe weather, including high winds and lightning. In the event of severe weather, stop work, lower any equipment (drill rigs), and evacuate the affected area.

3. SCOPE OF WORK	
General project description, and phase(s) or work to which this H&S Plan applies[1].	Fieldwork
Specific Tasks Performed by GZA:	Observe drilling interior and exterior soil probes, excavation of test pits, sub-slab vapor sampling and permanent well installation, sample and handle soil and groundwater, assist with backfilling holes.
Concurrent Tasks to be Performed by GZA-hired Subcontractors (List Subcontractors by Name):	Subcontractors (to be determined) to drill through building floor at three interior locations and exterior soil probes. Excavation activities of six test pit locations. Install approximately 6 permanent wells, backfill and patch holes, handle soil, cut acetate liners.
Concurrent Tasks to be Performed by Others:	None

[1] Copy from or reference proposal or applicable design plan as appropriate.

Any OSHA PERMIT-REQUIRED CONFINED SPACE entry? ☐ YES ☒ NO IF YES, ADD CONFINED SPACE ENTRY PERMIT FOR THAT PORTION OF THE WORK	Any INDOOR fieldwork? ☒ YES ☐ NO IF YES, EXPLAIN: drilling soil probes in a warehouse-type structure

4. SUB-SURFACE WORK, UNDERGROUND UTILITY LOCATION				
Will subsurface explorations be conducted as part of this work (drilling or excavation)?	☒ Yes	☐ No		
Will GZA personnel be required to use a hand-auger as part of this work?	☐ Yes	☒ No		
Site property ownership where underground explorations will be conducted on: Owned by Sinatra's investment group for the site.	Public Access Property ☐ Yes ☒ No Private Property ☒ Yes ☐ No			
Have Necessary Underground Utility Notifications for Subsurface Work Been Made?	☐ Yes	☒ Yet to be conducted		
Specify Clearance Date & Time, Dig Safe Clearance I.D. #, And Other Relevant Information: To be performed by subcontractor prior to start date.				
IMPORTANT! For subsurface work, prior to the initiation of ground penetrating activities, GZA personnel to assess whether the underground utility clearance (UUC) process has been completed in an manner that appears acceptable, based on participation/ confirmation by other responsible parties (utility companies, subcontractor, client, owner, etc.), for the following:				
Electric:	☐ Yes	☐ No	☐ NA	☐ Other_____
Fuel (gas, petroleum, steam):	☐ Yes	☐ No	☐ NA	☐ Other_____
Communication:	☐ Yes	☐ No	☐ NA	☐ Other_____
Water:	☐ Yes	☐ No	☐ NA	☐ Other_____
Sewer:	☐ Yes	☐ No	☐ NA	☐ Other_____
Other:_____	☐ Yes	☐ No	☐ NA	☐ Other_____
Comments:				

5. HAZARD ASSESSMENT (CHECK ALL THAT APPLY AND ADDRESS EACH HAZARD IN SECTION 6)

A. GENERAL FIELDWORK HAZARDS

☐ Confined Space Entry (Add Confined Space Entry Permit)	☒ Overhead Hazards (i.e. falling objects, overhead power lines)
☒ Abandoned or vacant building/Enclosed Spaces	☐ Portable Hand Tools or Power Tools
☒ Significant Slip/Trip/Fall Hazards	☐ Significant Lifting or Ergonomic Hazards
☐ Unsanitary/Infectious Hazards	☐ Electrical Hazards (i.e. Equipment 120 Volts or Greater, Work Inside Electrical Panels, or Maintenance of Electrical Equipment)
☐ Poisonous Plants	☐ Other Stored energy Hazards (i.e. Equipment with High Pressure or Stored Chemicals)
☒ Biting/Stinging Insects	☐ Fire and/or Explosion Hazard
☐ Feral Animal Hazards	☒ Elevated Noise Levels
☐ Water/Wetlands Hazards	☒ Excavations/Test Pits
☐ Remote Locations/Navigation/Orientation hazards	☐ Explosives or Unexploded Ordinance/MEC
☐ Heavy Traffic or Work Alongside a Roadway	☐ Long Distance or Overnight Travel
☒ Weather-Related Hazards	☐ Personal Security or High Crime Area Hazards
☒ Motor vehicle operation Hazards	☐ Working Alone
☒ Heavy Equipment Hazards	☐ Ionizing Radiation or Non-Ionizing Radiation
☐ Structural Hazards (i.e. unsafe floors/stairways/roof)	☒ Chemical/Exposure Hazards (See Part B for Details)
☐ Demolition/Renovation	☐ Other:
☐ Presence of Pedestrians or the General Public	

B. CHEMICAL/EXPOSURE HAZARDS (CONTAMINANTS ARE CONTAINED IN SOIL, WATER, GROUNDWATER)

☐ No chemical hazards anticipated	☐ Methane
☐ Hydrogen Sulfide (H2S)	☐ Chemicals Subject to OSHA Hazard Communication (attach Safety Data Sheet for each chemical GZA brings to the site)
☐ Cyanides, Hydrogen Cyanide (HCN)	☐ Containerized Waste, Chemicals in Piping & Process Equipment
☐ Carbon Monoxide	☒ Emissions from Gasoline-, Diesel-, Propane-fired Engine, Heater, Similar Equipment
☐ Herbicides, Pesticide, Fungicide, Animal Poisons	☒ General Work Site Airborne Dust Hazards
☒ Metals, Metal Compounds:	☒ Volatile Organic Compounds (VOCs), BTEX
☐ Corrosives, Acids, Caustics, Strong Irritants	☒ Chlorinated Organic Compounds
☐ Polychlorinated Biphenyls (PCBs)	☒ Fuel Oil, Gasoline, Petroleum Products, Waste Oil
☒ Polycyclic Aromatic Hydrocarbons (PAHs)	☐ Asbestos
☐ Compressed Gases	☐ Oxygen Deficiency, Asphyxiation Hazards
☐ Flammable/Combustible Liquids	☒ Other: interior drilling, use proper ventilation
☐ Radiation Hazards (i.e. radioactive sealed/open source, x-rays, ultra violet, infrared, radio-frequency, etc.)	

6. SITE-SPECIFIC OVERVIEW OF H&S HAZARDS/MITIGATIONS (NOTE: Based on Hazard Assessment, Section 5)

Describe the major hazards expected to be present at the jobsite, and describe the safety measures to be implemented for worker protection (refer to items checked in Section 5 above). Use brief abstract statements or more detailed narrative as may be appropriate.

ON-SITE HAZARDS:	HAZARD MITIGATIONS:
Motor Vehicle Operation Hazards	GZA will observe the speed limit and traffic laws when operating a motor vehicle driving to and from the job site, and during any driving around the job site that may

	occur. Seat belts will be worn at all times when vehicle is in motion. Cell phones will not be operated when the car is on.
Biting/Stinging Insects	Long pants will be worn. Insect repellant will be made available. All site personnel will periodically check for tics during and after fieldwork.
Elevated Noise Levels	GZA will wear hearing protection as needed.
Chemical Hazards and collection of soil and groundwater samples	A PID will be used to monitor VOC concentrations in the work area, as indicated below. Gloves will be worn at all times to help prevent dermal exposure.
Working around drill rig	High-visiblity vests, hearing protection, safety glasses and steel toes will be worn at all time.
Slips, Trips, and Falls	Pay attention when walking on uneven surfaces, do not walk with hands in pockets, general overall awareness of site area, identify hazards prior to start of work.
Indoor drilling	Will ventilate interior work area or pipe rig exhaust to exterior of building
Overhead Hazards	GZA will proceed cautiously within the building and will wear a hard hat. A flashlight will be used if needed.

7. AIR MONITORING ACTION LEVELS – Make sure air monitoring instruments are in working order, calibrated before use, and 'bump-checked' periodically throughout the day and/or over multiple days of use

Is air monitoring to be performed for this project? Yes ☒ No ☐

ACTION LEVELS FOR OXYGEN DEFICIENCY AND EXPLOSIVE ATMOSPHERIC HAZARDS (Action levels apply to occupied work space in general work area)

☐ Applicable, See Below. ☒ Not Applicable Only four holes to be drilled inside of building. Each hole will take less than half an hour and overhead doors will be open for ventilation. Based on large size of building, accumulation of CO/oxygen deficiency in work area not anticipated.

Parameter	Response Actions for Elevated Airborne Hazards
Oxygen	At 19.5% or below – Exit area, provide adequate ventilation, or proceed to Level B, or discontinue activities Verify presence of adequate oxygen (approx. 12% or more) before taking readings with LEL meter. Note: If oxygen levels are below 12%, LEL meter readings are not valid.
LEL	Less than 10% LEL – Continue working, continue to monitor LEL levels Greater than or Equal to 10% LEL – Discontinue work operations and immediately withdraw from area. Resume work activities ONLY after LEL readings have been reduced to less than 10% through passive dissipation, or through active vapor control measures.

ACTION LEVELS FOR INHALATION OF TOXIC/HAZARDOUS SUBSTANCES (Action levels are for sustained breathing zone concentrations)

☒ Applicable, See Below. ☐ Not Applicable

Air Quality Parameters (Check all that apply)	Remain in Level D or Modified D	Response Actions for Elevated Airborne Hazards
☒ VOCs	0 to 5 ppm	From 5 ppm to 10 ppm: Proceed to Level C, or Ventilate, or Discontinue Activities If greater than 10 ppm: Discontinue Activities and consult EHS Team
☐ Carbon Monoxide	0 to 35 ppm	At greater than 35 ppm, exit area, provide adequate ventilation, proceed to Level B, or discontinue activities.
☐ Hydrogen Sulfide	0 to 10 ppm	At greater than 10 ppm, exit area, provide adequate ventilation, proceed to Level B, or discontinue activities
☒ Dust	0 to mg/m^3	Monitor per the Generic Community Air Monitoring Plan, attached hereto.

☐	0 to	

SPECIAL INSTRUCTIONS/COMMENTS REGARDING AIR MONITORING (IF APPLICABLE)

8. HEALTH AND SAFETY EQUIPMENT AND CONTROLS

AIR MONITORING INSTRUMENTS

- ☒ PID Type: Lamp Energy: 10.6 eV
- ☐ FID Type:
- ☐ Carbon Monoxide Meter
- ☐ Hydrogen Sulfide Meter
- ☐ O_2/LEL Meter
- ☒ Particulate (Dust) Meter
- ☒ Calibration Gas Type isobutylene
- ☐ Others:

OTHER H&S EQUIPMENT & GEAR

- ☒ Fire Extinguisher
- ☐ Caution Tape
- ☒ Traffic Cones or Stanchions
- ☐ Warning Signs or Placards
- ☒ Decon Buckets, Brushes, etc.
- ☒ Portable Ground Fault Interrupter (GFI)
- ☐ Lockout/Tagout Equipment
- ☒ Ventilation Equipment, or open overhead doors
- ☐ Others:

PERSONAL PROTECTIVE EQUIPMENT

- ☐ Respirator – Type
- ☐ Respirator - Cartridge Type:
- ☒ Hardhat
- ☒ Outer Gloves Type: Nitrile
- ☐ Inner Gloves Type:
- ☒ Steel-toed boots/shoes
- ☐ Coveralls – Type
- ☐ Outer Boots – Type
- ☒ Eye Protection with side shields
- ☐ Face Shield
- ☒ Traffic Vest
- ☐ Personal Flotation Device (PFD)
- ☐ Fire Retardant Clothing
- ☐ EH (Electrical Hazard) Rated Boots, Gloves, etc.
- ☒ Noise/Hearing Protection
- ☐ Others:

Discuss/Clarify, as Appropriate:

9. H&S TRAINING/QUALIFICATIONS FOR FIELD PERSONNEL

- ☒ Project-Specific H&S Orientation (Required for All Projects/Staff)
- ☒ OSHA 40-Hour HAZWOPER/8 Hour Refreshers
- ☐ Hazard Communication (for project-specific chemical products)
- ☒ First Aid/CPR (required for HAZWOPER for at least one individual on site)
- ☒ Current Medical Clearance Letter (required for HAZWOPER)
- ☐ OSHA 10-hour Construction Safety Training
- ☐ Fall Protection Training
- ☒ Trenching & Excavation
- ☐ Lockout/Tagout Training
- ☐ Electrical Safety Training
- ☒ Bloodborne Pathogen Training
- ☐
- ☐
- ☐
- ☐
- ☐

Discuss/Clarify, as needed:

10. PERSONNEL AND EQUIPMENT DECONTAMINATION (SECTION ONLY REQUIRED FOR HAZWOPER SITES)

Describe personnel decontamination procedures for the project site, including "dry decon" (simple removal of PPE)	Gloves will be discarded into a garbage bag and disposed of as solid waste. Further decon is not anticipated.

11. PROJECT PERSONNEL - ROLES AND RESPONSIBILITIES

GZA ON-SITE PERSONNEL:

Name(s)	Project Title/Assigned Role	Telephone Numbers
Tom Bohlen	Site Supervisor	Work: 716-844-7050 Cell: 716-570-5983
Tom Bohlen	Field Safety Officer	Work: 716-844-7050 Cell: 716-570-5983
Tom Bohlen	First Aid Personnel	Work: 716-844-7050 Cell: 716-570-5983
Pete Nyznyk	GZA Project Team Members	Work: 716-844-7045 Cell: 716-517-5708

Site Supervisors and Project Managers (SS/PM): Responsibility for compliance with GZA Health and Safety programs, policies, procedures and applicable laws and regulations is shared by all GZA management and supervisory personnel. This includes the need for effective oversight and supervision of project staff necessary to control the Health and Safety aspects of GZA on-site activities.

Field Safety Officer (FSO): The FSO is responsible for implementation of the Site Specific Health and Safety Plan.

First Aid Personnel: At least one individual designated by GZA who has current training and certification in basic first aid and cardiopulmonary resuscitation (CPR) must be present during on-site activities involving multiple GZA personnel at HAZWOPER sites.

GZA Project Team: Follow instructions relayed by the HASP and GZA manager on-site.

OTHER PROJECT PERSONNEL:

Name	Project Title/Assigned Role	Telephone Numbers
Bart Klettke	Principal-in-Charge	Work: 716-844-7035 Cell: 716-570-2093
Jim Richert	Project Manager	Work: 716-844-7048 Cell: 716-341-4459
Jim Richert	Health and Safety Coordinator (HSC)	Work: 716-844-7048 Cell: 716-341-4459
Richard Ecord	GZA EHS Director	Work: 781-278-3809 Cell: 404-234-2834

Principal-in-Charge: Responsible of overall project oversight, including responsibility for Health and Safety.

Project Manager: Responsible for day-to-day project management, including Health and Safety.

Health and Safety Coordinator: General Health and Safety guidance and assistance.

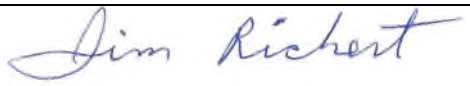
GZA EHS Director: H &S technical and regulatory guidance, assistance regarding GZA H&S policies and procedures.

12. PLAN ACKNOWLEDGEMENT AND APPROVALS

GZA Project Site Worker Plan Acknowledgement

I have read, understood, and agree to abide by the information set forth in this Safety and Accident Prevention Plan. I will follow guidance in this plan and in the GZA Health and Safety Program Manual. I understand the training and medical monitoring requirements covered by the work outlined in this plan and have met those requirements.

GZA Employee Name	GZA Employee Signature	Date

Subcontractor Site Worker Plan Acknowledgement		
GZA has prepared this plan solely for the purpose of protecting the health and safety of GZA employees. Subcontractors, visitors, and others at the site must refer to their organization's health and safety program or site-specific HASP for their protection. Subcontractor employees may use this plan for general informational purposes only. Subcontractor firms are obligated to comply with safety regulations applicable to their work, and understand this plan covers GZA activities only.		
Subcontractor Employee Name	Subcontractor Employee Signatures	Date
GZA HASP Approval Signatures		
The following individuals indicate their acknowledgement and/or approval of the contents of this Site Specific H&S Plan based on their understanding of project work activities, associated hazards and the appropriateness of health and safety measures to be implemented. A signed copy of this document must be present at the project site at all times work is being performed.		
GZA Author/Reviewer Role	Signature	Date
HASP Preparer – Jim Richert		9/1/2017
EHS Reviewer – Jim Richert		9/1/2017
Principal in Charge – Bart Klettke		

YOUR TRIP TO:

2157 Main St, Buffalo, NY, 14214-2648

6 MIN | 2.2 MI

Est. fuel cost: $0.21

Trip time based on traffic conditions as of 9:31 AM on July 10, 2017. Current Traffic: Moderate

1. Start out going **east** on Great Arrow Ave toward Lincoln Pkwy.

Then 0.38 miles — 0.38 total miles

2. Turn **right** onto Delaware Ave/NY-384.

Then 0.57 miles — 0.95 total miles

3. Merge onto NY-198 E/Scajaquada Expy E.

Then 1.00 miles — 1.94 total miles

4. Take the exit toward **N Y 5/Main St**.

Then 0.05 miles — 1.99 total miles

5. Merge onto Humboldt Pkwy.

Then 0.10 miles — 2.09 total miles

6. Take the 1st **left** onto NY-5/Main St.

If you reach Kensington Ave you've gone a little too far.

Then 0.12 miles — 2.21 total miles

7. 2157 Main St, Buffalo, NY 14214-2648, 2157 MAIN ST is on the **right**.

Your destination is just past Humboldt Pkwy.

If you reach Robie St you've gone a little too far.

PORTAGAS

Material Safety Data Sheet

Prepared to U.S. OSHA, CMA, ANSI and Canadian WHMIS Standards

1. PRODUCT IDENTIFICATION CHEMICAL NAME; CLASS: NONFLAMMABLE GAS MIXTURE Containing One or More of the Following Components in a Nitrogen Balance Gas: Oxygen 0-23.5%; Isobutylene, 0.0005-0.9% SYNONYMS: Not Applicable **CHEMICAL FAMILY NAME:** Not Applicable **FORMULA:** Not Applicable **PRODUCT USE**: Calibration of Monitoring and Research Equipment **Document Number:** MSDS1069 **Note:** The Material Safety Data Sheet is for this gas mixture supplied in cylinders with 33 cubic feet (935 liters) or less gas capacity (DOT - 39 cylinders). This MSDS has been developed for various gas mixtures with the composition of components within the ranges listed in Section 2 (Composition and Information on Ingredients). Refer to the product label for information on the actual composition of the product.

SUPPLIER/MANUFACTURER'S NAME: Portagas **ADDRESS:** 6717-B Polk Street, Houston, TX 77011 **BUSINESS PHONE:** General MSDS Info: (713) 928-6477 **EMERGENCY PHONE:** INFOTRAC: (800) 535-5053

2. COMPOSITION and INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS #	mole %	EXPOSURE LIMITS IN AIR					
			ACGIH-TLV		OSHA-PEL		NIOSH	OTHER
			TWA ppm	STEL ppm	TWA ppm	STEL ppm	IDLH ppm	ppm
Isobutylene	115-11-7	0.0005-0.9%	There are no specific exposure limits for Isobutylene.					
Oxygen	7782-44-7	0-23.5%	There are no specific exposure limits for Oxygen.					
Nitrogen	7727-37-9	Balance	There are no specific exposure limits for Nitrogen. Nitrogen is a simple asphyxiant (SA). Oxygen levels should be maintained above 19.5%.					

NE = Not Established. See Section 16 for Definitions of Terms Used. NOTE (1): ALL WHMIS required information is included in appropriate sections based on the ANSI Z400.1-1998 format. This gas mixture has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

3. HAZARD IDENTIFICATION

EMERGENCY OVERVIEW: This is a colorless, odorless gas mixture. Releases of this gas mixture may produce oxygen-deficient atmospheres (especially in confined spaces or other poorly-ventilated environments); individuals in such atmospheres may be asphyxiated. Isobutylene, a component of this gas mixture, may cause drowsiness and other central nervous system effects in high concentrations; however, due to its low concentration in this gas mixture, this is unlikely to occur.

SYMPTOMS OF OVER-EXPOSURE BY ROUTE OF EXPOSURE: The most significant route of over-exposure for this gas mixture is by inhalation. **INHALATION:** Due to the small size of an individual cylinder of this gas mixture, no unusual health effects from over-exposure to the product are anticipated under routine circumstances of use. The chief health hazard associated with this gas mixture is when this gas mixture contains less than 19.5% Oxygen and is released in a small, poorly-ventilated area (i.e. an enclosed or confined space). Under this circumstance, an oxygen-deficient environment may occur. Individuals breathing such an atmosphere may experience symptoms which include headaches, ringing in ears, dizziness, drowsiness, unconsciousness, nausea, vomiting, and depression of all the senses. Under some circumstances of over-exposure, death may occur. The effects associated with various levels of oxygen are as follows:

CONCENTRATION OF OXYGEN	OBSERVED EFFECT
12-16% Oxygen:	Breathing and pulse rate increase, muscular coordination slightly disturbed.
10-14% Oxygen:	Emotional upset, abnormal fatigue, disturbed respiration.
6-10% Oxygen:	Nausea, vomiting, collapse, or loss of consciousness.
Below 6%:	Convulsive movements, possible respiratory collapse, and death.

HEALTH EFFECTS OR RISKS FROM EXPOSURE: An Explanation in Lay Terms. Over-exposure to this gas mixture may cause the following health effects: **ACUTE**: Due to the small size of the individual cylinder of this gas mixture, no unusual health effects from exposure to the product are anticipated under routine circumstances of use. The most significant hazard associated with this gas mixture when it contains less than 19.5% oxygen is the potential for exposure to oxygen-deficient atmospheres. Symptoms of oxygen deficiency include respiratory difficulty, ringing in ears, headaches, shortness of breath, wheezing, headache, dizziness, indigestion, nausea, unconsciousness, and death. The skin of a victim of over-exposure may have a blue color. Additionally, Isobutylene, a component of this gas mixture, may cause drowsiness or central nervous system effects in high concentrations; however, due to its low concentration in this gas mixture, this is unlikely to occur. **CHRONIC**: Chronic exposure to oxygen-deficient atmospheres (below 18% oxygen in air) may affect the heart and nervous system. **TARGET ORGANS**: ACUTE: Respiratory system, eyes. CHRONIC: Heart, cardiovascular system, central nervous system.

4. FIRST-AID MEASURES RESCUERS SHOULD NOT ATTEMPT TO RETRIEVE VICTIMS OF EXPOSURE TO THIS GAS MIXTURE WITHOUT ADEQUATE PERSONAL PROTECTIVE EQUIPMENT. At a minimum, Self-Contained Breathing Apparatus must be worn. No unusual health effects are anticipated after exposure to this gas mixture, due to the small cylinder size. If any adverse symptom develops after over-exposure to this gas mixture, remove victim(s) to fresh air as quickly as possible. Only trained personnel should administer supplemental oxygen and/or cardio-pulmonary resuscitation if necessary. Victim(s) who experience any adverse effect after over-exposure to this gas mixture must be taken for medical attention. Rescuers should be taken for medical attention if necessary. Take a copy of the label and the MSDS to physician or other health professional with victim(s). **MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:** Acute or chronic respiratory conditions may be aggravated by over-exposure to this gas mixture. **RECOMMENDATIONS TO PHYSICIANS:** Administer oxygen, if necessary; treat symptoms and eliminate exposure.

5. FIRE-FIGHTING MEASURES FLASH POINT: Not applicable. **AUTOIGNITION TEMPERATURE**: Not applicable. **FLAMMABLE LIMITS (in air by volume, %):** Lower (LEL): Not applicable. Upper (UEL): Not applicable. **FIRE EXTINGUISHING MATERIALS**: Non-flammable gas mixture. Use extinguishing media appropriate for surrounding fire. **UNUSUAL FIRE AND EXPLOSION HAZARDS**: This gas mixture is not flammable; however, containers, when involved in fire, may rupture or burst in the heat of the fire. Explosion Sensitivity to Mechanical Impact: Not sensitive. Explosion Sensitivity to Static Discharge: Not sensitive. **SPECIAL FIRE-FIGHTING PROCEDURES**: Structural firefighters must wear Self-Contained Breathing Apparatus and full protective equipment.

6. ACCIDENTAL RELEASE MEASURES LEAK RESPONSE: Due to the small size and content of the cylinder, an accidental release of this gas mixture presents significantly less risk of an oxygen deficient environment and other safety hazards than a similar release from a larger cylinder. However, as with any chemical release, extreme caution must be used during emergency response procedures. In the event of a release in which the atmosphere is unknown, and in which other chemicals are potentially involved, evacuate immediate area. Such releases should be responded to by trained personnel using pre-planned procedures. Proper protective equipment should be used. In case of a leak, clear the affected area, protect people, and respond with trained personnel. Allow the gas mixture to dissipate. If necessary, monitor the surrounding area (and the original area of the release) for oxygen. Oxygen levels must be above 19.5% before non-emergency personnel are allowed to re-enter area. If leaking incidentally from the cylinder, contact your supplier.

7. HANDLING and USE WORK PRACTICES AND HYGIENE PRACTICES: Be aware of any signs of dizziness or fatigue; exposures to fatal concentrations of this gas mixture could occur without any significant warning symptoms, due to oxygen deficiency. Do not attempt to repair, adjust, or in any other way modify the cylinders containing this gas mixture. If there is a malfunction or another type of operational problem, contact nearest distributor immediately. **STORAGE AND HANDLING PRACTICES**: Cylinders should be firmly secured to prevent falling or being knocked-over. Cylinders must be protected from the environment, and preferably kept at room temperature (approximately 21°C [70°F]). Cylinders should be stored in dry, well-ventilated areas, away from sources of heat, ignition, and direct sunlight. Protect cylinders against physical damage. Full and empty cylinders should be segregated. Use a first-in, first-out inventory system to prevent full containers from being stored for long periods of time. These cylinders are not refillable. **WARNING! Do not refill DOT 39 cylinders. To do so may cause personal injury or property damage. SPECIAL PRECAUTIONS FOR HANDLING GAS CYLINDERS: WARNING!** Compressed gases can present significant safety hazards. During cylinder use, use equipment designed for these specific cylinders. Ensure all lines and equipment are rated for proper service pressure. **PROTECTIVE PRACTICES DURING MAINTENANCE OF CONTAMINATED EQUIPMENT**: Follow practices indicated in Section 6 (Accidental Release Measures). Make certain that application equipment is locked and tagged-out safely. Always use product in areas where adequate ventilation is provided.

8. EXPOSURE CONTROLS - PERSONAL PROTECTION VENTILATION AND ENGINEERING CONTROLS: No special ventilation systems or engineering controls are needed under normal circumstances of use. As with all chemicals, use this gas mixture in well-ventilated areas. If this gas mixture is used in a poorly-ventilated area, install automatic monitoring equipment to detect the levels of Nitrous Oxide and Oxygen. **RESPIRATORY PROTECTION**: No special respiratory protection is required under normal circumstances of use. Maintain oxygen levels above 19.5% in the workplace. Use supplied air respiratory protection when oxygen levels are below 19.5%, or during emergency response to a release of this gas mixture. During an emergency situation, before entering the area, check the concentration of Methane and Oxygen. If respiratory protection is needed, use only protection authorized in the U.S. Federal OSHA Standard (29 CFR 1910.134), applicable U.S. State regulations, or the Canadian CSA Standard Z94.4-93 and applicable standards of Canadian Provinces. Oxygen levels below 19.5% are considered IDLH by OSHA. In such atmospheres, use of a full-facepiece pressure/demand SCBA or a full facepiece, supplied air respirator with auxiliary self-contained air supply is required under OSHA's Respiratory Protection Standard (1910.134-1998). **EYE PROTECTION**: Safety glasses. If necessary, refer to U.S. OSHA 29 CFR 1910.133 or appropriate Canadian Standards. **HAND PROTECTION**: Wear leather gloves when handling cylinders. Chemically resistant gloves should be worn when using this gas mixture. If necessary, refer to U.S. OSHA 29 CFR 1910.138 or appropriate Standards of Canada. **BODY PROTECTION**: No special protection is needed under normal circumstances of use. If a hazard of injury to the feet exists due to falling objects, rolling objects, where objects may pierce the soles of the feet or where employee's feet may be exposed to electrical hazards, use foot protection, as described in U.S. OSHA 29 CFR 1910.136.

9. PHYSICAL and CHEMICAL PROPERTIES The following information is for Nitrogen, a main component of this gas mixture. GAS DENSITY @ 32°F (0°C) and 1 atm: 0.072 lbs/ ft³ (1.153 kg/m³) **BOILING POINT**: -195.8°C (-320.4°F) **FREEZING/MELTING POINT @ 10 psig**: -210°C (-345.8°F) **SPECIFIC GRAVITY (air = 1) @ 70°F (21.1°C):** 0.906 **pH**: Not applicable. **SOLUBILITY IN WATER vol/vol @ 32°F (0°C) and 1 atm:** 0.023 **MOLECULAR WEIGHT:** 28.01 **EVAPORATION RATE (nBuAc = 1):** Not applicable. **EXPANSION RATIO**: Not applicable. **ODOR THRESHOLD**: Not applicable. **SPECIFIC VOLUME (ft³/lb)**: 13.8 **VAPOR PRESSURE @ 70°F (21.1°C) psig**: Not applicable. **COEFFICIENT WATER/OIL DISTRIBUTION**: Not applicable. **The following information is for Oxygen, a main component of this gas mixture. GAS DENSITY @ 32°F (0°C) and 1 atm:** 0.083 lb/cu ft (1.326 kg/m³) **FREEZING/MELTING POINT @ 10 psig**: -218.8°C (-361.8°F) **BOILING POINT**: -183.0°C (-297.4°F) **SPECIFIC GRAVITY (air = 1) @ 70°F (21.1°C):** 1.105 **pH**: Not applicable. **SOLUBILITY IN WATER vol/vol at 32°F (0°C) and 1 atm:** 0.04.91 **MOLECULAR WEIGHT:** 32.00 **EVAPORATION RATE (nBuAc = 1):** Not applicable. **EXPANSION RATIO**: Not applicable. **ODOR THRESHOLD**: Not applicable. **VOLUME (ft³/lb)**: 12.1 **VAPOR PRESSURE @ 70°F (21.1°C) psig**: Not applicable. **COEFFICIENT WATER/OIL DISTRIBUTION**: Not applicable. **The following information is for the gas mixture. APPEARANCE AND COLOR**: This is a colorless, odorless gas mixture. **HOW TO DETECT THIS SUBSTANCE (warning properties):** There are no unusual warning properties associated with a release of this gas mixture. In terms of leak detection, fittings and joints can be painted with a soap solution to detect leaks, which will be indicated by a bubble formation.

HAZARDOUS MATERIAL IDENTIFICATION SYSTEM

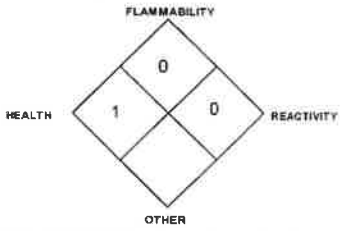
HEALTH HAZARD	(BLUE)	1
FLAMMABILITY HAZARD	(RED)	0
PHYSICAL HAZARD	(YELLOW)	0

PROTECTIVE EQUIPMENT

EYES	RESPIRATORY	HANDS	BODY
See Section 8			

For Routine Industrial Use and Handling Applications

NFPA RATING



10. STABILITY and REACTIVITY STABILITY: Normally stable in gaseous state. **DECOMPOSITION PRODUCTS**: The thermal decomposition products of Isobutylene include carbon oxides. The other components of this gas mixture do not decompose, per se, but can react with other compounds in the heat of a fire. **MATERIALS WITH WHICH SUBSTANCE IS INCOMPATIBLE**: Titanium will burn in the Nitrogen component of this gas mixture. Lithium reacts slowly with Nitrogen at ambient temperatures. The Isobutylene component of this gas mixture is also incompatible with strong oxidizers (i.e. chlorine, bromine pentafluoride, oxygen difluoride, and nitrogen trifluoride). **HAZARDOUS POLYMERIZATION**: Will not occur. **CONDITIONS TO AVOID**: Contact with incompatible materials. Cylinders exposed to high temperatures or direct flame can rupture or burst.

11. TOXICOLOGICAL INFORMATION TOXICITY DATA: The following toxicology data are available for the components of this gas mixture: **ISOBUTYLENE:** LC_{50} (inhalation, rat) = 620,000 mg/kg/4 hours LC_{50} (inhalation, mouse) = 415,000 mg/kg **NITROGEN:** There are no specific toxicology data for Nitrogen. Nitrogen is a simple asphyxiant, which acts to displace oxygen in the environment. **SUSPECTED CANCER AGENT**: The components of this gas mixture are not found on the following lists: FEDERAL OSHA Z LIST, NTP, CAL/OSHA, and IARC; therefore, they are not considered to be, nor suspected to be, cancer-causing agents by these agencies. **IRRITANCY OF PRODUCT:** Contact with rapidly expanding gases can be irritating to exposed skin and eyes. **SENSITIZATION TO THE PRODUCT**: The components of this gas mixture are not known to cause human skin or respiratory sensitization. **REPRODUCTIVE TOXICITY INFORMATION:** Listed below is information concerning the effects of this gas mixture and its components on the human reproductive system. Mutagenicity: No mutagenicity effects have been described for the components in this gas mixture. Embryotoxcity: No embryotoxic effects have been described for the components in this gas mixture. Teratogenicity: No teratogenicity effects have been described for the components in this gas mixture. Reproductive Toxicity: No reproductive toxicity effects have been described for the components in gas mixture. *A mutagen is a chemical which causes permanent changes to genetic material (DNA) such that the changes will propagate through generation lines. An embryotoxin is a chemical which causes damage to a developing embryo (i.e. within the first eight weeks of pregnancy in humans), but the damage does not propagate across generational lines. A teratogen is a chemical which causes damage to a developing fetus, but the damage does not propagate across generational lines, A reproductive toxin is any substance which interferes in any way with the reproductive process.* **BIOLOGICAL EXPOSURE INDICES (BEIs):** Currently, Biological Exposure Indices (BEIs) are not applicable for the components of this gas mixture.

12. ECOLOGICAL INFORMATION ENVIRONMENTAL STABILITY: The components of this gas mixture occur naturally in the atmosphere. The gas will be dissipated rapidly in well-ventilated areas. The following environmental data are applicable to the components of this gas mixture. **OXYGEN:** Water Solubility = 1 volume Oxygen/32 volumes water at 20°C. Log K_{ow} = -0.65 **NITROGEN:** Water Solubility = 2.4 volumes Nitrogen/100 volumes water at 0°C. 1.6 volumes Nitrogen/100 volumes water at 20°C. **EFFECT OF MATERIAL ON PLANTS or ANIMALS**: No evidence is currently available on the effects of this gas mixture on plant and animal life. **EFFECT OF CHEMICAL ON AQUATIC LIFE**: No evidence is currently available on the effects of this gas mixture on aquatic life.

13. DISPOSAL CONSIDERATIONS PREPARING WASTES FOR DISPOSAL PREPARING WASTES FOR DISPOSAL: Waste disposal must be in accordance with appropriate Federal, State, and local regulations. Cylinders with undesired residual product may be safely vented outdoors with the proper regulator. For further information, refer to Section 16 (Other Information).

14. TRANSPORTATION INFORMATION THIS GAS MIXTURE IS HAZARDOUS AS DEFINED BY 49 CFR 172.101 BY THE U.S. DEPARTMENT OF TRANSPORTATION. PROPER SHIPPING NAME: Compressed gases, n.o.s. (*Oxygen, Nitrogen)*or the gas component with the next highest concentration next to Nitrogen. **HAZARD CLASS NUMBER and DESCRIPTION**: 2.2 (Non-Flammable Gas) **UN IDENTIFICATION NUMBER**: UN 1956 **PACKING GROUP**: Not applicable. **DOT LABEL(S) REQUIRED**: Class 2.2 (Non-Flammable Gas) **NORTH AMERICAN EMERGENCY RESPONSE GUIDEBOOK NUMBER (2000)**: 126 **MARINE POLLUTANT**: The components of this gas mixture are not classified by the DOT as Marine Pollutants (as defined by 49 CFR 172.101, Appendix B). **SPECIAL SHIPPING INFORMATION:** Cylinders should be transported in a secure position, in a well-ventilated vehicle. The transportation of compressed gas cylinders in automobiles or in closed-body vehicles can present serious safety hazards. If transporting these cylinders in vehicles, ensure these cylinders are not exposed to extremely high temperatures (as may occur in an enclosed vehicle on a hot day). Additionally, the vehicle should be well-ventilated during transportation. **Note:** DOT 39 Cylinders ship in a strong outer carton (overpack). Pertinent shipping information goes on the outside of the overpack. DOT 39 Cylinders do not have transportation information on the cylinder itself. **TRANSPORT CANADA TRANSPORTATION OF DANGEROUS GOODS REGULATIONS**: This gas is considered as Dangerous Goods, per regulations of Transport Canada. **PROPER SHIPPING NAME**: Compressed gases, n.o.s. (*Oxygen, Nitrogen)*or the gas component with the next highest concentration next to Nitrogen. **HAZARD CLASS NUMBER and DESCRIPTION:** 2.2 (Non-Flammable Gas) **UN IDENTIFICATION NUMBER:** UN 1956 **PACKING GROUP:** Not Applicable **HAZARD LABEL:** Class 2.2 (Non-Flammable Gas) **SPECIAL PROVISIONS:** None **EXPLOSIVE LIMIT AND LIMITED QUANTITY INDEX:** 0.12 **ERAP INDEX:** None **PASSENGER CARRYING SHIP INDEX:** None **PASSENGER CARRYING ROAD VEHICLE OR PASSENGER CARRYING RAILWAY VEHICLE INDEX:** 75 **NORTH AMERICAN EMERGENCY RESPONSE GUIDEBOOK NUMBER (2000):** 126 **NOTE:** Shipment of compressed gas cylinders via Public Passenger Road Vehicle is a violation of Canadian law (Transport Canada Transportation of Dangerous Goods Act, 1992).

15. REGULATORY INFORMATION ADDITIONAL U.S. REGULATIONS: U.S. SARA REPORTING REQUIREMENTS: The components of this gas mixture are not subject to the reporting requirements of Sections 302, 304, and 313 of Title III of the Superfund Amendments and Reauthorization Act. **U.S. SARA THRESHOLD PLANNING QUANTITY:** There are no specific Threshold Planning Quantities for this gas mixture. The default Federal MSDS submission and inventory requirement filing threshold of 10,000 lb (4,540 kg) may apply, per 40 CFR 370.20. **U.S. TSCA INVENTORY STATUS**: The components of this gas mixture are listed on the TSCA Inventory. **U.S. CERCLA REPORTABLE QUANTITY (RQ):** Not applicable. **OTHER U.S. FEDERAL REGULATIONS**: No component of this gas mixture is subject to the requirements of CFR 29 1910.1000 (under the 1989 PELs). Isobutylene is subject to the reporting requirements of Section 112(r) of the Clean Air Act. The Threshold Quantity for this gas is 10,000 pounds. The regulations of the Process Safety Management of Highly Hazardous Chemicals are not applicable (29 CFR 1910.119). This gas mixture does not contain any Class I or Class II ozone depleting chemicals (40 CFR Part 82). Nitrogen and Oxygen are not listed as Regulated Substances, per 40 CFR, Part 68, of the Risk Management for Chemical Releases. Isobutylene is listed under this regulation in Table 3 as Regulated Substances (Flammable Substances), in quantities of 10,000 lbs (4,554 kg) or greater. **U.S. STATE REGULATORY INFORMATION**: The components of this gas mixture are covered under the following specific State regulations: **Alaska - Designated Toxic and Hazardous Substances:** No. **California - Permissible Exposure Limits for Chemical Contaminants:** Nitrogen. **Florida - Substance List:** Oxygen, Isobutylene. **Illinois - Toxic Substance List:** No. **Kansas - Section 302/313 List:** No. **Massachusetts - Substance List:** Oxygen, Isobutylene. **Michigan - Critical Materials Register:** No. **Minnesota - List of Hazardous Substances:** No. **Missouri - Employer Information/Toxic Substance List:** No. **New Jersey - Right to Know Hazardous Substance List**: Oxygen, Nitrogen, Isobutylene. **North Dakota - List of Hazardous Chemicals, Reportable Quantities:** No. **Pennsylvania - Hazardous Substance List:** Oxygen, Nitrogen, Isobutylene. **Rhode Island - Hazardous Substance List:** Oxygen, Nitrogen. **Texas - Hazardous Substance List:** No. **West Virginia - Hazardous Substance List:** No. **Wisconsin - Toxic and Hazardous Substances: :** No. **CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT (PROPOSITION 65):** No component of this gas mixture is on the California Proposition 65 lists. **ADDITIONAL CANADIAN REGULATIONS: CANADIAN DSL/NDSL INVENTORY STATUS:** The components of this gas mixture are listed on the DSL Inventory. **CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA) PRIORITIES SUBSTANCES LISTS:** The components of this gas mixture are not on the CEPA Priorities Substances Lists. **CANADIAN WHMIS REGULATIONS:** This gas mixture is categorized as a Controlled Product, Hazard Class A, as per the Controlled Product Regulations.

16. OTHER INFORMATION INFORMATION ABOUT DOT-39 NRC (Non-Refillable Cylinder) PRODUCTS DOT 39 cylinders ship as hazardous materials when full. Once the cylinders are relieved of pressure (empty) they are not considered hazardous material or waste. Residual gas in this type of cylinder is not an issue because toxic gas mixtures are prohibited. Calibration gas mixtures typically packaged in these cylinders are Nonflammable n.o.s., UN 1956. A small percentage of calibration gases packaged in DOT 39 cylinders are flammable or oxidizing gas mixtures. For disposal of used DOT-39 cylinders, it is acceptable to place them in a landfill if local laws permit. Their disposal is no different than that employed with other DOT containers such as spray paint cans, household aerosols, or disposable cylinders of propane (for camping, torch etc.). When feasible, we recommended recycling for scrap metal content. **MIXTURES:** When two or more gases or liquefied gases are mixed, their hazardous properties may combine to create additional, unexpected hazards. Obtain and evaluate the safety information for each component before you produce the mixture. Consult an Industrial Hygienist or other trained person when you make your safety evaluation of the end product. Remember, gases and liquids have properties which can cause serious injury or death. **Disclaimer:** To the best of Portagas's knowledge, the information contained herein is reliable and accurate as of this date; however, accuracy, suitability or completeness is not guaranteed and no warranties of any type either express or implied are provided. The information contained herein relates only to this specific product. Data may be changed from time to time. Be sure to consult the latest edition.

GZA GEOENVIRONMENTAL, INC.
JOB HAZARD ANALYSIS WORKSHEET

Job: Groundwater Sampling		
Analysis By: Andrew Whitsitt	**Reviewed By: Guy Dalton**	**Approved By: Jayanti Chatterjee , CIH**
Date: October 2, 2011 **Revised: June 15, 2012**	**Date: June 15, 2012**	**Date: June 26, 2012**

Task 4.2
GROUNDWATER SAMPLING

HAZARD CONTROLS

GZA Job Tasks	Potential Hazards	Controls
Review Related THA's – 21.1 – General Outdoor Field Work		
Deploying Traffic Protection Equipment	Personal injury due to vehicle traffic; Collisions, injuries	GZA drivers shall be properly licensed and abide by driving safety procedures. Inspect vehicle to determine if it is in safe operating condition.
		Park in designated parking locations, or select off-road areas that are firm and without hazards. Directly observe parking location on foot if necessary.
		Use emergency flashers or other appropriate vehicle warning system as appropriate to local conditions.
		Utilize police detail (when necessary) to direct traffic while entering traffic safety zone, if applicable.
Handling Flammable Liquids	Fire Hazards	Use only approved fuel containers for fuel, heavy duty metal cans with stable base and self closing nozzle is recommended.
		Store flammable liquids in an appropriate area when not in use.
		Provide working fire extinguisher with current inspection certificate with the sampling equipment.
		Observe GZA's "no smoking" policy at all work sites.
Mobilizing Equipment	Collision; struck by	Perform a pre-operation check of the vehicle, ensuring service brakes, parking brake, steering, lights, tires, horn, wipers mirrors, and glass are in good condition. Do not drive a vehicle that is not roadworthy.
		All vehicle occupants shall wear seat belts.
		Secure loose materials in the cab or bed of the vehicle.
		Keep the windows and lights clean.
		Do not operate the vehicle if it is in an unsafe condition.
		Abide by driving safety procedures and laws.
Positioning vehicle at monitoring well	Unstable, uneven terrain and ground obstacles	Locate the vehicle on stable ground.

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Task 4.2
GROUNDWATER SAMPLING
HAZARD CONTROLS

GZA Job Tasks	Potential Hazards	Controls
	Backing Collisions	Avoid wet areas/mud when possible.
		Assess the need for blocking/chocking wheels..
		If possible, avoid backing by taking a route that allows you to pull straight through.
		If you must back, do a complete walk around the vehicle to look for objects that could be struck or run over by the vehicle.
		Use a spotter when available to help guide the backing safely.
		Look over shoulders and glance back to make sure fenders are clearing objects. Back out slowly.
Well Sampling	Hazardous material contact	Identify wells with hazardous concentrations of contaminants.
		Sample wells in order from least to most impacted.
		Wear proper gloves specified in the project HASP when handling jars, preservatives could leak during shipment from the laboratory.
	Cuts and bruises from Sample jar	Do not over-tighten glass jars (especially VOAs); they can break, causing a laceration.
	Exposure to Hazardous Substances	Become familiar with the hazards associated with hazardous commercial products used while groundwater sampling (laboratory preservatives, decontamination solutions, etc.). Review Safety Data Sheets (SDS) for such products.
		Wear proper personal protective equipment (PPE) as specified in the Health and Safety Plan (HASP) to avoid direct contact with Site contaminants, calibration solutions, decontamination supplies, and laboratory preservatives.
		Respiratory protection as specified by the HASP must be available and used when necessary.
		Decontamination procedures as specified in the HASP must be followed.
Sampling Equipment Operation	Splashes, electrical shocks, fires, caught by	Perform an equipment observation before use; pumps, flow meters, and water quality meters must be calibrated and in good working condition.
		Use GFCI with all electrical cords.

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Task 4.2
GROUNDWATER SAMPLING

HAZARD CONTROLS

GZA Job Tasks	Potential Hazards	Controls
		All equipment (especially generators) must be properly grounded.
		Completely shut down all equipment prior to conducting maintenance activities, fueling, servicing or repairs. Follow lock-out/tag-out procedures as needed.
	Manual lifting, equipment handling	Use proper lifting techniques when lifting equipment (generators, pumps, air compressors, tubing, etc.) Seek assistance with heavy loads.
		Use work gloves where appropriate to prevent hand injuries.
		Wear steel toed boots.
		When containerizing water, do not try to carry more than you can safely carry. It is better to make multiple trips.
	Noise	Wear appropriate hearing protection during activities that produce noise (running generators, pumps, air compressors, etc.)
	Slips, trips and falls	Maintain a clean and sanitary work area free of tripping/slipping hazards.
		Store hand tools in their proper storage location when not in use.
		Provide adequate space for each employee to work safely with sound footing.
		Provide adequate lighting.
	Tool-related hazards	Do not use electrical tools with damaged cords or other electrical components.
		Observe proper electrical safety practices.
		Properly maintain tools; do not use damaged tools.
		Wear eye protection.
		Store and carry tools correctly.
		Use the correct tool for the job.
		Protect from gouges, hammer blows, cutting tools, etc. Position your hands to prevent injury in case the tool slips while in use.

GZA GEOENVIRONMENTAL, INC.
JOB HAZARD ANALYSIS WORKSHEET

Job: Drilling Observations, Monitoring Well Installation Observation and Soil Sampling		
Analysis By: Andrew Whitsitt	**Reviewed By: Guy Dalton**	**Approved By: Jayanti Chatterjee , CIH**
Date: October 2, 2011 **Revised: June 14, 2012**	**Date: June 14, 2012**	**Date: June 26, 2012**

Task 4.1
DRILLING OBSERVATIONS, MONITORING WELL INSTALLATION OBSERVATIONS, SOIL SAMPLING

HAZARD CONTROLS		
GZA Job Tasks	**Potential Hazards**	**Controls**
Review Related THA's – 21.1 – General Outdoor Field Work		
Observation of Deploying of Traffic Protection Equipment by Drilling Contractor (e.g., cones, signs, etc.)	Personal injury due to vehicle traffic, Collisions, injuries	Wear high visibility vest at all times when out of vehicle. Park in designated parking locations or select off-road areas that are firm and free of hazards. Directly inspect parking location on foot if necessary. Use emergency flashers or other appropriate vehicle warning system as appropriate to local conditions when parking personal or GZA vehicle and/or equipment. If parking outside of a designated parking area, demarcate vehicle with traffic cones or equivalent. Use emergency flashers or other appropriate vehicle warning system when placing equipment. Observe if police detail or other required traffic control system (if necessary) is in place. Stay within the confines of the work area and do not venture outside of the demarcated work area into traffic. If you observe that contractor may back into structures, vehicles, fences, etc., notify contractor immediately with pre-determined signals. Do not cross the path of the heavy equipment. Stand clear of moving Drill Rig.
Observation of Mobilizing Drill Rig To Job Site and positioning at borehole by Drilling Contractor	Struck by drill rig	Before drilling begins, confirm that drill rig has been parked properly and securely by the drilling contractor. Wear high visibility vests. Make sure that the driver can see you and is aware of your location at all times. Inform the driller if it is observed that the rig is being moved with the mast raised and/or tools and other equipment on the rig are not secured and can fall over and potentially hurt personnel.

GZA GEOENVIRONMENTAL, INC.
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Task 4.1
DRILLING OBSERVATIONS, MONITORING WELL INSTALLATION OBSERVATIONS, SOIL SAMPLING

HAZARD CONTROLS

GZA Job Tasks	Potential Hazards	Controls
	Overhead utility	Look overhead to assess if any utilities are present and confirm with driller that they are aware of the overhead utility location and to take appropriate actions to prevent contact with the overhead utilities and to minimize any arc flash hazards. Review GZA's Electrical Safe Work Practices Program 03-3003.
Observation of drilling operations and monitoring well installations	Underground utilities	Confirm that underground utility clearance procedures have been completed in accordance with GZA Policy # 04-0301 *Responsibility for Utility Clearance of Exploration Locations* for clearing utility locations prior
	Moving machinery, rotating parts, cables, ropes, etc.	Do not wear loose fitting clothing.
		All GZA personnel working in proximity to a drill rig will be familiarized with the location and operation of emergency kill switches prior to equipment start-up. Maintain safe distance from rotating auger, drill casing, rods and cathead at all times. Observe operations from a safe distance. Persons shall not pass under or over a moving stem or auger Check that "kill" switches are present and working. Confirm with driller that daily inspection of rig has been performed prior to commencing work and no conditions were noted with the rig that would affect its proper operation.
		Do not touch or operate or assist with any rig operations and maintenance work.
		Make eye contact with operator before approaching equipment.
		Be alert and take proper precautions regarding slippery ground surfaces and similar hazards near rotating auger.
		Do not engage the driller or helper when drill is in operation. Work out prearranged signals to get their attention before approaching them.
		Confirm prior to drilling operations that driller and helper communicate and coordinate their actions and movements.
		GZA personnel are not allowed to be on the drill rig or operate a rig.

GZA GEOENVIRONMENTAL, INC.
JOB HAZARD ANALYSIS WORKSHEET

Job: Drilling Observations, Monitoring Well Installation Observation and Soil Sampling		
Analysis By: Andrew Whitsitt	**Reviewed By: Guy Dalton**	**Approved By: Jayanti Chatterjee , CIH**
Date: October 2, 2011 **Revised: June 14, 2012**	**Date: June 14, 2012**	**Date: June 26, 2012**

Task 4.1
DRILLING OBSERVATIONS, MONITORING WELL INSTALLATION OBSERVATIONS, SOIL SAMPLING

HAZARD CONTROLS

GZA Job Tasks	Potential Hazards	Controls
		Wear steel toed boots, hardhat and side-shielding safety glasses/goggles.
	Falling objects, debris	Stand clear of stacked drill rods. If stack appears unstable inform driller.
	Noise	Wear appropriate hearing protection.
	Roadway/traffic hazards	Be alert at all times; never step outside traffic cones.
		Wear high visibility vests at all times.
		Be familiar with escape routes at each location.
		Follow project Traffic Control Plan. Be alert at all times and never step outside the traffic cones. Use a Police detail when necessary.
	Slips, trips and falls	Maintain clean and sanitary work area free of tripping/slipping hazards.
		All borings, excavations, or partially completed groundwater monitoring wells will be adequately covered and/or barricaded if left unattended for any period of time to prevent injury.
		Store any hand tools used for sampling in their proper storage location when not in use.
		Provide adequate space for each employee to work safely with sound footing.
		Do not perform work if adequate lighting is not available.
		Maintain an exit pathway away from the rig at all times.
	Cuts, bruises, shocks, lacerations, sprains and strains during tool use	When working with a driller, do not assist the drilling crew with their work.
		Use properly maintained tools; do not use damaged tools.
		Wear the proper Personal Protective Equipment based on the task being performed.
		Store and carry tools correctly.
		Use the correct tool for the job.
		Do not use electrical tools with damaged cords or other electrical components.
		Observe proper electrical safety practices. Do not use electrical tools in wet areas.

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HAZARD CONTROLS

GZA Job Tasks	Potential Hazards	Controls
		Coordinate activities with driller. Allow driller to open sampling equipment (i.e., split spoons, Geoprobe sleeves, etc.)
	Fire hazards	Be familiar with emergency procedures and where fire extinguishers are present on site.
		Inform GZA subcontractor if you observe improper storage of used rags and unsafe storage of flammable/combustible liquids brought on site.
		GZA and its subcontractors, suppliers and vendors shall not smoke in the work area in GZA project sites. Smoking can only be in designated smoking areas away from work areas and potential fire hazard locations.
		Confirm with driller that a fire extinguisher present with rig and will be available at all times and that inspection tag is not expired.
		If driller is welding or cutting on site confirm there are no flammables or combustible materials near the vicinity of welding machines or torches (such as debris, fuels, grass/weeds, etc.). Review Site requirements for obtaining "Hot Work Permit".
		Stand well clear of welding/cutting/burning areas.
		When drilling activities encounter the presence of gas or electric, the drill crew shall immediately curtail drilling activity, shut down the drill rig and contact the Project Manager.
	Exposure to Hazardous Substances/Chemicals	Become familiar with hazards associated with hazardous commercial products used in drilling (fuels, silica sand, grout, cement, bentonite, etc.). Review Safety Data Sheets (SDSs) for such products and participate in daily safety tailgate meetings.
		Do not handle drilling chemicals.
		Wear appropriate personal protective equipment.
		Review hazards of chemicals that may have been used or currently are being used on site.
		Refer to the site specific HASP for chemical hazards and the necessary precautions required for sampling.

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Task 4.1
DRILLING OBSERVATIONS, MONITORING WELL INSTALLATION OBSERVATIONS, SOIL SAMPLING

HAZARD CONTROLS		
GZA Job Tasks	**Potential Hazards**	**Controls**
		Be alert for hazardous site contaminants (as indicated by odor, visual characteristics, location, and site history). Assess whether procedures and contingencies are in place for characterizing hazards and protecting workers by use of appropriate air monitoring, personal protective clothing and respiratory protection, as needed. If contamination is identified at the Site only personnel trained and medically qualified to work on hazardous sites will be permitted to proceed with the work.
Sampling Soil	Exposure to chemicals	Refer to the site specific HASP for chemical hazards and the necessary precautions required for sampling.
		Understand potential hazards associated with handling sample collection preservatives.
		Review and have SDS available for chemicals being brought on site, including that of sample preservatives.
		Wear appropriate PPE identified in the HASP
		Wash hands before eating and drinking. Eating and drinking are prohibited in areas of soil contamination/work area.

GZA GEOENVIRONMENTAL, INC.
JOB HAZARD ANALYSIS WORKSHEET

Job: General Outdoor Field Work		
Analysis By: Anthony Zemba, CHMM	**Reviewed By: Guy Dalton**	**Approved By: Jayanti Chatterjee , CIH**
Date: June 25, 2012	**Date: June 25, 2012**	**Date: July 12, 2012**

Task 21.1
General Outdoor Field Work

HAZARD CONTROLS

GZA Job Tasks	Potential Hazards	Controls
Pre-work preparation	Overlooking of potential hazards	Become familiar with project area and job site by reviewing available on-line mapping (USGS Topographic, NWI Wetland, NRCS Soil, etc.; and aerial photographs before visiting site. Understand related hazards through review of this and other Task Hazard Analyses and participate in daily safety tailgate meetings (where applicable).
		Communicate Task Hazard Analysis and Lessons Learned information to operator(s) prior to initiating work and throughout the project as needed.
Driving to site	Vehicle accidents/collisions/injuries	Perform pre-operation check of vehicle, verifying service brakes, parking brake, steering, lights, tires, horn, wipers mirrors and glass are in good condition. verify that the rig is roadworthy.
		Wear seat belts always when driving even on site.
		Secure loose materials in cab or bed of vehicle.
		Keep windshields, windows and lights cleans.
		Abide by safe driving procedures.
	Backing collisions	If possible avoid backing by using a route that allows you to pull through.
		If backing up from a parked area do a quality 360 walker.
Working within transportation corridors or active construction sites	Collisions injuries	Wear high visibility safety vest on site when out of personal or GZA vehicle.
		Park vehicle in designated parking locations, or select off-road area that is firm, and without hazards. Directly inspect parking location on foot if necessary.
		Use emergency flashers or other appropriate vehicle warning system as appropriate to local conditions when parking vehicle.
		Use emergency flashers or other appropriate vehicle warning system when parking outside of standard parking spaces, or to stop in right-of-
		Be alert at all times; never step outside traffic cones.

Job: General Outdoor Field Work		
Analysis By: Anthony Zemba, CHMM	**Reviewed By: Guy Dalton**	**Approved By: Jayanti Chatterjee , CIH**
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Task 21.1
General Outdoor Field Work

HAZARD CONTROLS

GZA Job Tasks	Potential Hazards	Controls
		Stand clear of moving heavy equipment and away from any overhead utility lines until equipment is safely in position and parked properly and securely by the contractor.
		Do not wear headphones or earbuds, or listen to music or talk on the phone, which may distract from work hazards.
	Crossing Automobile traffic lanes	Wear high visibility safety vests at all times when out of vehicle and working within or adjacent to the roadway.
	Crossing Airport Movement Areas (e.g., Runways, taxiways, approaches)	Learn, know, and conform to project site Airport's, Airfield's, or Airbase's protocol for crossing movement areas (whether on foot or in vehicle).
		Work within airport movement areas or safety zones must be coordinated with the Air Traffic Control Tower.
		Vehicles to have blinking or flashing lights or beacons; pedestrians to wear high visibility safety vests.
		Using protocol, maintain communication with airport security and air traffic controllers.
	Crossing Railways	Work within active railroad ROWs requires railroad safety training. No work can be done within the railroad traffic envelope without the permission of a railroad flagman.
		No equipment or vehicles can cross without the permission of a railroad flagman.
		Expect any train on any track coming from either direction at any time.
Working in Natural or Remote Areas	Slips, trips, fall	Be aware of loose ground materials such as talus, unconsolidated rock, soil, sediment, ice and other media that could cause slips, trips or falls.
		Be careful when walking in heavily vegetated areas. Mind tangles of vines, thorny branches, and slippery logs and rock surfaces. Dense vegetation and especially entangled vines present trip hazards, or can mask voids, sharp objects, or other hazards beneath.

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Job: General Outdoor Field Work		
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Date: June 25, 2012	**Date: June 25, 2012**	**Date: July 12, 2012**

Task 21.1
General Outdoor Field Work

HAZARD CONTROLS

GZA Job Tasks	Potential Hazards	Controls
		Be vigilant for signs of cracking, shifting, fracturing, and evidence of past movement.
		Use wood mats or other stabilizing materials for equipment if soft ground conditions are present.
		Use walking stick, auger, or ski poles to steady yourself when traversing loose material or slopes.

GZA GEOENVIRONMENTAL, INC.
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Task 21.1
General Outdoor Field Work

HAZARD CONTROLS

GZA Job Tasks	Potential Hazards	Controls
		Wear proper footwear for conditions.
		Store tools in their proper storage location when not in use.
		Provide adequate lighting when necessary.
	Falls into excavations/ voids	Stand away from edges of excavations and voids. Do not attempt access without proper equipment / training. Remember that some excavations or voids may constitute a confined space and may present structural stability issues.
	Cave-ins and engulfment	DO NOT enter caves, sinkholes, excavations, and other voids or concavities that are not sloped or shored properly and have not been evaluated by a competent person to be safe.
		Stand away from edges of excavations, cliffs, dug wells, and other voids.
		Watch for cracks/fissures in the ground surface in the immediate vicinity of a pit or void, which indicate imminent sidewall failure/cave-in.
		Assess if confined space entry procedures need to be implemented.
		Before entering void (if required to do so and with proper training) be aware of any hazards at the surface (boulders, equipment) which may fall into the void.
Working among hazardous biota	Plant toxins Incidental contact	Know the appearance of poison ivy and poison sumac in all seasons, and if sensitive to these toxins, carry and use special cleaning soaps/solutions when thought to be exposed. Stock first aid kit with poison ivy/sumac cleaning soaps/solutions.
	Ticks	Ticks carry risk of Lyme's and other Diseases. Tick season is basically any field day above 40 degrees F.
		Tuck pants into long socks.
		The application of DEET (or permethrin pre-treatment) to clothing in season to control exposure to ticks is recommended.
		Check clothing for ticks frequently.

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Date: June 25, 2012	**Date: June 25, 2012**	**Date: July 12, 2012**

Task 21.1
General Outdoor Field Work

HAZARD CONTROLS

GZA Job Tasks	Potential Hazards	Controls
		Check whole body immediately upon returning from field and shower.
	Mosquitoes	Be aware of intermittent seasonal reports of mosquito borne diseases, such as West Nile disease and Eastern Equine Encephalitis (EEE), and their locations relative to your field site. Use of DEET or other mosquito repellant is recommended.
	Stinging bees and wasps	Be aware of potential cavity, suspended or ground nesting bee/wasp/hornet nests. Avoid undue disturbance or approach with appropriate safety clothing, protection and netting.
		Take appropriate precautions if allergic to bees. Carry at least two epi-pens in first aid kit as well as anti-histamines (oral and inhalers).
		Avoid areas of heavy bee activity if allergic. Avoid perfumed soaps, shampoos, deodorants, colognes, etc. that may attract bees.
	Poisonous Snakes	Be aware of terrain likelihood of harboring poisonous snakes in your work zone. Avoid reaching or stepping into hidden areas (such as into wood pile, rock pile, debris pile, stone wall, etc.) without pre-inspection.
		Coordinate with local hospitals to verify they have proper anti-venom in stock.
		Learn first aid procedures in case of poisonous snake bite.
		Devise an action plan and include in the site-specific HASP.
	Wild Animals	Do NOT handle wildlife unless properly trained to do so.
		Beware of any wild animal that shows no sign of wariness of humans.
		Do NOT attempt to feed wild animals or to help apparently injured wild animals.
		Be aware of domestic animals that may also pose a threat such as dogs off leash, bulls out to pasture, etc.

Job: General Outdoor Field Work		
Analysis By: Anthony Zemba, CHMM	**Reviewed By: Guy Dalton**	**Approved By: Jayanti Chatterjee , CIH**
Date: June 25, 2012	**Date: June 25, 2012**	**Date: July 12, 2012**

Task 21.1
General Outdoor Field Work

HAZARD CONTROLS

GZA Job Tasks	Potential Hazards	Controls
Working in Adverse Weather Conditions	Heat / cold stress and other weather related hazards	Assess weather conditions prior to on-site work and examine forecast for anticipated period of work.
		Dress appropriately for weather conditions (e.g., precipitation, temperature ranges over anticipated duration of field work). Include clothing and the presence / absence of shade when calculating a heat index.
		Schedule work day to avoid working during hottest or coldest parts of the day, to the extent practicable.
		Keep exposed skin covered in extremely cold weather.
		Recognize signs of frostbite; use warming packs and layer clothing to maintain warmth.
		Use a wicking layer of clothing against your body to keep moisture away from skin.
		Wool clothing will continue to keep you warm after it becomes wet; cotton will not.
		Use protective ointments such as sunscreen and chap stick, as appropriate to the field conditions.
		Stay hydrated in hot weather; drink fluids regularly throughout the day, even if not thirsty.
		Recognize signs of heat stress; take frequent breaks in shade when working in direct sunlight for prolonged periods.
		Be familiar with Heat index chart - add 20 degrees to chart if fully clothed and if working in direct sunlight.
		NOTE: Unacceptable field work conditions are not precise, but may include site specific conditions, general location, extreme weather conditions (e.g., icing, lightning, excessive cold or wind), travel conditions, and other factors. Professional judgment is required, and personal assessment of safety must always be individually assessed.
	Working on Ice	Assess relative load bearing capacity of ice on lakes, ponds and other waterways. If unsure do not venture onto the ice.

GZA GEOENVIRONMENTAL, INC.
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Job: General Outdoor Field Work		
Analysis By: Anthony Zemba, CHMM	**Reviewed By: Guy Dalton**	**Approved By: Jayanti Chatterjee , CIH**
Date: June 25, 2012	**Date: June 25, 2012**	**Date: July 12, 2012**

Task 21.1
General Outdoor Field Work

HAZARD CONTROLS

GZA Job Tasks	Potential Hazards	Controls
		Wear proper footwear modified for traction on ice.
	Electrical storms	If lightning is observed during drilling activities, work shall be suspended immediately and employees shall find suitable shelter (building or vehicle at minimum). Work will commence no sooner than 30 minutes after the last indications of lightning have been observed
		Seek shelter inside a walled building or your vehicle.
		Open picnic pavilions and under trees are not adequate shelters.
		Assess vulnerability to lightning strikes as soon as thunder is heard on the horizon. Open areas and higher elevations are more susceptible to strikes.
		Tall objects such as metal towers and flag poles may attract lightning.
		Consult internet weather radar tracking devices to learn of impending storm patterns proximal to your work area.
	High Winds	Avoid working at high elevations, elevated platforms, and other exposed areas during high wind conditions.
		Assess work area for equipment that may be blown down, over, or carried aloft by high winds.
Working in areas without sanitary facilities	Hygiene related hazards	Provide hand washing kits (e.g., baby wipes, hand sanitizers, paper towels, bottled water, etc.) to be used prior to eating and drinking.
		Have garbage bags handy to collect trash.
Working in remote areas	Emergency Conditions	Be familiar with onsite emergency procedures and route to nearest hospital.
		Have a first aid kit available; know its contents and how to use them.
		Carry a cell phone during all field work for emergency purposes, and confirm the nearest location of cell phone signal on site prior to start of worksite.
	Disorientation	Plan your route and anticipated progress prior to field work.

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Date: June 25, 2012	**Date: June 25, 2012**	**Date: July 12, 2012**

Task 21.1
General Outdoor Field Work

HAZARD CONTROLS		
GZA Job Tasks	**Potential Hazards**	**Controls**
		Have multiple navigation aids (e.g., USGS Map, compass, GPS, etc.) and know how to use them before entering field. Remember to have charged batteries and battery back-ups for electronic devices.
		Share your progress plan with office staff prior to entering the field.
		Check in with office personnel periodically to update progress.
		Review and comply with GZA's Working Alone Policy 03-1009 in advance of working alone on a project site.
	Hunting	Be familiar with the various game hunting seasons. Follow rules and guidelines for remaining visible to hunters.
		Try to plan work around active hunting seasons or daily peak hunting hours as warranted.

GZA GEOENVIRONMENTAL, INC.
JOB HAZARD ANALYSIS WORKSHEET

Job: Field Sampling

Analysis By: Christie Wagner	Reviewed By: Jayanti Chatterjee, CIH	Approved By: Jayanti Chatterjee, CIH
Date: November 4, 2011 Revised: July 12, 2012	Date: July 12, 2012	Date: July 12, 2012

Task 20.11
Field Sampling

HAZARD CONTROLS

GZA Job Tasks	Potential Hazards	Controls
Review Related THA's – 21.1 General Outdoor Field Work		
Pre work task for site visit	Adverse Weather Conditions	Assess weather conditions prior to on-site work and examine forecast for anticipated period of work.
		Dress appropriately for weather conditions (e.g., precipitation, temperature ranges over anticipated duration of field work).
		Use protective ointments such as sunscreen and chap stick, as appropriate to the field conditions.
		Be aware of the anticipated weather conditions prior to mobilization to the site. Unacceptable field work conditions are not precise, but may include site specific conditions, general location, extreme weather conditions (e.g., icing, lightening, excessive cold or wind), travel conditions, and other factors. Professional judgment is required, and personal assessment of safety must always be individually assessed.
Conduct visual inspection of site	Dangerous Terrain	Be aware of the site terrain, watch for holes and rocks that can be tripping hazards
		Learn to identify and watch for plants such as thorn bushes and poision ivy that can either scratch you or give you a rash.
Collecting sample	Muscle strain from lifting heavy objects	Use proper lifting techniques. Use appropriate mechanical assistance and tools when possible.
		Wear work gloves and steel toed boots.
	Exposure to unknown sample	Be sure to treat effluent samples as unknowns and wear the proper PPE.
		If there are any unusual odors/fumes coming from a sample, especially those that cause reactions in the eyes or nose, leave the area and inform a supervisor immediately.

New York State Department of Health
Generic Community Air Monitoring Plan

A Community Air Monitoring Plan (CAMP) requires real-time monitoring for volatile organic compounds (VOCs) and particulates (i.e., dust) at the downwind perimeter of each designated work area when certain activities are in progress at contaminated sites. The CAMP is not intended for use in establishing action levels for worker respiratory protection. Rather, its intent is to provide a measure of protection for the downwind community (i.e., off-site receptors including residences and businesses and on-site workers not directly involved with the subject work activities) from potential airborne contaminant releases as a direct result of investigative and remedial work activities. The action levels specified herein require increased monitoring, corrective actions to abate emissions, and/or work shutdown. Additionally, the CAMP helps to confirm that work activities did not spread contamination off-site through the air.

The generic CAMP presented below will be sufficient to cover many, if not most, sites. Specific requirements should be reviewed for each situation in consultation with NYSDOH to ensure proper applicability. In some cases, a separate site-specific CAMP or supplement may be required. Depending upon the nature of contamination, chemical-specific monitoring with appropriately-sensitive methods may be required. Depending upon the proximity of potentially exposed individuals, more stringent monitoring or response levels than those presented below may be required. Special requirements will be necessary for work within 20 feet of potentially exposed individuals or structures and for indoor work with co-located residences or facilities. These requirements should be determined in consultation with NYSDOH.

Reliance on the CAMP should not preclude simple, common-sense measures to keep VOCs, dust, and odors at a minimum around the work areas.

Community Air Monitoring Plan

Depending upon the nature of known or potential contaminants at each site, real-time air monitoring for volatile organic compounds (VOCs) and/or particulate levels at the perimeter of the exclusion zone or work area will be necessary. Most sites will involve VOC and particulate monitoring; sites known to be contaminated with heavy metals alone may only require particulate monitoring. If radiological contamination is a concern, additional monitoring requirements may be necessary per consultation with appropriate NYSDEC/NYSDOH staff.

Continuous monitoring will be required for all <u>ground intrusive</u> activities and during the demolition of contaminated or potentially contaminated structures. Ground intrusive activities include, but are not limited to, soil/waste excavation and handling, test pitting or trenching, and the installation of soil borings or monitoring wells.

Periodic monitoring for VOCs will be required during non-intrusive activities such as the collection of soil and sediment samples or the collection of groundwater samples from existing monitoring wells. "Periodic" monitoring during sample collection might reasonably consist of taking a reading upon arrival at a sample location, monitoring while opening a well cap or overturning soil, monitoring during well baling/purging, and taking a reading prior to leaving a sample location. In some instances, depending upon the proximity of potentially exposed individuals, continuous monitoring may be required during sampling activities. Examples of such situations include groundwater sampling at wells on the curb of a busy urban street, in the midst of a public park, or adjacent to a school or residence.

VOC Monitoring, Response Levels, and Actions

Volatile organic compounds (VOCs) must be monitored at the downwind perimeter of the immediate work area (i.e., the exclusion zone) on a **continuous** basis or as otherwise specified. Upwind concentrations should be measured at the start of each workday and periodically thereafter to establish background conditions. The monitoring work should be performed using equipment appropriate to measure the types of contaminants known or suspected to be present. The equipment should be calibrated at least daily for the contaminant(s) of concern or for an appropriate surrogate. The equipment should be capable of calculating 15-minute running average concentrations, which will be compared to the levels specified below.

- If the ambient air concentration of total organic vapors at the downwind perimeter of the work area or exclusion zone exceeds 5 parts per million (ppm) above background for the 15-minute average, work activities must be temporarily halted and monitoring continued. If the total organic vapor level readily decreases (per instantaneous readings) below 5 ppm over background, work activities can resume with continued monitoring.

- If total organic vapor levels at the downwind perimeter of the work area or exclusion zone persist at levels in excess of 5 ppm over background but less than 25 ppm, work activities must be halted, the source of vapors identified, corrective actions taken to abate emissions, and monitoring continued. After these steps, work activities can resume provided that the total organic vapor level 200 feet downwind of the exclusion zone or half the distance to the nearest potential receptor or residential/commercial structure, whichever is less - but in no case less than 20 feet, is below 5 ppm over background for the 15-minute average.

- If the organic vapor level is above 25 ppm at the perimeter of the work area, activities must be shutdown.

All 15-minute readings must be recorded and be available for State (DEC and DOH) personnel to review. Instantaneous readings, if any, used for decision purposes should also be recorded.

Particulate Monitoring, Response Levels, and Actions

Particulate concentrations should be monitored **continuously** at the upwind and downwind perimeters of the exclusion zone at temporary particulate monitoring stations. The particulate monitoring should be performed using real-time monitoring equipment capable of measuring particulate matter less than 10 micrometers in size (PM-10) and capable of integrating over a period of 15 minutes (or less) for comparison to the airborne particulate action level. The equipment must be equipped with an audible alarm to indicate exceedance of the action level. In addition, fugitive dust migration should be visually assessed during all work activities.

- If the downwind PM-10 particulate level is 100 micrograms per cubic meter (mcg/m^3) greater than background (upwind perimeter) for the 15-minute period or if airborne dust is observed leaving the work area, then dust suppression techniques must be employed. Work may continue with dust suppression techniques provided that downwind PM-10 particulate levels do not exceed 150 mcg/m^3 above the upwind level and provided that no visible dust is migrating from the work area.

- If, after implementation of dust suppression techniques, downwind PM-10 particulate levels are greater than 150 mcg/m^3 above the upwind level, work must be stopped and a re-evaluation of activities initiated. Work can resume provided that dust suppression measures and other controls are successful in reducing the downwind PM-10 particulate concentration to within 150 mcg/m^3 of the upwind level and in preventing visible dust migration.

All readings must be recorded and be available for State (DEC and DOH) personnel to review.

June 20, 2000

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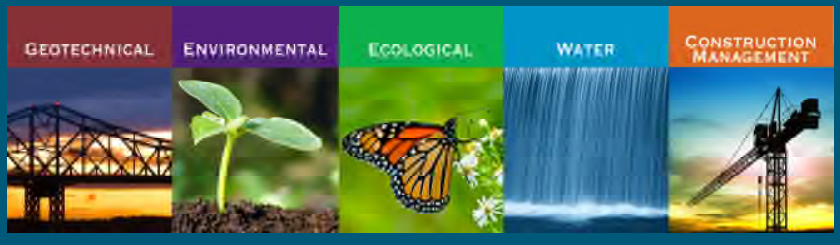

GZA GeoEnvironmental of New York