ENVIRONMENTAL HISTORY SUMMARY REPORT

Big Red Development Project

400 Erie Boulevard West
Syracuse, New York

Prepared for:
400 Erie Boulevard, LLC

Prepared by:
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6308 Fly Road
East Syracuse, New York 13057

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ATTACHMENTS

1.0 INTRODUCTION

The Asbestos & Environmental Consulting Corporation (AECC) performed limited soil sampling of the former Syracuse Cold Storage site located at 400 Erie Boulevard West in Syracuse, New York. The Site is a 0.9± acre parcel of land situated between Plum Street, Tracy Street, North West Street, and Erie Boulevard West (Tax ID #105.-12-01.1).

Historically, the Site supported a multi-story, multi-section brick cold storage building with a floor area of 143,176 square feet.

The current plan for redevelopment is a mixed-use commercial / residential building.

2.0 ENVIRONMENTAL HISTORY

2.1 HISTORICAL OPERATIONS

The following history of operators of the Site was compiled from a 1993 Phase I ESA prepared by Dames & Moore, 2002 Phase I ESA prepared by Napierala Consulting, a 2004 Phase I ESA prepared by Barton & Logudice, P.C. (B&L), historical Sanborn fire insurance maps, and Property Detail Reports provided on the Onondaga County real property website.

Year	Former Operators
1882	George H. McChesney Lumber Yard; Erie Canal towpath along southern property border
1892	Western portion is George H. McChesney Lumber Yard; eastern portion is Philip Schiller (wood turning and carpet shop)
1906	Western portion is George H. McChesney Lumber Yard; eastern portion is Onondaga Lithograph Company
1909	Syracuse Cold Storage Co commences operations
1911	Syracuse Ice Cream Co occupies western end of building; Syracuse Cold Storage Co occupies the remainder; railroad spur along northern property border
Early 1920s	Erie Canal is filled (to become Erie Boulevard West)
1993	Operations at the site included cold storage (milk and cheese), magazine distributor, sausage casing (Syracuse Casing), and fish processing (Statewide Foods)
1998	Cold storage operations ceased
1999	Site is abandoned

Since 2003, the Site has been owned by 400 Erie Boulevard, LLC.

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2.2 PHASE I ESAS

The 2004 Phase I ESA prepared by B&L revealed "seven (7) recognized environmental conditions associated with the property. Four of these conditions, the site floor drains, 55-gallon drums, on-site ammonia storage, and electrical transformers, have been previously identified in the prior ESAs and during B&L's June 2004 limited site reconnaissance. The additional recognized environmental conditions identified are related to a suspect fill port identified near the southeast corner of the warehouse, localized areas of petroleum-stained soils and general areas of historic industrial exposed site soils, and significant debris within the structure".

2.3 PHASE II ESA

In order to address the Recognized Environmental Conditions presented in the 2004 Phase I ESA, B&L conducted a Phase II ESA in 2004. The Phase II ESA concluded:

- Suspected fill port: The excavation in the vicinity of the suspected fill ports revealed that the structures were sewer clean-outs.
- Engine room sump pit: An unknown liquid was observed within the engine/boiler room sump pit. The pit is constructed of brick and measures approximately 7 feet deep and 3 feet in diameter. Approximately 3.75 feet of sediment had accumulated in the bottom of the pit. It appears that local groundwater levels may affect sump water levels. A sample of the liquid was collected and analyzed for volatile and semi-volatile organic compounds (VOCs and SVOCs). Although no specific compounds were detected, a pattern resembling lubricating oil was identified at a concentration of 2.1 parts-per-million (ppm).
- Floor drain investigation: The floor drains evaluated included those located in the engine room, food storage warehouses, and former sausage casing area. It was determined that these drains are connected to the municipal sewer.
- Waste Survey: Several Universal Wastes and potentially hazardous wastes (paints, solvents, etc.) were identified and quantified. Drums of oily sludge were observed within the mechanical room. It was noted that chlorofluorocarbons within refrigeration systems require decommissioning. The refrigeration systems in the mechanical room contain anhydrous ammonia and a brine fluid which may contain chromate.
- Site soils investigation: A total of nine borings were advanced throughout the Site, to a depth of 12-16 feet below grade. Groundwater was not observed in any of the borings. Three samples (B-4, B-6, and B-7) were submitted for laboratory analysis for volatile and semi-volatile organic compounds (VOCs and SVOCs). The laboratory analysis report revealed concentrations of SVOCs in excess of applicable Soil Cleanup Objectives (SCOs):

Soil sample collected by Barton & Loguidice, August 17, 2004 (Phase II ESA)

Compound	USCO	RRSCO	Boring B-7 (0.5-2')
Benzo[a]anthracene	1	1	***2.6***
Benzo[a]pyrene	1	1	***2.2***
Benzo[b]fluoranthene	1	1	***2.7***
Chrysene	1	3.9	***2.2***

All results presented in mg/kg (ppm)
Bold/Italics: Sample exceeds Unrestricted SCO (USCO)
Shaded: Sample exceeds Restricted Residential SCO (RRSCO)

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2.4 REMOVALS

At some point between 2004 to 2015, the following were decommissioned and/or removed from the Site:

- Three (or four, depending on the source) exterior pot-style electrical transformers apparently associated with a small former substation. AECC has not been provided documentation associated with their removal. A pad-mounted electrical switchbox remains at the Site.
- Drums of oily sludge observed within the mechanical room.
- Refrigeration systems containing chlorofluorocarbons.
- Refrigeration systems in the mechanical room that contained anhydrous ammonia and a brine fluid that may have contained chromate.

2.5 SAMPLING OF IMPORTED FILL

On March 10, 2015, the western portion of the building collapsed (due to snow load). Beginning on March 12, 2015, the City of Syracuse (City) directed emergency demolition services. The City retained Crisafulli Demolition Services (Crisafulli) to perform the subsequent demolition work. As part of the demolition work, the basement beneath the collapsed section required nearly 600 cubic yards of fill material to be imported from an off-site source. Crisafulli stated that the fill originated from a Housing Visions property (on Salina Street).

In May 2015, the assets of 400 Erie Boulevard, LLC were purchased by Mr. Bryan Bowers, and a new demolition contractor (Contento Contracting) completed the demolition of two more portions of the building. During a visit to the Site, Mr. Bowers noticed that the fill material that Crisafulli imported to the Site (as basement backfill on the western end) did not appear to be clean fill. The fill material appeared to be a very dark color, a “sludge” was present in the bottom of the excavation, and it generally did not exhibit characteristics of clean fill material.

In order to exhibit proper due diligence, the Owner had AECC collect a composite sample of the fill and sludge. Laboratory analysis of the sludge solids revealed that although an unidentified hydrocarbon was present at a concentration of 662 parts per million (ppm), no STARS-list VOCs of SVOCs were detected. During a discussion with the laboratory, the source of the hydrocarbon was determined to likely be the rotting wood particles that were present in the sludge.

Laboratory analysis of the fill revealed several SVOCs and metals were present in the fill, some of which exceeded applicable SCOs:

Soil samples collected by AECC, June 22, 2015 (potentially contaminated fill)

Compound	USCO	RRSCO	Fill (Composite)
Chromium, total	1/30*	110/180*	***32.9***
Lead	63	400	***174***
Indeno[1,2,3-cd]pyrene	0.5	0.5	***2.2***

All results presented in mg/kg (ppm)
* - The SCO for chromium is represented as "hexavalent chromium / trivalent chromium"
Bold/Italics: Sample exceeds USCO
Shaded: Sample exceeds RRSCO

In order to validate the results of AECC’s sampling event, the City of Syracuse retained C&S Companies (C&S) to collect soil samples. Due to the fact that the Site was considered a regulated asbestos work area at the time of the sampling event, C&S subcontracted the work to HSE Consulting Services, LLC (HSE). All parties agreed that the sampling should proceed in accordance with NYSDEC Commissioner’s Policy 51 (CP-51) protocols for sampling soil piles (3 composite samples, each

consisting of 3-5 grab samples). On July 22, 2015, HSE, C&S, AECC, and City representatives arrived at the Site. HSE and AECC proceeded to collect the required number of soil samples (which were later split between the firms). The results of this sampling event are presented below:

Composite soil samples collected by HSE, July 22, 2015 (RCRA 8 Metals analysis only)

Metal	USCO	RRSCO	HSE-DH72215-IFSC1	HSE-DH72215-IFSC2	HSE-DH72215-IFSC3
Cadmium	2.5	4.3	ND	***3.1***	0.41
Chromium, total	1/30*	110/180*	***25.4***	***21.9***	***34.7***
Lead	63	400	***113***	***105***	***99.6***

All results presented in mg/kg (ppm)
* - The SCO for chromium is represented as "hexavalent chromium / trivalent chromium"
Bold/Italics: Sample exceeds USCO
Shaded: Sample exceeds RRSCO

On September 3, 2015, AECC prepared a letter entitled "Summary of Events – Placement of Contaminated Fill", which was forwarded to the NYSDEC – Region 7 Regional Spill Engineer.

2.6 LIMITED SURFACE SOIL SAMPLING EVENT

The limited surface sampling event was undertaken to more clearly delineate previously identified contamination that exists on the site, and to collect data to assist with the application for the Site's entry into the State's Brownfield Cleanup Program.

The July 2021 surface soils investigation consisted of the collection and analysis of six grab samples along the perimeter of the site (see Figure 1). It was later determined that the four samples collected in the northern portion of the Site were actually most likely collected off-site, as City parcel data shows the northern property border is located near the northern wall of the subject building, instead of extending to the Tracy Street curb.

All six surface soil samples were collected beneath the vegetative layer (typically within the interval of approximately 0.5-1.5' bgs). The soil samples were collected under strict Chain of Custody and delivered to the Eurofins Service Center in Syracuse, New York.

Surface soils were typified by the presence of brown and grayish-brown coarse sand and fine gravel (topsoil), as well as debris typical of urban fill containing evidence of brick fragments and ash.

Specific SVOCs and metals exceeding their respective Restricted Residential and/or Unrestricted Use SCOs were detected in four of the six surface soil samples collected:

Compound	USCO	RRSCO	SS-01	SS-02	SS-03 (offsite)	SS-04 (offsite)	SS-05 (offsite)	SS-06 (offsite)
Benzo[a]anthracene	1	1	ND	***3.8***	***3.2***	***4.0***	ND	***4.9***
Benzo[a]pyrene	1	1	0.310	***3.5***	***3.0***	***3.6***	ND	***4.6***
Benzo[b]fluoranthene	1	1	0.470	***4.9***	***4.6***	***5.1***	ND	***6.0***
Benzo[k]fluoranthene	0.8	3.9	.150	***1.6***	***1.6***	***2.1***	ND	***2.1***
Chrysene	1	3.9	.380	***4.1***	***3.6***	***4.4***	ND	***4.7***
Dibenz[a,h]anthracene	0.33	0.33	ND	***0.78***	***0.79***	***0.92***	ND	***0.9***
Indeno[1,2,3-cd]pyrene	0.5	0.5	0.220	***2.4***	***2.3***	***2.7***	ND	***2.8***

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Compound	USCO	RRSCO	SS-01	SS-02	SS-03 (offsite)	SS-04 (offsite)	SS-05 (offsite)	SS-06 (offsite)
2-Methylnaphthalene	NS	0.41	ND	ND	***0.42***	***0.41***	ND	ND
Arsenic	13	16	3.2	10.4	***14.6***	***16.5***	2.9	2.9
Chromium, Total	1/30*	110/180 *	***17.5***	***39.3***	***14.0***	***14.3***	***8.9***	***16.5***
Copper	50	270	12.5	49.9	***84.9***	***76.4***	11.0	10.8
Lead	63	400	29.8	**478**	***400***	***183***	28.0	34.3
Mercury	0.18	0.81	0.030	**0.20**	***0.35***	***0.20***	0.024	0.059
Zinc	109	2200	39.4	**252**	***187***	***159***	33.6	50.2

All results presented in mg/kg (ppm)
* - The SCO for chromium is represented as "hexavalent chromium / trivalent chromium"
Bold: Sample exceeds USCO
Shaded: Sample exceeds RRSCO

3.0 CONCLUSIONS

AECC presents the following conclusions:

- The Site is a 0.9± acre parcel of land which historically supported a multi-story, multi-section brick cold storage building with a floor area of 143,176 square feet.
- The current plan for redevelopment is a mixed-use commercial / residential building.
- An unknown liquid was observed within the engine/boiler room sump pit. Although no specific compounds were detected in the liquid, a pattern resembling lubricating oil was identified at a concentration of 2.1 parts-per-million (ppm).
- At some point between 2004 to 2015, the drums and exterior pot-style electrical transformers were removed from the Site, and the refrigeration systems were decommissioned.
- Laboratory results show that SVOC and metals contamination is present in soils across the Site and extends off-site to the north. The on-site and off-site contamination appears to be consistent (same contaminants at relatively equal concentrations).
- The soils contamination appears to be related to both historical Site-wide poor-quality fill (as is typical throughout the City of Syracuse) and recent fill material imported to the Site in 2015.
- Due to the known metals and PAH contamination in Site soils, the Site appears to be a good candidate for acceptance within the New York State Brownfield Cleanup Program.

If you have any questions regarding this report, please contact our office. Thank you for the opportunity to work with you on this project.

Sincerely,
Asbestos & Environmental Consulting Corporation

Richard D. McKenna
Senior Project Manager

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Attachment A

Phase II Environmental Site Assessment (2004)

DRAFT

Phase II Environmental Site Investigation

For

Syracuse Cold Storage
400-430 Erie Boulevard West
Syracuse, New York

October 2004

Prepared For:

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I. Background

Barton & Loguidice, P.C. (B&L), was retained by SEFCU to conduct Phase II Site Investigation Services at the former Syracuse Cold Storage facility located at 400-430 Erie Boulevard West in Syracuse, New York. The environmental services included completion of a Phase I Environmental Site Assessment, and completion of Phase II Environmental Site Investigations including:

- Site soils investigation including surface and subsurface sampling
- Subsurface investigation of a suspected fill port
- Investigation of sump pit located in engine room
- Floor drain investigation
- Building demolition asbestos survey
- Universal waste survey

The scope of services associated with each task were detailed in two separate proposals to SEFCU, dated May 13, 2004 and July 19, 2004, and then summarized in a letter dated July 20, 2004.

II. Phase I Environmental Site Assessment

Task 1: Phase I ESA Summary

On June 22, 2004, B&L submitted a draft Phase I Environmental Site Assessment (Phase I ESA) to SEFCU. The Phase I ESA was conducted in general conformance with ASTM E 1527-00. The following recognized environmental conditions were identified at the site:

- Potential UST near southwest corner of site structure.
- Petroleum and chemical storage, including 55-gallon drums of unknown fluid staged at various locations within the structure.
- Petroleum-stained soil along south side of structure exterior.
- Interior drainage features including floor drains and boiler room sump pit, which contained an unknown fluid.
- Ammonia-based refrigeration system including liquid ammonia with the potential for chromates.
- Electric transformer station located along south side of site structure with potential for PCB contamination due to historic operations.
- General site debris including tow motor equipment and batteries.
- Putrescible food waste stored in the building.

Recommended Phase II investigations included a surface soils investigation at the location of the stained soil and in the vicinity of the transformer station, a subsurface soils investigation around the perimeter of the site structure, a subsurface investigation of the apparent fill port off the southwest corner of the site structure, and characterization of the unknown fluid observed in the boiler room sump pit.

The presence of floor drains in the site engine room had been previously identified, and a separate investigation had been originally proposed to determine the drain outfalls. Following identification of additional floor drains at other locations in the site structure during the Phase I ESA, the original Task 2 floor drain investigation scope of services was modified and incorporated into the recommended supplemental Phase II investigations outlined in the Phase I report.

III. Phase II Environmental Site Investigations

Task 2a: Revised Floor Drain Investigation

Site floor drains had been previously identified in reports completed by others. Detailed information was not available regarding the existing or historic drain outfalls; it was possible that the drains were currently connected to existing sewer lines but site plans did not supply enough detail to verify that each of the identified floor drains did not simply French-drain to the building perimeter. As described in the original May 2004 proposal, it was B&L's intent to conduct dye-testing on the floor drains to determine whether the site interior drains were connected to existing public sewer lines. After completion of the Phase I ESA, it was determined that dye-testing was not a viable option for evaluating the site floor drains because many of the floor drains were either damaged or blocked by debris. Based on the amount of debris covering the ground floor and basement floors of the site, it is likely that additional floor drains are present that are not readily accessible. Routing-out the identified floor drains was considered but then dismissed due to the complexity and life safety issues (unsafe structures) related to accessing some of the floor drain locations with the necessary equipment.

In order to define the concerns with floor drains in the building, B&L completed a detailed site reconnaissance that identified the location of visible interior floor drains and existing sewer connections outside the structure with County sewer connection maps (see figure 1). In addition, B&L assessed the facility operations known to have occurred in the areas where floor drains are present, to address the potential risk of historic discharge of petroleum or hazardous materials through these drains.

Of the operations known to have occurred in the building, it appears that floor drains in the engine room have the highest probability to have been impacted by materials of environmental concern.

Engine room floor drains were evaluated to verify that the drains were functioning and to determine whether any of the floor drains led directly to the boiler room sump. After clearing away surface debris, approximately 10-15 gallons of water was poured down three of the identified engine room floor drains. It was determined that these drains are functional but do not discharge to the sump. No obstructions were identified. The location of these drains suggests that they are connected to existing sewers north of the building. Based on the elevation of the drains and sewers, the drains flow by gravity.

Based on the equipment utilized in this room (compressors, and steam powered motors for the refrigerant systems), it is possible that lubricating oils and refrigerant fluids may have been historically discharged to these drains. It appears that these drains are connected to the Onondaga County sewer system (formerly operated by the City of Syracuse), and historic releases of oils are expected to have entered the sewer system. As reported below, no significant areas of site soil contamination were identified outside the building that identified an historic leach field or dry well area.

Floor drains in other areas of the building serviced food storage warehouses, including two identified drains in the lower basement level of the main cold storage warehouse and drains identified on the first floor in the former sausage casing production area. Based on the historic uses of these sections of the buildings, there is lower probability that these drains were subjected to materials of environmental concern. The site reconnaissance confirmed additional sewer connections leaving the structure in the vicinity of these rooms and drains. Based on the prior site use and presence of county sewers, and the results of the exterior soil investigation (see below), it is concluded that the presence of floor drains within the structure is not of significant environmental concern.

Task 2b: *Site Soils Investigation*

In order to assess the quality of soils on the site that may have been impacted by site operations or off-site sources in this long-standing industrial area of Syracuse, a surface and sub-surface soil investigation was scoped to investigate the potential for significant areas of concern outside the building. The soil investigation consisted of the collection of subsurface soils by direct push drill rig, and surface soils by backhoe, to define the potential for significant soil handling costs during site redevelopment.

B&L subcontracted Paragon Environmental Construction (PEC) to supply a mini-backhoe and a direct push drill rig to complete the surface soil and subsurface soil investigations at the site. On August 17, 2004, B&L and PEC installed nine borings around the perimeter of the site structure. Figure 1 depicts the approximate locations of the borings. Average borehole depths ranged from 12-16 feet, with the exception of B-7, which was completed to a depth of 2 feet to obtain a shallow soil sample near the transformer station. Groundwater was not encountered during the subsurface investigation, although a perched water table was identified associated with intermittent lenses of clay in the boreholes constructed along the north side of the site structure (B-1 through B-5).

PEC was unable to advance borings beyond a depth of approximately 18 inches along the south side of the site structure, near the loading docks located to the east of the engine room. Four attempts were made in this area, and in each case a concrete pad was encountered as the cause of boring refusal.

In two other borehole locations to the south and east of the transformer station (south side of building), large voids were identified from approximately 6-12 feet below the ground surface. The boreholes were relocated away from the void area. The voids appear to be related to utility corridor work along Erie Boulevard.

Subsurface soil samples were obtained in 4-ft intervals and field screened for the presence of organic compounds utilizing a photo-ionization detector (PID). The PID screening did not identify volatile compound concentrations in excess of 3 parts-per-million (background levels) for any of the site boreholes. Soil classifications ranged from a surface layer of artificial fill containing crushed rock and wood debris, to silty clays interspersed with sand layers.

Confirmation soil samples were submitted to Life Science Laboratories for analysis of EPA SW 8260 (volatile organics) and SW 8270 (semi-volatile organics) from boreholes B-4, B-6, and B-7. As shown on the attached table 1, no volatile compounds were identified in the soil samples submitted for analysis. Low-level concentrations of semi-volatile compounds were identified in borehole B-7, located immediately outside of the transformer station along the south side of the site structure. The concentrations were slightly elevated above TAGM 4046 standards. Table 2 provides a listing of the detected semi-volatile compounds compared to regulatory concentrations.

The soil sample from B-7, which was a shallow borehole located immediately adjacent to the transformer station, was also analyzed for PCB content. No PCBs were detected in the shallow sample retrieved from B-7. The laboratory analyses for all of the soil samples are included in attachment 3. De-commissioning of the existing transformers will require coordination with Niagara Mohawk. It is B&L's understanding that these units are owned by the utility. SEFCU is investigating the real estate ownership of the transformer enclosure.

The Phase I ESA identified stained soils near the loading docks along the north side of the site structure. On August 18, 2004, B&L evaluated the vertical and horizontal extent of the visible staining utilizing a mini-backhoe. The stained soils were limited to a localized area measuring approximately 3 feet by 3 feet in horizontal extent and did not extend to a depth greater than approximately 2-3 inches. The staining appeared de minimis in nature and may be related to discharge of automotive oils and

transmission fluid. Due to the small area of impact and shallow layer, no soil sample was collected for laboratory analysis. The quantity of petroleum hydrocarbon impacted soil at this location was less than 3 cubic feet.

Task 2c: Fill Port Investigation

Concurrent with the shallow soils investigation near the north loading docks, PEC utilized the mini-backhoe to excavate in the vicinity of the suspected fill port located off the southwest corner of the site building. The excavation revealed that the surface features suspected of being fill ports for an underground storage tank were sewer line clean-out ports, and not associated with an underground storage tank. No soil samples were collected and the excavated soils were replaced and graded to match the existing ground surface.

Task 2d: Sump Pit Investigation

At the time of the Phase I ESA, B&L identified a sump pit in the boiler room that contained an unknown liquid. On August 17, 2004, B&L retrieved a bulk sample of the liquid contents of the sump pit utilizing a disposable baler. The sample was submitted to LSL for analysis of SW 8260 (volatiles) and SW 8270 (semi-volatiles). Laboratory analysis indicated non-detectable levels of the tested compounds in the liquid sample. The laboratory results are summarized in the attached tables 3 and 4. LSL identified a pattern resembling lubricating oil present in the liquid sample at an estimated concentration of 2.1 milligrams per liter. A summary of the laboratory testing is included in attachment 3.

After receiving laboratory confirmation that the sump pit liquid contents were not a hazardous material, B&L returned to the site on September 7, 2004 to evaluate the sump pit construction for potential environmental impacts resulting from historic use. Using a 10-ft length of PVC piping, the bottom of the sump pit was probed to establish

total depth and to evaluate whether there were any outlets below the liquid level. The sump pit is constructed out of brick and measures approximately 7 feet deep and 3 feet in diameter. Approximately 3.75 feet of sediment has accumulated in the bottom of the sump pit. One small-diameter inlet pipe was identified entering the pit from the south side, and an outlet pipe is oriented generally along the east side of the pit, approximately 1-ft down from the concrete slab floor. The sump pit is situated directly behind the gas boilers and it appears that the pit may have collected blow-down water from the boiler operations. Observations of the liquid elevations in the sump pit during site visits indicates that the water table fluctuates from 2-3 inches below the outlet pipe intake, to 3-4 inches above the top of the outlet pipe fixture. Because the water level has been observed at elevations well above the outlet pipe, it is likely that the outlet pipe is partially obstructed.

B&L baled out the liquid sump pit contents so that only 2-3 inches of liquid remained on top of the sediment and the water level was approximately 8-10 inches below the intake of the outlet pipe. The water table did not noticeably recover over the course of the next 90 minutes. However, when B&L returned to the site approximately 48 hours later, the water level had recovered back to 3-4 inches above the outlet pipe fixture. Based on the fluctuations observed in the engine room sump pit, it's brick construction and age, it appears that local groundwater conditions may affect the sump water levels.

The discharge pipe in the sump has an inverted elbow fitting within the pit, which is typical of drain outlets. The discharge pipe is oriented towards the location of a sewer discharge pipe identified on County mapping and by the location of clean-out ports outside the structure. The sump appears to drain to the sewer.

No contaminants of concern were identified in the sump, which appears to have been used for the discharge of boiler blow-down, and boiler treatment system backwash. The boiler room does not appear to have been the historic location of

materials of concern. The existing boilers are fired by natural gas and previously may have been fired by coal. B&L observed no evidence of the presence of fuel oil tanks at the site related to the operation of the site boilers. Petroleum fuel would have been the most likely contaminant of this sump, but does not appear to have been used at the facility.

Although it remains possible that localized areas of soil contamination could exist surrounding the sump, no contaminants were identified in a sample of the sump fluid. Further investigations to confirm the sub-floor soil conditions do not appear warranted based on the site evidence evaluated to date. During site demolition this area can be further assessed, and soils handled as outlined for the general site soils impacted by low-level urban soil contaminants.

IV. Pre-Demolition Asbestos Survey

A pre-demolition asbestos survey has been completed for the building complex. The survey is presented in attachment 4. EPA and New York State Department of Labor regulations require that building owners assess a structure for asbestos prior to demolition.

Submittal of the survey to the City of Syracuse and the New York State DOL is required when obtaining a demolition permit. The regulations require the removal of identified asbestos prior to demolition. Variances can be obtained where building integrity does not allow safe removal prior to demolition.

The survey identified 64 different materials within the building suspected of containing asbestos. These materials included ceiling tiles, mastics, wallboard, heating insulation, boiler insulation, floor tiles, cork insulation mastic, roofing materials and drain pipes. 25 of the suspect materials were confirmed by laboratory analysis to contain asbestos. The survey report identifies the materials, their suspected location and quantity, and condition.

Since demolition and asbestos abatement are integral processes, the costs for abatement have been included in the building demolition cost estimates presented in the following section. It is recommended that asbestos abatement be included as part of the building demolition design and planning, prior to obtaining firm bids for demolition. Due to the condition of the structure, and the location and types of asbestos materials present, the removal of asbestos materials is not straightforward.

V. Building Waste Survey

Hazardous and Non-Hazardous Wastes

An investigation of the former Syracuse Cold Storage Building identified the presence of various wastes, which can be categorized as Universal Wastes, putrescible biodegradable wastes, and potentially hazardous wastes. The following table summarizes the materials observed in the building, approximate quantities and locations. Further determination of the classification of these materials will be required as part of the demolition design, and included as part of the demolition contract documents. The hazardous waste determination, handling and disposal of these materials will need to be made by a qualified contractor prior to building demolition.

Material	Approximate Quantity	Comments/Locations
Fluorescent light bulbs	<300 each	Throughout the building
Fluorescent ballasts	<150 each	Throughout the building
Thermostats and controls containing mercury	<30 pounds	Throughout the building
Waste oil containerized and in mechanical equipment	<500 gallons	Boiler room and adjacent mechanical rooms
Paints, solvents, degreasers, cleaning agents	<150 gallons	Throughout the building
Lead-acid batteries in tow motors	80-120 batteries	Basement, first and second floors
Refrigerant in ice machines and old refrigerators	15-20 each	Basement, first and second floors
Anhydrous Ammonia refrigerant	Approx. 400 gallons	Mechanical room
Boiler water treatment chemicals	<200 pounds	Boiler room
Unmarked drums of oily sludge	<400 gallons	Boiler room and adjacent mechanical rooms
Putrescible Wastes	Multiple pallets	First, Second and Third floors

Universal Wastes – Universal wastes are a regulated type of waste material (40 CFR Part 273 (Universal Waste)) consisting of fluorescent light bulbs, light ballasts, mercury containing equipment (thermostats, switches), small capacitors, and other miscellaneous wastes defined by statute that are exempted under this regulation from RCRA hazardous waste rules, and allow streamlined processing of these waste materials. These wastes are typically identified and removed from a structure during the demolition contract. Universal wastes were identified in the structure, as presented in the table above. The cost for removal of these materials is incorporated into the demolition cost estimates presented in the following section.

Waste Oils and Refrigerants – Drums of oily sludge in the mechanical room and oils contained within the compressor units will require characterization and disposal from the site. Chlorofluorocarbons within various refrigeration systems remaining in the building will also require decommissioning. The large refrigeration systems in the mechanical room contain anhydrous ammonia (a hazardous substance) and a brine fluid which is potentially contaminated with chromate. Both of these systems will require specialized handling and removal prior to demolition. Budgetary costs for the removal of these systems are presented in the demolition cost section.

Potentially Hazardous Materials – A smaller quantity of potentially hazardous waste materials (paints, solvents, etc.) were observed throughout the structure. These materials will be removed and characterized during the demolition project. If characterization indicates hazardous disposal is required, then the demolition contractor will handle the materials as required by state and federal law.

Putrescible Wastes – A fairly large amount of putrescible food products, previously stored in the cold storage areas of the building, remains. These materials are a vermin hazard as well as a biohazard, and will require removal with vermin control during demolition. The costs for handling these wastes are also presented in the demolition budget estimates.

ATTACHMENT 2

TABLES 1-4: Site Soils and Groundwater Analyses

TABLE 1
SYRACUSE COLD STORAGE FACILITY
SYRACUSE, NEW YORK
Summary of Qualified Soil Volatile Organics Data
Susurface Soil Boring Investigation

CAS NO.	PARAMETER	SOIL BORING SAMPLES (Results in ug/kg)			
		NYSDEC TAGM 4046* (ppb)	B-4 Depth 12-16' 8/17/04	B-6 (4-6) 8/17/04	B-7 Depth 0.5-2' 8/17/04
	Volatile Organics EPA Method 8260				
67-64-1	Acetone	**200**	<60	<10	<60
71-43-2	Benzene	**60 or MDL**	<30	<6	<30
78-93-3	2-Butanone	**300**	<60	<10	<60
75-15-0	Carbon Disulfide	**2,700**	<30	<6	<30
56-23-5	Carbon Tetrachloride	**600**	<30	<6	<30
108-90-7	Chlorobenzene	**1,700**	<30	<6	<30
75-00-3	Chloroethane	**1,900**	<30	<6	<30
67-66-3	Chloroform	**300**	<30	<6	<30
124-48-1	Dibromochloromethane	**10,000**	<30	<6	<30
95-50-1	1,2-Dichlorobenzene	**7,900**	<30	<6	<30
541-73-1	1,3-Dichlorobenzene	**1,600**	<30	<6	<30
106-46-7	1,4-Dichlorobenzene	**8,500**	<30	<6	<30
75-34-3	1, 1- Dichloroethane	**200**	<30	<6	<30
107-06-2	1, 2- Dichloroethane	**100**	<30	<6	<30
75-35-4	1, 1- Dichloroethene	**400**	<30	<6	<30
156-60-5	trans-1,2-Dichloroethene	**300**	<30	<6	<30
78-87-5	1,3-Dichloropropane	**300**	<30	<6	<30
100-41-4	Ethylbenzene	**5,500**	<30	<6	<30
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	**6,000**	<30	<6	<30
75-09-2	Methylene Chloride	**100**	<60	<10	<60
108-10-1	4-Methyl-2-pentanone	**1,000**	<60	<10	<60
127-18-4	Tetrachloroethene	**1,400**	<30	<6	<30
71-55-6	1, 1, 1 - Trichloroethane	**800**	<30	<6	<30
79-34-5	1,1,2,2-Tetrachloroethane	**600**	<30	<6	<30
96-18-4	1,2,3-Trichloropropane	**400**	<30	<6	<30
120-82-1	1,2,4-Trichlorobenzene	**3,400**	<30	<6	<30
108-88-3	Toluene	**1,500**	<30	<6	<30
79-01-6	Trichloroethene	**700**	<30	<6	<30
75-01-4	Vinyl Chloride	**200**	<30	<6	<30
1330-20-7	Total Xylenes	**1,200**	<30	<6	<30

Notes:

=Compound in exceedance of Soil Cleanup Objective.

MDL = Method Detection Limit.

* - As per TAGM 4046 Soil Cleanup Objectives.

TABLE 2
SYRACUSE COLD STORAGE FACILITY
SYRACUSE, NEW YORK
Summary of Qualified Soil Semi-volatile Organics Data
Susurface Soil Boring Investigation

CAS NO.	PARAMETER	SOIL BORING SAMPLES (Results in ug/kg)			
		NYSDEC TAGM 4046* (ppb)	B-4 Depth 12-16' 8/17/04	B-6 (4-6) 8/17/04	B-7 (4-5) 8/17/04
	Semi-Volatile Organics EPA Method 8270 TAGM List				
83-32-9	Acenaphthene	50,000	<2000	<2000	<2000
208-96-8	Acenaphthylene	41,000	<2000	<2000	<2000
62-53-3	Aniline	100	<4000	<4000	<4000
120-12-7	Anthracene	50,000	<4000	<2000	<2000
56-55-3	Benzo (a) anthracene	224 or MDL	<2000	<2000	2600
50-32-8	Benzo (a) pyrene	61 or MDL	<2000	<2000	2200
205-99-2	Benzo (b) flouranthene	1,100	<2000	<2000	2700
191-24-2	Benzo (ghi) perylene	50,000	<2000	<2000	<2000
207-08-9	Benzo (k) flouranthene	1,100	<2000	<2000	<2000
65-85-0	Benzoic Acid		<10000	<10000	<10000
117-81-7	Bis(2-ethylhexyl) Phthalate	50,000	<2000	<2000	<2000
85-68-7	Butyl Benzyl Phthalate	50,000	<2000	<2000	<2000
218-01-9	Chrysene	400	<2000	<2000	2200
106-47-8	4-Chloroaniline	220 or MDL	<2000	<2000	<2000
59-50-7	4-Chloro-3-methylphenol	240 or MDL	<2000	<2000	<2000
95-57-8	2-Chlorophenol	800	<2000	<2000	<2000
132-64-9	Dibenzofuran	6,200	<2000	<2000	<2000
53-70-3	Dibenzo (a,h) anthracene	14 or MDL	<2000	<2000	<2000
91-94-1	3,3'-Dichlorobenzidine	50,000	<4000	<4000	<4000
120-83-2	2,4-Dichlorophenol	400	<2000	<2000	<2000
51-28-5	2,4-Dinitrophenol	200 or MDL	<4000	<4000	<4000
606-20-2	2,6-Dinitrotoluene	1,000	<2000	<2000	<2000
84-66-2	Diethyl phthalate	7,100	<2000	<2000	<2000
131-11-3	Dimethyl phthalate	2,000	<2000	<2000	<2000
84-74-2	Di-n-butyl phthalate	8,100	<2000	<2000	<2000
117-84-0	Di-n-octyl phthalate	50,000	<2000	<2000	<2000
206-44-0	Flouranthene	50,000	<2000	<2000	4400
86-73-7	Flourene	50,000	<2000	<2000	<2000
118-74-1	Hexachlorobenzene	410	<2000	<2000	<2000
193-39-5	Indeno (1,2,3-cd) Pyrene	3,200	<2000	<2000	<2000
78-59-1	Isophorone	4,400	<2000	<2000	<2000
91-57-6	2-Methylnaphthalene	36,400	<2000	<2000	<2000
95-48-7	2-Methylphenol	100 or MDL	<2000	<2000	<2000
106-44-5	4-Methylphenol	900	<2000	<2000	<2000
91-20-3	Naphthalene	13,000	<2000	<2000	<2000
98-95-3	Nitrobenzene	200 or MDL	<2000	<2000	<2000
88-74-4	2-Nitroaniline	430 or MDL	<4000	<4000	<4000
88-75-5	2-Nitrophenol	330 or MDL	<2000	<2000	<2000
100-02-7	4-Nitrophenol	100 or MDL	<2000	<2000	<2000
99-09-2	3-Nitroaniline	500 or MDL	<4000	<4000	<4000
87-86-5	Pentachlorophenol	1,000 or MDL	<4000	<4000	<4000
85-01-8	Phenanthrene	50,000	<2000	<2000	3800
108-95-2	Phenol	30 or MDL	<2000	<2000	<2000
129-00-0	Pyrene	50,000	<2000	<2000	4200
95-95-4	2,4,5-Trichlorophenol	100	<2000	<2000	<2000

Notes:
=Compound in exceedance of Soil Cleanup Objective.
MDL = Method Detection Limit.
* - As per TAGM 4046 Soil Cleanup Objectives.

TABLE 3
SYRACUSE COLD STORAGE
Syracuse, New York
SUMMARY OF QUALIFIED GROUNDWATER VOLATILE ORGANICS DATA

CAS NO.	PARAMETER	ENGINE ROOM SUMP PIT (Results in ug/l)	
		GROUNDWATER STANDARDS (UG/L)	SUMP PIT 8/17/04
	Volatile Organics EPA Method 8260		
67-64-1	Acetone	[50]	<10
71-43-2	Benzene	0.7	<5
75-27-4	Bromodichloromethane	[50]	<5
75-25-2	Bromoform	[50]	<5
74-83-9	Bromomethane	5	<5
78-93-3	2-Butanone	[50]	<10
75-15-0	Carbon Disulfide	-	<5
56-23-5	Carbon Tetrachloride	5	<5
108-90-7	Chlorobenzene	5	<5
75-00-3	Chloroethane	5	<5
67-66-3	Chloroform	7	<5
74-87-3	Chloromethane	5	<5
124-48-1	Dibromochloromethane	[50]	<5
75-34-3	1, 1- Dichloroethane	5	<5
107-06-2	1, 2- Dichloroethane	0.6	<5
75-35-4	1, 1- Dichloroethene	5	<5
78-87-5	1, 2- Dichloropropane	1	<5
10061-01-5	cis-1, 3- Dichloropropene	0.4	<5
10061-02-6	trans-1,3-Dichloropropene	0.4	<5
100-41-4	Ethylbenzene	5	<5
591-78-6	2-Hexanone	[50]	<10
75-09-2	Methylene Chloride	5	<10
108-10-1	4-Methyl-2-pentanone	-	<10
100-42-5	Styrene	5	<5
79-34-5	1,1,2,2-Tetrachloroethane	5	<5
127-18-4	Tetrachloroethene	5	<5
108-88-3	Toluene	5	<5
71-55-6	1, 1, 1 - Trichloroethane	5	<5
79-00-5	1, 1, 2 - Trichloroethane	1	<5
79-01-6	Trichloroethene	5	<5
75-01-4	Vinyl Chloride	2	<5
1330-20-7	Total Xylenes	5	<5

Notes:
[redacted]=Compound in exceedance of NYSDEC Groundwater Standard.
MDL = Method Detection Limit.

TABLE 4
SYRACUSE COLD STORAGE
Syracuse , New York
SUMMARY OF QUALIFIED GROUNDWATER SEMI-VOLATIVE ORGANICS DATA

CAS NO.	PARAMETER	Engine Room Sump Pit	
		GROUNDWATER STANDARDS (UG/L)	SUMP PIT 8/17/04
	Semi-Volatile Organics EPA Method 8270		
83-32-9	Acenaphthene	[20]	<5
208-96-8	Acenaphthylene	-	<5
120-12-7	Anthracene	[50]	<5
56-55-3	Benzo (a) anthracene	-	<5
205-99-2	Benzo (b) flouranthene	[0.002]	<5
207-08-9	Benzo (k) flouranthene	[0.002]	<5
191-24-2	Benzo (ghi) perylene	[0.002]	<5
50-32-8	Benzo (a) pyrene	-	<5
101-55-3	4-Bromophenyl phenyl ether	[0.002]	<5
85-68-7	Butyl Benzyl Phthalate	[50]	<5
86-74-8	Carbazole	-	<5
106-47-8	4-Chloroaniline	5	<5
111-91-1	Bis(2-chloroethoxy) methane	5	<5
111-44-4	Bis(2-chloroethyl) ether	1	<5
91-58-7	2-Chloronaphthalene	[10]	<5
7005-72-3	4-Chlorophenyl phenyl ether	-	<5
218-01-9	Chrysene	[0.002]	<5
53-70-3	Dibenzo (a,h) anthracene	-	<5
132-64-9	Dibenzofuran	-	<5
84-74-2	Di-n-butyl phthalate	50	<5
95-50-1	1,2-Dichlorobenzene	3	<5
541-73-1	1,3-Dichlorobenzene	3	<5
106-46-7	1,4-Dichlorobenzene	3	<5
91-94-1	3,3'-Dichlorobenzidine	5	<10
84-66-2	Diethyl phthalate	[50]	<5
131-11-3	Dimethyl phthalate	[50]	<5
121-14-2	2,4-Dinitrotoluene	[5]	<5
606-20-2	2,6-Dinitrotoluene	5	<5
117-84-0	Di-n-octyl phthalate	[50]	<5
117-81-7	Bis(2-ethylhexyl) Phthalate	5	<5
206-44-0	Flouranthene	[50]	<5
86-73-7	Flourene	[50]	<5
118-74-1	Hexachlorobenzene	0.04	<5
87-68-3	Hexachlorobutadiene	0.5	<5
77-47-4	Hexachlorocyclopentadiene	5	<10
67-72-1	Hexachloroethane	5	<5
193-39-5	Indeno (1,2,3-cd) Pyrene	[0.002]	<5
78-59-1	Isophorone	[50]	<5
91-57-6	2-Methylnaphthalene	-	<5
91-20-3	Naphthalene	[10]	<5
88-74-4	2-Nitroaniline	5	<10
99-09-2	3-Nitroaniline	5	<10
100-01-6	4-Nitroaniline	5	<10
98-95-3	Nitrobenzene	0.4	<5
86-30-6	N-nitrosodiphenylamine	[50]	<5
621-64-7	N-Nitroso-Di-n-propylamine	[50]	<5
85-01-8	Phenanthrene	[50]	<5
120-82-1	1,2,4-Trichlorobenzene	5	<5
129-00-0	Pyrene	[50]	<5

Notes:
[redacted] =Compound in exceedance of NYSDEC Groundwater Standard.
MDL = Method Detection Limit.

ATTACHMENT 3

LABORATORY ANALYSES

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Barton & Loguidice, P.C.
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Laboratory Analysis Report

For

Barton & Loguidice, P.C.

Client Project ID:

SEFCU 890.002

LSL Project ID: **0414201**

Receive Date/Time: 08/17/04 17:33

Project Received by: GS

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This report was reviewed by: Linda Water QC **Date:** 8/25/04

Life Science Laboratories, Inc.

A copy of this report was sent to:

Date Printed: 8/25/04

-- LABORATORY ANALYSIS REPORT --

Barton & Loguidice, P.C. *Syracuse, NY*

Sample ID: Boiler Room Sump Pit **LSL Sample ID:** 0414201-001

Location:

Sampled: 08/17/04 14:00 **Sampled By:** DMJ

Sample Matrix: NPW

Analytical Method / Analyte	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
(1) EPA 8270 TCL Semi-Volatiles (B/N)					
Carbazole	<5	ug/l	8/20/04	8/25/04	CRT
4-Chloroaniline	<5	ug/l	8/20/04	8/25/04	CRT
bis(2-Chloroethoxy)methane	<5	ug/l	8/20/04	8/25/04	CRT
bis(2-Chloroethyl)ether	<5	ug/l	8/20/04	8/25/04	CRT
2-Chloronaphthalene	<5	ug/l	8/20/04	8/25/04	CRT
4-Chlorophenyl-phenylether	<5	ug/l	8/20/04	8/25/04	CRT
Chrysene	<5	ug/l	8/20/04	8/25/04	CRT
Dibenz(a,h)anthracene	<5	ug/l	8/20/04	8/25/04	CRT
Dibenzofuran	<5	ug/l	8/20/04	8/25/04	CRT
Di-n-butylphthalate	<5	ug/l	8/20/04	8/25/04	CRT
1,2-Dichlorobenzene	<5	ug/l	8/20/04	8/25/04	CRT
1,3-Dichlorobenzene	<5	ug/l	8/20/04	8/25/04	CRT
1,4-Dichlorobenzene	<5	ug/l	8/20/04	8/25/04	CRT
3,3'-Dichlorobenzidine	<10	ug/l	8/20/04	8/25/04	CRT
Diethylphthalate	<5	ug/l	8/20/04	8/25/04	CRT
Dimethylphthalate	<5	ug/l	8/20/04	8/25/04	CRT
2,4-Dinitrotoluene	<5	ug/l	8/20/04	8/25/04	CRT
2,6-Dinitrotoluene	<5	ug/l	8/20/04	8/25/04	CRT
Di-n-octylphthalate	<5	ug/l	8/20/04	8/25/04	CRT
bis(2-Ethylhexyl)phthalate	<5	ug/l	8/20/04	8/25/04	CRT
Fluoranthene	<5	ug/l	8/20/04	8/25/04	CRT
Fluorene	<5	ug/l	8/20/04	8/25/04	CRT
Hexachlorobenzene	<5	ug/l	8/20/04	8/25/04	CRT
Hexachlorobutadiene	<5	ug/l	8/20/04	8/25/04	CRT
Hexachlorocyclopentadiene	<10	ug/l	8/20/04	8/25/04	CRT
Hexachloroethane	<5	ug/l	8/20/04	8/25/04	CRT
Indeno(1,2,3-c,d)pyrene	<5	ug/l	8/20/04	8/25/04	CRT
Isophorone	<5	ug/l	8/20/04	8/25/04	CRT
2-Methylnaphthalene	<5	ug/l	8/20/04	8/25/04	CRT
Naphthalene	<5	ug/l	8/20/04	8/25/04	CRT
2-Nitroaniline	<10	ug/l	8/20/04	8/25/04	CRT
3-Nitroaniline	<10	ug/l	8/20/04	8/25/04	CRT
4-Nitroaniline	<10	ug/l	8/20/04	8/25/04	CRT
Nitrobenzene	<5	ug/l	8/20/04	8/25/04	CRT
N-Nitrosodiphenylamine	<5	ug/l	8/20/04	8/25/04	CRT
N-Nitroso-di-n-propylamine	<5	ug/l	8/20/04	8/25/04	CRT
Phenanthrene	<5	ug/l	8/20/04	8/25/04	CRT
1,2,4-Trichlorobenzene	<5	ug/l	8/20/04	8/25/04	CRT
Pyrene	<5	ug/l	8/20/04	8/25/04	CRT
Surrogate (Nitrobenzene-d5)	78	%R	8/20/04	8/25/04	CRT
Surrogate (2-Fluorobiphenyl)	77	%R	8/20/04	8/25/04	CRT
Surrogate (Terphenyl-d14)	85	%R	8/20/04	8/25/04	CRT

A pattern resembling Lubricating Oil is present at an estimated amount of 2.1mg/l.

SURROGATE RECOVERY CONTROL LIMITS FOR ORGANIC METHODS

Method	Surrogate(s)	Water Limits, %R	SHW Limits, %R
EPA 504	TCMX	80-120	NA
EPA 508	DCB	70-130	NA
EPA 515.4	DCAA	70-130	NA
EPA 524.2	1,2-DCA-d4, 4-BFB	80-120	NA
EPA 525.2	1,3-DM-2-NB, TPP, Per-d12	70-130	NA
EPA 526	1,3-DM-2-NB, TPP	70-130	NA
EPA 528	2-CP-3,4,5,6-d4, 2,4,6-TBP	70-130	NA
EPA 551.1	Decafluorobiphenyl	80-120	NA
EPA 552.2	2,3-DBPA	80-120	NA
EPA 601	1,2-DCA-d4, Tol-d8, 4-BFB	70-130	NA
EPA 602	1,2-DCA-d4, Tol-d8, 4-BFB	70-130	NA
EPA 608	DCB	30-150	NA
EPA 624	1,2-DCA-d4, Tol-d8, 4-BFB	70-130	NA
EPA 625, AE	2-Fluorophenol	21-110	NA
EPA 625, AE	Phenol-d5	10-110	NA
EPA 625, AE	2,4,6-Tribromophenol	10-123	NA
EPA 625, BN	Nitrobenzene-d5	35-114	NA
EPA 625, BN	2-Fluorobiphenyl	43-116	NA
EPA 625, BN	Terphenyl-d14	33-141	NA
EPA 8010	1,2-DCA-d4, Tol-d8, 4-BFB	70-130	70-130
EPA 8020	1,2-DCA-d4, Tol-d8, 4-BFB	70-130	70-130
EPA 8021	1,2-DCA-d4, Tol-d8, 4-BFB	70-130	70-130
EPA 8081	TCMX, DCB	30-150	30-150
EPA 8082	DCB	30-150	30-150
EPA 8151	DCAA	30-130	30-120
EPA 8260	1,2-DCA-d4, Tol-d8, 4-BFB	70-130	70-130
EPA 8270, AE	2-Fluorophenol	21-110	25-121
EPA 8270, AE	Phenol-d5	10-110	24-113
EPA 8270, AE	2,4,6-Tribromophenol	10-123	19-122
EPA 8270, BN	Nitrobenzene-d5	35-114	23-120
EPA 8270, BN	2-Fluorobiphenyl	43-116	30-115
EPA 8270, BN	Terphenyl-d14	33-141	18-137
DOH 310-13	Dodecane	40-110	40-110
DOH 310-14	Dodecane	40-110	40-110
DOH 310-15	Dodecane	40-110	40-110
DOH 310-34*	4-BFB	50-150	50-150
8015M_GRO*	4-BFB	50-150	50-150
8015M_DRO	Terphenyl-d14	50-150	50-150

*Run by GC/MS.

Units Key:	ug/l = microgram per liter ug/kg = microgram per kilogram mg/l = milligram per liter mg/kg = milligram per kilogram %R = Percent Recovery

Life Science Laboratories, Inc.

CHAIN OF CUSTODY RECORD

LSL Central Lab
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LSL Finger l
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Wayland, N.
Phone: (585,
Fax: (585)728-2711

n Tier Lab
St.
727
Phone: (585)968-2640
Fax: (585)968-0906

Report Address:
Name: Darik M. Jordan
Company: Barton and Loguidice, P.C.
Street: 290 Elwood Davis Road
City/State: Syracuse NY Zip: 13220
Phone: 315 457-5200 Fax: 315-451-0052
Email:

Turnaround Time

Normal	Pre-Authorized			
14 DAY [X]	Next Day* [ ]	3-Day * [ ]	*Additional Charges may apply
	2-Day * [ ]	7-Day* [ ]	

Date Needed or Special Instructions:

Authorization or P.O. #

LSL Project Number:

Client Project ID/Client Site ID
SEFCU 890.002

Client's Sample Identifications	Sample Date	Sample Time	Type grab/comp	Matrix	Preserv Added	Containers #	Containers size/type	Analyses	Preserv Check	LSL ID#
Boiler Room Sump Pit	8/17/04	14:00	Grab	H_2O	None	1	Glass	8260/8270 - Full List		001

LSL use only:
Client is aware that 8260 should come out of separate sample with no headspace. Analyze out of this liter for OK per Darik. J.
Containers this C-O-C

Custody Transfers

		Date	Time
Sampled By: Darik M. Jordan	Received By:		
Relinquished By:	Received By:		
Relinquished By:	Rec'd for Lab By:	08-17-04	17:33 RCVD
Shipment Method:	Received Intact: Y N	Sample Temp	

*** All areas of this Chain of Custody Record MUST be filled out in order to process samples in a timely manner IN PEN ONLY***

TS 8-17-04

Reg COC

LSL

John A. Benson
Barton & Loguidice, P.C.
290 Elwood Davis Road
Box 3107
Syracuse, NY 13220

Phone: (315) 457-5200
FAX: (315) 451-0052

Laboratory Analysis Report

For

Barton & Loguidice, P.C.

Client Project ID:

SEFCU 890.002

LSL Project ID: **0414201**

Receive Date/Time: 08/17/04 17:33

Project Received by: GS

Life Science Laboratories, Inc.

LSL Central Lab
5854 Butternut Drive
East Syracuse, NY 13057
Tel. (315) 445-1105
Fax (315) 445-1301
NYS DOH ELAP #10248
PA DEP #68-2556

LSL North Lab
131 St. Lawrence Avenue
Waddington, NY 13694
Tel. (315) 388-4476
Fax (315) 388-4061
NYS DOH ELAP #10900

LSL Finger Lakes Lab
16 N. Main St., PO Box 424
Wayland, NY 14572
Tel. (585) 728-3320
Fax (585) 728-2711
NYS DOH ELAP #11667

LSL Southern Tier Lab
30 East Main Street
Cuba, NY 14727
Tel. (585) 968-2640
Fax (585) 968-0906
NYS DOH ELAP #10760

LSL MidLakes Lab
699 South Main Street
Canandaigua, NY 14424
Tel. (585) 396-0270
Fax (585) 396-0377
NYS DOH ELAP #11369

This report was reviewed by: Yolanda Watson QC *Date:* 8/25/04

Life Science Laboratories, Inc.

A copy of this report was sent to:

Date Printed: 8/25/04

-- LABORATORY ANALYSIS REPORT --

Barton & Loguidice, P.C. *Syracuse, NY*

Sample ID: Boiler Room Sump Pit **LSL Sample ID:** 0414201-001

Location:

Sampled: 08/17/04 14:00 **Sampled By:** DMJ

Sample Matrix: NPW

Analytical Method / Analyte	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
(1) EPA 8260B TCL Volatiles					
Acetone	<10	ug/l		8/19/04	LEF
Benzene	<5	ug/l		8/19/04	LEF
Bromodichloromethane	<5	ug/l		8/19/04	LEF
Bromoform	<5	ug/l		8/19/04	LEF
Bromomethane	<5	ug/l		8/19/04	LEF
2-Butanone (MEK)	<10	ug/l		8/19/04	LEF
Carbon disulfide	<5	ug/l		8/19/04	LEF
Carbon tetrachloride	<5	ug/l		8/19/04	LEF
Chlorobenzene	<5	ug/l		8/19/04	LEF
Chloroethane	<5	ug/l		8/19/04	LEF
Chloroform	<5	ug/l		8/19/04	LEF
Chloromethane	<5	ug/l		8/19/04	LEF
Dibromochloromethane	<5	ug/l		8/19/04	LEF
1,1-Dichloroethane	<5	ug/l		8/19/04	LEF
1,2-Dichloroethane	<5	ug/l		8/19/04	LEF
1,1-Dichloroethene	<5	ug/l		8/19/04	LEF
1,2-Dichloroethene, Total	<5	ug/l		8/19/04	LEF
1,2-Dichloropropane	<5	ug/l		8/19/04	LEF
cis-1,3-Dichloropropene	<5	ug/l		8/19/04	LEF
trans-1,3-Dichloropropene	<5	ug/l		8/19/04	LEF
Ethyl benzene	<5	ug/l		8/19/04	LEF
2-Hexanone	<10	ug/l		8/19/04	LEF
Methylene chloride	<10	ug/l		8/19/04	LEF
4-Methyl-2-pentanone (MIBK)	<10	ug/l		8/19/04	LEF
Styrene	<5	ug/l		8/19/04	LEF
1,1,2,2-Tetrachloroethane	<5	ug/l		8/19/04	LEF
Tetrachloroethene	<5	ug/l		8/19/04	LEF
Toluene	<5	ug/l		8/19/04	LEF
1,1,1-Trichloroethane	<5	ug/l		8/19/04	LEF
1,1,2-Trichloroethane	<5	ug/l		8/19/04	LEF
Trichloroethene	<5	ug/l		8/19/04	LEF
Vinyl chloride	<5	ug/l		8/19/04	LEF
Xylenes (Total)	<5	ug/l		8/19/04	LEF
Surrogate (1,2-DCA-d4)	99	%R		8/19/04	LEF
Surrogate (Tol-d8)	99	%R		8/19/04	LEF
Surrogate (4-BFB)	102	%R		8/19/04	LEF
(1) EPA 8270 TCL Semi-Volatiles (B/N)					
Acenaphthene	<5	ug/l	8/20/04	8/25/04	CRT
Acenaphthylene	<5	ug/l	8/20/04	8/25/04	CRT
Anthracene	<5	ug/l	8/20/04	8/25/04	CRT
Benzo(a)anthracene	<5	ug/l	8/20/04	8/25/04	CRT
Benzo(b)fluoranthene	<5	ug/l	8/20/04	8/25/04	CRT
Benzo(k)fluoranthene	<5	ug/l	8/20/04	8/25/04	CRT
Benzo(ghi)perylene	<5	ug/l	8/20/04	8/25/04	CRT
Benzo(a)pyrene	<5	ug/l	8/20/04	8/25/04	CRT
4-Bromophenyl-phenylether	<5	ug/l	8/20/04	8/25/04	CRT
Butylbenzylphthalate	<5	ug/l	8/20/04	8/25/04	CRT

Life Science Laboratories, Inc. **Date Printed:** 8/25/04

Analysis performed at: *(1) LSL Central, (2) LSL North, (3) LSL Finger Lakes, (4) LSL Southern Tier, (5) LSL MidLakes*

-- LABORATORY ANALYSIS REPORT --

Barton & Loguidice, P.C. *Syracuse, NY*

Sample ID: Boiler Room Sump Pit **LSL Sample ID:** 0414201-001

Location:

Sampled: 08/17/04 14:00 **Sampled By:** DMJ

Sample Matrix: NPW

Analytical Method / Analyte	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
(1) EPA 8270 TCL Semi-Volatiles (B/N)					
Carbazole	<5	ug/l	8/20/04	8/25/04	CRT
4-Chloroaniline	<5	ug/l	8/20/04	8/25/04	CRT
bis(2-Chloroethoxy)methane	<5	ug/l	8/20/04	8/25/04	CRT
bis(2-Chloroethyl)ether	<5	ug/l	8/20/04	8/25/04	CRT
2-Chloronaphthalene	<5	ug/l	8/20/04	8/25/04	CRT
4-Chlorophenyl-phenylether	<5	ug/l	8/20/04	8/25/04	CRT
Chrysene	<5	ug/l	8/20/04	8/25/04	CRT
Dibenz(a,h)anthracene	<5	ug/l	8/20/04	8/25/04	CRT
Dibenzofuran	<5	ug/l	8/20/04	8/25/04	CRT
Di-n-butylphthalate	<5	ug/l	8/20/04	8/25/04	CRT
1,2-Dichlorobenzene	<5	ug/l	8/20/04	8/25/04	CRT
1,3-Dichlorobenzene	<5	ug/l	8/20/04	8/25/04	CRT
1,4-Dichlorobenzene	<5	ug/l	8/20/04	8/25/04	CRT
3,3'-Dichlorobenzidine	<10	ug/l	8/20/04	8/25/04	CRT
Diethylphthalate	<5	ug/l	8/20/04	8/25/04	CRT
Dimethylphthalate	<5	ug/l	8/20/04	8/25/04	CRT
2,4-Dinitrotoluene	<5	ug/l	8/20/04	8/25/04	CRT
2,6-Dinitrotoluene	<5	ug/l	8/20/04	8/25/04	CRT
Di-n-octylphthalate	<5	ug/l	8/20/04	8/25/04	CRT
bis(2-Ethylhexyl)phthalate	<5	ug/l	8/20/04	8/25/04	CRT
Fluoranthene	<5	ug/l	8/20/04	8/25/04	CRT
Fluorene	<5	ug/l	8/20/04	8/25/04	CRT
Hexachlorobenzene	<5	ug/l	8/20/04	8/25/04	CRT
Hexachlorobutadiene	<10	ug/l	8/20/04	8/25/04	CRT
Hexachlorocyclopentadiene	<5	ug/l	8/20/04	8/25/04	CRT
Hexachloroethane	<5	ug/l	8/20/04	8/25/04	CRT
Indeno(1,2,3-c,d)pyrene	<5	ug/l	8/20/04	8/25/04	CRT
Isophorone	<5	ug/l	8/20/04	8/25/04	CRT
2-Methylnaphthalene	<5	ug/l	8/20/04	8/25/04	CRT
Naphthalene	<10	ug/l	8/20/04	8/25/04	CRT
2-Nitroaniline	<10	ug/l	8/20/04	8/25/04	CRT
3-Nitroaniline	<10	ug/l	8/20/04	8/25/04	CRT
4-Nitroaniline	<5	ug/l	8/20/04	8/25/04	CRT
Nitrobenzene	<5	ug/l	8/20/04	8/25/04	CRT
N-Nitrosodiphenylamine	<5	ug/l	8/20/04	8/25/04	CRT
N-Nitroso-di-n-propylamine	<5	ug/l	8/20/04	8/25/04	CRT
Phenanthrene	<5	ug/l	8/20/04	8/25/04	CRT
1,2,4-Trichlorobenzene	<5	ug/l	8/20/04	8/25/04	CRT
Pyrene	78	%R	8/20/04	8/25/04	CRT
Surrogate (Nitrobenzene-d5)	77	%R	8/20/04	8/25/04	CRT
Surrogate (2-Fluorobiphenyl)	85	%R	8/20/04	8/25/04	CRT
Surrogate (Terphenyl-d14)					

A pattern resembling Lubricating Oil is present at an estimated amount of 2.1mg/l.

Life Science Laboratories, Inc. **Date Printed:** 8/25/04

Analysis performed at: *(1) LSL Central, (2) LSL North, (3) LSL Finger Lakes, (4) LSL Southern Tier, (5) LSL MidLakes*

SURROGATE RECOVERY CONTROL LIMITS FOR ORGANIC METHODS

Method	Surrogate(s)	Water Limits, %R	SHW Limits, %R
EPA 504	TCMX	80-120	NA
EPA 508	DCB	70-130	NA
EPA 515.4	DCAA	70-130	NA
EPA 524.2	1,2-DCA-d4, 4-BFB	80-120	NA
EPA 525.2	1,3-DM-2-NB, TPP, Per-d12	70-130	NA
EPA 526	1,3-DM-2-NB, TPP	70-130	NA
EPA 528	2-CP-3,4,5,6-d4, 2,4,6-TBP	70-130	NA
EPA 551.1	Decafluorobiphenyl	80-120	NA
EPA 552.2	2,3-DBPA	80-120	NA
EPA 601	1,2-DCA-d4, Tol-d8, 4-BFB	70-130	NA
EPA 602	1,2-DCA-d4, Tol-d8, 4-BFB	70-130	NA
EPA 608	DCB	30-150	NA
EPA 624	1,2-DCA-d4, Tol-d8, 4-BFB	70-130	NA
EPA 625, AE	2-Fluorophenol	21-110	NA
EPA 625, AE	Phenol-d5	10-110	NA
EPA 625, AE	2,4,6-Tribromophenol	10-123	NA
EPA 625, BN	Nitrobenzene-d5	35-114	NA
EPA 625, BN	2-Fluorobiphenyl	43-116	NA
EPA 625, BN	Terphenyl-d14	33-141	NA
EPA 8010	1,2-DCA-d4, Tol-d8, 4-BFB	70-130	70-130
EPA 8020	1,2-DCA-d4, Tol-d8, 4-BFB	70-130	70-130
EPA 8021	1,2-DCA-d4, Tol-d8, 4-BFB	70-130	70-130
EPA 8081	TCMX, DCB	30-150	30-150
EPA 8082	DCB	30-150	30-150
EPA 8151	DCAA	30-130	30-120
EPA 8260	1,2-DCA-d4, Tol-d8, 4-BFB	70-130	70-130
EPA 8270, AE	2-Fluorophenol	21-110	25-121
EPA 8270, AE	Phenol-d5	10-110	24-113
EPA 8270, AE	2,4,6-Tribromophenol	10-123	19-122
EPA 8270, BN	Nitrobenzene-d5	35-114	23-120
EPA 8270, BN	2-Fluorobiphenyl	43-116	30-115
EPA 8270, BN	Terphenyl-d14	33-141	18-137
DOH 310-13	Dodecane	40-110	40-110
DOH 310-14	Dodecane	40-110	40-110
DOH 310-15	Dodecane	40-110	40-110
DOH 310-34*	4-BFB	50-150	50-150
8015M_GRO*	4-BFB	50-150	50-150
8015M_DRO	Terphenyl-d14	50-150	50-150

*Run by GC/MS.

Units Key:	ug/l = microgram per liter ug/kg = microgram per kilogram mg/l = milligram per liter mg/kg = milligram per kilogram %R = Percent Recovery

Life Science Laboratories, Inc.

CHAIN OF CUSTODY RECORD

LSL

0414201

LSL Central Lab	LSL North Lab	LSL Finger I	h Tier Lab
5854 Butternut Drive	131 St. Lawrence Ave.	16 N. Main S	St.
E. Syracuse, N.Y. 13057	Waddington, N.Y. 13694	Wayland, N.Y	727
Phone: (315)445-1105	Phone: (315)388-4476	Phone: (585,	Phone: (585)968-2640
Fax: (315)445-1301	Fax: (315)388-4061	Fax: (585)728-2711	Fax: (585)968-0906

Report Address:
Name: Darik M. Jordan
Company: Barton and Loguidice, P.C.
Street: 290 Elwood Davis Road
City/State: Syracuse NY Zip: 13220
Phone: 315 457-5200 Fax: 315-451-0052
Email:

Turnaround Time
Normal 14 DAY [X] | Pre-Authorized: Next Day* [ ] 3-Day* [ ] 2-Day* [ ] 7-Day* [ ] | *Additional Charges may apply

Date Needed or Special Instructions:

Authorization or P.O. #

Client Project ID/Client Site ID
SEFCU 890.002

LSL Project Number

Client's Sample Identifications	Sample Date	Sample Time	Type grab/comp	Matrix	Preserv Added	Containers #	Containers size/type	Analyses	Preserv Check	LSL ID#
Boiler Room Sump Pit	8/17/04	14:00	Grab	H_2O	None	1	glass	8260/8270 - Full List		001

LSL use only:
Client is aware that 8260 should come out of separate sample with no headspace. Analyze out of this 1 liter jar OK per Darik J.-
Containers this C-O-C

Custody Transfers		Date	Time
Sampled By: Darik M. Jordan	Received By:		
Relinquished By:	Received By:		
Relinquished By: [signature]	Rec'd for Lab By: [signature]	08-17-04	17:33 RCVD
Shipment Method:	Received Intact: Y N	Sample Temp	

*** All areas of this Chain of Custody Record MUST be filled out in order to process samples in a timely manner IN PEN ONLY***

TS 8-17-04

Reg COC

10.7°

08/25/2004 WED 16:24 [TX/RX NO 9149]

Attachment B

Summary of Events - Placement of Contaminated Fill (2015)

September 3, 2015

Mr. Richard Brazell
Regional Spill Engineer
NYSDEC – Region 7
615 Erie Boulevard West
Syracuse, New York 13204

RE: Summary of Events – Placement of Contaminated Fill
400 Erie Boulevard West, Syracuse, New York
AECC Project Number: 15-153

Dear Mr. Brazell:

As per your request, the Asbestos & Environmental Consulting Corporation (AECC) is providing this letter summarizing the sequence of events related to the placement of contaminated fill at 400 Erie Boulevard West, in the City of Syracuse, New York (hereby referred to as the Site).

PROPERTY SUMMARY

- The Site is a 0.9± acre parcel of land situated between Plum Street, Tracy Street, North West Street, and Erie Boulevard West (Tax ID #105.-12-01.1).
- The Site supported a multi-story, brick structure with a floor area of 143,176 square feet (SF). The original section of the building was constructed in 1903.
- Since 2003, the Site was owned by 400 Erie Blvd LLC.
- On March 10, 2015, the western portion of the building collapsed (due to snow load).
- Beginning on March 12, 2015, the City of Syracuse (City) directed emergency demolition services. The City retained Crisafulli Demolition Services (Crisafulli) to perform the subsequent demolition work.
- As part of the demolition work, the basement beneath the collapsed section required nearly 600 cubic yards of fill material to be imported from an off-site source. Crisafulli has stated that the fill originated from a Housing Visions property (on Salina Street).
- In May 2015, the property was purchased (new owner – Bryan Bowers) and a new demolition contractor (Contento Contracting) completed the demolition of two more portions of the building.

Asbestos & Environmental Consulting Corp. ~ 6308 Fly Road, East Syracuse, NY 13057 ~ (315) 432-9400 ~ (315) 432-9405 fax

PRELIMINARY SCREENING OF FILL MATERIAL

See the attached Tables 1 and 2 for a summary of analytical results associated with the preliminary screening of fill material, and Appendix A for the associated Laboratory Analytical Report.

- During a visit to the Site, Mr. Bowers (Owner) noticed that the fill material that Crisafulli imported to the Site (as basement backfill on the western end) did not appear to be clean fill. The fill material appeared to be a very dark color, a "sludge" was present in the bottom of the excavation, and it generally did not exhibit characteristics of clean fill material.

- In order to exhibit proper due diligence, the Owner had AECC collect a composite sample of the fill. The sample was delivered to Spectrum Analytical, Inc. (Spectrum) for SW-846 analysis of RCRA-8 Metals, STARS-list volatile organic compounds (VOCs), base-neutral semi-volatile organic compounds (SVOCs), and polychlorinated biphenyls (PCBs). AECC also collected a grab sample of the sludge. The sludge sample was delivered to Spectrum for analysis of STARS-list VOCs, STARS-list SVOCs, and total petroleum hydrocarbons (TPH).

- Laboratory analysis of the sludge solids revealed that although an unidentified hydrocarbon was present at a concentration of 662 parts per million (ppm), no STARS-list VOCs of SVOCs were detected. During a discussion with the laboratory, the source of the hydrocarbon was determined to likely be the rotting wood particles that were present in the sludge.

- Laboratory analysis of the fill revealed several SVOCs and metals were present in the fill. The SVOCs consisted of poly-aromatic hydrocarbons (PAH). One compound, ideno(1,2,3-cd)pyrene, was detected at a concentration that barely exceeded the applicable NYSDEC Unrestricted Soil Cleanup Objectives (SCO). Other PAH compounds were detected at concentrations that ranged from 3 orders of magnitude lower than the applicable SCOs, to just below the applicable SCOs. Two (2) metals, chromium and lead, were detected at concentrations that exceeded their respective SCOs. Mercury was detected at a concentration that was just below the applicable SCO, and arsenic, barium, and selenium were detected at concentrations that were an order of magnitude below their respective SCOs. No PCBs were detected.

- Based on the "totals" laboratory results, AECC asked the laboratory to analyze the remaining sample for RCRA-8 metals via the Toxic Characteristic Leaching Procedure (TCLP) and hazardous waste characteristics (ignitability, reactivity, and corrosivity). Laboratory results revealed that all concentrations of detected metals were below applicable 40 CFR Part 261.24 standards, and that the fill was not ignitable, corrosive, or reactive.

- Due to the elevated concentrations of lead and chromium, the Owner subsequently asked the City of Syracuse to remove the contaminated fill from the Site.

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CRISAFULLI SAMPLING

- Post notification of the contaminated fill, Crisafulli disputed the findings of the AECC sampling event and trespassed on the Site to collect their own sample for laboratory analysis.

- Crisafulli reported that no metals were detected in the sample they collected. However, it was later determined that Crisafulli had their sample analyzed via the Toxic Characteristic Leaching Procedure, not SW 846.

CITY OF SYRACUSE SAMPLING

In order to validate the results of AECC's sampling event, the City of Syracuse retained C&S Companies (C&S) to collect soil samples, as follows:

- Due to the fact that the Site was considered a regulated asbestos work area at the time of the sampling event, C&S subcontracted the work to HSE Consulting Services, LLC (HSE).

- All parties agreed that the sampling should proceed in accordance with NYSDEC Commissioner's Policy 51 (CP-51) protocols for sampling soil piles (3 composite samples, each consisting of 3-5 grab samples).

- On July 22, 2015, HSE, C&S, AECC, and City representatives arrived at the Site. HSE and AECC proceeded to collect the required number of soil samples (which were later split between the firms).

- HSE delivered an "Imported Fill Soil Sampling & Analytical Testing Results" report to C&S on July 31, 2015. The report revealed that lead exceeded the applicable Unrestricted SCO in each of the three (3) composite samples and cadmium exceeded the applicable Unrestricted SCO in one (1) of the composite samples. HSE also reported that although total chromium concentrations ranged from 21.9 - 34.7 ppm, there is no SCO for total chromium.

- HSE concluded: "Based on the current classification of the property as commercial, the concentrations of the metals analyzed as part of the completed project are below the applicable Restricted Use Soil Cleanup Objectives in Table 375-6.8(b) under the Commercial category, and in fact are below the Restricted Use Soil Cleanup Objectives under the Restricted Residential category."

- On August 27, 2015, the City told the Owner that C&S agreed with HSE's conclusion, and that no further action at the Site was necessary. Mr. Bowers disagreed with this assessment and notified the City that he would contact the NYSDEC for a decision on this matter.

Asbestos & Environmental Consulting Corp. ~ 6308 Fly Road, East Syracuse, NY 13057 ~ (315) 432-9400 ~ (315) 432-9405 fax

Mr. Richard Brazell
NYSDEC – Region 7
Summary of Events – Placement of Contaminated Fill
400 Erie Boulevard West, Syracuse, New York

AECC OPINION

- The HSE/C&S conclusion is incorrect. Imported fill material needs to "pass" Unrestricted SCOs, not the SCOs of a possible intended use of the property in the future. The imported fill is contaminated with PAH and metals. Specifically, ideno(1,2,3-cd)pyrene, cadmium, chromium, and lead exceed applicable Unrestricted SCOs.

- From the start, the Owner just wanted the fill to be removed from the Site. They even offered to use their own resources to load Crisafulli trucks. However, both the City and Crisafulli have contended that this fill material is acceptable for use and no further work is warranted.

- The City, Crisafulli, HSE, and C&S have shown a lack of knowledge of basic environmental regulations. Crisafulli even used incorrect methodologies to conclude that the fill was clean.

- The Owner is asking the NYSDEC to help with actions against the City and Crisafulli that will result in the removal of the contaminated fill from the Site.

- Furthermore, the Owner and AECC will assist the NYSDEC in any investigation into this matter (including a tour of the Site). It is also believed that this fill material may have been imported onto other City properties, including residential properties.

If you have any questions or comments pertaining to this letter or the project, you may contact me directly at (315) 432-9400.

Sincerely,
Asbestos & Environmental Consulting Corporation

Richard D. McKenna
Project Manager

Attachments:

Table 1	Fill Analysis Summary – Metals, SVOCs, and PCBs
Table 2	Sludge Analysis Summary – TPH
Appendix A	*Laboratory Analytical Report*, Spectrum Analytical, Inc., June 30, 2015
Appendix B	*Imported Fill Soil Sampling & Analytical Testing Results*, HSE Consulting Services, LLC, July 31, 2015

Asbestos & Environmental Consulting Corp. ~ 6308 Fly Road, East Syracuse, NY 13057 ~ (315) 432-9400 ~ (315) 432-9405 fax

TABLE 1
Fill Analysis Summary - Metals, SVOCs, and PCBs

SUMMARY OF EVENTS
400 Erie Boulevard West
Syracuse, New York
AECC Project No. 15-153

Metals (Totals)	CAS No.	Unresticted SCO	Fill (Composite)
			6/22/2015
Arsenic	7440-38-2	13	**4.88**
Barium	7440-39-3	350	**76.9**
Cadmium	7440-43-9	2.5	BRL
Chromium	7440-47-3	1, 30*	**32.9**
Lead	7439-92-1	63	**174**
Mercury	7439-97-6	0.18	**0.139**
Selenium	7782-49-2	3.9	**0.712**
Silver	7440-22-4	2	BRL

Metals (TCLP)	CAS No.	40 CFR 261.24 Standard	Fill (Composite)
			6/22/2015
Arsenic	7440-38-2	5	**0.0062**
Barium	7440-39-3	100	**0.535**
Cadmium	7440-43-9	1	**0.0018**
Chromium	7440-47-3	5	**0.0044**
Lead	7439-92-1	5	**0.0111**
Mercury	7439-97-6	0.2	BRL
Selenium	7782-49-2	1	**0.0133**
Silver	7440-22-4	5	BRL

Semi-Volatile Organic Compounds	CAS No.	Unrestricted SCO	Fill (Composite)
			6/22/2015
Acenaphthene	83-32-9	20	BRL
Acenaphthylene	208-96-8	100	BRL
Anthracene	120-12-7	100	BRL
Benzo (a) anthrace	56-55-3	1.0	**0.752**
Benzo (a) pyrene	50-32-8	1.0	**0.811**
Benzo (b) fluoranth	205-99-2	1.0	**0.837**
Benzo (g,h,i) peryl	191-24-2	100	**0.477**
Benzo (k) fluoranth	207-08-9	1.0	**0.789**
Chrysene	218-01-9	1.0	**0.877**
Dibenzo (a,h) anth	53-70-3	0.33	BRL
Fluoranthene	206-44-0	100	**1.92**
Fluorene	86-73-7	30	BRL
Indeno (1,2,3-cd) p	193-39-5	0.5	**0.539**
1-Methylnaphthale	90-12-0	NS	BRL
2-Methylnaphthale	91-57-6	0.41	BRL
Naphthalene	91-20-3	12	BRL
Phenanthrene	85-01-8	100	**0.811**
Pyrene	129-00-0	100	**1.38**

Polychlorinated Biphenyls (PCBs)	CAS No.	Unrestricted SCO	Fill (Composite)
			6/22/2015
Aroclor-1016	12674-11-2	NS	BRL
Aroclor-1221	11104-28-2	NS	BRL
Aroclor-1232	11141-16-5	NS	BRL
Aroclor-1242	53469-21-9	NS	BRL
Aroclor-1248	12672-29-6	NS	BRL
Aroclor-1254	11097-69-1	NS	BRL
Aroclor-1260	11096-82-5	NS	BRL
Aroclor-1262	37324-23-5	NS	BRL
Aroclor-1268	11100-14-4	NS	BRL
TOTAL PCBs	-	0.1	-

Notes:
All concentrations in miligrams per kilogram (mg/kg or approximate parts per million - ppm)
BRL - Below Reportable Limit (non-detect)
SCO - Unrestricted Soil Cleanup Objective per 6 NYCRR 375, Table 375-6.8(a) and NYSDEC Commissioner's Policy 51, Table 1
** - The SCO for hexavalent chromium is 1 ppm. The SCO for trivalent chromium is 30 ppm. Laboratory analysis reported total chromium.*
NS - No SCO/RSCO and/or CP-51 Guidance Value for this compound
Bold - Compound detected
Shading - Compound concentraiton exceeds SCO / 40 CFR Part 261.24 standard

TABLE 2
Sludge Analys-s Summary - TPH

SUMMARY OF EVENTS
400 Erie Boulevard West
Syracuse, New York
AECC Project No. 15-153

Petroleum Type	CAS No.	Sludge Solids
		6/22/2015
Aviation Fuel	J00100000	BRL
Dielectric Fluid	-	BRL
Fuel Oil #2	68476-30-2	BRL
Fuel Oil #4	68476-31-3	BRL
Fuel Oil #6	68553-00-4	BRL
Gasoline	8006-61-9	BRL
Hydraulic Oil	-	BRL
Ligroin	8032-32-4	BRL
Motor Oil	M09800000	BRL
Unidentified / Other Oil	-	662
Total Petroleum Hydrocarbons	-	662

Notes:
All concentrations in miligrams per kilogram (mg/kg or approximate parts per million - ppm).
BRL - Below Reportable Limit (non-detect)

Report Date:
30-Jun-15 17:15

☐ Final Report
☐ Re-Issued Report
☑ Revised Report

SPECTRUM ANALYTICAL, INC.

Laboratory Report

AECC Environmental Consulting
6308 Fly Road
East Syracuse, NY 13057
Attn: Rich McKenna

Project: 400 Erie Blvd W. - Syracuse, NY
Project #: 15-153

Laboratory ID	Client Sample ID	Matrix	Date Sampled	Date Received
SC09116-01	Fill	Soil	22-Jun-15 14:55	22-Jun-15 16:00
SC09116-02	Sludge	Sludge	22-Jun-15 15:00	22-Jun-15 16:00

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. These results relate only to the sample(s) as received.
All applicable NELAC requirements have been met.

Massachusetts # M-MA138/MA1110
Connecticut # PH-0777
Florida # E87936
Maine # MA138
New Hampshire # 2538
New Jersey # MA011
New York # 11393
Pennsylvania # 68-04426/68-02924
Rhode Island # LAO00098
USDA # S-51435

Authorized by:

Nicole Leja
Laboratory Director

Spectrum Analytical holds certification in the State of New York for the analytes as indicated with an X in the "Cert." column within this report. Please note that the State of New York does not offer certification for all analytes. Please refer to our website for specific certification holdings in each state.
Please note that this report contains 20 pages of analytical data plus Chain of Custody document(s). When the Laboratory Report is indicated as revised, this report supersedes any previously dated reports for the laboratory ID(s) referenced above. Where this report identifies subcontracted analyses, copies of the subcontractor's test report are available upon request. This report may not be reproduced, except in full, without written approval from Spectrum Analytical, Inc.

Spectrum Analytical, Inc. is a NELAC accredited laboratory organization and meets NELAC testing standards. Use of the NELAC logo however does not insure that Spectrum is currently accredited for the specific method or analyte indicated. Please refer to our 'Quality' web page at www.spectrum-analytical.com for a full listing of our current certifications and fields of accreditation. States in which Spectrum Analytical, Inc. holds NELAC certification are New York, New Hampshire, New Jersey, Pennsylvania and Florida. All analytical work for Volatile Organic and Air analysis are transferred to and conducted at our 830 Silver Street location (PA-68-04426).

Please contact the Laboratory or Technical Director at 800-789-9115 with any questions regarding the data contained in this laboratory report.

CASE NARRATIVE:

Data has been reported to the MDL. This report includes estimated concentrations detected below the RDL and above the MDL (J-Flag).

All non-detects and all results below the detection limit are reported as "<" (less than) the detection limit in this report.

The samples were received 9.3 degrees Celsius, please refer to the Chain of Custody for details specific to temperature upon receipt. An infrared thermometer with a tolerance of +/- 1.0 degrees Celsius was used immediately upon receipt of the samples.

If a Matrix Spike (MS), Matrix Spike Duplicate (MSD) or Duplicate (DUP) was not requested on the Chain of Custody, method criteria may have been fulfilled with a source sample not of this Sample Delivery Group.

Analyses for Total Hardness, pH, and Total Residual Chlorine fall under the state of Pennsylvania code Chapter 252.6 accreditation by rule.

Reactivity (40 CFR 261.23) Case Narrative:

These samples do not exhibit the characteristics of reactivity as defined in 40 CFR 261.23, sections (1), (2) and (4); however, Spectrum Analytical, Inc. does not test for detonation, explosive reaction or potential, or forbidden explosives as defined in 40 CFR 261.23, sections (3), (6), (7) and (8).

Reactive sulfide and cyanide are tested at a pH of 2 and not tested at all conditions between pH 2 and12.5 as stated in 40 CFR 261.23, section (5); thus reactive cyanide and sulfide results as reported in this document can not be used to support the nonreactive properties of these samples.

The responsibility falls on the generator to use knowledge of the waste to determine if the waste meets or does not meet the descriptive, prose definition of reactivity.

June 30, 2015 Report Revision Case Narrative:

This report has been revised to include analyses added as listed in the appendix at the end of this report.

See below for any non-conformances and issues relating to quality control samples and/or sample analysis/matrix.

SW846 1030

Samples:

SC09116-01 *Fill*

A hold time of 24 hours has been set to expedite the analyses through the laboratory. However, the hold time for Ignitability is not specified within the method other than to state that the samples should be analyzed as soon as possible.

Ignitability by Definition

SW846 6010C

Spikes:

1512229-MS1 *Source: SC09116-01*

The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

Lead

1512229-MSD1 *Source: SC09116-01*

The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

Lead

SW846 6010C

Duplicates:

1512229-DUP1 *Source: SC09116-01*

Analyses are not controlled on RPD values from sample concentrations that are less than 5 times the reporting level. The batch is accepted based upon the difference between the sample and duplicate is less than or equal to the reporting limit.

Selenium

The RPD exceeded the QC control limits; however precision is demonstrated with acceptable RPD values for MS/MSD.

Chromium
Lead

SW846 7471B

Duplicates:

1512231-DUP1 *Source: SC09116-01*

Analyses are not controlled on RPD values from sample concentrations that are less than 5 times the reporting level. The batch is accepted based upon the difference between the sample and duplicate is less than or equal to the reporting limit.

Mercury

SW846 8270D

Calibration:

1505031

Analyte quantified by quadratic equation type calibration.

Benzoic acid

This affected the following samples:

S504308-ICV1

Samples:

S506021-CCV1

Analyte percent difference is outside individual acceptance criteria (20), but within overall method allowances.

Bis(2-chloroisopropyl)ether (21.6%)

This affected the following samples:

1512186-BLK1
1512186-BS1

S506033-CCV1

Analyte percent difference is outside individual acceptance criteria (20), but within overall method allowances.

Benzyl alcohol (-43.1%)
Hexachlorocyclopentadiene (21.1%)

This affected the following samples:

Fill

SC09116-01 *Fill*

The Reporting Limit has been raised to account for matrix interference.

Sample Acceptance Check Form

Client:	AECC Environmental Consulting
Project:	400 Erie Blvd W. - Syracuse, NY / 15-153
Work Order:	SC09116
Sample(s) received on:	6/22/2015

The following outlines the condition of samples for the attached Chain of Custody upon receipt.

	Yes	No	N/A
Were custody seals present?	☐	☑	☐
Were custody seals intact?	☐	☐	☑
Were samples received at a temperature of ≤ 6°C?	☐	☑	☐
Were samples cooled on ice upon transfer to laboratory representative?	☑	☐	☐
Were sample containers received intact?	☑	☐	☐
Were samples properly labeled (labels affixed to sample containers and include sample ID, site location, and/or project number and the collection date)?	☑	☐	☐
Were samples accompanied by a Chain of Custody document?	☑	☐	☐
Does Chain of Custody document include proper, full, and complete documentation, which shall include sample ID, site location, and/or project number, date and time of collection, collector's name, preservation type, sample matrix and any special remarks concerning the sample?	☑	☐	☐
Did sample container labels agree with Chain of Custody document?	☑	☐	☐
Were samples received within method-specific holding times?	☑	☐	☐

Summary of Hits

Lab ID: SC09116-01 **Client ID:** Fill

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Arsenic	0.0062	J	0.0080	mg/l	SW846 1311/6010C
Barium	0.535		0.100	mg/l	SW846 1311/6010C
Cadmium	0.0018	J	0.0050	mg/l	SW846 1311/6010C
Chromium	0.0044	J	0.0100	mg/l	SW846 1311/6010C
Lead	0.0111	J	0.0150	mg/l	SW846 1311/6010C
Selenium	0.0133	J	0.0300	mg/l	SW846 1311/6010C
Arsenic	4.88		1.57	mg/kg	SW846 6010C
Barium	76.9		1.05	mg/kg	SW846 6010C
Chromium	32.9		1.05	mg/kg	SW846 6010C
Lead	174		1.57	mg/kg	SW846 6010C
Selenium	0.712	J	1.57	mg/kg	SW846 6010C
Mercury	0.139		0.0307	mg/kg	SW846 7471B
Benzo (a) anthracene	752	D	734	µg/kg	SW846 8270D
Benzo (a) pyrene	811	D	734	µg/kg	SW846 8270D
Benzo (b) fluoranthene	837	D	734	µg/kg	SW846 8270D
Benzo (g,h,i) perylene	477	J, D	734	µg/kg	SW846 8270D
Benzo (k) fluoranthene	789	D	734	µg/kg	SW846 8270D
Chrysene	877	D	734	µg/kg	SW846 8270D
Fluoranthene	1920	D	734	µg/kg	SW846 8270D
Indeno (1,2,3-cd) pyrene	539	J, D	734	µg/kg	SW846 8270D
Phenanthrene	811	D	734	µg/kg	SW846 8270D
Pyrene	1380	D	734	µg/kg	SW846 8270D

Lab ID: SC09116-02 **Client ID:** Sludge

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Other Oil	Calculated as		26.3	mg/kg	SW846 8100Mod.
Total Petroleum Hydrocarbons	662		26.3	mg/kg	SW846 8100Mod.
Unidentified	662		26.3	mg/kg	SW846 8100Mod.

Please note that because there are no reporting limits associated with hazardous waste characterizations or micro analyses, this summary does not include hits from these analyses if included in this work order.

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
Fill	15-153	Soil	22-Jun-15 14:55	22-Jun-15
SC09116-01				

Semivolatile Organic Compounds by GCMS

Base Neutrals R01

Prepared by method SW846 3545A

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
62-75-9	N-Nitrosodimethylamine	< 721	U, D	µg/kg dry	1840	721	5	SW846 8270D	23-Jun-15	23-Jun-15	MSL	1512186	X
62-53-3	Aniline	< 749	U, D	µg/kg dry	3630	749	5	"	"	"	"	"	X
111-44-4	Bis(2-chloroethyl)ether	< 661	U, D	µg/kg dry	1840	661	5	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 645	U, D	µg/kg dry	3630	645	5	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 601	U, D	µg/kg dry	3630	601	5	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 611	U, D	µg/kg dry	3630	611	5	"	"	"	"	"	X
100-51-6	Benzyl alcohol	< 667	U, D	µg/kg dry	3630	667	5	"	"	"	"	"	X
108-60-1	Bis(2-chloroisopropyl)ether	< 660	U, D	µg/kg dry	1840	660	5	"	"	"	"	"	X
67-72-1	Hexachloroethane	< 706	U, D	µg/kg dry	1840	706	5	"	"	"	"	"	X
98-95-3	Nitrobenzene	< 713	U, D	µg/kg dry	1840	713	5	"	"	"	"	"	X
78-59-1	Isophorone	< 642	U, D	µg/kg dry	1840	642	5	"	"	"	"	"	X
111-91-1	Bis(2-chloroethoxy)methane	< 663	U, D	µg/kg dry	3630	663	5	"	"	"	"	"	X
86-74-8	Carbazole	< 934	U, D	µg/kg dry	1840	934	5	"	"	"	"	"	X
65-85-0	Benzoic acid	< 848	U, D	µg/kg dry	3630	848	5	"	"	"	"	"	X
91-20-3	Naphthalene	< 150	U, D	µg/kg dry	734	150	5	"	"	"	"	"	X
106-47-8	4-Chloroaniline	< 750	U, D	µg/kg dry	1840	750	5	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 585	U, D	µg/kg dry	1840	585	5	"	"	"	"	"	X
91-57-6	2-Methylnaphthalene	< 151	U, D	µg/kg dry	734	151	5	"	"	"	"	"	X
77-47-4	Hexachlorocyclopentadiene	< 670	U, D	µg/kg dry	1840	670	5	"	"	"	"	"	X
91-58-7	2-Chloronaphthalene	< 639	U, D	µg/kg dry	3630	639	5	"	"	"	"	"	X
88-74-4	2-Nitroaniline	< 728	U, D	µg/kg dry	3630	728	5	"	"	"	"	"	X
208-96-8	Acenaphthylene	< 156	U, D	µg/kg dry	734	156	5	"	"	"	"	"	X
131-11-3	Dimethyl phthalate	< 716	U, D	µg/kg dry	3630	716	5	"	"	"	"	"	X
606-20-2	2,6-Dinitrotoluene	< 713	U, D	µg/kg dry	1840	713	5	"	"	"	"	"	X
83-32-9	Acenaphthene	< 171	U, D	µg/kg dry	734	171	5	"	"	"	"	"	X
99-09-2	3-Nitroaniline	< 869	U, D	µg/kg dry	3630	869	5	"	"	"	"	"	X
132-64-9	Dibenzofuran	< 135	U, D	µg/kg dry	1840	135	5	"	"	"	"	"	X
121-14-2	2,4-Dinitrotoluene	< 757	U, D	µg/kg dry	1840	757	5	"	"	"	"	"	X
86-73-7	Fluorene	< 176	U, D	µg/kg dry	734	176	5	"	"	"	"	"	X
7005-72-3	4-Chlorophenyl phenyl ether	< 682	U, D	µg/kg dry	3630	682	5	"	"	"	"	"	X
84-66-2	Diethyl phthalate	< 758	U, D	µg/kg dry	3630	758	5	"	"	"	"	"	X
100-01-6	4-Nitroaniline	< 1050	U, D	µg/kg dry	1840	1050	5	"	"	"	"	"	X
86-30-6	N-Nitrosodiphenylamine	< 854	U, D	µg/kg dry	3630	854	5	"	"	"	"	"	X
103-33-3	Azobenzene/Diphenyldiazene	< 876	U, D	µg/kg dry	3630	876	5	"	"	"	"	"	
101-55-3	4-Bromophenyl phenyl ether	< 734	U, D	µg/kg dry	3630	734	5	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 186	U, D	µg/kg dry	734	186	5	"	"	"	"	"	
118-74-1	Hexachlorobenzene	< 803	U, D	µg/kg dry	1840	803	5	"	"	"	"	"	X
85-01-8	Phenanthrene	**811**	D	µg/kg dry	734	179	5	"	"	"	"	"	X
120-12-7	Anthracene	< 168	U, D	µg/kg dry	734	168	5	"	"	"	"	"	X
84-74-2	Di-n-butyl phthalate	< 816	U, D	µg/kg dry	3630	816	5	"	"	"	"	"	X
206-44-0	Fluoranthene	**1,920**	D	µg/kg dry	734	184	5	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
Fill	15-153	Soil	22-Jun-15 14:55	22-Jun-15
SC09116-01				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GCMS													
Base Neutrals			R01										
Prepared by method SW846 3545A													
92-87-5	Benzidine	< 890	U, D	µg/kg dry	3630	890	5	SW846 8270D	23-Jun-15	23-Jun-15	MSL	1512186	X
129-00-0	Pyrene	**1,380**	D	µg/kg dry	734	156	5	"	"	"	"	"	X
85-68-7	Butyl benzyl phthalate	< 805	U, D	µg/kg dry	3630	805	5	"	"	"	"	"	X
91-94-1	3,3´-Dichlorobenzidine	< 738	U, D	µg/kg dry	3630	738	5	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	**752**	D	µg/kg dry	734	152	5	"	"	"	"	"	X
218-01-9	Chrysene	**877**	D	µg/kg dry	734	179	5	"	"	"	"	"	X
117-81-7	Bis(2-ethylhexyl)phthalate	< 907	U, D	µg/kg dry	1840	907	5	"	"	"	"	"	X
621-64-7	N-Nitrosodi-n-propylamine	< 782	U, D	µg/kg dry	1840	782	5	"	"	"	"	"	X
117-84-0	Di-n-octyl phthalate	< 785	U, D	µg/kg dry	3630	785	5	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	**837**	D	µg/kg dry	734	167	5	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	**789**	D	µg/kg dry	734	167	5	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	**811**	D	µg/kg dry	734	153	5	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	**539**	J, D	µg/kg dry	734	150	5	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 135	U, D	µg/kg dry	734	135	5	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	**477**	J, D	µg/kg dry	734	159	5	"	"	"	"	"	X
110-86-1	Pyridine	< 786	U, D	µg/kg dry	3630	786	5	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 578	U, D	µg/kg dry	3630	578	5	"	"	"	"	"	X
95-94-3	1,2,4,5-Tetrachlorobenzene	< 659	U, D	µg/kg dry	3630	659	5	"	"	"	"	"	X
Surrogate recoveries:													
321-60-8	*2-Fluorobiphenyl*	*45*			*30-130 %*			"	"	"	"	"	
367-12-4	*2-Fluorophenol*	*43*			*30-130 %*			"	"	"	"	"	
4165-60-0	*Nitrobenzene-d5*	*46*			*30-130 %*			"	"	"	"	"	
4165-62-2	*Phenol-d5*	*44*			*30-130 %*			"	"	"	"	"	
1718-51-0	*Terphenyl-dl4*	*49*			*30-130 %*			"	"	"	"	"	
118-79-6	*2,4,6-Tribromophenol*	*48*			*30-130 %*			"	"	"	"	"	
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3550C													
12674-11-2	Aroclor-1016	< 19.5	U	µg/kg dry	21.6	19.5	1	SW846 8082A	23-Jun-15	23-Jun-15	IMR	1512214	X
11104-28-2	Aroclor-1221	< 16.6	U	µg/kg dry	21.6	16.6	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 19.4	U	µg/kg dry	21.6	19.4	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 13.4	U	µg/kg dry	21.6	13.4	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 13.6	U	µg/kg dry	21.6	13.6	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 14.9	U	µg/kg dry	21.6	14.9	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 15.2	U	µg/kg dry	21.6	15.2	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 19.4	U	µg/kg dry	21.6	19.4	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 21.3	U	µg/kg dry	21.6	21.3	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*80*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*95*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*80*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*95*			*30-150 %*			"	"	"	"	"	

This laboratory report is not valid without an authorized signature on the cover page.

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
Fill SC09116-01	15-153	Soil	22-Jun-15 14:55	22-Jun-15

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Total Metals by EPA 6000/7000 Series Methods													
7440-22-4	Silver	< 0.115	U	mg/kg dry	1.57	0.115	1	SW846 6010C	23-Jun-15	24-Jun-15	EDT	1512229	X
7440-38-2	Arsenic	**4.88**		mg/kg dry	1.57	0.254	1	"	"	"	"	"	X
7440-39-3	Barium	**76.9**		mg/kg dry	1.05	0.0622	1	"	"	"	"	"	X
7440-43-9	Cadmium	< 0.0168	U	mg/kg dry	0.524	0.0168	1	"	"	"	"	"	X
7440-47-3	Chromium	**32.9**		mg/kg dry	1.05	0.100	1	"	"	"	"	"	X
7439-97-6	Mercury	**0.139**		mg/kg dry	0.0307	0.0020	1	SW846 7471B	"	24-Jun-15	YR	1512231	X
7439-92-1	Lead	**174**		mg/kg dry	1.57	0.289	1	SW846 6010C	"	24-Jun-15	EDT	1512229	X
7782-49-2	Selenium	**0.712**	J	mg/kg dry	1.57	0.393	1	"	"	"	"	"	X
TCLP Metals by EPA 1311 & 6000/7000 Series Methods													
TCLP Extraction for Hg Prepared by method SW846 1311													
	TCLP Extraction	**Completed**		N/A			1	SW846 1311	26-Jun-15	27-Jun-15	CMB	1512582	X
	Final pH of leachate	**6.79**		N/A			1	"	"	"	"	"	
TCLP Extraction for Metals Prepared by method SW846 1311													
	TCLP Extraction	**Completed**		N/A			1	"	"	"	"	"	X
	Final pH of leachate	**6.79**		N/A			1	"	"	"	"	"	
7440-22-4	Silver	< 0.0028	U	mg/l	0.0100	0.0028	1	SW846 1311/6010C	29-Jun-15	29-Jun-15	EDT	1512591	X
7440-38-2	Arsenic	**0.0062**	J	mg/l	0.0080	0.0051	1	"	"	"	"	"	X
7440-39-3	Barium	**0.535**		mg/l	0.100	0.0009	1	"	"	"	"	"	X
7440-43-9	Cadmium	**0.0018**	J	mg/l	0.0050	0.0003	1	"	"	"	"	"	X
7440-47-3	Chromium	**0.0044**	J	mg/l	0.0100	0.0019	1	"	"	"	"	"	X
7439-97-6	Mercury	< 0.00009	U	mg/l	0.00020	0.00009	1	SW846 1311/7470A	"	30-Jun-15	YR	1512592	X
7439-92-1	Lead	**0.0111**	J	mg/l	0.0150	0.0036	1	SW846 1311/6010C	"	29-Jun-15	EDT	1512591	X
7782-49-2	Selenium	**0.0133**	J	mg/l	0.0300	0.0086	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**90.3**		%			1	SM2540 G Mod.	23-Jun-15	23-Jun-15	DT	1512227	
Toxicity Characteristics													
	Ignitability by Definition	**Negative**	IgHT	N/A			1	SW846 1030	30-Jun-15 11:00	30-Jun-15 11:00	BD	1512722	X
	pH	**7.49**	pH	pH Units			1	SW846 9045D	30-Jun-15 08:46	30-Jun-15 12:05	BD	1512684	X
Reactivity Cyanide/Sulfide Prepared by method General Preparation													
	Reactivity	**See Narrative**		mg/kg dry			1	SW846 Ch. 7.3	29-Jun-15	29-Jun-15	TN	1512662	
57-12-5	Reactive Cyanide	< 24.7	U	mg/kg dry	24.7	24.7	1	"	"	"	"	"	
18496-25-8	Reactive Sulfide	< 49.4	U	mg/kg dry	49.4	49.4	1	"	"	"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
Sludge SC09116-02	15-153	Sludge	22-Jun-15 15:00	22-Jun-15

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Extractable Petroleum Hydrocarbons													
Fingerprinting by GC Prepared by method SW846 3550C													
8006-61-9	Gasoline	< 7.8	U	mg/kg	26.3	7.8	1	SW846 8100Mod.	23-Jun-15	24-Jun-15	SEP	1512254	
68476-30-2	Fuel Oil #2	< 6.2	U	mg/kg	26.3	6.2	1	"	"	"	"	"	
68476-31-3	Fuel Oil #4	< 2.6	U	mg/kg	26.3	2.6	1	"	"	"	"	"	
68553-00-4	Fuel Oil #6	< 8.6	U	mg/kg	26.3	8.6	1	"	"	"	"	"	
M09800000	Motor Oil	< 8.4	U	mg/kg	26.3	8.4	1	"	"	"	"	"	
8032-32-4	Ligroin	< 6.6	U	mg/kg	26.3	6.6	1	"	"	"	"	"	
J00100000	Aviation Fuel	< 6.6	U	mg/kg	26.3	6.6	1	"	"	"	"	"	
	Hydraulic Oil	< 2.6	U	mg/kg	26.3	2.6	1	"	"	"	"	"	
	Dielectric Fluid	< 6.6	U	mg/kg	26.3	6.6	1	"	"	"	"	"	
	Unidentified	**662**		mg/kg	26.3	6.6	1	"	"	"	"	"	
	Other Oil	**Calculated as**		mg/kg	26.3	2.6	1	"	"	"	"	"	
	Total Petroleum Hydrocarbons	**662**		mg/kg	26.3	2.6	1	"	"	"	"	"	
Surrogate recoveries:													
3386-33-2	*1-Chlorooctadecane*	*67*			*40-140 %*			"	"	"	"	"	

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1512186 - SW846 3545A										
Blank (1512186-BLK1)						Prepared & Analyzed: 23-Jun-15				
N-Nitrosodimethylamine	< 65.0	U	µg/kg wet	65.0						
Aniline	< 67.6	U	µg/kg wet	67.6						
Bis(2-chloroethyl)ether	< 59.6	U	µg/kg wet	59.6						
1,3-Dichlorobenzene	< 58.2	U	µg/kg wet	58.2						
1,4-Dichlorobenzene	< 54.2	U	µg/kg wet	54.2						
1,2-Dichlorobenzene	< 55.1	U	µg/kg wet	55.1						
Benzyl alcohol	< 60.2	U	µg/kg wet	60.2						
Bis(2-chloroisopropyl)ether	< 59.5	U	µg/kg wet	59.5						
Hexachloroethane	< 63.7	U	µg/kg wet	63.7						
Nitrobenzene	< 64.3	U	µg/kg wet	64.3						
Isophorone	< 57.9	U	µg/kg wet	57.9						
Bis(2-chloroethoxy)methane	< 59.8	U	µg/kg wet	59.8						
Carbazole	< 84.2	U	µg/kg wet	84.2						
Benzoic acid	< 76.5	U	µg/kg wet	76.5						
Naphthalene	< 13.5	U	µg/kg wet	13.5						
4-Chloroaniline	< 67.6	U	µg/kg wet	67.6						
Hexachlorobutadiene	< 52.7	U	µg/kg wet	52.7						
2-Methylnaphthalene	< 13.7	U	µg/kg wet	13.7						
Hexachlorocyclopentadiene	< 60.4	U	µg/kg wet	60.4						
2-Chloronaphthalene	< 57.6	U	µg/kg wet	57.6						
2-Nitroaniline	< 65.7	U	µg/kg wet	65.7						
Acenaphthylene	< 14.0	U	µg/kg wet	14.0						
Dimethyl phthalate	< 64.5	U	µg/kg wet	64.5						
2,6-Dinitrotoluene	< 64.3	U	µg/kg wet	64.3						
Acenaphthene	< 15.4	U	µg/kg wet	15.4						
3-Nitroaniline	< 78.4	U	µg/kg wet	78.4						
Dibenzofuran	< 12.2	U	µg/kg wet	12.2						
2,4-Dinitrotoluene	< 68.3	U	µg/kg wet	68.3						
Fluorene	< 15.9	U	µg/kg wet	15.9						
4-Chlorophenyl phenyl ether	< 61.5	U	µg/kg wet	61.5						
Diethyl phthalate	< 68.4	U	µg/kg wet	68.4						
4-Nitroaniline	< 94.7	U	µg/kg wet	94.7						
N-Nitrosodiphenylamine	< 77.1	U	µg/kg wet	77.1						
Azobenzene/Diphenyldiazene	< 79.0	U	µg/kg wet	79.0						
4-Bromophenyl phenyl ether	< 66.2	U	µg/kg wet	66.2						
1-Methylnaphthalene	< 16.8	U	µg/kg wet	16.8						
Hexachlorobenzene	< 72.4	U	µg/kg wet	72.4						
Phenanthrene	< 16.2	U	µg/kg wet	16.2						
Anthracene	< 15.2	U	µg/kg wet	15.2						
Di-n-butyl phthalate	< 73.6	U	µg/kg wet	73.6						
Fluoranthene	< 16.6	U	µg/kg wet	16.6						
Benzidine	< 80.2	U	µg/kg wet	80.2						
Pyrene	< 14.1	U	µg/kg wet	14.1						
Butyl benzyl phthalate	< 72.6	U	µg/kg wet	72.6						
3,3´-Dichlorobenzidine	< 66.5	U	µg/kg wet	66.5						
Benzo (a) anthracene	< 13.7	U	µg/kg wet	13.7						
Chrysene	< 16.2	U	µg/kg wet	16.2						
N-Nitrosodi-n-propylamine	< 70.5	U	µg/kg wet	70.5						
Bis(2-ethylhexyl)phthalate	< 81.8	U	µg/kg wet	81.8						
Di-n-octyl phthalate	< 70.8	U	µg/kg wet	70.8						
Benzo (b) fluoranthene	< 15.1	U	µg/kg wet	15.1						
Benzo (k) fluoranthene	< 15.1	U	µg/kg wet	15.1						

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1512186 - SW846 3545A										
Blank (1512186-BLK1)					Prepared & Analyzed: 23-Jun-15					
Benzo (a) pyrene	< 13.8	U	µg/kg wet	13.8						
Indeno (1,2,3-cd) pyrene	< 13.5	U	µg/kg wet	13.5						
Dibenzo (a,h) anthracene	< 12.2	U	µg/kg wet	12.2						
Pyridine	< 70.9	U	µg/kg wet	70.9						
Benzo (g,h,i) perylene	< 14.3	U	µg/kg wet	14.3						
1,2,4-Trichlorobenzene	< 52.1	U	µg/kg wet	52.1						
1,2,4,5-Tetrachlorobenzene	< 59.4	U	µg/kg wet	59.4						
Surrogate: 2-Fluorophenol	*1770*		µg/kg wet		*1650*		*107*	*30-130*		
Surrogate: 2-Fluorobiphenyl	*1560*		µg/kg wet		*1650*		*94*	*30-130*		
Surrogate: Nitrobenzene-d5	*1750*		µg/kg wet		*1650*		*106*	*30-130*		
Surrogate: Phenol-d5	*1840*		µg/kg wet		*1650*		*111*	*30-130*		
Surrogate: Terphenyl-dl4	*1610*		µg/kg wet		*1650*		*97*	*30-130*		
Surrogate: 2,4,6-Tribromophenol	*1560*		µg/kg wet		*1650*		*94*	*30-130*		
LCS (1512186-BS1)					Prepared & Analyzed: 23-Jun-15					
N-Nitrosodimethylamine	**1620**		µg/kg wet	65.4	1670		97	40-140		
Aniline	**1220**		µg/kg wet	68.0	1670		73	40-140		
Bis(2-chloroethyl)ether	**1150**		µg/kg wet	60.0	1670		69	40-140		
1,3-Dichlorobenzene	**1180**		µg/kg wet	58.6	1670		71	40-140		
1,4-Dichlorobenzene	**1190**		µg/kg wet	54.6	1670		72	40-140		
1,2-Dichlorobenzene	**1230**		µg/kg wet	55.4	1670		74	40-140		
Benzyl alcohol	**1210**		µg/kg wet	60.6	1670		72	40-140		
Bis(2-chloroisopropyl)ether	**1510**		µg/kg wet	59.9	1670		91	40-140		
Hexachloroethane	**1280**		µg/kg wet	64.1	1670		77	40-140		
Nitrobenzene	**1350**		µg/kg wet	64.7	1670		81	40-140		
Isophorone	**1380**		µg/kg wet	58.2	1670		83	40-140		
Bis(2-chloroethoxy)methane	**1290**		µg/kg wet	60.2	1670		78	40-140		
Carbazole	**1620**		µg/kg wet	84.8	1670		97	40-140		
Benzoic acid	**1500**		µg/kg wet	77.0	1670		90	30-130		
Naphthalene	**1250**		µg/kg wet	13.6	1670		75	40-140		
4-Chloroaniline	**1120**		µg/kg wet	68.1	1670		67	40-140		
Hexachlorobutadiene	**1070**		µg/kg wet	53.1	1670		64	40-140		
2-Methylnaphthalene	**1320**		µg/kg wet	13.7	1670		79	40-140		
Hexachlorocyclopentadiene	**1340**		µg/kg wet	60.8	1670		81	40-140		
2-Chloronaphthalene	**1280**		µg/kg wet	58.0	1670		77	40-140		
2-Nitroaniline	**1470**		µg/kg wet	66.1	1670		88	40-140		
Acenaphthylene	**1320**		µg/kg wet	14.1	1670		79	40-140		
Dimethyl phthalate	**1300**		µg/kg wet	64.9	1670		78	40-140		
2,6-Dinitrotoluene	**1460**		µg/kg wet	64.7	1670		88	40-140		
Acenaphthene	**1290**		µg/kg wet	15.5	1670		78	40-140		
3-Nitroaniline	**1150**		µg/kg wet	78.9	1670		69	40-140		
Dibenzofuran	**1290**		µg/kg wet	12.2	1670		77	40-140		
2,4-Dinitrotoluene	**1440**		µg/kg wet	68.7	1670		87	40-140		
Fluorene	**1300**		µg/kg wet	16.0	1670		78	40-140		
4-Chlorophenyl phenyl ether	**1250**		µg/kg wet	61.9	1670		75	40-140		
Diethyl phthalate	**1330**		µg/kg wet	68.8	1670		80	40-140		
4-Nitroaniline	**1680**		µg/kg wet	95.3	1670		101	40-140		
N-Nitrosodiphenylamine	**1590**		µg/kg wet	77.6	1670		95	40-140		
Azobenzene/Diphenyldiazene	**1590**		µg/kg wet	79.5	1670		96	40-140		
4-Bromophenyl phenyl ether	**1360**		µg/kg wet	66.6	1670		81	40-140		
1-Methylnaphthalene	**1330**		µg/kg wet	16.9	1670		80	40-140		
Hexachlorobenzene	**1320**		µg/kg wet	72.9	1670		79	40-140		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1512186 - SW846 3545A										
LCS (1512186-BS1)					Prepared & Analyzed: 23-Jun-15					
Phenanthrene	**1350**		µg/kg wet	16.3	1670		81	40-140		
Anthracene	**1450**		µg/kg wet	15.2	1670		87	40-140		
Di-n-butyl phthalate	**1460**		µg/kg wet	74.0	1670		88	40-140		
Fluoranthene	**1460**		µg/kg wet	16.7	1670		88	40-140		
Benzidine	**2220**		µg/kg wet	80.7	1670		133	40-140		
Pyrene	**1460**		µg/kg wet	14.2	1670		88	40-140		
Butyl benzyl phthalate	**1510**		µg/kg wet	73.1	1670		91	40-140		
3,3´-Dichlorobenzidine	**1530**		µg/kg wet	67.0	1670		92	40-140		
Benzo (a) anthracene	**1420**		µg/kg wet	13.8	1670		85	40-140		
Chrysene	**1320**		µg/kg wet	16.3	1670		79	40-140		
N-Nitrosodi-n-propylamine	**1510**		µg/kg wet	71.0	1670		91	40-140		
Bis(2-ethylhexyl)phthalate	**1530**		µg/kg wet	82.3	1670		92	40-140		
Di-n-octyl phthalate	**1490**		µg/kg wet	71.2	1670		89	40-140		
Benzo (b) fluoranthene	**1570**		µg/kg wet	15.2	1670		94	40-140		
Benzo (k) fluoranthene	**1220**		µg/kg wet	15.2	1670		73	40-140		
Benzo (a) pyrene	**1470**		µg/kg wet	13.9	1670		88	40-140		
Indeno (1,2,3-cd) pyrene	**1640**		µg/kg wet	13.6	1670		98	40-140		
Dibenzo (a,h) anthracene	**1450**		µg/kg wet	12.2	1670		87	40-140		
Benzo (g,h,i) perylene	**1480**		µg/kg wet	14.4	1670		89	40-140		
Pyridine	**1300**		µg/kg wet	71.4	1670		78	40-140		
1,2,4-Trichlorobenzene	**1200**		µg/kg wet	52.5	1670		72	40-140		
1,2,4,5-Tetrachlorobenzene	**1270**		µg/kg wet	59.8	1670		76	40-140		
Surrogate: 2-Fluorobiphenyl	*1430*		µg/kg wet		*1670*		*86*	*30-130*		
Surrogate: 2-Fluorophenol	*1460*		µg/kg wet		*1670*		*88*	*30-130*		
Surrogate: Nitrobenzene-d5	*1590*		µg/kg wet		*1670*		*95*	*30-130*		
Surrogate: Phenol-d5	*1540*		µg/kg wet		*1670*		*92*	*30-130*		
Surrogate: Terphenyl-dl4	*1540*		µg/kg wet		*1670*		*92*	*30-130*		
Surrogate: 2,4,6-Tribromophenol	*1540*		µg/kg wet		*1670*		*92*	*30-130*		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1512214 - SW846 3550C										
Blank (1512214-BLK1)					Prepared & Analyzed: 23-Jun-15					
Aroclor-1016	< 18.0	U	µg/kg wet	18.0						
Aroclor-1016 [2C]	< 10.1	U	µg/kg wet	10.1						
Aroclor-1221	< 15.3	U	µg/kg wet	15.3						
Aroclor-1221 [2C]	< 17.0	U	µg/kg wet	17.0						
Aroclor-1232	< 17.9	U	µg/kg wet	17.9						
Aroclor-1232 [2C]	< 13.0	U	µg/kg wet	13.0						
Aroclor-1242	< 12.4	U	µg/kg wet	12.4						
Aroclor-1242 [2C]	< 12.0	U	µg/kg wet	12.0						
Aroclor-1248	< 12.5	U	µg/kg wet	12.5						
Aroclor-1248 [2C]	< 11.1	U	µg/kg wet	11.1						
Aroclor-1254	< 13.7	U	µg/kg wet	13.7						
Aroclor-1254 [2C]	< 11.2	U	µg/kg wet	11.2						
Aroclor-1260	< 14.0	U	µg/kg wet	14.0						
Aroclor-1260 [2C]	< 12.5	U	µg/kg wet	12.5						
Aroclor-1262	< 17.8	U	µg/kg wet	17.8						
Aroclor-1262 [2C]	< 10.8	U	µg/kg wet	10.8						
Aroclor-1268	< 19.6	U	µg/kg wet	19.6						
Aroclor-1268 [2C]	< 19.1	U	µg/kg wet	19.1						
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*14.0*		µg/kg wet		*19.9*		*70*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*15.9*		µg/kg wet		*19.9*		*80*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*14.0*		µg/kg wet		*19.9*		*70*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*14.9*		µg/kg wet		*19.9*		*75*	*30-150*		
LCS (1512214-BS1)					Prepared & Analyzed: 23-Jun-15					
Aroclor-1016	**221**		µg/kg wet	17.8	247		90	40-140		
Aroclor-1016 [2C]	**241**		µg/kg wet	10.1	247		98	40-140		
Aroclor-1260	**219**		µg/kg wet	13.9	247		89	40-140		
Aroclor-1260 [2C]	**217**		µg/kg wet	12.4	247		88	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*17.8*		µg/kg wet		*19.8*		*90*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*19.8*		µg/kg wet		*19.8*		*100*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*18.8*		µg/kg wet		*19.8*		*95*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*20.8*		µg/kg wet		*19.8*		*105*	*30-150*		
LCS Dup (1512214-BSD1)					Prepared & Analyzed: 23-Jun-15					
Aroclor-1016	**220**		µg/kg wet	17.8	247		89	40-140	0.4	30
Aroclor-1016 [2C]	**239**		µg/kg wet	10.0	247		97	40-140	0.8	30
Aroclor-1260	**214**		µg/kg wet	13.8	247		87	40-140	2	30
Aroclor-1260 [2C]	**216**		µg/kg wet	12.3	247		88	40-140	0.5	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*17.8*		µg/kg wet		*19.7*		*90*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*19.7*		µg/kg wet		*19.7*		*100*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*17.8*		µg/kg wet		*19.7*		*90*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*20.7*		µg/kg wet		*19.7*		*105*	*30-150*		

Extractable Petroleum Hydrocarbons - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1512254 - SW846 3550C										
Blank (1512254-BLK1)					Prepared: 23-Jun-15 Analyzed: 24-Jun-15					
Gasoline	< 7.8	U	mg/kg	7.8						
Fuel Oil #2	< 6.2	U	mg/kg	6.2						
Fuel Oil #4	< 2.6	U	mg/kg	2.6						
Fuel Oil #6	< 8.7	U	mg/kg	8.7						
Motor Oil	< 8.4	U	mg/kg	8.4						
Ligroin	< 6.6	U	mg/kg	6.6						
Aviation Fuel	< 6.6	U	mg/kg	6.6						
Hydraulic Oil	< 2.6	U	mg/kg	2.6						
Dielectric Fluid	< 6.6	U	mg/kg	6.6						
Unidentified	< 6.6	U	mg/kg	6.6						
Other Oil	< 2.6	U	mg/kg	2.6						
Total Petroleum Hydrocarbons	< 2.6	U	mg/kg	2.6						
Surrogate: 1-Chlorooctadecane	*2.76*		mg/kg		*3.31*		*83*	*40-140*		
LCS (1512254-BS2)					Prepared: 23-Jun-15 Analyzed: 24-Jun-15					
Fuel Oil #2	**151**		mg/kg	6.2	131		115	40-140		
Surrogate: 1-Chlorooctadecane	*3.16*		mg/kg		*3.28*		*96*	*40-140*		
LCS Dup (1512254-BSD2)					Prepared: 23-Jun-15 Analyzed: 24-Jun-15					
Fuel Oil #2	**150**		mg/kg	6.2	132		114	40-140	1	200
Surrogate: 1-Chlorooctadecane	*3.38*		mg/kg		*3.29*		*103*	*40-140*		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1512229 - SW846 3051A										
Blank (1512229-BLK1)					Prepared: 23-Jun-15 Analyzed: 24-Jun-15					
Cadmium	< 0.0139	U	mg/kg wet	0.0139						
Silver	< 0.0954	U	mg/kg wet	0.0954						
Arsenic	< 0.211	U	mg/kg wet	0.211						
Chromium	< 0.0830	U	mg/kg wet	0.0830						
Lead	< 0.240	U	mg/kg wet	0.240						
Selenium	< 0.327	U	mg/kg wet	0.327						
Barium	< 0.0516	U	mg/kg wet	0.0516						
Duplicate (1512229-DUP1)			**Source: SC09116-01**		Prepared: 23-Jun-15 Analyzed: 24-Jun-15					
Selenium	**1.00**	QR8, J	mg/kg dry	0.380		0.712			34	20
Silver	< 0.111	U	mg/kg dry	0.111		BRL				20
Arsenic	**5.27**		mg/kg dry	0.245		4.88			8	20
Cadmium	< 0.0162	U	mg/kg dry	0.0162		BRL				20
Chromium	**22.4**	QR6	mg/kg dry	0.0967		32.9			38	20
Lead	**94.3**	QR6	mg/kg dry	0.280		174			60	20
Barium	**87.1**		mg/kg dry	0.0602		76.9			13	20
Matrix Spike (1512229-MS1)			**Source: SC09116-01**		Prepared: 23-Jun-15 Analyzed: 24-Jun-15					
Selenium	**119**		mg/kg dry	0.391	130	0.712	91	75-125		
Cadmium	**111**		mg/kg dry	0.0167	130	BRL	85	75-125		
Chromium	**150**		mg/kg dry	0.0994	130	32.9	90	75-125		
Lead	**200**	QM7	mg/kg dry	0.287	130	174	19	75-125		
Arsenic	**127**		mg/kg dry	0.252	130	4.88	94	75-125		
Silver	**122**		mg/kg dry	0.114	130	BRL	94	75-125		
Barium	**224**		mg/kg dry	0.0618	130	76.9	113	75-125		
Matrix Spike Dup (1512229-MSD1)			**Source: SC09116-01**		Prepared: 23-Jun-15 Analyzed: 24-Jun-15					
Lead	**186**	QM7	mg/kg dry	0.291	132	174	9	75-125	7	20
Chromium	**148**		mg/kg dry	0.101	132	32.9	87	75-125	1	20
Cadmium	**106**		mg/kg dry	0.0169	132	BRL	80	75-125	5	20
Silver	**118**		mg/kg dry	0.116	132	BRL	90	75-125	4	20
Selenium	**114**		mg/kg dry	0.396	132	0.712	86	75-125	5	20
Arsenic	**121**		mg/kg dry	0.256	132	4.88	88	75-125	5	20
Barium	**215**		mg/kg dry	0.0627	132	76.9	104	75-125	4	20
Post Spike (1512229-PS1)			**Source: SC09116-01**		Prepared: 23-Jun-15 Analyzed: 24-Jun-15					
Chromium	**157**		mg/kg dry	0.100	131	32.9	95	80-120		
Selenium	**121**		mg/kg dry	0.393	131	0.712	92	80-120		
Arsenic	**128**		mg/kg dry	0.254	131	4.88	94	80-120		
Cadmium	**113**		mg/kg dry	0.0168	131	BRL	86	80-120		
Barium	**202**		mg/kg dry	0.0622	131	76.9	96	80-120		
Reference (1512229-SRM1)					Prepared: 23-Jun-15 Analyzed: 24-Jun-15					
Arsenic	**49.4**		mg/kg wet	0.242	57.1		87	78.23-122.12		
Silver	**21.8**		mg/kg wet	0.110	26.6		82	74.9-125.09		
Cadmium	**31.4**		mg/kg wet	0.0160	34.1		92	82.22-117.77		
Chromium	**78.4**		mg/kg wet	0.0955	82.9		95	79.26-120.73		
Lead	**38.6**		mg/kg wet	0.276	45.5		85	81.68-118.75		
Selenium	**66.7**		mg/kg wet	0.376	78.8		85	77.56-121.79		
Barium	**70.8**		mg/kg wet	0.0594	78.3		90	81.93-117.41		
Reference (1512229-SRM2)					Prepared: 23-Jun-15 Analyzed: 24-Jun-15					

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1512229 - SW846 3051A										
Reference (1512229-SRM2)						Prepared: 23-Jun-15 Analyzed: 24-Jun-15				
Lead	**41.8**		mg/kg wet	0.276	46.1		91	81.68-118.75		
Silver	**22.8**		mg/kg wet	0.110	26.9		85	74.9-125.09		
Arsenic	**52.8**		mg/kg wet	0.242	57.9		91	78.23-122.12		
Chromium	**87.4**		mg/kg wet	0.0955	84.0		104	79.26-120.73		
Selenium	**73.0**		mg/kg wet	0.376	79.9		91	77.56-121.79		
Cadmium	**34.5**		mg/kg wet	0.0160	34.6		100	82.22-117.77		
Barium	**74.7**		mg/kg wet	0.0594	79.4		94	81.93-117.41		
Batch 1512231 - EPA200/SW7000 Series										
Blank (1512231-BLK1)						Prepared: 23-Jun-15 Analyzed: 24-Jun-15				
Mercury	< 0.0019	U	mg/kg wet	0.0019						
Duplicate (1512231-DUP1)			**Source: SC09116-01**			Prepared: 23-Jun-15 Analyzed: 24-Jun-15				
Mercury	**0.109**	QR8	mg/kg dry	0.0019		0.139			24	20
Matrix Spike (1512231-MS1)			**Source: SC09116-01**			Prepared: 23-Jun-15 Analyzed: 24-Jun-15				
Mercury	**0.364**		mg/kg dry	0.0021	0.226	0.139	100	75-125		
Matrix Spike Dup (1512231-MSD1)			**Source: SC09116-01**			Prepared: 23-Jun-15 Analyzed: 24-Jun-15				
Mercury	**0.362**		mg/kg dry	0.0020	0.213	0.139	105	75-125	0.7	20
Post Spike (1512231-PS1)			**Source: SC09116-01**			Prepared: 23-Jun-15 Analyzed: 24-Jun-15				
Mercury	**0.375**		mg/kg dry	0.0020	0.213	0.139	111	80-120		
Reference (1512231-SRM1)						Prepared: 23-Jun-15 Analyzed: 24-Jun-15				
Mercury	**2.85**	D	mg/kg wet	0.0392	2.86		100	75.52-127.83		

TCLP Metals by EPA 1311 & 6000/7000 Series Methods - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1512591 - SW846 3010A										
Blank (1512591-BLK1)					Prepared & Analyzed: 29-Jun-15					
Cadmium	< 0.0003	U	mg/l	0.0003						
Selenium	**0.0124**	J	mg/l	0.0086						
Lead	< 0.0036	U	mg/l	0.0036						
Arsenic	< 0.0051	U	mg/l	0.0051						
Silver	< 0.0028	U	mg/l	0.0028						
Chromium	< 0.0019	U	mg/l	0.0019						
Barium	< 0.0009	U	mg/l	0.0009						
LCS (1512591-BS1)					Prepared & Analyzed: 29-Jun-15					
Cadmium	**2.43**		mg/l	0.0003	2.50		97	85-115		
Chromium	**2.51**		mg/l	0.0019	2.50		101	85-115		
Silver	**2.54**		mg/l	0.0028	2.50		102	85-115		
Arsenic	**2.55**		mg/l	0.0051	2.50		102	85-115		
Lead	**2.34**		mg/l	0.0036	2.50		94	85-115		
Selenium	**2.59**		mg/l	0.0086	2.50		104	85-115		
Barium	**2.35**		mg/l	0.0009	2.50		94	85-115		
LCS Dup (1512591-BSD1)					Prepared & Analyzed: 29-Jun-15					
Silver	**2.45**		mg/l	0.0028	2.50		98	85-115	4	104
Arsenic	**2.46**		mg/l	0.0051	2.50		99	85-115	3	20
Cadmium	**2.34**		mg/l	0.0003	2.50		94	85-115	4	20
Lead	**2.23**		mg/l	0.0036	2.50		89	85-115	5	20
Selenium	**2.47**		mg/l	0.0086	2.50		99	85-115	5	20
Chromium	**2.41**		mg/l	0.0019	2.50		96	85-115	4	20
Barium	**2.24**		mg/l	0.0009	2.50		90	85-115	5	20
Batch 1512592 - EPA200/SW7000 Series										
Blank (1512592-BLK1)					Prepared: 29-Jun-15 Analyzed: 30-Jun-15					
Mercury	< 0.00009	U	mg/l	0.00009						
LCS (1512592-BS1)					Prepared: 29-Jun-15 Analyzed: 30-Jun-15					
Mercury	**0.00498**		mg/l	0.00009	0.00500		100	85-115		

Toxicity Characteristics - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1512662 - General Preparation										
Blank (1512662-BLK1)						Prepared & Analyzed: 29-Jun-15				
Reactivity	**See Narrative**		mg/kg wet							
Reactive Cyanide	< 25.0	U	mg/kg wet	25.0						
Reactive Sulfide	< 50.0	U	mg/kg wet	50.0						
Duplicate (1512662-DUP1)			**Source: SC09116-01**			Prepared & Analyzed: 29-Jun-15				
Reactivity	**See Narrative**		mg/kg dry			ee Narrativ				200
Reactive Cyanide	< 24.4	U	mg/kg dry	24.4		BRL				35
Reactive Sulfide	< 48.9	U	mg/kg dry	48.9		BRL				35
Reference (1512662-SRM1)						Prepared & Analyzed: 29-Jun-15				
Reactive Cyanide	< 25.0	U	mg/kg wet	25.0	600		0	0-200		
Reference (1512662-SRM2)						Prepared & Analyzed: 29-Jun-15				
Reactive Sulfide	< 50.0	U	mg/kg wet	50.0	40200		0	0-200		
Batch 1512684 - General Preparation										
Duplicate (1512684-DUP1)			**Source: SC09116-01**			Prepared & Analyzed: 30-Jun-15				
pH	**7.50**		pH Units			7.49			0.1	5
Reference (1512684-SRM1)						Prepared & Analyzed: 30-Jun-15				
pH	**6.03**		pH Units		6.00		100	97.5-102.5		
Reference (1512684-SRM2)						Prepared & Analyzed: 30-Jun-15				
pH	**6.08**		pH Units		6.00		101	97.5-102.5		

Notes and Definitions

D	Data reported from a dilution
IgHT	A hold time of 24 hours has been set to expedite the analyses through the laboratory. However, the hold time for Ignitability is not specified within the method other than to state that the samples should be analyzed as soon as possible.
J	Detected above the Method Detection Limit but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
QM7	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
QR6	The RPD exceeded the QC control limits; however precision is demonstrated with acceptable RPD values for MS/MSD.
QR8	Analyses are not controlled on RPD values from sample concentrations that are less than 5 times the reporting level. The batch is accepted based upon the difference between the sample and duplicate is less than or equal to the reporting limit.
R01	The Reporting Limit has been raised to account for matrix interference.
U	Analyte included in the analysis, but not detected at or above the MDL.
dry	Sample results reported on a dry weight basis
NR	Not Reported
RPD	Relative Percent Difference
pH	The method for pH does not stipulate a specific holding time other than to state that the samples should be analyzed as soon as possible. For aqueous samples the 40 CFR 136 specifies a holding time of 15 minutes from sampling to analysis. Therefore all aqueous pH samples not analyzed in the field are considered out of hold time at the time of sample receipt. All soil samples are analyzed as soon as possible after sample receipt.

Interpretation of Total Petroleum Hydrocarbon Report

Petroleum identification is determined by comparing the GC fingerprint obtained from the sample with a library of GC fingerprints obtained from analyses of various petroleum products. Possible match categories are as follows:

Gasoline - includes regular, unleaded, premium, etc.
Fuel Oil #2 - includes home heating oil, #2 fuel oil, and diesel
Fuel Oil #4 - includes #4 fuel oil
Fuel Oil #6 - includes #6 fuel oil and bunker "C" oil
Motor Oil - includes virgin and waste automobile oil
Ligroin - includes mineral spirits, petroleum naphtha, vm&p naphtha
Aviation Fuel - includes kerosene, Jet A and JP-4
Other Oil - includes lubricating and cutting oil, and silicon oil

At times, the unidentified petroleum product is quantified using a calibration that most closely approximates the distribution of compounds in the sample. When this occurs, the result is qualified as Calculated as.

Laboratory Control Sample (LCS): A known matrix spiked with compound(s) representative of the target analytes, which is used to document laboratory performance.

Matrix Duplicate: An intra-laboratory split sample which is used to document the precision of a method in a given sample matrix.

Matrix Spike: An aliquot of a sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

Method Blank: An analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. The method blank is used to document contamination resulting from the analytical process.

Method Detection Limit (MDL): The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.

Reportable Detection Limit (RDL): The lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions. For many analytes the RDL analyte concentration is selected as the lowest non-zero standard in the calibration curve. While the RDL is approximately 5 to 10 times the MDL, the RDL for each sample takes into account the sample volume/weight, extract/digestate volume, cleanup procedures and, if applicable, dry weight correction. Sample RDLs are highly matrix-dependent.

Surrogate: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. These compounds are spiked into all blanks, standards, and samples prior to analysis. Percent recoveries are calculated for each surrogate.

Continuing Calibration Verification: The calibration relationship established during the initial calibration must be verified at periodic intervals. Concentrations, intervals, and criteria are method specific.

Validated by:
June O'Connor
Kimberly LaPlante
Nicole Leja
Rebecca Merz

SC09116 [illegible]

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page 1 of 1

Special Handling:
- ☐ Standard TAT - 7 to 10 business days
- ☒ Rush TAT - Date Needed: 6/24/15
- · All TATs subject to laboratory approval.
- · Min. 24-hour notification needed for rushes.
- · Samples disposed of after 60 days unless otherwise instructed.

Report To: Rich McKenna / AECC
6308 Fly Road
East Syracuse, NY 13057

Telephone #: (315) 432-9400
Project Mgr.

Invoice To: Acct's Payable

P.O. No.: 15-153 RQN:

Project No.: 15-153
Site Name: 400 Erie Blvd W
Location: 400 Erie Blvd W, Syracuse State: NY
Sampler(s): Drew Brantner

1=$Na_2S_2O_3$ 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid 7=CH_3OH
8= $NaHSO_4$ 9= Deionized Water 10= H_3PO_4 11= 12=

DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW= Surface Water SO=Soil SL=Sludge A=Air
X1= X2= X3=

G=Grab C=Composite

List preservative code below:

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	8260 (VOCs) STARS	8270 PAHs STARS	TPHs modified SW846 8100	8270 SVOCs B/N	RCRA 8 Metals	8082 PCBs		
SC09116-01	FILL	6/22/15	1455	CO	SO			1					X	X	X		
↓ 02	SLUDGE	6/22/15	1500	G	SL		2			X	X	X					

QA/QC Reporting Notes:
* additional charges may apply

MA DEP MCP CAM Report: Yes ☐ No ☐
CT DPH RCP Report: Yes ☐ No ☐

QA/QC Reporting Level
☒ Standard ☐ No QC ☐ DQA*
☐ NY ASP A* ☐ NY ASP B*
☐ NJ Reduced* ☐ NJ Full*
☐ TIER II* ☐ TIER IV*
☐ Other

State-specific reporting standards:

9.3 [illegible] IR

Relinquished by:	Received by:	Date:	Time:	Temp°C
Drew Brantner	[signature]	6/22/15	1600	-0.5
[signature]	Tony Copozzo	6/23/15	7:30	-1
Tony Copozzo	[signature]	6/23/15	1255	-1.5
				0.2

☒ EDD Format PDF and Excel
☒ E-mail to rmckenna@aecgroup.com

Condition upon receipt: ☐ Ambient ☒ Iced ☐ Refrigerated ☐ DI VOA Frozen ☐ Soil Jar Frozen

SC09116 8ry

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page 1 of 1

Special Handling:
- ☐ Standard TAT - 7 to 10 business days
- ☒ Rush TAT - Date Needed: 6/24/15
- · All TATs subject to laboratory approval.
- · Min. 24-hour notification needed for rushes.
- · Samples disposed of after 60 days unless otherwise instructed.

Report To: Rich McKenna / AECC
6308 Fly Road
East Syracuse, NY 13057

Telephone #: (315) 432-9400
Project Mgr.

Invoice To: Acct's Payable

P.O. No.: 15-153 RQN:

Project No.: 15-153
Site Name: 400 Erie Blvd W
Location: 400 Erie Blvd W, Syracuse State: NY
Sampler(s): Drew Brantner

1=$Na_2S_2O_3$ 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid 7=CH_3OH
8= $NaHSO_4$ 9= Deionized Water 10= H_3PO_4 11=____ 12=____

DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW= Surface Water SO=Soil SL=Sludge A=Air
X1=____ X2=____ X3=____

G=Grab C=Composite

List preservative code below:

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	8260 (VOCs) STARS	8270 PAHs STARS	TPHs modified 8015M 8100 by GC	8270 SVOCs B/N	RCRA 8 Metals	8082 PCBs			State-specific reporting standards:
SC09116-01	FILL	6/22/15	1455	CO	SO			1					X	X	X			
↓ 02	SLUDGE	6/22/15	1500	G	SL		2			X	X	X						TPH only for -02 due To insufficient volume. Bm 6/24

QA/QC Reporting Notes:
* additional charges may apply

MA DEP MCP CAM Report: Yes ☐ No ☐
CT DPH RCP Report: Yes ☐ No ☐

QA/QC Reporting Level
☒ Standard ☐ No QC ☐ DQA*
☐ NY ASP A* ☐ NY ASP B*
☐ NJ Reduced* ☐ NJ Full*
☐ TIER II* ☐ TIER IV*
☐ Other

9.3 9.3 IR

Relinquished by:	Received by:	Date:	Time:	Temp°C
Drew Brantner	[signature]	6/22/15	1600	-0.5
[signature]	Tony Coparzo	6/23/15	7:30	-1
Tony Coparzo	[signature]	6/23/15	1255	-1.5
				0.2

☒ EDD Format PDF and Excel
☒ E-mail to rmckenna@aeccgroup.com

Condition upon receipt: ☐ Ambient ☒ Iced ☐ Refrigerated ☐ DI VOA Frozen ☐ Soil Jar Frozen

SPECTRUM ANALYTICAL, INC.

11 Almgren Drive
Agawam, MA 01001
(413) 789-9018

This preceding chain of custody has been amended to include the client requested additional analyses as noted below:

Laboratory ID	*Client ID*	*Analysis*	*Added*
SC09116-01	Fill	Ignitability	6/26/2015
SC09116-01	Fill	pH	6/26/2015
SC09116-01	Fill	Reactivity Cyanide/Sulfide	6/26/2015
SC09116-01	Fill	TCLP Arsenic by ICP	6/26/2015
SC09116-01	Fill	TCLP Barium by ICP	6/26/2015
SC09116-01	Fill	TCLP Cadmium by ICP	6/26/2015
SC09116-01	Fill	TCLP Chromium by ICP	6/26/2015
SC09116-01	Fill	TCLP Extraction for Hg	6/26/2015
SC09116-01	Fill	TCLP Extraction for Metals	6/26/2015
SC09116-01	Fill	TCLP Lead by ICP	6/26/2015
SC09116-01	Fill	TCLP Mercury by CVAA	6/26/2015
SC09116-01	Fill	TCLP RCRA8 Metals	6/26/2015
SC09116-01	Fill	TCLP Selenium by ICP	6/26/2015
SC09116-01	Fill	TCLP Silver by ICP	6/26/2015

HSE Consulting Services, LLC

Air Quality
Asbestos / Lead / Mold
OSHA Compliance / Training
Environmental Services

July 31, 2015

Ghaith Makhlouf, P.E., Principal Engineer
C&S Companies
499 Col. Eileen Collins Boulevard
Syracuse, New York 13212

Re: Imported Fill Soil Sampling and Analytical Testing Results
400 Erie Boulevard West, Syracuse, New York
RCRA (8) Metals

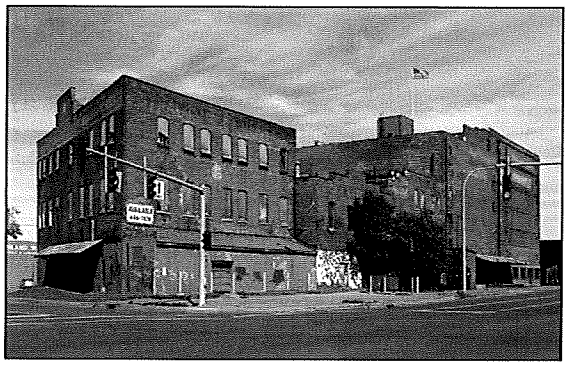
Dear Mr. Makhlouf:

In accordance with your request, HSE Consulting Services, LLC (HSE) provided the C&S Companies (C&S) with sampling and analytical testing services for imported fill soil on the commercial property located at 400 Erie Boulevard West in the City of Syracuse, Onondaga County, New York 13204. Based on information provided to HSE it is understood that the referenced soil, which is generally located in the southwest corner of the property, was imported to the site as fill following the recent collapse and demolition of a portion of the structure that occupies the property.

I have provided a Site Location Map as Attachment 1 that depicts the general location of the property, which is bordered by Erie Boulevard West on the south, Plum Street on the west, Tracy Street on the north and N. West Street to the east.

The following information related to the subject property was obtained from the Onondaga County Department of Real Property Tax Services web site:

Tax Map Number	⇨	105.-12-01.1
Site	⇨	Commercial 1
Property Class	⇨	449 – Other Storage
Stories	⇨	7
Year Built	⇨	1903
Square Feet	⇨	± 129,382
Basement	⇨	Finished



8636 Brewerton Road
Cicero, New York 13039

Ph # (315) 698-1438
Fax # (315) 698-1441
www.hseconsultingservices.com

1.0 SAMPLE COLLECTION PROCEDURES

Daniel R. Hoosock of HSE performed sample collection efforts on the afternoon of Wednesday, July 22, 2015. The following additional individuals were also present during sample area preparation or sample collection efforts:

Personnel	Affiliation	Notes
Ghaith Makhlouf, P.E.	C&S Companies	Present for area preparation and sampling
Stephen J. Chalone	Owner's Rep.	Present for area preparation and sampling
Brian Eisenberg	City of Syracuse	Present for area preparation

A preliminary walkover of the site was conducted with Mr. Eisenberg and Mr. Makhlouf to identify the general area in which fill soil was imported to the site. Mr. Chalone, representing the property owner, was also on site for the purpose of collecting split samples of the soil that was ultimately collected for laboratory analysis.

Mr. Eisneberg identified the approximate area where fill soil was imported, which is generally situated within the southwest corner of the property (refer to Photo 3 in Attachment 3). Mr. Eisenberg also noted that a blue roll-off container, being utilized by the owner in conjunction with ongoing demolition activities, covered the southwestern most portion of the fill area (refer to Photos 4 and 6).

Prior to initiating sampling activities, the boundaries of the accessible fill area were demarcated with wooden stakes and marking tape and measured. The fill area was further divided into three distinct sections with additional marking tape (refer to Photo 6). For the purposes of sampling and documentation the three sections of the fill area were identified as follows:

1) Section 1 – West Section
2) Section 2 – Center Section
3) Section 3 – East Section

The demarcated fill area is calculated to be approximately six hundred and fifty-five square feet (655 ft^2) in size. This calculation does not include the area of fill anticipated to exist under the blue roll-off container that was present on site. A diagram of the demarcated fill area, based on measurements taken in the field, is included as Attachment 2.

Once the accessible fill area was demarcated and divided into sections, sampling efforts were initiated. Based on an assumed imported soil quantity of up to 2,000 cubic yards (yd^3), and in accordance with Table 4 of New York State Department of Environmental Conservation (NYSDEC) Soil Cleanup Guidance Policy CP-51, the goal of the project was to collect three (3) composite samples of the imported fill soil. Each composite sample was further intended to consist of 3-5 discreet samples of fill soil collected at depths varying from 6" to 24".

Based on the approximate fill area identified by Mr. Eisenberg and demarcated by HSE (i.e. 655 ft^2), and assuming that an additional 655 ft^2 was inaccessible due to the presence of the roll-off container or other site conditions, the total fill area would equal one thousand three hundred and ten square feet (1,310 ft^2). Further assuming a fill depth of up to twelve (12) feet, the total volume of imported fill soil would actually only be approximately five hundred eighty-two cubic yards (582 yd^3).

HSE originally intended to collect 5 grab samples from each section of fill soil at depths varying from 6" to 24". However, upon initiating sampling activities it was discovered that the fill included a high volume of concrete, brick and stone, making the removal of overburden soil extremely difficult and time consuming. The decision was then made to collect 3 grabs samples from each fill section with samples collected from depths of between 6"-9", 12"-15" and 18"-20" within each section.

For each demarcated fill soil section, overburden soil was removed from each designated grab location to a depth within the desired ranges (refer to Photo 7). A clean and separate stainless steel trowel was then utilized to collect a grab sample from the desired depth at each location. Each grab sample was measured into a clean sixteen-ounce (16 oz.) glass jar and then transferred to a clean stainless steel mixing bowl. After all 3 grab samples were placed in the stainless steel mixing bowl a separate unused stainless steel trowel was utilized to thoroughly mix the soil (refer to Photo 8). When mixing of the soil was complete, a portion of soil was placed into a clean, laboratory provided, four-ounce (4 oz.) glass sample jar. The composite sample was labeled with a unique identification number and pertinent project information and placed in a cooler with ice. This process was repeated for each of the 3 fill sections demarcated by HSE.

A Sample Characterization/Chain-of-Custody form was completed for submission to the laboratory along with collected soil samples.

At the completion of site activities HSE inquired as to whether or not the wooden stakes and marking tape demarcating the sampling area should be left in place or removed. Mr. Makhlouf indicated that it would be beneficial to leave them in place for future reference. However, Mr. Chalone requested that these materials be removed due to ongoing site activities and vehicle traffic. Therefore, the individual grab sample locations were backfilled and the stakes and marking tape were removed.

2.0 LABORATORY ANALYSES

Soil samples collected as part of the imported fill soil evaluation project were submitted to Pace Analytical Services, Inc. (PACE) for analysis. Analytical services for this project were completed by PACE's Greensburg, PA laboratory facility. PACE's Greensburg laboratory is accredited by the NYSDOH under the Department's Environmental Laboratory Approval Program (NYSDOH-ELAP Laboratory Identification Number 10888).

The soil samples were submitted and analyzed for the following eight Resource Conservation and Recovery Act (RCRA 8) metals:

- Arsenic (As)
- Barium (Ba)
- Cadmium (Cd)
- Chromium (Cr)
- Lead (Pb)
- Mercury (Hg)
- Selenium (Se)
- Silver (Ag)

Analyses were completed in accordance with Environmental Protection Agency (EPA) Method 6010C with the exception of mercury analyses which were completed in accordance with EPA Method 7471B.

3.0 SUMMARY OF FINDINGS

As specified in our project proposal dated July 17, 2015, laboratory analysis results are being compared to both the Unrestricted and Restricted Use Soil Cleanup Objectives contained in Tables 375-6.8(a) and 375-6.8(b) of 6 NYCRR Part 375. The comparison to the Unrestricted Use Soil Cleanup Objectives is provided below in Table 1 with the comparison to the Restricted Use Soil Cleanup Objectives provided in Table 2. A brief discussion and summary of the results, as compared to the Unrestricted and Restricted Use Soil Cleanup Objectives, follows the tables. Laboratory analytical results for each metal may be summarized as follows:

TABLE 1

Comparison of Laboratory Analysis Results to Unrestricted Use Soil Cleanup Objectives NYCRR Part 375, Table 375-6.8(a)

		LABORATORY ANALYSIS RESULTS (mg/kg or ppm)							
SAMPLE ID	**LOCATION**	**As**	**Ba**	**Cd**	**Cr**	**Pb**	**Hg**	**Se**	**Ag**
DH72215-IFSC1	Section 1, West	5.1	97.7	ND	25.4	**113**	ND	ND	ND
DH72215-IFSC2	Section 2, Center	5.0	86.9	**3.1**	21.9	**105**	ND	0.93	ND
DH72215-IFSC3	Section 3, East	5.4	198	0.41	34.7	**99.6**	ND	ND	ND
Unrestricted Use Cleanup Objective → In Parts per Million (ppm)		13	350	2.5	See Note 1	63	0.18	3.9	2

NOTES

1. Table 375-6.8(a) contains soil cleanup objectives (SCOs) for Chromium, hexavalent (1 ppm) and Chromium, trivalent (30) ppm. However, there is not an SCO for Chromium, total. The Chromium result in Table 1 represents the total Chromium concentration in the composite soil sample.

2. As = Arsenic, Ba = Barium, Cd = Cadmium, Cr = Chromium, Pb = Lead, Hg = Mercury, Se = Selenium and Ag = Silver.

3. ND = Not detected at or above adjusted reporting limit

4. Bolded results in shaded cells signify concentrations above the parameter's corresponding Unrestricted SCO in Table 375-6.8(a).

TABLE 2

Comparison of Laboratory Analysis Results to Restricted Use Soil Cleanup Objectives NYCRR Part 375, Table 375-6.8(b)

			LABORATORY ANALYSIS RESULTS (mg/kg or ppm)							
SAMPLE ID		LOCATION	As	Ba	Cd	Cr	Pb	Hg	Se	Ag
DH72215-IFSC1		Section 1, West	5.1	97.7	ND	25.4	**113**	ND	ND	ND
DH72215-IFSC2		Section 2, Center	5.0	86.9	**3.1**	21.9	**105**	ND	0.93	ND
DH72215-IFSC3		Section 3, East	5.4	198	0.41	34.7	**99.6**	ND	ND	ND
↓ SOIL CLEANUP OBJECTIVES ↓										
Protection of Public Health	Residential		16	350	2.5	See Note 1	400	0.81	36	36
	Restricted Residential		16	400	4.3	See Note 1	400	0.81	180	180
	Commercial		16	400	9.3	See Note 1	1,000	2.8	1,500	1,500
	Industrial		16	10,000	60	See Note 1	3,900	5.7	6,800	6,800
Protection of Ecological Resources			13	433	4	See Note 1	63	0.18	3.9	2
Protection of Groundwater			16	820	7.5	See Note 1	450	0.73	4	8.3

NOTES

1. Table 375-6.8(a) contains soil cleanup objectives (SCOs) for Chromium, hexavalent (1 ppm) and Chromium, trivalent (30) ppm. However, there is not an SCO for Chromium, total. The Chromium result in Table 1 represents the total Chromium concentration in the composite soil sample.

2. As = Arsenic, Ba = Barium, Cd = Cadmium, Cr = Chromium, Pb = Lead, Hg = Mercury, Se = Selenium and Ag = Silver.

3. Soil cleanup objectives (SCOs) are in parts per million (ppm)

4. Bolded results in shaded cells signify concentrations above at least one of the SCOs listed in Table 375-6.8(b).

Arsenic (As)

Arsenic concentrations ranged from a low of 5.0 parts per million (ppm) to a high of 5.4 ppm, with an average concentration of 5.2 ppm. The arsenic concentration for each individual composite sample, and as an average, is below both the Unrestricted and Restricted Use Soil Cleanup Objectives (SCOs) in Tables 375-6.8(a) and 375-6.8(b) of NYCRR Part 375.

Barium (Ba)

Barium concentrations ranged from a low of 86.9 ppm to a high of 198 ppm, with an average concentration of 127.5 ppm. The barium concentration for each individual composite sample, and as an average, is below both the Unrestricted and Restricted Use Soil Cleanup Objectives (SCOs) in Tables 375-6.8(a) and 375-6.8(b) of NYCRR Part 375.

Cadmium (Cd)

Cadmium concentrations ranged from a low of Not Detected (ND) to a high of 3.1 ppm. The cadmium concentrations for the composite samples collected from Sections 1 and 3 of the fill area are below both the Unrestricted and Restricted Use Soil Cleanup Objectives (SCOs) in Tables 375-6.8(a) and 375-6.8(b) of NYCRR Part 375. The cadmium concentration of 3.1 ppm detected in the composite sample collected from Section 2 of the fill area is slightly above the Unrestricted SCO in Table 375-6.8(a) and the Residential SCO in Table 375-6.8(b). However, this concentration is below all other Restricted Use SCOs in Table 375-6.8(b) including those for Restricted Residential and Protection of Ecological Resources.

Chromium (Cr)

Chromium concentrations ranged from a low of 21.9 ppm to a high of 34.7 ppm, with an average concentration of 27.3 ppm. As noted above, Tables 375-6.8(a) and 375-6.8(b) contain soil cleanup objectives (SCOs) for Chromium, hexavalent (1 ppm) and Chromium, trivalent (30) ppm. However, there is not an SCO for Chromium, total. The referenced Chromium results represent the total Chromium concentrations in the composite soil samples. While the chromium concentration detected in the soil sample collected from Section 3 would exceed the

Unrestricted Use SCO of 30 ppm for trivalent chromium, the average concentration would be below the Unrestricted Use SCO and all Restricted Use SCOs in Table 375-6.8(b).

The individual and average concentrations would potentially exceed the Unrestricted SCO of 1 ppm for hexavalent chromium, however, these concentrations would be below the Restricted Use SCOs for Restricted Residential, Commercial and Industrial.

If desired, the soil samples collected on July 22, 2015 could be reanalyzed specifically for hexavalent chromium and trivalent chromium to allow for a direct comparison to the Unrestricted and Restricted Use Soil Cleanup Objectives (SCOs) in Tables 375-6.8(a) and 375-6.8(b) of NYCRR Part 375.

Lead (Pb)

Lead concentrations ranged from a low of 99.6 ppm to a high of 113 ppm, with an average concentration of 105.9 ppm. The lead concentration for each individual composite sample, and as an average, is above the Unrestricted Use SCO of 63 ppm in Table 375-6.8(a) and the Restricted Use SCO of 63 ppm for Protection of Ecological Resources in Table 375-6.8(b). However, the individual and average leads concentrations are below all other Restricted Use SCOs in Table 375-6.8(b).

Mercury (Hg)

Mercury was not detected in any of the three composite samples collected from the fill area. Mercury concentrations are therefore below both the Unrestricted and Restricted Use Soil Cleanup Objectives (SCOs) in Tables 375-6.8(a) and 375-6.8(b) of NYCRR Part 375.

Selenium (Se)

Selenium concentrations ranged from a low of Not Detected (ND) in the soil samples collected from fill area Sections 1 and 3 to a high of 0.93 ppm in Section 2. The selenium concentration for each individual composite sample, and as an average, is below both the Unrestricted and Restricted Use Soil Cleanup Objectives (SCOs) in Tables 375-6.8(a) and 375-6.8(b) of NYCRR Part 375.

Silver (Ag)

Silver was also not detected in any of the three composite samples collected from the fill area. Silver concentrations are also therefore below both the Unrestricted and Restricted Use Soil Cleanup Objectives (SCOs) in Tables 375-6.8(a) and 375-6.8(b) of NYCRR Part 375.

4.0 CONCLUSION

Based on the current classification of the property as commercial, the concentrations of the metals analyzed for as part of the completed project are below the applicable Restricted Use Soil Cleanup Objectives in Table 375-6.8(b) under the Commercial category, and in fact are below the Restricted Use Soil Cleanup Objectives under the Restricted Residential category. It may be prudent to share the results of the completed sampling and analytical testing services with the New York State Department of Environmental Conservation (NYSDEC) to determine whether or not any additional actions related to these findings are warranted.

HSE appreciates the opportunity to provide environmental support services to you and the C&S Companies. Please do not hesitate to contact me at your convenience if you have any questions or require additional information.

Sincerely,

HSE CONSULTING SERVICES, LLC

Daniel R. Hoosock

Daniel R. Hoosock
Vice President

Attachments

ATTACHMENT 1

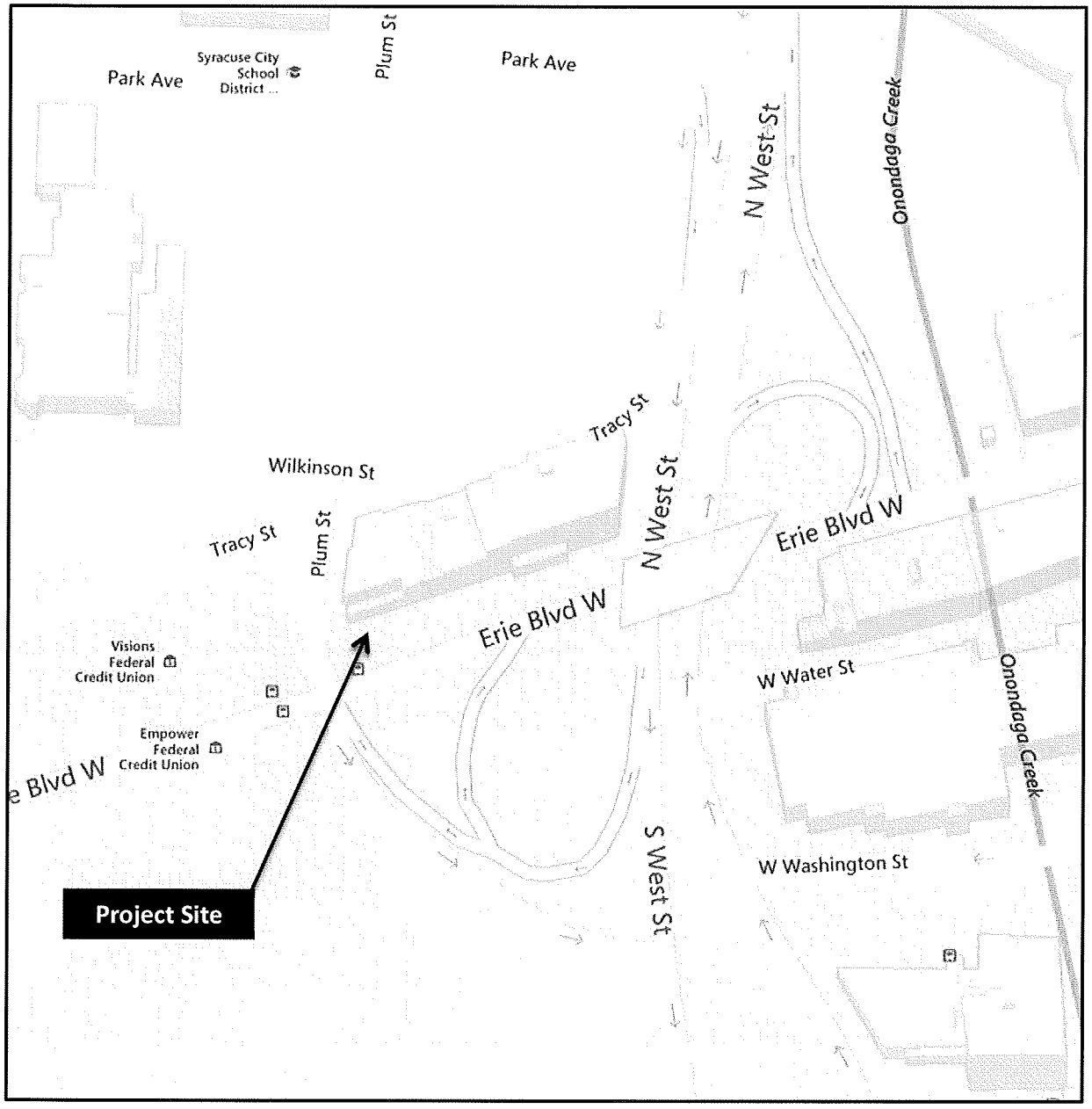
Site Location Map

HSE Consulting Services, LLC

Air Quality
Asbestos / Lead / Mold
OSHA Compliance / Training
Environmental Services

Site Location Map

400 Erie Boulevard West
Syracuse, New York 13204



8636 Brewerton Road
Cicero, New York 13039

Ph # (315) 698-1438
Fax # (315) 698-1441
www.hseconsultingservices.com

ATTACHMENT 2

Project Diagram

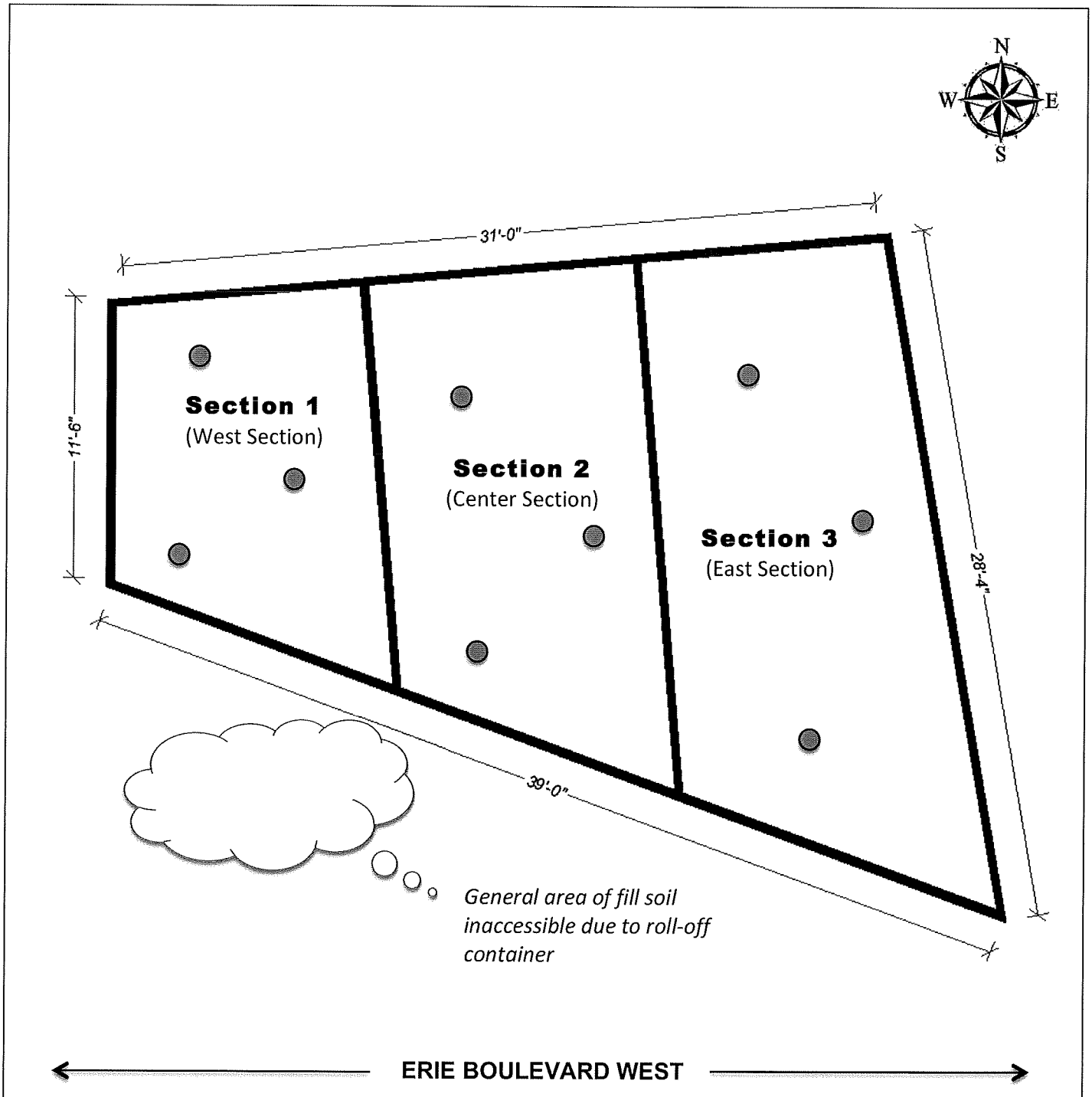


Figure Reference:

HSE Consulting Services, LLC 8636 Brewerton Road, Cicero, NY 13039 Telephone: 315-698-1438 ◈ Fax: 315-698-1441 www.hseconsultingservices.com	**Figure 1** – Approximate Fill Area Sampled	**KEY** ● = General Grab Sample Locations
	400 Erie Blvd. West Syracuse, NY 13204	City of Syracuse Onondaga County
Drafter: Daniel R. Hoosock	**Date** 07/23/2015	**Project No.**

ATTACHMENT 3

Representative Project Photographs

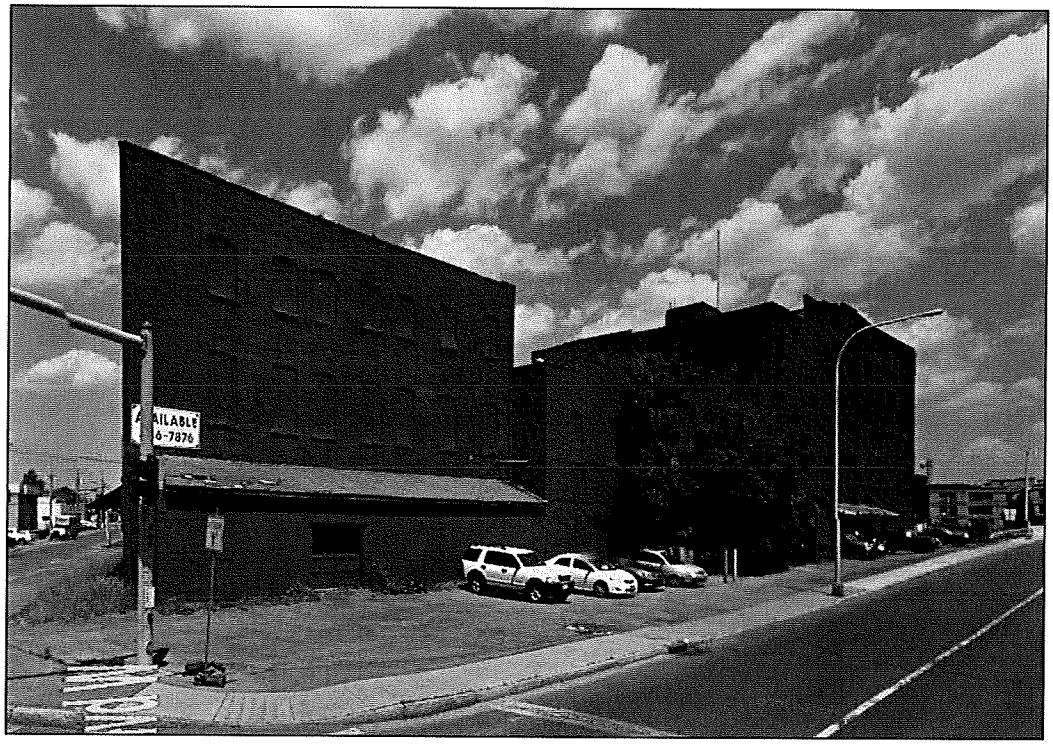


PHOTO 1: Google Street View of property looking northeast (pre-collapse/demolition)

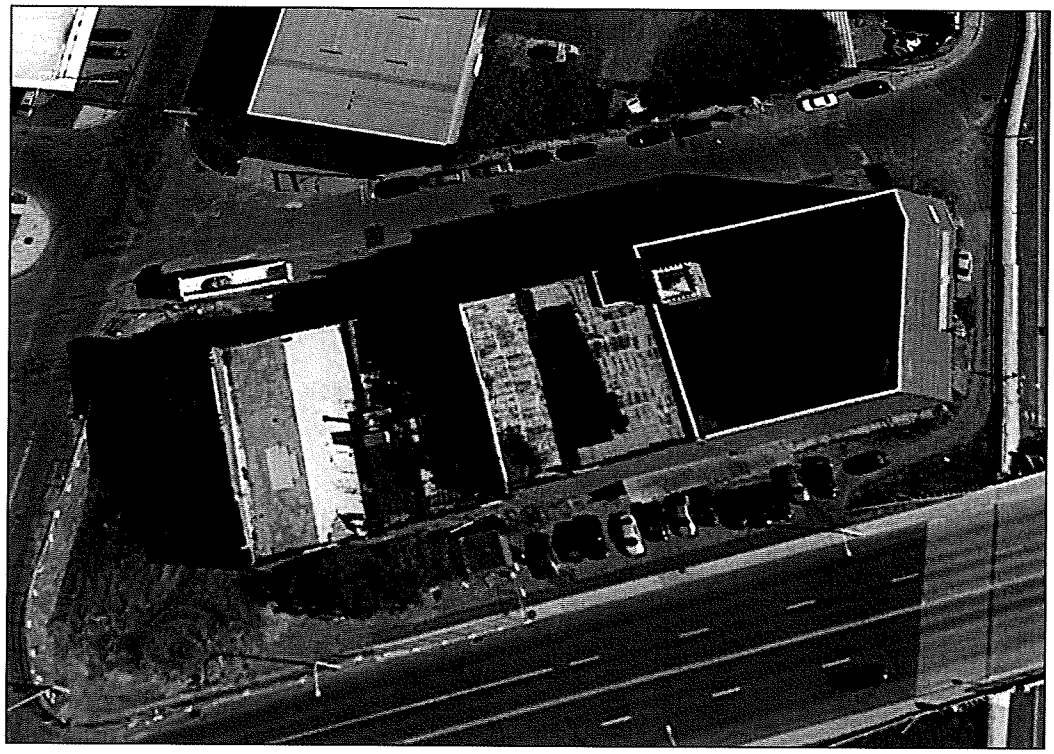


PHOTO 2: Google Earth view of the subject property (5/28/2015, post collapse/demo)

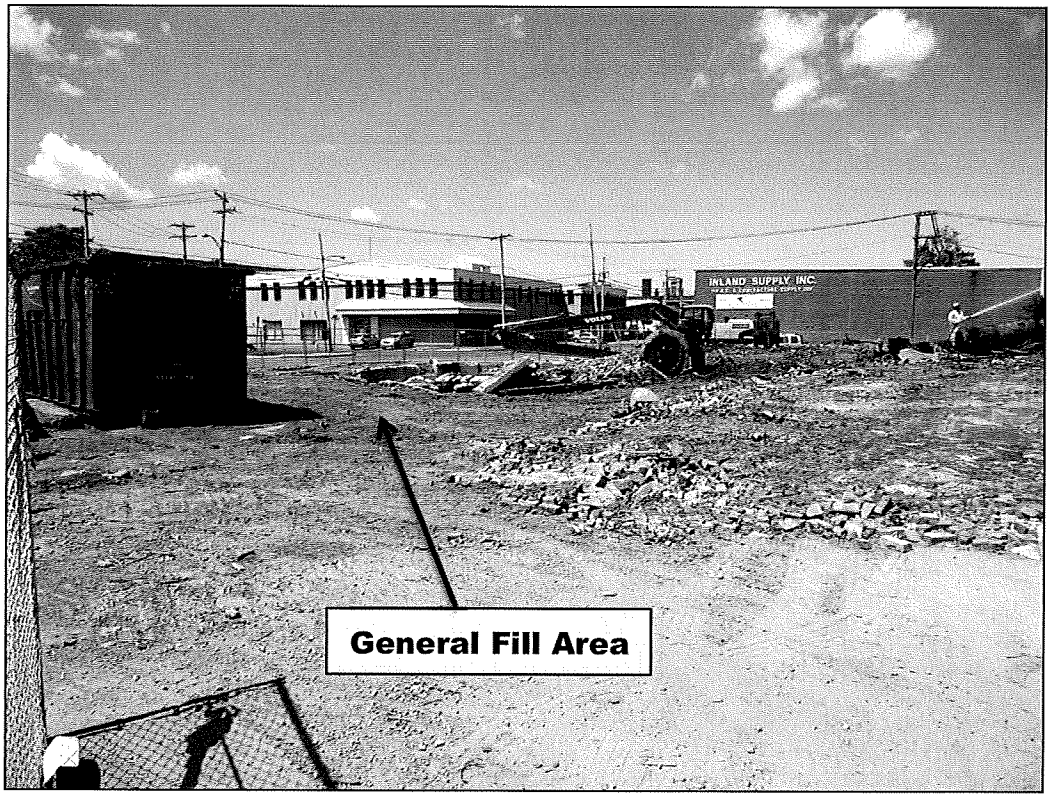


PHOTO 3: View of the general fill area looking northwest

PHOTO 4: View of equipment and materials in southwest corner of property

PHOTO 5: Demolition debris from current owner work along eastern edge of fill area

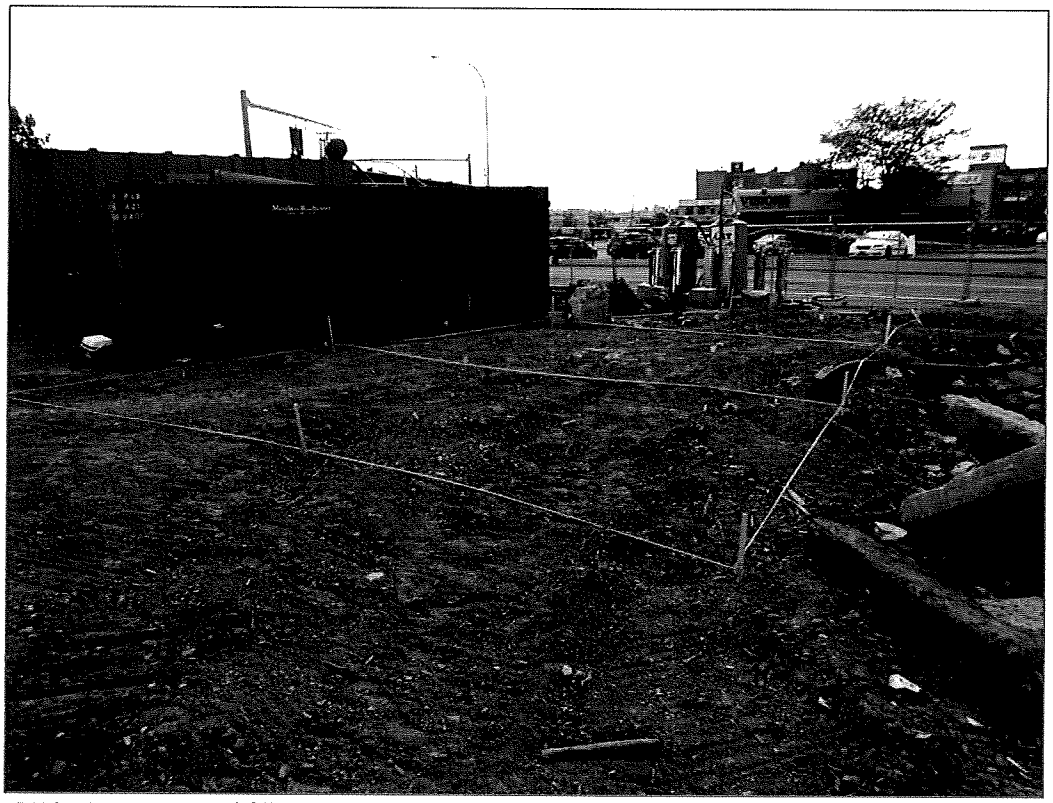


PHOTO 6: Imported fill soil area after being demarcated for sampling (blue roll-off container reportedly covers a section of the imported fill soil area)

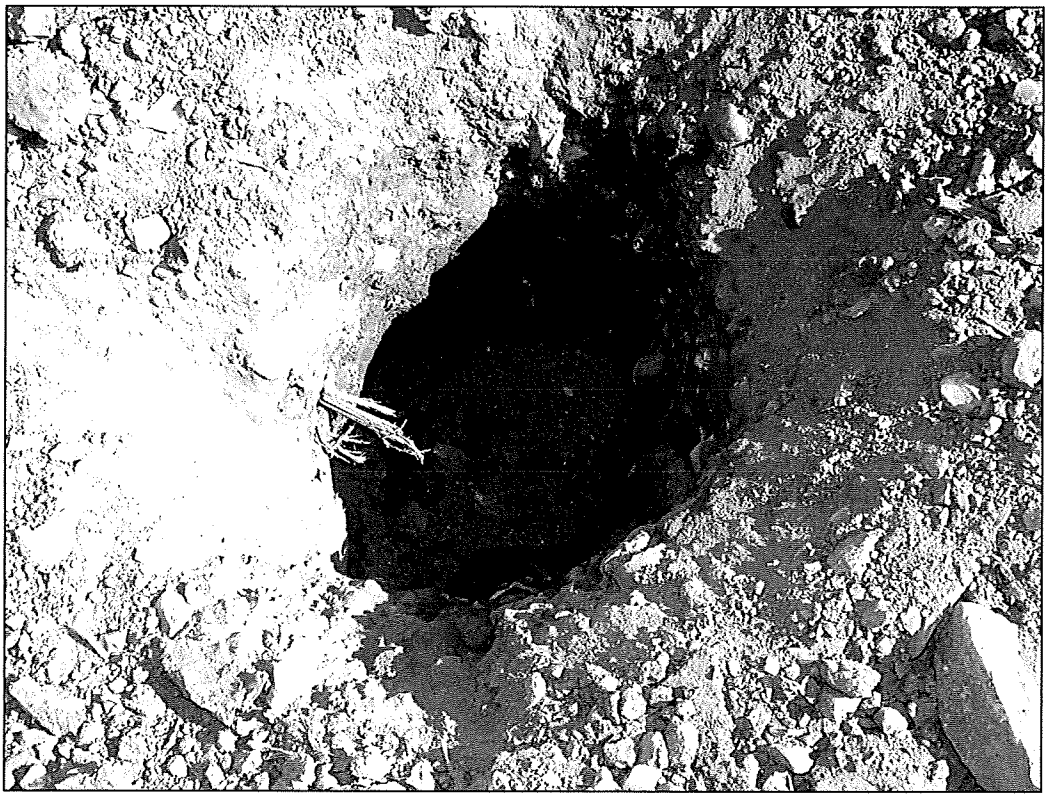


PHOTO 7: Example grab sample location after being prepared for sampling

PHOTO 8: Example composite of individual grab samples from a fill area section

HSE
Consulting Services, LLC

Air Quality
Asbestos / Lead / Mold
OSHA Compliance / Training
Environmental Services

ATTACHMENT 4

Laboratory Analysis Reports
&
Chain-of-Custody Record

Pace Analytical®

Date Issued: July 30, 2015

Pace Analytical e-Report

Report prepared for:
HSE CONSULTING SERVICES
8636 BREWERTON ROAD
CICERO, NY 13039
CONTACT: DANIEL R. HOOSOCK

Project ID: 400 ERIE BLVD. WEST SYRACUSE
Sampling Date(s): July 22, 2015
Lab Report ID: 15070646
Client Service Contact: Nicole Johnson (518) 346-4592

Analysis Included:
Metals Analysis Sub - Pace PA

Test results meet all National Environmental Laboratory Accreditation Conference (NELAC) requirements unless noted in the case narrative. The results contained within this document relate only to the samples included in this report. Pace Analytical is responsible only for the certified testing and is not directly responsible for the integrity of the sample before laboratory receipt. This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc.

Roy Smith
Technical Director

NELAP ACCREDITED TNI LABORATORY

Certifications: New York (EPA: NY00906, ELAP: 11078), New Jersey (NY026), Connecticut (PH-0337), Massachusetts (M-NY906), Virginia (1884)

Pace Analytical Services, Inc.| 2190 Technology Drive | Schenectady, NY 12308
Phone: 518.346.4592 | internet: www.pacelabs.com

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Table of Contents

CASE NARRATIVE

July 30, 2015

CASE NARRATIVE

This data package (SDG ID: 15070646) consists of 3 soil samples received on 07/24/2015. The samples are from Project Name: 400 ERIE BLVD. WEST SYRACUSE.

This sample delivery group consists of the following samples:

Lab Sample ID	Client ID	Collection Date
AS19873	DH72215-IFSC1	07/22/2015 16:20
AS19874	DH72215-IFSC2	07/22/2015 16:55
AS19875	DH72215-IFSC3	07/22/2015 17:20

1

Sample Delivery and Receipt Conditions

(1.) All samples were received at the laboratory intact and within holding times.

(2.) All samples were received at the laboratory properly preserved, if applicable.

Subcontract Analysis

Please see Pace PA lab report for quality assurance details. The following technical and administrative items were noted for the analysis:

(1.) All quality assurance parameters were met for this analysis, unless otherwise noted.

Respectfully submitted,

Chelsea L. Farmer
Project Manager

S:\Lims Data\1507\15070646\Package\CN_15070646_Rev00.doc

QUALIFIERS

Definitions

B - Denotes analyte observed in associated method blank or extraction blank. Analyte concentration should be considered as estimated.

D - Surrogate was diluted. The analysis of the sample required a dilution such that the surrogate concentration was diluted outside the laboratory acceptance criteria.

E - Denotes analyte concentration exceeded calibration range of instrument. Sample could not be reanalyzed at secondary dilution due to insufficient sample amount, quick turn-around request, sample matrix interference or hold time excursion. Concentration result should be considered as estimated.

J - Denotes an estimated concentration. The concentration result is greater than or equal to the Method Detection Limit (MDL) but less than the Practical Quantitation Limit (PQL).

MDL – Adjusted Method Detection Limit.

P - Indicates relative percent difference (RPD) between primary and secondary gas chromatograph (GC) column analysis exceeds 40 % or indicates percent difference (PD) between primary and secondary gas chromatograph (GC) column analysis exceeds 25 %.

PQL – Practical Quantitation Limit. PQLs are adjusted for sample weight/volume and dilution factors.

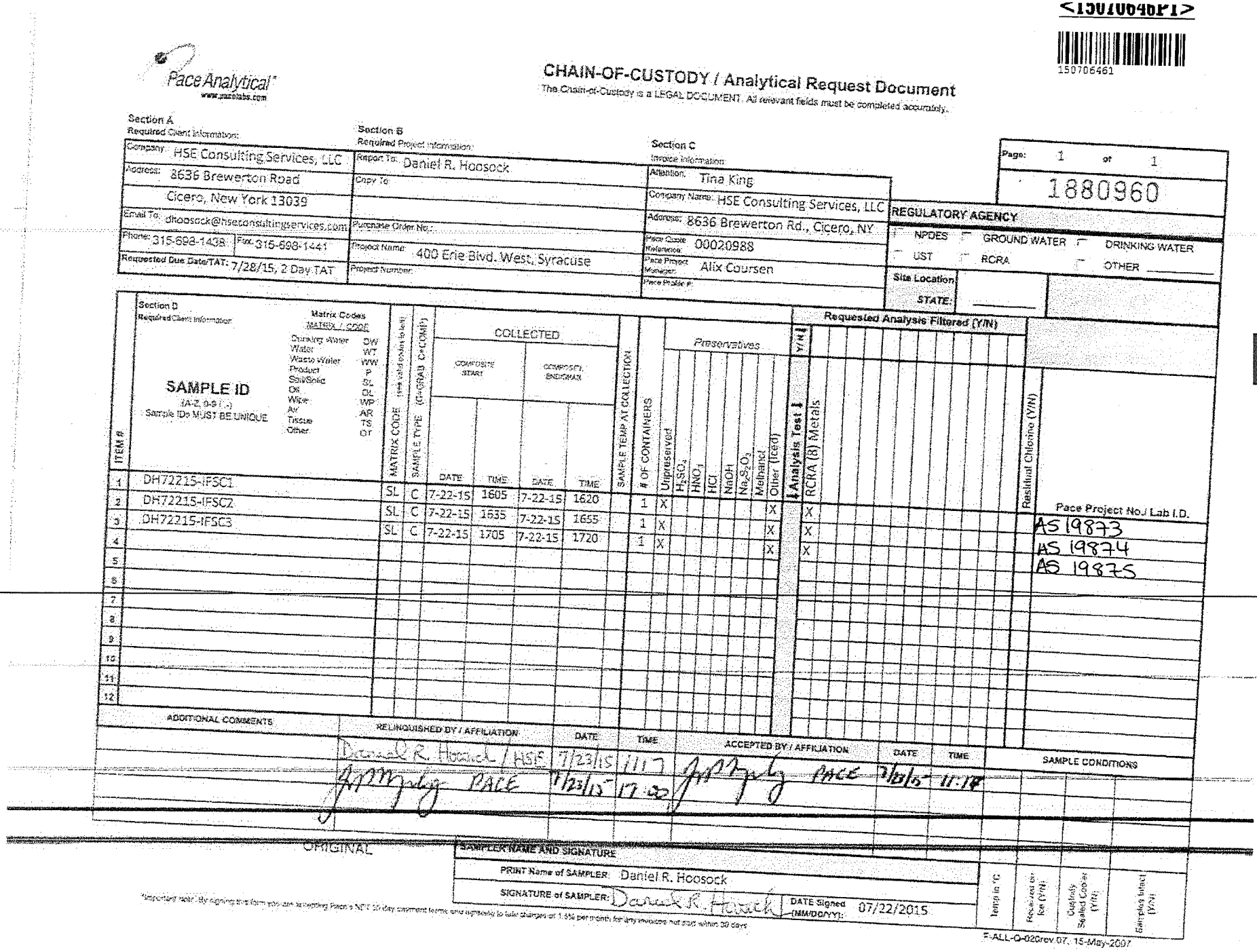
RL - Reporting Limit Denotes lowest analyte concentration reportable for the sample based on regulatory or project specific limits.

U - Denotes analyte not detected at concentration greater than the Practical Quantitation Limit (PQL) or the Reporting Limit (RL) or the Method Detection Limit (MDL) as applicable.

Z - Chromatographic interference due to polychlorinated biphenyl (PCB) co-elution.

* - Value not within control limits.

SAMPLE CHAIN OF CUSTODY



Pace Analytical
www.paceLabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

1880960

Section A — Required Client Information:
Company: HSE Consulting Services, LLC
Address: 8636 Brewerton Road
Cicero, New York 13039
Email To: dhoosock@hseconsultingservices.com
Phone: 315-698-1438 Fax: 315-698-1441
Requested Due Date/TAT: 7/28/15, 2 Day TAT

Section B — Required Project Information:
Report To: Daniel R. Hoosock
Copy To:
Purchase Order No.:
Project Name: 400 Erie Blvd. West, Syracuse
Project Number:

Section C — Invoice Information:
Attention: Tina King
Company Name: HSE Consulting Services, LLC
Address: 8636 Brewerton Rd., Cicero, NY
Pace Quote Reference: 00020988
Pace Project Manager: Alix Coursen
Pace Profile #:

REGULATORY AGENCY
NPDES GROUND WATER DRINKING WATER
UST RCRA OTHER
Site Location: STATE:

Section D — Required Client Information

Matrix Codes (MATRIX / CODE): Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

SAMPLE ID (A-Z, 0-9 / , -) Sample IDs MUST BE UNIQUE

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other (Iced)	Requested Analysis Filtered (Y/N)	Analysis Test: RCRA (8) Metals	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	DH72215-IFSC1	SL	C	7-22-15	1605	7-22-15	1620		1	X							X		X		AS 19873
2	DH72215-IFSC2	SL	C	7-22-15	1635	7-22-15	1655		1	X							X		X		AS 19874
3	DH72215-IFSC3	SL	C	7-22-15	1705	7-22-15	1720		1	X							X		X		AS 19875
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Daniel R. Hoosock / HSE	7/23/15	1117	PACE	7/23/15	11:17	
	PACE	7/23/15	17:00				

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Daniel R. Hoosock
SIGNATURE of SAMPLER: Daniel R. Hoosock
DATE Signed (MM/DD/YY): 07/22/2015

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007

SAMPLE RECEIPT

SAMPLE RECEIPT REPORT
15070646

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

CLIENT: HSE CONSULTING SERVICES
PROJECT: 400 ERIE BLVD. WEST SYRACUSE
LRF: 15070646
REPORT: ANALYTICAL REPORT
EDD: NO
LRF TAT: *2 DAY*

RECEIVED DATE: 07/24/2015 11:42
SHIPPED VIA: NA
SHIPPING ID:
NUMBER OF COOLERS: 0
CUSTODY SEAL INTACT: NA
COOLER STATUS: NA
TEMPERATURE(S): [5]NA °C

SAMPLE SEALS INTACT: NA
[1,2]**SAMPLES PRESERVED PER METHOD GUIDANCE:** NA
[3] **SAMPLES REC'D IN HOLDTIME:** NA
DISPOSAL: BY LAB (45 DAYS)
COC DISCREPANCY: NA

COMMENTS:
SAMPLES SHIPPED DIRECTLY TO SUBCONTRACT LABORATORY.

CLIENT ID (LAB ID)	TAT-DUE Date[4]	DATE-TIME SAMPLED	MATRIX	METHOD	TEST DESCRIPTION	QC REQUEST
DH72215-IFSC1 (AS19873)	*2 DAY* 07-28-15	07/22/2015 16:20	Soil	EPA 6010	Metals Analysis Sub - Pace PA	
DH72215-IFSC2 (AS19874)	*2 DAY* 07-28-15	07/22/2015 16:55	Soil	EPA 6010	Metals Analysis Sub - Pace PA	
DH72215-IFSC3 (AS19875)	*2 DAY* 07-28-15	07/22/2015 17:20	Soil	EPA 6010	Metals Analysis Sub - Pace PA	

4

[1]The pH preservation check of Oil and Grease (Method 1664) and Total Organic Carbon (Method 5310B) are performed as soon as possible after sample receipt and may not be included in this report.
[2]The pH preservation check of aqueous volatile samples is not performed until after the analysis of the sample to maintain zero headspace and is not included in this report.
[3]Samples received for pH analysis are not marked as a hold time exceedance here. SW-846 methods suggests analysis to be done within 15 minutes of sample collection. Because of transportation time it [4]is not possible for the laboratory to perform the test in that time. Sample Certificates of Analysis reports are noted as such.
Samples arriving at the laboratory after 4:00 pm are assigned a due date as if they arrived the following business day unless other arrangements have been made.
The due date represents the date the lab report is expected to be completed on or before 5:00 pm (EST) for the date specified.
[5]All samples which require thermal preservation shall be considered acceptable when received greater than 6 degrees Celsius if they are collected on the same day as received and there is evidence that the chilling process has begun, such as arrival on ice.Control limits are between 0-6 Degrees Celsius. Control limits do not apply for metals analysis.
[6]Samples requesting analysis for Orthophosphate (SM 4500-P E-99,-11) require the samples to be filtered in the field within 15 minutes of the sampling event. Samples that are received unfiltered will be noted as not method compliant on the Certificates of Analysis.

Reporting Parameters and Lists

Subcontract Analysis

5

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Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

July 30, 2015

Nicole Johnson
Pace Analytical New York
2190 Technology Drive
Schenectady, NY 12308

RE: Project: 15070646
Pace Project No.: 30154293

5

Dear Nicole Johnson:
Enclosed are the analytical results for sample(s) received by the laboratory on July 24, 2015. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

This report was reissued on 7/30/15 to correct the metals list.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Samantha Bayura

Samantha Bayura
samantha.bayura@pacelabs.com
Project Manager

Enclosures

cc: Jill Grygas, Pace Analytical New York

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

CERTIFICATIONS

Project: 15070646
Pace Project No.: 30154293

Pennsylvania Certification IDs
1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ACLASS DOD-ELAP Accreditation #: ADE-1544
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California/TNI Certification #: 04222CA
Colorado Certification
Connecticut Certification #: PH-0694
Delaware Certification
Florida/TNI Certification #: E87683
Guam/PADEP Certification
Hawaii/PADEP Certification
Idaho Certification
Illinois/PADEP Certification
Indiana/PADEP Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: 90133
Louisiana DHH/TNI Certification #: LA140008
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: PA00091
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification
Missouri Certification #: 235
Montana Certification #: Cert 0082
Nebraska Certification #: NE-05-29-14
Nevada Certification
New Hampshire/TNI Certification #: 2976
New Jersey/TNI Certification #: PA 051
New Mexico Certification
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Oregon/TNI Certification #: PA200002
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
South Dakota Certification
Tennessee Certification #: TN2867
Texas/TNI Certification #: T104704188
Utah/TNI Certification #: PA014572014-4
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 460198
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin/PADEP Certification
Wyoming Certification #: 8TMS-Q

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

PROJECT NARRATIVE

Project: 15070646
Pace Project No.: 30154293

Method: **EPA 6010C**
Description: 6010C MET ICP
Client: Pace Analytical Services, Inc.
Date: July 30, 2015

General Information:
3 samples were analyzed for EPA 6010C. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3050B with any exceptions noted below.

5

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MPRP/16099

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 30154292001

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 929198)
  - Barium
  - Lead
- MSD (Lab ID: 929197)
  - Lead

R1: RPD value was outside control limits.

- MSD (Lab ID: 929197)
  - Arsenic
  - Barium
  - Cadmium
  - Chromium
  - Lead
  - Selenium
  - Silver

Additional Comments:

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

PROJECT NARRATIVE

Project: 15070646
Pace Project No.: 30154293

Method: **EPA 7471B**
Description: 7471B Mercury
Client: Pace Analytical Services, Inc.
Date: July 30, 2015

General Information:
3 samples were analyzed for EPA 7471B. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 7471A with any exceptions noted below.

5

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: 15070646
Pace Project No.: 30154293

Sample: DH72215-IFSC1 **Lab ID: 30154292001** Collected: 07/22/15 16:20 Received: 07/24/15 09:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010C MET ICP	Analytical Method: EPA 6010C Preparation Method: EPA 3050B							
Arsenic	**5.1**	mg/kg	0.55	1	07/29/15 09:08	07/30/15 09:56	7440-38-2	R1
Barium	**97.7**	mg/kg	2.2	1	07/29/15 09:08	07/30/15 09:56	7440-39-3	M1,R1
Cadmium	ND	mg/kg	0.33	1	07/29/15 09:08	07/30/15 09:56	7440-43-9	R1
Chromium	**25.4**	mg/kg	0.55	1	07/29/15 09:08	07/30/15 09:56	7440-47-3	R1
Lead	**113**	mg/kg	0.55	1	07/29/15 09:08	07/30/15 11:27	7439-92-1	M1,R1
Selenium	ND	mg/kg	0.89	1	07/29/15 09:08	07/30/15 09:56	7782-49-2	R1
Silver	ND	mg/kg	0.66	1	07/29/15 09:08	07/30/15 09:56	7440-22-4	R1
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471A							
Mercury	ND	mg/kg	0.12	1	07/27/15 14:44	07/28/15 10:43	7439-97-6	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**14.8**	%	0.10	1		07/27/15 19:33		

Sample: DH72215-IFSC2 **Lab ID: 30154293002** Collected: 07/22/15 16:55 Received: 07/24/15 09:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010C MET ICP	Analytical Method: EPA 6010C Preparation Method: EPA 3050B							
Arsenic	**5.0**	mg/kg	0.36	1	07/29/15 09:08	07/30/15 10:03	7440-38-2	
Barium	**86.9**	mg/kg	1.5	1	07/29/15 09:08	07/30/15 10:03	7440-39-3	
Cadmium	**3.1**	mg/kg	0.22	1	07/29/15 09:08	07/30/15 10:03	7440-43-9	
Chromium	**21.9**	mg/kg	0.36	1	07/29/15 09:08	07/30/15 10:03	7440-47-3	
Lead	**105**	mg/kg	0.36	1	07/29/15 09:08	07/30/15 11:34	7439-92-1	
Selenium	**0.93**	mg/kg	0.58	1	07/29/15 09:08	07/30/15 10:03	7782-49-2	
Silver	ND	mg/kg	0.44	1	07/29/15 09:08	07/30/15 10:03	7440-22-4	
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471A							
Mercury	ND	mg/kg	0.12	1	07/27/15 14:44	07/28/15 10:48	7439-97-6	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**13.2**	%	0.10	1		07/27/15 19:33		

Sample: DH72215-IFSC3 **Lab ID: 30154293003** Collected: 07/22/15 17:20 Received: 07/24/15 09:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010C MET ICP	Analytical Method: EPA 6010C Preparation Method: EPA 3050B							
Arsenic	**5.4**	mg/kg	0.52	1	07/29/15 09:08	07/30/15 10:06	7440-38-2	
Barium	**198**	mg/kg	2.1	1	07/29/15 09:08	07/30/15 10:06	7440-39-3	
Cadmium	**0.41**	mg/kg	0.31	1	07/29/15 09:08	07/30/15 10:06	7440-43-9	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
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Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: 15070646
Pace Project No.: 30154293

Sample: DH72215-IFSC3 **Lab ID: 30154293003** Collected: 07/22/15 17:20 Received: 07/24/15 09:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010C MET ICP	Analytical Method: EPA 6010C Preparation Method: EPA 3050B							
Chromium	**34.7**	mg/kg	0.52	1	07/29/15 09:08	07/30/15 10:06	7440-47-3	
Lead	**99.6**	mg/kg	0.52	1	07/29/15 09:08	07/30/15 11:36	7439-92-1	
Selenium	ND	mg/kg	0.83	1	07/29/15 09:08	07/30/15 10:06	7782-49-2	
Silver	ND	mg/kg	0.62	1	07/29/15 09:08	07/30/15 10:06	7440-22-4	
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471A							
Mercury	ND	mg/kg	0.12	1	07/27/15 14:44	07/28/15 10:50	7439-97-6	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**18.6**	%	0.10	1		07/27/15 19:33		

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: 15070646
Pace Project No.: 30154293

QC Batch: MERP/6733 Analysis Method: EPA 7471B
QC Batch Method: EPA 7471A Analysis Description: 7471B Mercury
Associated Lab Samples: 30154292001, 30154293002, 30154293003

METHOD BLANK: 928203 Matrix: Solid
Associated Lab Samples: 30154292001, 30154293002, 30154293003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/kg	ND	0.10	07/28/15 10:40	

LABORATORY CONTROL SAMPLE: 928204

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	.042	.043J	103	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 928205 928206

Parameter	Units	30154292001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Mercury	mg/kg	ND	.12	.12	0.21	0.22	98	100	80-120	1	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: 15070646
Pace Project No.: 30154293

QC Batch: MPRP/16099 Analysis Method: EPA 6010C
QC Batch Method: EPA 3050B Analysis Description: 6010C MET
Associated Lab Samples: 30154292001, 30154293002, 30154293003

METHOD BLANK: 929195 Matrix: Solid
Associated Lab Samples: 30154292001, 30154293002, 30154293003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/kg	ND	0.50	07/30/15 09:51	
Barium	mg/kg	ND	2.0	07/30/15 09:51	
Cadmium	mg/kg	ND	0.30	07/30/15 09:51	
Chromium	mg/kg	ND	0.50	07/30/15 09:51	
Lead	mg/kg	ND	0.50	07/30/15 11:22	
Selenium	mg/kg	ND	0.80	07/30/15 09:51	
Silver	mg/kg	ND	0.60	07/30/15 09:51	

LABORATORY CONTROL SAMPLE: 929196

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	50	48.3	97	80-120	
Barium	mg/kg	50	51.0	102	80-120	
Cadmium	mg/kg	50	50.1	100	80-120	
Chromium	mg/kg	50	52.0	104	80-120	
Lead	mg/kg	50	48.2	96	80-120	
Selenium	mg/kg	50	47.3	95	80-120	
Silver	mg/kg	25	24.2	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 929198 929197

Parameter	Units	30154292001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Arsenic	mg/kg	5.1	50.6	39.1	53.6	40.5	96	90	75-125	28	R1
Barium	mg/kg	97.7	50.6	39.1	213	138	228	104	75-125	43	M1,R1
Cadmium	mg/kg	ND	50.6	39.1	50.7	38.8	100	98	75-125	27	R1
Chromium	mg/kg	25.4	50.6	39.1	85.3	54.9	118	76	75-125	43	R1
Lead	mg/kg	113	50.6	39.1	228	104	229	-22	75-125	75	M1,R1
Selenium	mg/kg	ND	50.6	39.1	47.9	36.6	93	92	75-125	27	R1
Silver	mg/kg	ND	25.3	19.6	25.1	19.2	99	98	75-125	27	R1

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: 15070646
Pace Project No.: 30154293

QC Batch: PMST/5494 Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 30154292001, 30154293002, 30154293003

SAMPLE DUPLICATE: 928427

Parameter	Units	30153874001 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	4.1	4.9	17	

SAMPLE DUPLICATE: 928428

Parameter	Units	30154156001 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	21.0	21.9	4	

5

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
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Greensburg, PA 15601
(724)850-5600

QUALIFIERS

Project: 15070646
Pace Project No.: 30154293

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
R1	RPD value was outside control limits.

5

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 15070646
Pace Project No.: 30154293

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30154292001	**DH72215-IFSC1**	EPA 3050B	MPRP/16099	EPA 6010C	ICP/15272
30154293002	**DH72215-IFSC2**	EPA 3050B	MPRP/16099	EPA 6010C	ICP/15272
30154293003	**DH72215-IFSC3**	EPA 3050B	MPRP/16099	EPA 6010C	ICP/15272
30154292001	**DH72215-IFSC1**	EPA 7471A	MERP/6733	EPA 7471B	MERC/6429
30154293002	**DH72215-IFSC2**	EPA 7471A	MERP/6733	EPA 7471B	MERC/6429
30154293003	**DH72215-IFSC3**	EPA 7471A	MERP/6733	EPA 7471B	MERC/6429
30154292001	**DH72215-IFSC1**	ASTM D2974-87	PMST/5494		
30154293002	**DH72215-IFSC2**	ASTM D2974-87	PMST/5494		
30154293003	**DH72215-IFSC3**	ASTM D2974-87	PMST/5494		

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

30154293

Page: 1 of 1

1880960

Section A Required Client Information:

Company:	HSE Consulting Services, LLC
Address:	8636 Brewerton Road
	Cicero, New York 13039
Email To:	dhoosock@hseconsultingservices.com
Phone: 315-698-1438	Fax: 315-698-1441
Requested Due Date/TAT:	7/28/15, 2 Day TAT

Section B Required Project Information:

Report To:	Daniel R. Hoosock
Copy To:	
Purchase Order No.:	
Project Name:	400 Erie Blvd. West, Syracuse
Project Number:	

Section C Invoice Information:

Attention:	Tina King
Company Name:	HSE Consulting Services, LLC
Address:	8636 Brewerton Rd., Cicero, NY
Pace Quote Reference	00020988
Pace Project Manager:	Alix Coursen
Pace Profile #:	

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: _____

Section D Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Matrix Codes (MATRIX / CODE)

Drinking Water	DW
Water	WT
Waste Water	WW
Product	P
Soil/Solid	SL
Oil	OL
Wipe	WP
Air	AR
Tissue	TS
Other	OT

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other (Iced)	Requested Analysis Filtered (Y/N) Y/N	Analysis Test ↓ RCRA (8) Metals	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	DH72215-IFSC1	SL	C	7-22-15	1605	7-22-15	1620		1	X							X		X		01
2	DH72215-IFSC2	SL	C	7-22-15	1635	7-22-15	1655		1	X							X		X		02
3	DH72215-IFSC3	SL	C	7-22-15	1705	7-22-15	1720		1	X							X		X		03
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Daniel R. Hoosock / HSE	7/23/15	1117	PACE	7/23/15	11:17				
	PACE	7/23/15	17:00		7/23/15	0956	1.8	Y	Y	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Daniel R. Hoosock

SIGNATURE of SAMPLER: Daniel R. Hoosock DATE Signed (MM/DD/YY): 07/22/2015

Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007

301542973

CHAIN OF CUSTODY RECORD

PAGE 1 OF 1

Pace Analytical Services, Inc.

2190 Technology Drive, Schenectady, NY 12308
Telephone (518) 346-4592 Fax (518) 381-6055
www.pacelabs.com

LRF # 15070646
(LAB USE ONLY)

DISPOSAL REQUIREMENTS: (To be filled in by Client)

- ○ RETURN TO CLIENT
- ● DISPOSAL BY RECEIVING LAB
- ○ ARCHIVAL BY RECEIVING LAB

Additional charges incurred for disposal (if hazardous) or archival. Call for details.

CLIENT (REPORTS TO BE SENT TO): PACE	PROJECT#/PROJECT NAME: 15070646
PROJECT MANAGER: Nicole Johnson	LOCATION (CITY/STATE) ADDRESS: NY
Project: ERIE	REQUIRED TURN AROUND TIME: **2 DAY RUSH** 7/28/2015
Notes: SAMPLES WERE SHIPPED DIRECTLY TO PACE IN PITTSBURGH	SEND RESULTS TO: NICOLE.JOHNSON@PACELABS.COM
ELECTRONIC RESULTS: Nicole.Johnson@pacelabs.com; Jill.Grygas@pacelabs.com	

ENTER ANALYSIS AND METHOD NUMBER REQUESTED

PRESERVATIVE KEY: 0 - ICE; 1 - HCL; 2 - HNO3; 3 - H2SO4; 4 - NaOH; 5 - Zn. Acetate; 6 - MeOH; 7 - NaHSO4; 8 - Other (Na2SO3)

SAMPLE ID	DATE	TIME	MATRIX	GRAB/ COMP	LAB SAMPLE ID (LAB USE ONLY)	NUMBER OF CONTAINERS	RCRA 8 METALS						REMARKS:
						PRESERVATIVE CODE:							
						BOTTLE TYPE:							
						BOTTLE SIZE:							
DH72215-IFSC1	7/22/15	16:20	S	COMP	AS19873	1	X						
DH72215-IFSC2	7/22/15	16:55	S	COMP	AS19874	1	X						
DH72215-IFSC3	7/22/15	17:20	S	COMP	AS19875	1	X						

AMBIENT OR CHILLED:	TEMP:	COC TAPE: Y N	PROPERLY PRESERVED: Y N
RECEIVED BROKEN OR LEAKING: Y N		COC DISCREPANCIES: Y N	RECVD W/I HOLDING TIMES: Y N

OTHER NOTES: Analytical Report [LEVEL-2] EDD: None

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
SIGNATURE	SIGNATURE	SIGNATURE	SIGNATURE	SIGNATURE	SIGNATURE
PRINTED NAME	PRINTED NAME	PRINTED NAME	PRINTED NAME	PRINTED NAME	PRINTED NAME
COMPANY	COMPANY	COMPANY	COMPANY	COMPANY	COMPANY
DATE/TIME	DATE/TIME	DATE/TIME	DATE/TIME	DATE/TIME	DATE/TIME

S:\LOGIN\MDLCOCS

Sample Condition Upon Receipt

Pace Analytical

Client Name: HSE

Project # 30154293

Courier: ☒ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other _____

Tracking #: 870073481809

Custody Seal on Cooler/Box Present: ☒ yes ☐ no Seals Intact: ☒ yes ☐ no Biological Tissue is Frozen: Yes No

Packing Material: Bubble Wrap ___ Bubble Bags ___ None ___ Other _____

Thermometer Used 8 Type of Ice: Wet Blue None ☒ Samples on ice, cooling process has begun

Cooler Temp.: Observed Temp.: 2.2 °C Correction Factor: -0.4 °C Final Temp: 1.8 °C

Date and Initials of person examining contents: AMM 7/24/15

Temp should be above freezing to 6°C

Comments:

Chain of Custody Present:	☒Yes	☐No	☐N/A
Chain of Custody Filled Out:	☒Yes	☐No	☐N/A
Chain of Custody Relinquished:	☒Yes	☐No	☐N/A
Sampler Name & Signature on COC:	☒Yes	☐No	☐N/A
Samples Arrived within Hold Time:	☒Yes	☐No	☐N/A
Short Hold Time Analysis (<72hr):	☐Yes	☒No	☐N/A
Rush Turn Around Time Requested:	☒Yes	☐No	☐N/A
Sufficient Volume:	☒Yes	☐No	☐N/A
Correct Containers Used:	☒Yes	☐No	☐N/A
-Pace Containers Used:	☒Yes	☐No	☐N/A
Containers Intact:	☒Yes	☐No	☐N/A
Filtered volume received for Dissolved tests	☐Yes	☐No	☒N/A
Sample Labels match COC:	☒Yes	☐No	☐N/A
-Includes date/time/ID/Analysis Matrix: SL			
All containers needing preservation have been checked.	☐Yes	☐No	☒N/A
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes	☐No	☒N/A
exceptions: VOA, coliform, TOC, O&G, Phenols	☐Yes	☒No	
Samples checked for dechlorination:	☐Yes	☐No	☒N/A
Headspace in VOA Vials (>6mm):	☐Yes	☐No	☒N/A
Trip Blank Present:	☐Yes	☐No	☒N/A
Trip Blank Custody Seals Present	☐Yes	☐No	☒N/A
Pace Trip Blank Lot # (If purchased):			

13. Initial when completed: AMM Lot # of added preservative:

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: PJ Westrick **Date:** 7/24/15

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

Pace Analytical

Project Number: 30154293

Client Name: HSE

Item No.	Matrix Code	Glass Jar (120 / 250 / 500 / 1L)	Soil kit (2 SB, 1M, soil jar)	Chemistry (250 / 500 / 1L)	Organics (1L)	Nutrient (250 / 500)	Phenolics (250 ml)	TOC (40 ml / 250 ml)	TOX (250 ml)	Total Metals	Dissolved Metals preserved Y N	O & G (1L)	TPH (1L)	VOA (40 ml 30 ml)	Cyanide (250 ml)	Sulfide (500 ml)	Bacteria (120 ml)	Wipes / swipe/ smear/ filter	Radchem Nalgene (125 / 250 / 500 / 1L)	Radchem Nalgene (1/2 gal. / 1 gal.L)	Cubitainer (500 ml / 4L)	Ziploc	Other	Other
001	SL	1																						
003	SL	1																						

Attachment C

Laboratory Analytical Results - Surface Soil Sampling (2021)

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

Laboratory Job ID: 480-187041-1
Client Project/Site: 400 Erie Blvd West

For:
Asbestos & Environmental Consulting Corp
6308 Fly Road
East Syracuse, New York 13057

Attn: Mr. George Fischer

Authorized for release by:
7/27/2021 3:59:43 PM
Rebecca Jones, Project Management Assistant I
Rebecca.Jones@Eurofinset.com

Designee for

Brian Fischer, Manager of Project Management
(716)504-9835
Brian.Fischer@Eurofinset.com

Table of Contents

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
E	Result exceeded calibration range.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.

GC/MS Semi VOA TICs

Qualifier	Qualifier Description
J	Indicates an Estimated Value for TICs
N	Presumptive evidence of material.
T	Result is a tentatively identified compound (TIC) and an estimated value.

Metals

Qualifier	Qualifier Description
^6+	Interference Check Standard (ICSA and/or ICSAB) is outside acceptance limits, high biased.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 480-187041-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative
480-187041-1

Comments
No additional comments.

Receipt
The samples were received on 7/10/2021 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.4º C.

GC/MS Semi VOA
Method 8270D: The following samples were diluted due to color and appearance: SS-01 (480-187041-1) and SS-05 (480-187041-5). Elevated reporting limits (RL) are provided.

Method 8270D: The LCS (laboratory control standard) for preparation batch 480-589139 and analytical batch 480-589926 recovered above the upper control limit for multiple analytes and surrogates. The associated samples were non-detect or below the client reporting limit for the analytes. Therefore, the data has been reported and qualified. SS-01 (480-187041-1) and SS-05 (480-187041-5)

Method 8270D: The following compound has been spiked at a level above the upper range of the initial calibration: Benzaldehyde. The laboratory control sample (LCS) and/or laboratory control sample duplicate (LCSD) associated with preparation batch 480-589139 and analytical batch 480-589926 recovered within acceptable limits for this analyte and has been qualified with an "E" flag. (LCS 480-589139/2-A)

Method 8270D: The following samples required a dilution due to physical characteristics: SS-05 (480-187041-5). Because of these dilutions and elevated final volumes at prep, the surrogate spike concentration in the samples were reduced to a level where the recovery calculation does not provide useful information.

Method 8270D: The following samples were diluted due to color, appearance, and viscosity: SS-03 (480-187041-3), SS-03 (480-187041-3[MS]), SS-03 (480-187041-3[MSD]), SS-04 (480-187041-4), SS-06 (480-187041-6) and SS-D (480-187041-7). Elevated reporting limits (RL) are provided.

Method 8270D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 480-590169 and analytical batch 480-590399 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8270D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 480-590169 and analytical batch 480-590399 were diluted below the method detection limit (MDL) for 2,4-Dinitrophenol; therefore, percent recovery and RPD could not be calculated. The associated laboratory control sample (LCS) recovery was within acceptance limits.

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

Metals
Method 6010C: The interference check standard solution (ICSA) associated with the following samples showed results for Barium at a level greater than 2 times the limit of detection (LOD). It is believed that the solution contains trace impurities of this element and the results are not due to matrix interference. These results are consistent with those found by the manufacturer of the ICSA solution. SS-01 (480-187041-1), SS-02 (480-187041-2), SS-03 (480-187041-3), SS-03 (480-187041-3[MS]), SS-03 (480-187041-3[MSD]), SS-04 (480-187041-4), SS-05 (480-187041-5), SS-06 (480-187041-6), SS-D (480-187041-7), (LCDSRM 480-588739/23-A), (LCSSRM 480-588739/2-A), (MB 480-588739/1-A), (480-187041-B-3-A PDS) and (480-187041-B-3-A SD ^5)

Method 6010C: The following samples were diluted due to the presence of Total Calcium which interferes with Copper: SS-01 (480-187041-1), SS-02 (480-187041-2), SS-04 (480-187041-4), SS-05 (480-187041-5) and SS-06 (480-187041-6). Elevated reporting limits (RLs) are provided.

Method 6010C: The Serial Dilution (480-187041-B-3-A SD ^5) in batch 480-589342, exhibited results outside the quality control limits for Total Arsenic. However, the Post Digestion Spike was compliant so no corrective action was necessary.

Job ID: 480-187041-1 (Continued)

Laboratory: Eurofins TestAmerica, Buffalo (Continued)

Method 6010C: The recovery of Post Spike, (480-187041-B-3-A PDS), in batch 480-589342 exhibited results outside the quality control limits for Total Barium, Iron, Magnesium, Manganese, Lead, and Zinc. However, the Serial Dilution of this sample was compliant. Therefore, no corrective action was necessary.

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

Organic Prep
Method 3550C: Due to the matrix, the following sample could not be concentrated to the final method required volume: SS-05 (480-187041-5). The reporting limits (RLs) are elevated proportionately.

Method 3550C: Due to the matrix, the following sample could not be concentrated to the final method required volume: SS-02 (480-187041-2). The reporting limits (RLs) are elevated proportionately.

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

Detection Summary

Client: Asbestos & Environmental Consulting Corp
Project/Site: 400 Erie Blvd West

Job ID: 480-187041-1

Client Sample ID: SS-01

Lab Sample ID: 480-187041-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]pyrene	310	J *+	880	130	ug/Kg	5	☼	8270D	Total/NA
Benzo[b]fluoranthene	470	J *+	880	140	ug/Kg	5	☼	8270D	Total/NA
Benzo[g,h,i]perylene	260	J	880	93	ug/Kg	5	☼	8270D	Total/NA
Benzo[k]fluoranthene	150	J *+	880	110	ug/Kg	5	☼	8270D	Total/NA
Chrysene	380	J *+	880	200	ug/Kg	5	☼	8270D	Total/NA
Fluoranthene	680	J *+	880	93	ug/Kg	5	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	220	J *+	880	110	ug/Kg	5	☼	8270D	Total/NA
Phenanthrene	300	J *+	880	130	ug/Kg	5	☼	8270D	Total/NA
Pyrene	580	J *+	880	100	ug/Kg	5	☼	8270D	Total/NA
Aluminum	9050		11.2	4.9	mg/Kg	1	☼	6010C	Total/NA
Arsenic	3.2		2.2	0.45	mg/Kg	1	☼	6010C	Total/NA
Barium	90.3	^6+	0.56	0.12	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.52		0.22	0.031	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.17	J	0.22	0.034	mg/Kg	1	☼	6010C	Total/NA
Calcium	117000		112	7.4	mg/Kg	2	☼	6010C	Total/NA
Chromium	17.5		0.56	0.22	mg/Kg	1	☼	6010C	Total/NA
Cobalt	5.5		0.56	0.056	mg/Kg	1	☼	6010C	Total/NA
Copper	12.5		2.2	0.47	mg/Kg	2	☼	6010C	Total/NA
Iron	10100		11.2	3.9	mg/Kg	1	☼	6010C	Total/NA
Lead	29.8		1.1	0.27	mg/Kg	1	☼	6010C	Total/NA
Magnesium	41000		22.4	1.0	mg/Kg	1	☼	6010C	Total/NA
Manganese	248		0.22	0.036	mg/Kg	1	☼	6010C	Total/NA
Nickel	15.9		5.6	0.26	mg/Kg	1	☼	6010C	Total/NA
Potassium	3840		33.5	22.4	mg/Kg	1	☼	6010C	Total/NA
Selenium	0.60	J	4.5	0.45	mg/Kg	1	☼	6010C	Total/NA
Sodium	176		157	14.5	mg/Kg	1	☼	6010C	Total/NA
Vanadium	17.2		0.56	0.12	mg/Kg	1	☼	6010C	Total/NA
Zinc	39.4		2.2	0.72	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.030		0.019	0.0043	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SS-02

Lab Sample ID: 480-187041-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	520	J	1900	460	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	2200		1900	190	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	2200		1900	270	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	3400		1900	300	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	1400	J	1900	200	ug/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	1200	J	1900	240	ug/Kg	1	☼	8270D	Total/NA
Bis(2-ethylhexyl) phthalate	660	J	1900	640	ug/Kg	1	☼	8270D	Total/NA
Butyl benzyl phthalate	380	J	1900	310	ug/Kg	1	☼	8270D	Total/NA
Carbazole	240	J	1900	220	ug/Kg	1	☼	8270D	Total/NA
Chrysene	2600		1900	420	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	5000		1900	200	ug/Kg	1	☼	8270D	Total/NA
Fluorene	230	J	1900	220	ug/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	1300	J	1900	230	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	2500		1900	270	ug/Kg	1	☼	8270D	Total/NA
Pyrene	3500		1900	220	ug/Kg	1	☼	8270D	Total/NA
Aluminum	3180		11.4	5.0	mg/Kg	1	☼	6010C	Total/NA
Arsenic	10.4		2.3	0.45	mg/Kg	1	☼	6010C	Total/NA
Barium	164	^6+	0.57	0.12	mg/Kg	1	☼	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SS-02 (Continued)
Lab Sample ID: 480-187041-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Beryllium	0.24		0.23	0.032	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.70		0.23	0.034	mg/Kg	1	☼	6010C	Total/NA
Calcium	127000		114	7.5	mg/Kg	2	☼	6010C	Total/NA
Chromium	39.3		0.57	0.23	mg/Kg	1	☼	6010C	Total/NA
Cobalt	5.3		0.57	0.057	mg/Kg	1	☼	6010C	Total/NA
Copper	49.9		2.3	0.48	mg/Kg	2	☼	6010C	Total/NA
Iron	23000		11.4	4.0	mg/Kg	1	☼	6010C	Total/NA
Lead	478		1.1	0.27	mg/Kg	1	☼	6010C	Total/NA
Magnesium	23700		22.7	1.1	mg/Kg	1	☼	6010C	Total/NA
Manganese	219		0.23	0.036	mg/Kg	1	☼	6010C	Total/NA
Nickel	17.7		5.7	0.26	mg/Kg	1	☼	6010C	Total/NA
Potassium	814		34.1	22.7	mg/Kg	1	☼	6010C	Total/NA
Selenium	2.4	J	4.5	0.45	mg/Kg	1	☼	6010C	Total/NA
Sodium	218		159	14.8	mg/Kg	1	☼	6010C	Total/NA
Vanadium	21.2		0.57	0.12	mg/Kg	1	☼	6010C	Total/NA
Zinc	252		2.3	0.73	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.20		0.023	0.0053	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SS-03
Lab Sample ID: 480-187041-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	480	J	2100	420	ug/Kg	10	☼	8270D	Total/NA
Acenaphthene	350	J	2100	310	ug/Kg	10	☼	8270D	Total/NA
Acenaphthylene	540	J F1	2100	270	ug/Kg	10	☼	8270D	Total/NA
Anthracene	1300	J F2 F1	2100	510	ug/Kg	10	☼	8270D	Total/NA
Benzo[a]anthracene	4600	F2 F1	2100	210	ug/Kg	10	☼	8270D	Total/NA
Benzo[a]pyrene	4400	F1	2100	310	ug/Kg	10	☼	8270D	Total/NA
Benzo[b]fluoranthene	6600	F2 F1	2100	330	ug/Kg	10	☼	8270D	Total/NA
Benzo[g,h,i]perylene	3500	F1	2100	220	ug/Kg	10	☼	8270D	Total/NA
Benzo[k]fluoranthene	2200	F1	2100	270	ug/Kg	10	☼	8270D	Total/NA
Carbazole	440	J F1	2100	240	ug/Kg	10	☼	8270D	Total/NA
Chrysene	4800	F2 F1	2100	460	ug/Kg	10	☼	8270D	Total/NA
Dibenz(a,h)anthracene	900	J F2 F1	2100	370	ug/Kg	10	☼	8270D	Total/NA
Dibenzofuran	350	J F2 F1	2100	240	ug/Kg	10	☼	8270D	Total/NA
Fluoranthene	8000	F2 F1	2100	220	ug/Kg	10	☼	8270D	Total/NA
Fluorene	390	J F2 F1	2100	240	ug/Kg	10	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	3200	F2 F1	2100	260	ug/Kg	10	☼	8270D	Total/NA
Naphthalene	410	J F1	2100	270	ug/Kg	10	☼	8270D	Total/NA
Phenanthrene	5100	F2 F1	2100	310	ug/Kg	10	☼	8270D	Total/NA
Pyrene	7000	F1	2100	240	ug/Kg	10	☼	8270D	Total/NA
Aluminum	5140	F1	12.2	5.3	mg/Kg	1	☼	6010C	Total/NA
Arsenic	14.6		2.4	0.49	mg/Kg	1	☼	6010C	Total/NA
Barium	308	^6+ F2	0.61	0.13	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.73		0.24	0.034	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.46		0.24	0.036	mg/Kg	1	☼	6010C	Total/NA
Calcium	67400		60.8	4.0	mg/Kg	1	☼	6010C	Total/NA
Chromium	14.0		0.61	0.24	mg/Kg	1	☼	6010C	Total/NA
Cobalt	6.6		0.61	0.061	mg/Kg	1	☼	6010C	Total/NA
Copper	84.9		1.2	0.26	mg/Kg	1	☼	6010C	Total/NA
Iron	21100	F2	12.2	4.3	mg/Kg	1	☼	6010C	Total/NA
Lead	400		1.2	0.29	mg/Kg	1	☼	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SS-03 (Continued)
Lab Sample ID: 480-187041-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Magnesium	22600	F2	24.3	1.1	mg/Kg	1	☼	6010C	Total/NA
Manganese	160	F1 F2	0.24	0.039	mg/Kg	1	☼	6010C	Total/NA
Nickel	21.9	F1	6.1	0.28	mg/Kg	1	☼	6010C	Total/NA
Potassium	905	F1	36.5	24.3	mg/Kg	1	☼	6010C	Total/NA
Selenium	2.0	J	4.9	0.49	mg/Kg	1	☼	6010C	Total/NA
Sodium	221		170	15.8	mg/Kg	1	☼	6010C	Total/NA
Vanadium	26.1		0.61	0.13	mg/Kg	1	☼	6010C	Total/NA
Zinc	187	F1	2.4	0.78	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.35		0.026	0.0060	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SS-04
Lab Sample ID: 480-187041-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	320	J	970	190	ug/Kg	5	☼	8270D	Total/NA
Acenaphthylene	230	J	970	130	ug/Kg	5	☼	8270D	Total/NA
Anthracene	330	J	970	240	ug/Kg	5	☼	8270D	Total/NA
Benzo[a]anthracene	1800		970	97	ug/Kg	5	☼	8270D	Total/NA
Benzo[a]pyrene	1800		970	140	ug/Kg	5	☼	8270D	Total/NA
Benzo[b]fluoranthene	2800		970	150	ug/Kg	5	☼	8270D	Total/NA
Benzo[g,h,i]perylene	1700		970	100	ug/Kg	5	☼	8270D	Total/NA
Benzo[k]fluoranthene	890	J	970	130	ug/Kg	5	☼	8270D	Total/NA
Carbazole	140	J	970	110	ug/Kg	5	☼	8270D	Total/NA
Chrysene	2100		970	220	ug/Kg	5	☼	8270D	Total/NA
Dibenz(a,h)anthracene	390	J	970	170	ug/Kg	5	☼	8270D	Total/NA
Fluoranthene	2900		970	100	ug/Kg	5	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	1500		970	120	ug/Kg	5	☼	8270D	Total/NA
Naphthalene	190	J	970	130	ug/Kg	5	☼	8270D	Total/NA
Phenanthrene	1600		970	140	ug/Kg	5	☼	8270D	Total/NA
Pyrene	2700		970	110	ug/Kg	5	☼	8270D	Total/NA
Aluminum	3100		12.2	5.4	mg/Kg	1	☼	6010C	Total/NA
Arsenic	16.5		2.4	0.49	mg/Kg	1	☼	6010C	Total/NA
Barium	69.3	^6+	0.61	0.13	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.32		0.24	0.034	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.83		0.24	0.037	mg/Kg	1	☼	6010C	Total/NA
Calcium	199000		122	8.1	mg/Kg	2	☼	6010C	Total/NA
Chromium	14.3		0.61	0.24	mg/Kg	1	☼	6010C	Total/NA
Cobalt	6.7		0.61	0.061	mg/Kg	1	☼	6010C	Total/NA
Copper	76.4		2.4	0.51	mg/Kg	2	☼	6010C	Total/NA
Iron	34900		12.2	4.3	mg/Kg	1	☼	6010C	Total/NA
Lead	183		1.2	0.29	mg/Kg	1	☼	6010C	Total/NA
Magnesium	33400		24.4	1.1	mg/Kg	1	☼	6010C	Total/NA
Manganese	394		0.24	0.039	mg/Kg	1	☼	6010C	Total/NA
Nickel	18.5		6.1	0.28	mg/Kg	1	☼	6010C	Total/NA
Potassium	977		36.6	24.4	mg/Kg	1	☼	6010C	Total/NA
Selenium	3.0	J	4.9	0.49	mg/Kg	1	☼	6010C	Total/NA
Sodium	196		171	15.9	mg/Kg	1	☼	6010C	Total/NA
Vanadium	14.4		0.61	0.13	mg/Kg	1	☼	6010C	Total/NA
Zinc	159		2.4	0.78	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.20		0.020	0.0047	mg/Kg	1	☼	7471B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SS-05

Lab Sample ID: 480-187041-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	3790		11.3	5.0	mg/Kg	1	☼	6010C	Total/NA
Arsenic	2.9		2.3	0.45	mg/Kg	1	☼	6010C	Total/NA
Barium	51.4	^6+	0.56	0.12	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.20	J	0.23	0.032	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.094	J	0.23	0.034	mg/Kg	1	☼	6010C	Total/NA
Calcium	192000		113	7.4	mg/Kg	2	☼	6010C	Total/NA
Chromium	8.9		0.56	0.23	mg/Kg	1	☼	6010C	Total/NA
Cobalt	2.6		0.56	0.056	mg/Kg	1	☼	6010C	Total/NA
Copper	11.0		2.3	0.47	mg/Kg	2	☼	6010C	Total/NA
Iron	6120		11.3	3.9	mg/Kg	1	☼	6010C	Total/NA
Lead	28.0		1.1	0.27	mg/Kg	1	☼	6010C	Total/NA
Magnesium	56000		45.1	2.1	mg/Kg	2	☼	6010C	Total/NA
Manganese	142		0.23	0.036	mg/Kg	1	☼	6010C	Total/NA
Nickel	8.4		5.6	0.26	mg/Kg	1	☼	6010C	Total/NA
Potassium	1840		33.8	22.6	mg/Kg	1	☼	6010C	Total/NA
Sodium	204		158	14.7	mg/Kg	1	☼	6010C	Total/NA
Vanadium	11.2		0.56	0.12	mg/Kg	1	☼	6010C	Total/NA
Zinc	33.6		2.3	0.72	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.024		0.020	0.0046	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SS-06

Lab Sample ID: 480-187041-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	460	J	1800	270	ug/Kg	10	☼	8270D	Total/NA
Acenaphthylene	560	J	1800	230	ug/Kg	10	☼	8270D	Total/NA
Anthracene	1800		1800	450	ug/Kg	10	☼	8270D	Total/NA
Benzo[a]anthracene	7200		1800	180	ug/Kg	10	☼	8270D	Total/NA
Benzo[a]pyrene	6600		1800	270	ug/Kg	10	☼	8270D	Total/NA
Benzo[b]fluoranthene	8500		1800	290	ug/Kg	10	☼	8270D	Total/NA
Benzo[g,h,i]perylene	4600		1800	190	ug/Kg	10	☼	8270D	Total/NA
Benzo[k]fluoranthene	2600		1800	230	ug/Kg	10	☼	8270D	Total/NA
Carbazole	550	J	1800	210	ug/Kg	10	☼	8270D	Total/NA
Chrysene	6600		1800	400	ug/Kg	10	☼	8270D	Total/NA
Dibenz(a,h)anthracene	1400	J	1800	320	ug/Kg	10	☼	8270D	Total/NA
Fluoranthene	12000		1800	190	ug/Kg	10	☼	8270D	Total/NA
Fluorene	500	J	1800	210	ug/Kg	10	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	4200		1800	220	ug/Kg	10	☼	8270D	Total/NA
Phenanthrene	5900		1800	270	ug/Kg	10	☼	8270D	Total/NA
Pyrene	10000		1800	210	ug/Kg	10	☼	8270D	Total/NA
Aluminum	6390		10.8	4.8	mg/Kg	1	☼	6010C	Total/NA
Arsenic	2.9		2.2	0.43	mg/Kg	1	☼	6010C	Total/NA
Barium	54.8	^6+	0.54	0.12	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.35		0.22	0.030	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.46		0.22	0.032	mg/Kg	1	☼	6010C	Total/NA
Calcium	192000		108	7.1	mg/Kg	2	☼	6010C	Total/NA
Chromium	16.5		0.54	0.22	mg/Kg	1	☼	6010C	Total/NA
Cobalt	4.0		0.54	0.054	mg/Kg	1	☼	6010C	Total/NA
Copper	10.8		2.2	0.45	mg/Kg	2	☼	6010C	Total/NA
Iron	8740		10.8	3.8	mg/Kg	1	☼	6010C	Total/NA
Lead	34.3		1.1	0.26	mg/Kg	1	☼	6010C	Total/NA
Magnesium	54600		43.3	2.0	mg/Kg	2	☼	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SS-06 (Continued)

Lab Sample ID: 480-187041-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	237		0.22	0.035	mg/Kg	1	☼	6010C	Total/NA
Nickel	12.5		5.4	0.25	mg/Kg	1	☼	6010C	Total/NA
Potassium	3190		32.5	21.6	mg/Kg	1	☼	6010C	Total/NA
Sodium	240		151	14.1	mg/Kg	1	☼	6010C	Total/NA
Vanadium	15.7		0.54	0.12	mg/Kg	1	☼	6010C	Total/NA
Zinc	50.2		2.2	0.69	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.059		0.020	0.0047	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SS-D

Lab Sample ID: 480-187041-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	570	J	1200	250	ug/Kg	5	☼	8270D	Total/NA
Acenaphthene	790	J	1200	180	ug/Kg	5	☼	8270D	Total/NA
Acenaphthylene	860	J	1200	160	ug/Kg	5	☼	8270D	Total/NA
Anthracene	2700		1200	310	ug/Kg	5	☼	8270D	Total/NA
Benzo[a]anthracene	10000		1200	120	ug/Kg	5	☼	8270D	Total/NA
Benzo[a]pyrene	9100		1200	180	ug/Kg	5	☼	8270D	Total/NA
Benzo[b]fluoranthene	13000		1200	200	ug/Kg	5	☼	8270D	Total/NA
Benzo[g,h,i]perylene	7000		1200	130	ug/Kg	5	☼	8270D	Total/NA
Benzo[k]fluoranthene	4700		1200	160	ug/Kg	5	☼	8270D	Total/NA
Carbazole	1100	J	1200	150	ug/Kg	5	☼	8270D	Total/NA
Chrysene	11000		1200	280	ug/Kg	5	☼	8270D	Total/NA
Dibenz(a,h)anthracene	2200		1200	220	ug/Kg	5	☼	8270D	Total/NA
Dibenzofuran	600	J	1200	150	ug/Kg	5	☼	8270D	Total/NA
Fluoranthene	17000		1200	130	ug/Kg	5	☼	8270D	Total/NA
Fluorene	740	J	1200	150	ug/Kg	5	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	6500		1200	150	ug/Kg	5	☼	8270D	Total/NA
Naphthalene	570	J	1200	160	ug/Kg	5	☼	8270D	Total/NA
Phenanthrene	11000		1200	180	ug/Kg	5	☼	8270D	Total/NA
Pyrene	16000		1200	150	ug/Kg	5	☼	8270D	Total/NA
Aluminum	6240		15.6	6.9	mg/Kg	1	☼	6010C	Total/NA
Arsenic	17.9		3.1	0.63	mg/Kg	1	☼	6010C	Total/NA
Barium	193	^6+	0.78	0.17	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.74		0.31	0.044	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.92		0.31	0.047	mg/Kg	1	☼	6010C	Total/NA
Calcium	138000		78.1	5.2	mg/Kg	1	☼	6010C	Total/NA
Chromium	17.0		0.78	0.31	mg/Kg	1	☼	6010C	Total/NA
Cobalt	7.3		0.78	0.078	mg/Kg	1	☼	6010C	Total/NA
Copper	76.2		1.6	0.33	mg/Kg	1	☼	6010C	Total/NA
Iron	31500		15.6	5.5	mg/Kg	1	☼	6010C	Total/NA
Lead	460		1.6	0.38	mg/Kg	1	☼	6010C	Total/NA
Magnesium	25400		31.3	1.4	mg/Kg	1	☼	6010C	Total/NA
Manganese	250		0.31	0.050	mg/Kg	1	☼	6010C	Total/NA
Nickel	22.3		7.8	0.36	mg/Kg	1	☼	6010C	Total/NA
Potassium	1150		46.9	31.3	mg/Kg	1	☼	6010C	Total/NA
Selenium	3.0	J	6.3	0.63	mg/Kg	1	☼	6010C	Total/NA
Sodium	266		219	20.3	mg/Kg	1	☼	6010C	Total/NA
Vanadium	21.4		0.78	0.17	mg/Kg	1	☼	6010C	Total/NA
Zinc	284		3.1	1.0	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.41		0.031	0.0071	mg/Kg	1	☼	7471B	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Asbestos & Environmental Consulting Corp
Project/Site: 400 Erie Blvd West

Job ID: 480-187041-1

Client Sample ID: SS-01
Date Collected: 07/09/21 09:15
Date Received: 07/10/21 08:00

Lab Sample ID: 480-187041-1
Matrix: Solid
Percent Solids: 94.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		880	130	ug/Kg	☼	07/15/21 08:23	07/21/21 19:24	5
bis (2-chloroisopropyl) ether	ND		880	180	ug/Kg	☼	07/15/21 08:23	07/21/21 19:24	5
2,4,5-Trichlorophenol	ND	*+	880	240	ug/Kg	☼	07/15/21 08:23	07/21/21 19:24	5
2,4,6-Trichlorophenol	ND		880	180	ug/Kg	☼	07/15/21 08:23	07/21/21 19:24	5
2,4-Dichlorophenol	ND	*+	880	93	ug/Kg	☼	07/15/21 08:23	07/21/21 19:24	5
2,4-Dimethylphenol	ND		880	210	ug/Kg	☼	07/15/21 08:23	07/21/21 19:24	5
2,4-Dinitrophenol	ND		8600	4100	ug/Kg	☼	07/15/21 08:23	07/21/21 19:24	5
2,4-Dinitrotoluene	ND	*+	880	180	ug/Kg	☼	07/15/21 08:23	07/21/21 19:24	5
2,6-Dinitrotoluene	ND	*+	880	100	ug/Kg	☼	07/15/21 08:23	07/21/21 19:24	5
2-Chloronaphthalene	ND		880	150	ug/Kg	☼	07/15/21 08:23	07/21/21 19:24	5
2-Chlorophenol	ND		1700	160	ug/Kg	☼	07/15/21 08:23	07/21/21 19:24	5
2-Methylnaphthalene	ND		880	180	ug/Kg	☼	07/15/21 08:23	07/21/21 19:24	5
2-Methylphenol	ND		880	100	ug/Kg	☼	07/15/21 08:23	07/21/21 19:24	5
2-Nitroaniline	ND	*+	1700	130	ug/Kg	☼	07/15/21 08:23	07/21/21 19:24	5
2-Nitrophenol	ND		880	250	ug/Kg	☼	07/15/21 08:23	07/21/21 19:24	5
3,3'-Dichlorobenzidine	ND	*+	1700	1000	ug/Kg	☼	07/15/21 08:23	07/21/21 19:24	5
3-Nitroaniline	ND		1700	240	ug/Kg	☼	07/15/21 08:23	07/21/21 19:24	5
4,6-Dinitro-2-methylphenol	ND	*+	1700	880	ug/Kg	☼	07/15/21 08:23	07/21/21 19:24	5
4-Bromophenyl phenyl ether	ND	*+	880	120	ug/Kg	☼	07/15/21 08:23	07/21/21 19:24	5
4-Chloro-3-methylphenol	ND	*+	880	220	ug/Kg	☼	07/15/21 08:23	07/21/21 19:24	5
4-Chloroaniline	ND		880	220	ug/Kg	☼	07/15/21 08:23	07/21/21 19:24	5
4-Chlorophenyl phenyl ether	ND	*+	880	110	ug/Kg	☼	07/15/21 08:23	07/21/21 19:24	5
4-Methylphenol	ND		1700	100	ug/Kg	☼	07/15/21 08:23	07/21/21 19:24	5
4-Nitroaniline	ND	*+	1700	460	ug/Kg	☼	07/15/21 08:23	07/21/21 19:24	5
4-Nitrophenol	ND	*+	1700	620	ug/Kg	☼	07/15/21 08:23	07/21/21 19:24	5
Acenaphthene	ND		880	130	ug/Kg	☼	07/15/21 08:23	07/21/21 19:24	5
Acenaphthylene	ND	*+	880	110	ug/Kg	☼	07/15/21 08:23	07/21/21 19:24	5
Acetophenone	ND		880	120	ug/Kg	☼	07/15/21 08:23	07/21/21 19:24	5
Anthracene	ND	*+	880	220	ug/Kg	☼	07/15/21 08:23	07/21/21 19:24	5
Atrazine	ND	*+	880	310	ug/Kg	☼	07/15/21 08:23	07/21/21 19:24	5
Benzaldehyde	ND		880	700	ug/Kg	☼	07/15/21 08:23	07/21/21 19:24	5
Benzo[a]anthracene	ND	*+	880	88	ug/Kg	☼	07/15/21 08:23	07/21/21 19:24	5
Benzo[a]pyrene	**310**	**J *+**	880	130	ug/Kg	☼	07/15/21 08:23	07/21/21 19:24	5
Benzo[b]fluoranthene	**470**	**J *+**	880	140	ug/Kg	☼	07/15/21 08:23	07/21/21 19:24	5
Benzo[g,h,i]perylene	**260**	**J**	880	93	ug/Kg	☼	07/15/21 08:23	07/21/21 19:24	5
Benzo[k]fluoranthene	**150**	**J *+**	880	110	ug/Kg	☼	07/15/21 08:23	07/21/21 19:24	5
Bis(2-chloroethoxy)methane	ND		880	190	ug/Kg	☼	07/15/21 08:23	07/21/21 19:24	5
Bis(2-chloroethyl)ether	ND		880	110	ug/Kg	☼	07/15/21 08:23	07/21/21 19:24	5
Bis(2-ethylhexyl) phthalate	ND	*+	880	300	ug/Kg	☼	07/15/21 08:23	07/21/21 19:24	5
Butyl benzyl phthalate	ND	*+	880	150	ug/Kg	☼	07/15/21 08:23	07/21/21 19:24	5
Caprolactam	ND	*+	880	260	ug/Kg	☼	07/15/21 08:23	07/21/21 19:24	5
Carbazole	ND	*+	880	100	ug/Kg	☼	07/15/21 08:23	07/21/21 19:24	5
Chrysene	**380**	**J *+**	880	200	ug/Kg	☼	07/15/21 08:23	07/21/21 19:24	5
Di-n-butyl phthalate	ND	*+	880	150	ug/Kg	☼	07/15/21 08:23	07/21/21 19:24	5
Di-n-octyl phthalate	ND	*+	880	100	ug/Kg	☼	07/15/21 08:23	07/21/21 19:24	5
Dibenz(a,h)anthracene	ND	*+	880	160	ug/Kg	☼	07/15/21 08:23	07/21/21 19:24	5
Dibenzofuran	ND	*+	880	100	ug/Kg	☼	07/15/21 08:23	07/21/21 19:24	5
Diethyl phthalate	ND	*+	880	110	ug/Kg	☼	07/15/21 08:23	07/21/21 19:24	5
Dimethyl phthalate	ND	*+	880	100	ug/Kg	☼	07/15/21 08:23	07/21/21 19:24	5

Client: Asbestos & Environmental Consulting Corp
Project/Site: 400 Erie Blvd West

Job ID: 480-187041-1

Client Sample ID: SS-01
Date Collected: 07/09/21 09:15
Date Received: 07/10/21 08:00

Lab Sample ID: 480-187041-1
Matrix: Solid
Percent Solids: 94.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	**680**	**J *+**	880	93	ug/Kg	☼	07/15/21 08:23	07/21/21 19:24	5
Fluorene	ND	*+	880	100	ug/Kg	☼	07/15/21 08:23	07/21/21 19:24	5
Hexachlorobenzene	ND	*+	880	120	ug/Kg	☼	07/15/21 08:23	07/21/21 19:24	5
Hexachlorobutadiene	ND		880	130	ug/Kg	☼	07/15/21 08:23	07/21/21 19:24	5
Hexachlorocyclopentadiene	ND		880	120	ug/Kg	☼	07/15/21 08:23	07/21/21 19:24	5
Hexachloroethane	ND		880	110	ug/Kg	☼	07/15/21 08:23	07/21/21 19:24	5
Indeno[1,2,3-cd]pyrene	**220**	**J *+**	880	110	ug/Kg	☼	07/15/21 08:23	07/21/21 19:24	5
Isophorone	ND		880	190	ug/Kg	☼	07/15/21 08:23	07/21/21 19:24	5
N-Nitrosodi-n-propylamine	ND		880	150	ug/Kg	☼	07/15/21 08:23	07/21/21 19:24	5
N-Nitrosodiphenylamine	ND	*+	880	720	ug/Kg	☼	07/15/21 08:23	07/21/21 19:24	5
Naphthalene	ND		880	110	ug/Kg	☼	07/15/21 08:23	07/21/21 19:24	5
Nitrobenzene	ND		880	98	ug/Kg	☼	07/15/21 08:23	07/21/21 19:24	5
Pentachlorophenol	ND	*+	1700	880	ug/Kg	☼	07/15/21 08:23	07/21/21 19:24	5
Phenanthrene	**300**	**J *+**	880	130	ug/Kg	☼	07/15/21 08:23	07/21/21 19:24	5
Phenol	ND		880	130	ug/Kg	☼	07/15/21 08:23	07/21/21 19:24	5
Pyrene	**580**	**J *+**	880	100	ug/Kg	☼	07/15/21 08:23	07/21/21 19:24	5

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*950*	*T J*	*ug/Kg*	☼	*1.88*		*07/15/21 08:23*	*07/21/21 19:24*	*5*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*109*		*54 - 120*	*07/15/21 08:23*	*07/21/21 19:24*	*5*
2-Fluorobiphenyl	*86*		*60 - 120*	*07/15/21 08:23*	*07/21/21 19:24*	*5*
2-Fluorophenol	*76*		*52 - 120*	*07/15/21 08:23*	*07/21/21 19:24*	*5*
Nitrobenzene-d5	*77*		*53 - 120*	*07/15/21 08:23*	*07/21/21 19:24*	*5*
p-Terphenyl-d14	*102*		*79 - 130*	*07/15/21 08:23*	*07/21/21 19:24*	*5*
Phenol-d5	*78*		*54 - 120*	*07/15/21 08:23*	*07/21/21 19:24*	*5*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**9050**		11.2	4.9	mg/Kg	☼	07/13/21 12:48	07/15/21 20:04	1
Antimony	ND		16.8	0.45	mg/Kg	☼	07/13/21 12:48	07/15/21 20:04	1
Arsenic	**3.2**		2.2	0.45	mg/Kg	☼	07/13/21 12:48	07/15/21 20:04	1
Barium	**90.3**	**^6+**	0.56	0.12	mg/Kg	☼	07/13/21 12:48	07/15/21 20:04	1
Beryllium	**0.52**		0.22	0.031	mg/Kg	☼	07/13/21 12:48	07/15/21 20:04	1
Cadmium	**0.17**	**J**	0.22	0.034	mg/Kg	☼	07/13/21 12:48	07/15/21 20:04	1
Calcium	**117000**		112	7.4	mg/Kg	☼	07/13/21 12:48	07/15/21 22:07	2
Chromium	**17.5**		0.56	0.22	mg/Kg	☼	07/13/21 12:48	07/15/21 20:04	1
Cobalt	**5.5**		0.56	0.056	mg/Kg	☼	07/13/21 12:48	07/15/21 20:04	1
Copper	**12.5**		2.2	0.47	mg/Kg	☼	07/13/21 12:48	07/15/21 22:07	2
Iron	**10100**		11.2	3.9	mg/Kg	☼	07/13/21 12:48	07/15/21 20:04	1
Lead	**29.8**		1.1	0.27	mg/Kg	☼	07/13/21 12:48	07/15/21 20:04	1
Magnesium	**41000**		22.4	1.0	mg/Kg	☼	07/13/21 12:48	07/15/21 20:04	1
Manganese	**248**		0.22	0.036	mg/Kg	☼	07/13/21 12:48	07/15/21 20:04	1
Nickel	**15.9**		5.6	0.26	mg/Kg	☼	07/13/21 12:48	07/15/21 20:04	1
Potassium	**3840**		33.5	22.4	mg/Kg	☼	07/13/21 12:48	07/15/21 20:04	1
Selenium	**0.60**	**J**	4.5	0.45	mg/Kg	☼	07/13/21 12:48	07/15/21 20:04	1
Silver	ND		0.67	0.22	mg/Kg	☼	07/13/21 12:48	07/15/21 20:04	1
Sodium	**176**		157	14.5	mg/Kg	☼	07/13/21 12:48	07/15/21 20:04	1
Thallium	ND		6.7	0.34	mg/Kg	☼	07/13/21 12:48	07/15/21 20:04	1

Client: Asbestos & Environmental Consulting Corp
Project/Site: 400 Erie Blvd West

Job ID: 480-187041-1

Client Sample ID: SS-01
Date Collected: 07/09/21 09:15
Date Received: 07/10/21 08:00

Lab Sample ID: 480-187041-1
Matrix: Solid
Percent Solids: 94.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vanadium	17.2		0.56	0.12	mg/Kg	☼	07/13/21 12:48	07/15/21 20:04	1
Zinc	39.4		2.2	0.72	mg/Kg	☼	07/13/21 12:48	07/15/21 20:04	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.030		0.019	0.0043	mg/Kg	☼	07/14/21 14:08	07/14/21 16:29	1

Client: Asbestos & Environmental Consulting Corp
Project/Site: 400 Erie Blvd West

Job ID: 480-187041-1

Client Sample ID: SS-02
Date Collected: 07/09/21 09:30
Date Received: 07/10/21 08:00

Lab Sample ID: 480-187041-2
Matrix: Solid
Percent Solids: 88.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		1900	270	ug/Kg	☼	07/23/21 08:06	07/26/21 21:29	1
bis (2-chloroisopropyl) ether	ND		1900	370	ug/Kg	☼	07/23/21 08:06	07/26/21 21:29	1
2,4,5-Trichlorophenol	ND		1900	500	ug/Kg	☼	07/23/21 08:06	07/26/21 21:29	1
2,4,6-Trichlorophenol	ND		1900	370	ug/Kg	☼	07/23/21 08:06	07/26/21 21:29	1
2,4-Dichlorophenol	ND		1900	200	ug/Kg	☼	07/23/21 08:06	07/26/21 21:29	1
2,4-Dimethylphenol	ND		1900	450	ug/Kg	☼	07/23/21 08:06	07/26/21 21:29	1
2,4-Dinitrophenol	ND		18000	8600	ug/Kg	☼	07/23/21 08:06	07/26/21 21:29	1
2,4-Dinitrotoluene	ND		1900	380	ug/Kg	☼	07/23/21 08:06	07/26/21 21:29	1
2,6-Dinitrotoluene	ND		1900	220	ug/Kg	☼	07/23/21 08:06	07/26/21 21:29	1
2-Chloronaphthalene	ND		1900	310	ug/Kg	☼	07/23/21 08:06	07/26/21 21:29	1
2-Chlorophenol	ND		3600	340	ug/Kg	☼	07/23/21 08:06	07/26/21 21:29	1
2-Methylnaphthalene	ND		1900	370	ug/Kg	☼	07/23/21 08:06	07/26/21 21:29	1
2-Methylphenol	ND		1900	220	ug/Kg	☼	07/23/21 08:06	07/26/21 21:29	1
2-Nitroaniline	ND		3600	270	ug/Kg	☼	07/23/21 08:06	07/26/21 21:29	1
2-Nitrophenol	ND		1900	530	ug/Kg	☼	07/23/21 08:06	07/26/21 21:29	1
3,3'-Dichlorobenzidine	ND		3600	2200	ug/Kg	☼	07/23/21 08:06	07/26/21 21:29	1
3-Nitroaniline	ND		3600	520	ug/Kg	☼	07/23/21 08:06	07/26/21 21:29	1
4,6-Dinitro-2-methylphenol	ND		3600	1900	ug/Kg	☼	07/23/21 08:06	07/26/21 21:29	1
4-Bromophenyl phenyl ether	ND		1900	260	ug/Kg	☼	07/23/21 08:06	07/26/21 21:29	1
4-Chloro-3-methylphenol	ND		1900	460	ug/Kg	☼	07/23/21 08:06	07/26/21 21:29	1
4-Chloroaniline	ND		1900	460	ug/Kg	☼	07/23/21 08:06	07/26/21 21:29	1
4-Chlorophenyl phenyl ether	ND		1900	230	ug/Kg	☼	07/23/21 08:06	07/26/21 21:29	1
4-Methylphenol	ND		3600	220	ug/Kg	☼	07/23/21 08:06	07/26/21 21:29	1
4-Nitroaniline	ND		3600	980	ug/Kg	☼	07/23/21 08:06	07/26/21 21:29	1
4-Nitrophenol	ND		3600	1300	ug/Kg	☼	07/23/21 08:06	07/26/21 21:29	1
Acenaphthene	ND		1900	270	ug/Kg	☼	07/23/21 08:06	07/26/21 21:29	1
Acenaphthylene	ND		1900	240	ug/Kg	☼	07/23/21 08:06	07/26/21 21:29	1
Acetophenone	ND		1900	250	ug/Kg	☼	07/23/21 08:06	07/26/21 21:29	1
Anthracene	**520**	**J**	1900	460	ug/Kg	☼	07/23/21 08:06	07/26/21 21:29	1
Atrazine	ND		1900	650	ug/Kg	☼	07/23/21 08:06	07/26/21 21:29	1
Benzaldehyde	ND		1900	1500	ug/Kg	☼	07/23/21 08:06	07/26/21 21:29	1
Benzo[a]anthracene	**2200**		1900	190	ug/Kg	☼	07/23/21 08:06	07/26/21 21:29	1
Benzo[a]pyrene	**2200**		1900	270	ug/Kg	☼	07/23/21 08:06	07/26/21 21:29	1
Benzo[b]fluoranthene	**3400**		1900	300	ug/Kg	☼	07/23/21 08:06	07/26/21 21:29	1
Benzo[g,h,i]perylene	**1400**	**J**	1900	200	ug/Kg	☼	07/23/21 08:06	07/26/21 21:29	1
Benzo[k]fluoranthene	**1200**	**J**	1900	240	ug/Kg	☼	07/23/21 08:06	07/26/21 21:29	1
Bis(2-chloroethoxy)methane	ND		1900	390	ug/Kg	☼	07/23/21 08:06	07/26/21 21:29	1
Bis(2-chloroethyl)ether	ND		1900	240	ug/Kg	☼	07/23/21 08:06	07/26/21 21:29	1
Bis(2-ethylhexyl) phthalate	**660**	**J**	1900	640	ug/Kg	☼	07/23/21 08:06	07/26/21 21:29	1
Butyl benzyl phthalate	**380**	**J**	1900	310	ug/Kg	☼	07/23/21 08:06	07/26/21 21:29	1
Caprolactam	ND		1900	560	ug/Kg	☼	07/23/21 08:06	07/26/21 21:29	1
Carbazole	**240**	**J**	1900	220	ug/Kg	☼	07/23/21 08:06	07/26/21 21:29	1
Chrysene	**2600**		1900	420	ug/Kg	☼	07/23/21 08:06	07/26/21 21:29	1
Di-n-butyl phthalate	ND		1900	320	ug/Kg	☼	07/23/21 08:06	07/26/21 21:29	1
Di-n-octyl phthalate	ND		1900	220	ug/Kg	☼	07/23/21 08:06	07/26/21 21:29	1
Dibenz(a,h)anthracene	ND		1900	330	ug/Kg	☼	07/23/21 08:06	07/26/21 21:29	1
Dibenzofuran	ND		1900	220	ug/Kg	☼	07/23/21 08:06	07/26/21 21:29	1
Diethyl phthalate	ND		1900	240	ug/Kg	☼	07/23/21 08:06	07/26/21 21:29	1
Dimethyl phthalate	ND		1900	220	ug/Kg	☼	07/23/21 08:06	07/26/21 21:29	1

Client: Asbestos & Environmental Consulting Corp
Project/Site: 400 Erie Blvd West

Job ID: 480-187041-1

Client Sample ID: SS-02
Date Collected: 07/09/21 09:30
Date Received: 07/10/21 08:00

Lab Sample ID: 480-187041-2
Matrix: Solid
Percent Solids: 88.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	**5000**		1900	200	ug/Kg	☼	07/23/21 08:06	07/26/21 21:29	1
Fluorene	**230**	**J**	1900	220	ug/Kg	☼	07/23/21 08:06	07/26/21 21:29	1
Hexachlorobenzene	ND		1900	250	ug/Kg	☼	07/23/21 08:06	07/26/21 21:29	1
Hexachlorobutadiene	ND		1900	270	ug/Kg	☼	07/23/21 08:06	07/26/21 21:29	1
Hexachlorocyclopentadiene	ND		1900	250	ug/Kg	☼	07/23/21 08:06	07/26/21 21:29	1
Hexachloroethane	ND		1900	240	ug/Kg	☼	07/23/21 08:06	07/26/21 21:29	1
Indeno[1,2,3-cd]pyrene	**1300**	**J**	1900	230	ug/Kg	☼	07/23/21 08:06	07/26/21 21:29	1
Isophorone	ND		1900	390	ug/Kg	☼	07/23/21 08:06	07/26/21 21:29	1
N-Nitrosodi-n-propylamine	ND		1900	320	ug/Kg	☼	07/23/21 08:06	07/26/21 21:29	1
N-Nitrosodiphenylamine	ND		1900	1500	ug/Kg	☼	07/23/21 08:06	07/26/21 21:29	1
Naphthalene	ND		1900	240	ug/Kg	☼	07/23/21 08:06	07/26/21 21:29	1
Nitrobenzene	ND		1900	210	ug/Kg	☼	07/23/21 08:06	07/26/21 21:29	1
Pentachlorophenol	ND		3600	1900	ug/Kg	☼	07/23/21 08:06	07/26/21 21:29	1
Phenanthrene	**2500**		1900	270	ug/Kg	☼	07/23/21 08:06	07/26/21 21:29	1
Phenol	ND		1900	290	ug/Kg	☼	07/23/21 08:06	07/26/21 21:29	1
Pyrene	**3500**		1900	220	ug/Kg	☼	07/23/21 08:06	07/26/21 21:29	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*2600*	*T J*	*ug/Kg*	☼	*9.65*		*07/23/21 08:06*	*07/26/21 21:29*	*1*
Unknown	*2100*	*T J*	*ug/Kg*	☼	*10.29*		*07/23/21 08:06*	*07/26/21 21:29*	*1*
Unknown	*2700*	*T J*	*ug/Kg*	☼	*10.33*		*07/23/21 08:06*	*07/26/21 21:29*	*1*
4-Nonylphenol	*2700*	*T J N*	*ug/Kg*	☼	*10.36*	*104-40-5*	*07/23/21 08:06*	*07/26/21 21:29*	*1*
Unknown	*1700*	*T J*	*ug/Kg*	☼	*10.38*		*07/23/21 08:06*	*07/26/21 21:29*	*1*
Unknown	*2600*	*T J*	*ug/Kg*	☼	*10.47*		*07/23/21 08:06*	*07/26/21 21:29*	*1*
Unknown	*2500*	*T J*	*ug/Kg*	☼	*10.52*		*07/23/21 08:06*	*07/26/21 21:29*	*1*
Unknown	*1600*	*T J*	*ug/Kg*	☼	*10.56*		*07/23/21 08:06*	*07/26/21 21:29*	*1*
Benzo[j]fluoranthene	*1800*	*T J N*	*ug/Kg*	☼	*14.19*	*205-82-3*	*07/23/21 08:06*	*07/26/21 21:29*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*106*		*54 - 120*	*07/23/21 08:06*	*07/26/21 21:29*	*1*
2-Fluorobiphenyl	*107*		*60 - 120*	*07/23/21 08:06*	*07/26/21 21:29*	*1*
2-Fluorophenol	*80*		*52 - 120*	*07/23/21 08:06*	*07/26/21 21:29*	*1*
Nitrobenzene-d5	*88*		*53 - 120*	*07/23/21 08:06*	*07/26/21 21:29*	*1*
p-Terphenyl-d14	*99*		*79 - 130*	*07/23/21 08:06*	*07/26/21 21:29*	*1*
Phenol-d5	*87*		*54 - 120*	*07/23/21 08:06*	*07/26/21 21:29*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**3180**		11.4	5.0	mg/Kg	☼	07/13/21 12:48	07/15/21 20:19	1
Antimony	ND		17.0	0.45	mg/Kg	☼	07/13/21 12:48	07/15/21 20:19	1
Arsenic	**10.4**		2.3	0.45	mg/Kg	☼	07/13/21 12:48	07/15/21 20:19	1
Barium	**164**	**^6+**	0.57	0.12	mg/Kg	☼	07/13/21 12:48	07/15/21 20:19	1
Beryllium	**0.24**		0.23	0.032	mg/Kg	☼	07/13/21 12:48	07/15/21 20:19	1
Cadmium	**0.70**		0.23	0.034	mg/Kg	☼	07/13/21 12:48	07/15/21 20:19	1
Calcium	**127000**		114	7.5	mg/Kg	☼	07/13/21 12:48	07/15/21 22:11	2
Chromium	**39.3**		0.57	0.23	mg/Kg	☼	07/13/21 12:48	07/15/21 20:19	1
Cobalt	**5.3**		0.57	0.057	mg/Kg	☼	07/13/21 12:48	07/15/21 20:19	1
Copper	**49.9**		2.3	0.48	mg/Kg	☼	07/13/21 12:48	07/15/21 22:11	2
Iron	**23000**		11.4	4.0	mg/Kg	☼	07/13/21 12:48	07/15/21 20:19	1
Lead	**478**		1.1	0.27	mg/Kg	☼	07/13/21 12:48	07/15/21 20:19	1

Client: Asbestos & Environmental Consulting Corp
Project/Site: 400 Erie Blvd West

Job ID: 480-187041-1

Client Sample ID: SS-02
Date Collected: 07/09/21 09:30
Date Received: 07/10/21 08:00

Lab Sample ID: 480-187041-2
Matrix: Solid
Percent Solids: 88.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	23700		22.7	1.1	mg/Kg	☼	07/13/21 12:48	07/15/21 20:19	1
Manganese	219		0.23	0.036	mg/Kg	☼	07/13/21 12:48	07/15/21 20:19	1
Nickel	17.7		5.7	0.26	mg/Kg	☼	07/13/21 12:48	07/15/21 20:19	1
Potassium	814		34.1	22.7	mg/Kg	☼	07/13/21 12:48	07/15/21 20:19	1
Selenium	2.4	J	4.5	0.45	mg/Kg	☼	07/13/21 12:48	07/15/21 20:19	1
Silver	ND		0.68	0.23	mg/Kg	☼	07/13/21 12:48	07/15/21 20:19	1
Sodium	218		159	14.8	mg/Kg	☼	07/13/21 12:48	07/15/21 20:19	1
Thallium	ND		6.8	0.34	mg/Kg	☼	07/13/21 12:48	07/15/21 20:19	1
Vanadium	21.2		0.57	0.12	mg/Kg	☼	07/13/21 12:48	07/15/21 20:19	1
Zinc	252		2.3	0.73	mg/Kg	☼	07/13/21 12:48	07/15/21 20:19	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20		0.023	0.0053	mg/Kg	☼	07/14/21 14:08	07/14/21 16:31	1

Client: Asbestos & Environmental Consulting Corp
Project/Site: 400 Erie Blvd West

Job ID: 480-187041-1

Client Sample ID: SS-03
Date Collected: 07/09/21 09:37
Date Received: 07/10/21 08:00

Lab Sample ID: 480-187041-3
Matrix: Solid
Percent Solids: 80.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		2100	310	ug/Kg	☼	07/23/21 08:06	07/26/21 13:49	10
bis (2-chloroisopropyl) ether	ND		2100	420	ug/Kg	☼	07/23/21 08:06	07/26/21 13:49	10
2,4,5-Trichlorophenol	ND		2100	560	ug/Kg	☼	07/23/21 08:06	07/26/21 13:49	10
2,4,6-Trichlorophenol	ND		2100	420	ug/Kg	☼	07/23/21 08:06	07/26/21 13:49	10
2,4-Dichlorophenol	ND		2100	220	ug/Kg	☼	07/23/21 08:06	07/26/21 13:49	10
2,4-Dimethylphenol	ND		2100	500	ug/Kg	☼	07/23/21 08:06	07/26/21 13:49	10
2,4-Dinitrophenol	ND		20000	9600	ug/Kg	☼	07/23/21 08:06	07/26/21 13:49	10
2,4-Dinitrotoluene	ND		2100	430	ug/Kg	☼	07/23/21 08:06	07/26/21 13:49	10
2,6-Dinitrotoluene	ND		2100	240	ug/Kg	☼	07/23/21 08:06	07/26/21 13:49	10
2-Chloronaphthalene	ND		2100	340	ug/Kg	☼	07/23/21 08:06	07/26/21 13:49	10
2-Chlorophenol	ND		4000	380	ug/Kg	☼	07/23/21 08:06	07/26/21 13:49	10
2-Methylnaphthalene	**480**	**J**	2100	420	ug/Kg	☼	07/23/21 08:06	07/26/21 13:49	10
2-Methylphenol	ND		2100	240	ug/Kg	☼	07/23/21 08:06	07/26/21 13:49	10
2-Nitroaniline	ND		4000	310	ug/Kg	☼	07/23/21 08:06	07/26/21 13:49	10
2-Nitrophenol	ND		2100	590	ug/Kg	☼	07/23/21 08:06	07/26/21 13:49	10
3,3'-Dichlorobenzidine	ND	F1	4000	2400	ug/Kg	☼	07/23/21 08:06	07/26/21 13:49	10
3-Nitroaniline	ND		4000	570	ug/Kg	☼	07/23/21 08:06	07/26/21 13:49	10
4,6-Dinitro-2-methylphenol	ND		4000	2100	ug/Kg	☼	07/23/21 08:06	07/26/21 13:49	10
4-Bromophenyl phenyl ether	ND		2100	290	ug/Kg	☼	07/23/21 08:06	07/26/21 13:49	10
4-Chloro-3-methylphenol	ND		2100	510	ug/Kg	☼	07/23/21 08:06	07/26/21 13:49	10
4-Chloroaniline	ND		2100	510	ug/Kg	☼	07/23/21 08:06	07/26/21 13:49	10
4-Chlorophenyl phenyl ether	ND		2100	260	ug/Kg	☼	07/23/21 08:06	07/26/21 13:49	10
4-Methylphenol	ND		4000	240	ug/Kg	☼	07/23/21 08:06	07/26/21 13:49	10
4-Nitroaniline	ND		4000	1100	ug/Kg	☼	07/23/21 08:06	07/26/21 13:49	10
4-Nitrophenol	ND		4000	1500	ug/Kg	☼	07/23/21 08:06	07/26/21 13:49	10
Acenaphthene	**350**	**J**	2100	310	ug/Kg	☼	07/23/21 08:06	07/26/21 13:49	10
Acenaphthylene	**540**	**J F1**	2100	270	ug/Kg	☼	07/23/21 08:06	07/26/21 13:49	10
Acetophenone	ND		2100	280	ug/Kg	☼	07/23/21 08:06	07/26/21 13:49	10
Anthracene	**1300**	**J F2 F1**	2100	510	ug/Kg	☼	07/23/21 08:06	07/26/21 13:49	10
Atrazine	ND		2100	720	ug/Kg	☼	07/23/21 08:06	07/26/21 13:49	10
Benzaldehyde	ND		2100	1700	ug/Kg	☼	07/23/21 08:06	07/26/21 13:49	10
Benzo[a]anthracene	**4600**	**F2 F1**	2100	210	ug/Kg	☼	07/23/21 08:06	07/26/21 13:49	10
Benzo[a]pyrene	**4400**	**F1**	2100	310	ug/Kg	☼	07/23/21 08:06	07/26/21 13:49	10
Benzo[b]fluoranthene	**6600**	**F2 F1**	2100	330	ug/Kg	☼	07/23/21 08:06	07/26/21 13:49	10
Benzo[g,h,i]perylene	**3500**	**F1**	2100	220	ug/Kg	☼	07/23/21 08:06	07/26/21 13:49	10
Benzo[k]fluoranthene	**2200**	**F1**	2100	270	ug/Kg	☼	07/23/21 08:06	07/26/21 13:49	10
Bis(2-chloroethoxy)methane	ND		2100	440	ug/Kg	☼	07/23/21 08:06	07/26/21 13:49	10
Bis(2-chloroethyl)ether	ND		2100	270	ug/Kg	☼	07/23/21 08:06	07/26/21 13:49	10
Bis(2-ethylhexyl) phthalate	ND		2100	710	ug/Kg	☼	07/23/21 08:06	07/26/21 13:49	10
Butyl benzyl phthalate	ND		2100	340	ug/Kg	☼	07/23/21 08:06	07/26/21 13:49	10
Caprolactam	ND		2100	620	ug/Kg	☼	07/23/21 08:06	07/26/21 13:49	10
Carbazole	**440**	**J F1**	2100	240	ug/Kg	☼	07/23/21 08:06	07/26/21 13:49	10
Chrysene	**4800**	**F2 F1**	2100	460	ug/Kg	☼	07/23/21 08:06	07/26/21 13:49	10
Di-n-butyl phthalate	ND		2100	350	ug/Kg	☼	07/23/21 08:06	07/26/21 13:49	10
Di-n-octyl phthalate	ND		2100	240	ug/Kg	☼	07/23/21 08:06	07/26/21 13:49	10
Dibenz(a,h)anthracene	**900**	**J F2 F1**	2100	370	ug/Kg	☼	07/23/21 08:06	07/26/21 13:49	10
Dibenzofuran	**350**	**J F2 F1**	2100	240	ug/Kg	☼	07/23/21 08:06	07/26/21 13:49	10
Diethyl phthalate	ND		2100	270	ug/Kg	☼	07/23/21 08:06	07/26/21 13:49	10
Dimethyl phthalate	ND		2100	240	ug/Kg	☼	07/23/21 08:06	07/26/21 13:49	10

Client: Asbestos & Environmental Consulting Corp
Project/Site: 400 Erie Blvd West

Job ID: 480-187041-1

Client Sample ID: SS-03
Date Collected: 07/09/21 09:37
Date Received: 07/10/21 08:00

Lab Sample ID: 480-187041-3
Matrix: Solid
Percent Solids: 80.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	8000	F2 F1	2100	220	ug/Kg	☼	07/23/21 08:06	07/26/21 13:49	10
Fluorene	390	J F2 F1	2100	240	ug/Kg	☼	07/23/21 08:06	07/26/21 13:49	10
Hexachlorobenzene	ND		2100	280	ug/Kg	☼	07/23/21 08:06	07/26/21 13:49	10
Hexachlorobutadiene	ND		2100	310	ug/Kg	☼	07/23/21 08:06	07/26/21 13:49	10
Hexachlorocyclopentadiene	ND		2100	280	ug/Kg	☼	07/23/21 08:06	07/26/21 13:49	10
Hexachloroethane	ND		2100	270	ug/Kg	☼	07/23/21 08:06	07/26/21 13:49	10
Indeno[1,2,3-cd]pyrene	3200	F2 F1	2100	260	ug/Kg	☼	07/23/21 08:06	07/26/21 13:49	10
Isophorone	ND		2100	440	ug/Kg	☼	07/23/21 08:06	07/26/21 13:49	10
N-Nitrosodi-n-propylamine	ND		2100	350	ug/Kg	☼	07/23/21 08:06	07/26/21 13:49	10
N-Nitrosodiphenylamine	ND		2100	1700	ug/Kg	☼	07/23/21 08:06	07/26/21 13:49	10
Naphthalene	410	J F1	2100	270	ug/Kg	☼	07/23/21 08:06	07/26/21 13:49	10
Nitrobenzene	ND		2100	230	ug/Kg	☼	07/23/21 08:06	07/26/21 13:49	10
Pentachlorophenol	ND		4000	2100	ug/Kg	☼	07/23/21 08:06	07/26/21 13:49	10
Phenanthrene	5100	F2 F1	2100	310	ug/Kg	☼	07/23/21 08:06	07/26/21 13:49	10
Phenol	ND		2100	320	ug/Kg	☼	07/23/21 08:06	07/26/21 13:49	10
Pyrene	7000	F1	2100	240	ug/Kg	☼	07/23/21 08:06	07/26/21 13:49	10

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Phenanthrene, 3-methyl-	*1800*	*T J N*	*ug/Kg*	☼	*11.29*	*832-71-3*	*07/23/21 08:06*	*07/26/21 13:49*	*10*
Unknown	*2000*	*T J*	*ug/Kg*	☼	*11.36*		*07/23/21 08:06*	*07/26/21 13:49*	*10*
9,10-Dimethylanthracene	*1600*	*T J N*	*ug/Kg*	☼	*11.78*	*781-43-1*	*07/23/21 08:06*	*07/26/21 13:49*	*10*
11H-Benzo[b]fluorene	*1900*	*T J N*	*ug/Kg*	☼	*12.41*	*243-17-4*	*07/23/21 08:06*	*07/26/21 13:49*	*10*
Perylene	*3700*	*T J N*	*ug/Kg*	☼	*14.22*	*198-55-0*	*07/23/21 08:06*	*07/26/21 13:49*	*10*
Pregnan-20-one, (5.alpha.)-	*1800*	*T J N*	*ug/Kg*	☼	*16.55*	*848-62-4*	*07/23/21 08:06*	*07/26/21 13:49*	*10*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*85*		*54 - 120*	*07/23/21 08:06*	*07/26/21 13:49*	*10*
2-Fluorobiphenyl	*99*		*60 - 120*	*07/23/21 08:06*	*07/26/21 13:49*	*10*
2-Fluorophenol	*74*		*52 - 120*	*07/23/21 08:06*	*07/26/21 13:49*	*10*
Nitrobenzene-d5	*83*		*53 - 120*	*07/23/21 08:06*	*07/26/21 13:49*	*10*
p-Terphenyl-d14	*110*		*79 - 130*	*07/23/21 08:06*	*07/26/21 13:49*	*10*
Phenol-d5	*87*		*54 - 120*	*07/23/21 08:06*	*07/26/21 13:49*	*10*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	5140	F1	12.2	5.3	mg/Kg	☼	07/13/21 12:48	07/15/21 20:23	1
Antimony	ND	F1	18.2	0.49	mg/Kg	☼	07/13/21 12:48	07/15/21 20:23	1
Arsenic	14.6		2.4	0.49	mg/Kg	☼	07/13/21 12:48	07/15/21 20:23	1
Barium	308	^6+ F2	0.61	0.13	mg/Kg	☼	07/13/21 12:48	07/15/21 20:23	1
Beryllium	0.73		0.24	0.034	mg/Kg	☼	07/13/21 12:48	07/15/21 20:23	1
Cadmium	0.46		0.24	0.036	mg/Kg	☼	07/13/21 12:48	07/15/21 20:23	1
Calcium	67400		60.8	4.0	mg/Kg	☼	07/13/21 12:48	07/15/21 20:23	1
Chromium	14.0		0.61	0.24	mg/Kg	☼	07/13/21 12:48	07/15/21 20:23	1
Cobalt	6.6		0.61	0.061	mg/Kg	☼	07/13/21 12:48	07/15/21 20:23	1
Copper	84.9		1.2	0.26	mg/Kg	☼	07/13/21 12:48	07/15/21 20:23	1
Iron	21100	F2	12.2	4.3	mg/Kg	☼	07/13/21 12:48	07/15/21 20:23	1
Lead	400		1.2	0.29	mg/Kg	☼	07/13/21 12:48	07/15/21 20:23	1
Magnesium	22600	F2	24.3	1.1	mg/Kg	☼	07/13/21 12:48	07/15/21 20:23	1
Manganese	160	F1 F2	0.24	0.039	mg/Kg	☼	07/13/21 12:48	07/15/21 20:23	1
Nickel	21.9	F1	6.1	0.28	mg/Kg	☼	07/13/21 12:48	07/15/21 20:23	1

Client: Asbestos & Environmental Consulting Corp
Project/Site: 400 Erie Blvd West

Job ID: 480-187041-1

Client Sample ID: SS-03
Date Collected: 07/09/21 09:37
Date Received: 07/10/21 08:00

Lab Sample ID: 480-187041-3
Matrix: Solid
Percent Solids: 80.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	905	F1	36.5	24.3	mg/Kg	☼	07/13/21 12:48	07/15/21 20:23	1
Selenium	2.0	J	4.9	0.49	mg/Kg	☼	07/13/21 12:48	07/15/21 20:23	1
Silver	ND		0.73	0.24	mg/Kg	☼	07/13/21 12:48	07/15/21 20:23	1
Sodium	221		170	15.8	mg/Kg	☼	07/13/21 12:48	07/15/21 20:23	1
Thallium	ND		7.3	0.36	mg/Kg	☼	07/13/21 12:48	07/15/21 20:23	1
Vanadium	26.1		0.61	0.13	mg/Kg	☼	07/13/21 12:48	07/15/21 20:23	1
Zinc	187	F1	2.4	0.78	mg/Kg	☼	07/13/21 12:48	07/15/21 20:23	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.35		0.026	0.0060	mg/Kg	☼	07/14/21 14:08	07/14/21 16:32	1

Client: Asbestos & Environmental Consulting Corp
Project/Site: 400 Erie Blvd West

Job ID: 480-187041-1

Client Sample ID: SS-04
Date Collected: 07/09/21 09:55
Date Received: 07/10/21 08:00

Lab Sample ID: 480-187041-4
Matrix: Solid
Percent Solids: 85.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		970	140	ug/Kg	☼	07/23/21 08:06	07/26/21 14:37	5
bis (2-chloroisopropyl) ether	ND		970	190	ug/Kg	☼	07/23/21 08:06	07/26/21 14:37	5
2,4,5-Trichlorophenol	ND		970	260	ug/Kg	☼	07/23/21 08:06	07/26/21 14:37	5
2,4,6-Trichlorophenol	ND		970	190	ug/Kg	☼	07/23/21 08:06	07/26/21 14:37	5
2,4-Dichlorophenol	ND		970	100	ug/Kg	☼	07/23/21 08:06	07/26/21 14:37	5
2,4-Dimethylphenol	ND		970	230	ug/Kg	☼	07/23/21 08:06	07/26/21 14:37	5
2,4-Dinitrophenol	ND		9500	4500	ug/Kg	☼	07/23/21 08:06	07/26/21 14:37	5
2,4-Dinitrotoluene	ND		970	200	ug/Kg	☼	07/23/21 08:06	07/26/21 14:37	5
2,6-Dinitrotoluene	ND		970	110	ug/Kg	☼	07/23/21 08:06	07/26/21 14:37	5
2-Chloronaphthalene	ND		970	160	ug/Kg	☼	07/23/21 08:06	07/26/21 14:37	5
2-Chlorophenol	ND		1900	180	ug/Kg	☼	07/23/21 08:06	07/26/21 14:37	5
2-Methylnaphthalene	**320**	**J**	970	190	ug/Kg	☼	07/23/21 08:06	07/26/21 14:37	5
2-Methylphenol	ND		970	110	ug/Kg	☼	07/23/21 08:06	07/26/21 14:37	5
2-Nitroaniline	ND		1900	140	ug/Kg	☼	07/23/21 08:06	07/26/21 14:37	5
2-Nitrophenol	ND		970	270	ug/Kg	☼	07/23/21 08:06	07/26/21 14:37	5
3,3'-Dichlorobenzidine	ND		1900	1100	ug/Kg	☼	07/23/21 08:06	07/26/21 14:37	5
3-Nitroaniline	ND		1900	270	ug/Kg	☼	07/23/21 08:06	07/26/21 14:37	5
4,6-Dinitro-2-methylphenol	ND		1900	970	ug/Kg	☼	07/23/21 08:06	07/26/21 14:37	5
4-Bromophenyl phenyl ether	ND		970	140	ug/Kg	☼	07/23/21 08:06	07/26/21 14:37	5
4-Chloro-3-methylphenol	ND		970	240	ug/Kg	☼	07/23/21 08:06	07/26/21 14:37	5
4-Chloroaniline	ND		970	240	ug/Kg	☼	07/23/21 08:06	07/26/21 14:37	5
4-Chlorophenyl phenyl ether	ND		970	120	ug/Kg	☼	07/23/21 08:06	07/26/21 14:37	5
4-Methylphenol	ND		1900	110	ug/Kg	☼	07/23/21 08:06	07/26/21 14:37	5
4-Nitroaniline	ND		1900	510	ug/Kg	☼	07/23/21 08:06	07/26/21 14:37	5
4-Nitrophenol	ND		1900	680	ug/Kg	☼	07/23/21 08:06	07/26/21 14:37	5
Acenaphthene	ND		970	140	ug/Kg	☼	07/23/21 08:06	07/26/21 14:37	5
Acenaphthylene	**230**	**J**	970	130	ug/Kg	☼	07/23/21 08:06	07/26/21 14:37	5
Acetophenone	ND		970	130	ug/Kg	☼	07/23/21 08:06	07/26/21 14:37	5
Anthracene	**330**	**J**	970	240	ug/Kg	☼	07/23/21 08:06	07/26/21 14:37	5
Atrazine	ND		970	340	ug/Kg	☼	07/23/21 08:06	07/26/21 14:37	5
Benzaldehyde	ND		970	770	ug/Kg	☼	07/23/21 08:06	07/26/21 14:37	5
Benzo[a]anthracene	**1800**		970	97	ug/Kg	☼	07/23/21 08:06	07/26/21 14:37	5
Benzo[a]pyrene	**1800**		970	140	ug/Kg	☼	07/23/21 08:06	07/26/21 14:37	5
Benzo[b]fluoranthene	**2800**		970	150	ug/Kg	☼	07/23/21 08:06	07/26/21 14:37	5
Benzo[g,h,i]perylene	**1700**		970	100	ug/Kg	☼	07/23/21 08:06	07/26/21 14:37	5
Benzo[k]fluoranthene	**890**	**J**	970	130	ug/Kg	☼	07/23/21 08:06	07/26/21 14:37	5
Bis(2-chloroethoxy)methane	ND		970	210	ug/Kg	☼	07/23/21 08:06	07/26/21 14:37	5
Bis(2-chloroethyl)ether	ND		970	130	ug/Kg	☼	07/23/21 08:06	07/26/21 14:37	5
Bis(2-ethylhexyl) phthalate	ND		970	330	ug/Kg	☼	07/23/21 08:06	07/26/21 14:37	5
Butyl benzyl phthalate	ND		970	160	ug/Kg	☼	07/23/21 08:06	07/26/21 14:37	5
Caprolactam	ND		970	290	ug/Kg	☼	07/23/21 08:06	07/26/21 14:37	5
Carbazole	**140**	**J**	970	110	ug/Kg	☼	07/23/21 08:06	07/26/21 14:37	5
Chrysene	**2100**		970	220	ug/Kg	☼	07/23/21 08:06	07/26/21 14:37	5
Di-n-butyl phthalate	ND		970	170	ug/Kg	☼	07/23/21 08:06	07/26/21 14:37	5
Di-n-octyl phthalate	ND		970	110	ug/Kg	☼	07/23/21 08:06	07/26/21 14:37	5
Dibenz(a,h)anthracene	**390**	**J**	970	170	ug/Kg	☼	07/23/21 08:06	07/26/21 14:37	5
Dibenzofuran	ND		970	110	ug/Kg	☼	07/23/21 08:06	07/26/21 14:37	5
Diethyl phthalate	ND		970	130	ug/Kg	☼	07/23/21 08:06	07/26/21 14:37	5
Dimethyl phthalate	ND		970	110	ug/Kg	☼	07/23/21 08:06	07/26/21 14:37	5

Client Sample ID: SS-04
Date Collected: 07/09/21 09:55
Date Received: 07/10/21 08:00

Lab Sample ID: 480-187041-4
Matrix: Solid
Percent Solids: 85.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	**2900**		970	100	ug/Kg	☼	07/23/21 08:06	07/26/21 14:37	5
Fluorene	ND		970	110	ug/Kg	☼	07/23/21 08:06	07/26/21 14:37	5
Hexachlorobenzene	ND		970	130	ug/Kg	☼	07/23/21 08:06	07/26/21 14:37	5
Hexachlorobutadiene	ND		970	140	ug/Kg	☼	07/23/21 08:06	07/26/21 14:37	5
Hexachlorocyclopentadiene	ND		970	130	ug/Kg	☼	07/23/21 08:06	07/26/21 14:37	5
Hexachloroethane	ND		970	130	ug/Kg	☼	07/23/21 08:06	07/26/21 14:37	5
Indeno[1,2,3-cd]pyrene	**1500**		970	120	ug/Kg	☼	07/23/21 08:06	07/26/21 14:37	5
Isophorone	ND		970	210	ug/Kg	☼	07/23/21 08:06	07/26/21 14:37	5
N-Nitrosodi-n-propylamine	ND		970	170	ug/Kg	☼	07/23/21 08:06	07/26/21 14:37	5
N-Nitrosodiphenylamine	ND		970	790	ug/Kg	☼	07/23/21 08:06	07/26/21 14:37	5
Naphthalene	**190**	**J**	970	130	ug/Kg	☼	07/23/21 08:06	07/26/21 14:37	5
Nitrobenzene	ND		970	110	ug/Kg	☼	07/23/21 08:06	07/26/21 14:37	5
Pentachlorophenol	ND		1900	970	ug/Kg	☼	07/23/21 08:06	07/26/21 14:37	5
Phenanthrene	**1600**		970	140	ug/Kg	☼	07/23/21 08:06	07/26/21 14:37	5
Phenol	ND		970	150	ug/Kg	☼	07/23/21 08:06	07/26/21 14:37	5
Pyrene	**2700**		970	110	ug/Kg	☼	07/23/21 08:06	07/26/21 14:37	5

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Benzo[e]pyrene	*1400*	*T J N*	*ug/Kg*	☼	*14.23*	*192-97-2*	*07/23/21 08:06*	*07/26/21 14:37*	*5*
Unknown	*1200*	*T J*	*ug/Kg*	☼	*16.40*		*07/23/21 08:06*	*07/26/21 14:37*	*5*
3,4:8,9-Dibenzopyrene	*1300*	*T J N*	*ug/Kg*	☼	*16.55*	*189-64-0*	*07/23/21 08:06*	*07/26/21 14:37*	*5*
1,2:3,4-Dibenzopyrene	*860*	*T J N*	*ug/Kg*	☼	*16.64*	*191-30-0*	*07/23/21 08:06*	*07/26/21 14:37*	*5*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*89*		*54 - 120*	*07/23/21 08:06*	*07/26/21 14:37*	*5*
2-Fluorobiphenyl	*95*		*60 - 120*	*07/23/21 08:06*	*07/26/21 14:37*	*5*
2-Fluorophenol	*78*		*52 - 120*	*07/23/21 08:06*	*07/26/21 14:37*	*5*
Nitrobenzene-d5	*85*		*53 - 120*	*07/23/21 08:06*	*07/26/21 14:37*	*5*
p-Terphenyl-d14	*101*		*79 - 130*	*07/23/21 08:06*	*07/26/21 14:37*	*5*
Phenol-d5	*84*		*54 - 120*	*07/23/21 08:06*	*07/26/21 14:37*	*5*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**3100**		12.2	5.4	mg/Kg	☼	07/13/21 12:48	07/15/21 20:41	1
Antimony	ND		18.3	0.49	mg/Kg	☼	07/13/21 12:48	07/15/21 20:41	1
Arsenic	**16.5**		2.4	0.49	mg/Kg	☼	07/13/21 12:48	07/15/21 20:41	1
Barium	**69.3**	**^6+**	0.61	0.13	mg/Kg	☼	07/13/21 12:48	07/15/21 20:41	1
Beryllium	**0.32**		0.24	0.034	mg/Kg	☼	07/13/21 12:48	07/15/21 20:41	1
Cadmium	**0.83**		0.24	0.037	mg/Kg	☼	07/13/21 12:48	07/15/21 20:41	1
Calcium	**199000**		122	8.1	mg/Kg	☼	07/13/21 12:48	07/15/21 22:15	2
Chromium	**14.3**		0.61	0.24	mg/Kg	☼	07/13/21 12:48	07/15/21 20:41	1
Cobalt	**6.7**		0.61	0.061	mg/Kg	☼	07/13/21 12:48	07/15/21 20:41	1
Copper	**76.4**		2.4	0.51	mg/Kg	☼	07/13/21 12:48	07/15/21 22:15	2
Iron	**34900**		12.2	4.3	mg/Kg	☼	07/13/21 12:48	07/15/21 20:41	1
Lead	**183**		1.2	0.29	mg/Kg	☼	07/13/21 12:48	07/15/21 20:41	1
Magnesium	**33400**		24.4	1.1	mg/Kg	☼	07/13/21 12:48	07/15/21 20:41	1
Manganese	**394**		0.24	0.039	mg/Kg	☼	07/13/21 12:48	07/15/21 20:41	1
Nickel	**18.5**		6.1	0.28	mg/Kg	☼	07/13/21 12:48	07/15/21 20:41	1
Potassium	**977**		36.6	24.4	mg/Kg	☼	07/13/21 12:48	07/15/21 20:41	1
Selenium	**3.0**	**J**	4.9	0.49	mg/Kg	☼	07/13/21 12:48	07/15/21 20:41	1

Client: Asbestos & Environmental Consulting Corp
Project/Site: 400 Erie Blvd West

Job ID: 480-187041-1

Client Sample ID: SS-04
Date Collected: 07/09/21 09:55
Date Received: 07/10/21 08:00

Lab Sample ID: 480-187041-4
Matrix: Solid
Percent Solids: 85.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.73	0.24	mg/Kg	☼	07/13/21 12:48	07/15/21 20:41	1
Sodium	**196**		171	15.9	mg/Kg	☼	07/13/21 12:48	07/15/21 20:41	1
Thallium	ND		7.3	0.37	mg/Kg	☼	07/13/21 12:48	07/15/21 20:41	1
Vanadium	**14.4**		0.61	0.13	mg/Kg	☼	07/13/21 12:48	07/15/21 20:41	1
Zinc	**159**		2.4	0.78	mg/Kg	☼	07/13/21 12:48	07/15/21 20:41	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.20**		0.020	0.0047	mg/Kg	☼	07/14/21 14:08	07/14/21 16:40	1

Client: Asbestos & Environmental Consulting Corp
Project/Site: 400 Erie Blvd West

Job ID: 480-187041-1

Client Sample ID: SS-05
Date Collected: 07/09/21 10:10
Date Received: 07/10/21 08:00

Lab Sample ID: 480-187041-5
Matrix: Solid
Percent Solids: 93.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		8900	1300	ug/Kg	☼	07/15/21 08:23	07/21/21 20:36	5
bis (2-chloroisopropyl) ether	ND		8900	1800	ug/Kg	☼	07/15/21 08:23	07/21/21 20:36	5
2,4,5-Trichlorophenol	ND	*+	8900	2400	ug/Kg	☼	07/15/21 08:23	07/21/21 20:36	5
2,4,6-Trichlorophenol	ND		8900	1800	ug/Kg	☼	07/15/21 08:23	07/21/21 20:36	5
2,4-Dichlorophenol	ND	*+	8900	950	ug/Kg	☼	07/15/21 08:23	07/21/21 20:36	5
2,4-Dimethylphenol	ND		8900	2200	ug/Kg	☼	07/15/21 08:23	07/21/21 20:36	5
2,4-Dinitrophenol	ND		87000	41000	ug/Kg	☼	07/15/21 08:23	07/21/21 20:36	5
2,4-Dinitrotoluene	ND	*+	8900	1800	ug/Kg	☼	07/15/21 08:23	07/21/21 20:36	5
2,6-Dinitrotoluene	ND	*+	8900	1100	ug/Kg	☼	07/15/21 08:23	07/21/21 20:36	5
2-Chloronaphthalene	ND		8900	1500	ug/Kg	☼	07/15/21 08:23	07/21/21 20:36	5
2-Chlorophenol	ND		17000	1600	ug/Kg	☼	07/15/21 08:23	07/21/21 20:36	5
2-Methylnaphthalene	ND		8900	1800	ug/Kg	☼	07/15/21 08:23	07/21/21 20:36	5
2-Methylphenol	ND		8900	1100	ug/Kg	☼	07/15/21 08:23	07/21/21 20:36	5
2-Nitroaniline	ND	*+	17000	1300	ug/Kg	☼	07/15/21 08:23	07/21/21 20:36	5
2-Nitrophenol	ND		8900	2500	ug/Kg	☼	07/15/21 08:23	07/21/21 20:36	5
3,3'-Dichlorobenzidine	ND	*+	17000	11000	ug/Kg	☼	07/15/21 08:23	07/21/21 20:36	5
3-Nitroaniline	ND		17000	2500	ug/Kg	☼	07/15/21 08:23	07/21/21 20:36	5
4,6-Dinitro-2-methylphenol	ND	*+	17000	8900	ug/Kg	☼	07/15/21 08:23	07/21/21 20:36	5
4-Bromophenyl phenyl ether	ND	*+	8900	1300	ug/Kg	☼	07/15/21 08:23	07/21/21 20:36	5
4-Chloro-3-methylphenol	ND	*+	8900	2200	ug/Kg	☼	07/15/21 08:23	07/21/21 20:36	5
4-Chloroaniline	ND		8900	2200	ug/Kg	☼	07/15/21 08:23	07/21/21 20:36	5
4-Chlorophenyl phenyl ether	ND	*+	8900	1100	ug/Kg	☼	07/15/21 08:23	07/21/21 20:36	5
4-Methylphenol	ND		17000	1100	ug/Kg	☼	07/15/21 08:23	07/21/21 20:36	5
4-Nitroaniline	ND	*+	17000	4700	ug/Kg	☼	07/15/21 08:23	07/21/21 20:36	5
4-Nitrophenol	ND	*+	17000	6300	ug/Kg	☼	07/15/21 08:23	07/21/21 20:36	5
Acenaphthene	ND		8900	1300	ug/Kg	☼	07/15/21 08:23	07/21/21 20:36	5
Acenaphthylene	ND	*+	8900	1200	ug/Kg	☼	07/15/21 08:23	07/21/21 20:36	5
Acetophenone	ND		8900	1200	ug/Kg	☼	07/15/21 08:23	07/21/21 20:36	5
Anthracene	ND	*+	8900	2200	ug/Kg	☼	07/15/21 08:23	07/21/21 20:36	5
Atrazine	ND	*+	8900	3100	ug/Kg	☼	07/15/21 08:23	07/21/21 20:36	5
Benzaldehyde	ND		8900	7100	ug/Kg	☼	07/15/21 08:23	07/21/21 20:36	5
Benzo[a]anthracene	ND	*+	8900	890	ug/Kg	☼	07/15/21 08:23	07/21/21 20:36	5
Benzo[a]pyrene	ND	*+	8900	1300	ug/Kg	☼	07/15/21 08:23	07/21/21 20:36	5
Benzo[b]fluoranthene	ND	*+	8900	1400	ug/Kg	☼	07/15/21 08:23	07/21/21 20:36	5
Benzo[g,h,i]perylene	ND		8900	950	ug/Kg	☼	07/15/21 08:23	07/21/21 20:36	5
Benzo[k]fluoranthene	ND	*+	8900	1200	ug/Kg	☼	07/15/21 08:23	07/21/21 20:36	5
Bis(2-chloroethoxy)methane	ND		8900	1900	ug/Kg	☼	07/15/21 08:23	07/21/21 20:36	5
Bis(2-chloroethyl)ether	ND		8900	1200	ug/Kg	☼	07/15/21 08:23	07/21/21 20:36	5
Bis(2-ethylhexyl) phthalate	ND	*+	8900	3000	ug/Kg	☼	07/15/21 08:23	07/21/21 20:36	5
Butyl benzyl phthalate	ND	*+	8900	1500	ug/Kg	☼	07/15/21 08:23	07/21/21 20:36	5
Caprolactam	ND	*+	8900	2700	ug/Kg	☼	07/15/21 08:23	07/21/21 20:36	5
Carbazole	ND	*+	8900	1100	ug/Kg	☼	07/15/21 08:23	07/21/21 20:36	5
Chrysene	ND	*+	8900	2000	ug/Kg	☼	07/15/21 08:23	07/21/21 20:36	5
Di-n-butyl phthalate	ND	*+	8900	1500	ug/Kg	☼	07/15/21 08:23	07/21/21 20:36	5
Di-n-octyl phthalate	ND	*+	8900	1100	ug/Kg	☼	07/15/21 08:23	07/21/21 20:36	5
Dibenz(a,h)anthracene	ND	*+	8900	1600	ug/Kg	☼	07/15/21 08:23	07/21/21 20:36	5
Dibenzofuran	ND	*+	8900	1100	ug/Kg	☼	07/15/21 08:23	07/21/21 20:36	5
Diethyl phthalate	ND	*+	8900	1200	ug/Kg	☼	07/15/21 08:23	07/21/21 20:36	5
Dimethyl phthalate	ND	*+	8900	1100	ug/Kg	☼	07/15/21 08:23	07/21/21 20:36	5

Client Sample ID: SS-05
Lab Sample ID: 480-187041-5
Date Collected: 07/09/21 10:10
Matrix: Solid
Date Received: 07/10/21 08:00
Percent Solids: 93.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	ND	*+	8900	950	ug/Kg	☼	07/15/21 08:23	07/21/21 20:36	5
Fluorene	ND	*+	8900	1100	ug/Kg	☼	07/15/21 08:23	07/21/21 20:36	5
Hexachlorobenzene	ND	*+	8900	1200	ug/Kg	☼	07/15/21 08:23	07/21/21 20:36	5
Hexachlorobutadiene	ND		8900	1300	ug/Kg	☼	07/15/21 08:23	07/21/21 20:36	5
Hexachlorocyclopentadiene	ND		8900	1200	ug/Kg	☼	07/15/21 08:23	07/21/21 20:36	5
Hexachloroethane	ND		8900	1200	ug/Kg	☼	07/15/21 08:23	07/21/21 20:36	5
Indeno[1,2,3-cd]pyrene	ND	*+	8900	1100	ug/Kg	☼	07/15/21 08:23	07/21/21 20:36	5
Isophorone	ND		8900	1900	ug/Kg	☼	07/15/21 08:23	07/21/21 20:36	5
N-Nitrosodi-n-propylamine	ND		8900	1500	ug/Kg	☼	07/15/21 08:23	07/21/21 20:36	5
N-Nitrosodiphenylamine	ND	*+	8900	7300	ug/Kg	☼	07/15/21 08:23	07/21/21 20:36	5
Naphthalene	ND		8900	1200	ug/Kg	☼	07/15/21 08:23	07/21/21 20:36	5
Nitrobenzene	ND		8900	1000	ug/Kg	☼	07/15/21 08:23	07/21/21 20:36	5
Pentachlorophenol	ND	*+	17000	8900	ug/Kg	☼	07/15/21 08:23	07/21/21 20:36	5
Phenanthrene	ND	*+	8900	1300	ug/Kg	☼	07/15/21 08:23	07/21/21 20:36	5
Phenol	ND		8900	1400	ug/Kg	☼	07/15/21 08:23	07/21/21 20:36	5
Pyrene	ND	*+	8900	1100	ug/Kg	☼	07/15/21 08:23	07/21/21 20:36	5

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/Kg*	☼			*07/15/21 08:23*	*07/21/21 20:36*	*5*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*0*	*S1-*	*54 - 120*	*07/15/21 08:23*	*07/21/21 20:36*	*5*
2-Fluorobiphenyl	*87*		*60 - 120*	*07/15/21 08:23*	*07/21/21 20:36*	*5*
2-Fluorophenol	*0*	*S1-*	*52 - 120*	*07/15/21 08:23*	*07/21/21 20:36*	*5*
Nitrobenzene-d5	*76*		*53 - 120*	*07/15/21 08:23*	*07/21/21 20:36*	*5*
p-Terphenyl-d14	*109*		*79 - 130*	*07/15/21 08:23*	*07/21/21 20:36*	*5*
Phenol-d5	*0*	*S1-*	*54 - 120*	*07/15/21 08:23*	*07/21/21 20:36*	*5*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**3790**		11.3	5.0	mg/Kg	☼	07/13/21 12:48	07/15/21 20:45	1
Antimony	ND		16.9	0.45	mg/Kg	☼	07/13/21 12:48	07/15/21 20:45	1
Arsenic	**2.9**		2.3	0.45	mg/Kg	☼	07/13/21 12:48	07/15/21 20:45	1
Barium	**51.4**	**^6+**	0.56	0.12	mg/Kg	☼	07/13/21 12:48	07/15/21 20:45	1
Beryllium	**0.20**	**J**	0.23	0.032	mg/Kg	☼	07/13/21 12:48	07/15/21 20:45	1
Cadmium	**0.094**	**J**	0.23	0.034	mg/Kg	☼	07/13/21 12:48	07/15/21 20:45	1
Calcium	**192000**		113	7.4	mg/Kg	☼	07/13/21 12:48	07/15/21 22:19	2
Chromium	**8.9**		0.56	0.23	mg/Kg	☼	07/13/21 12:48	07/15/21 20:45	1
Cobalt	**2.6**		0.56	0.056	mg/Kg	☼	07/13/21 12:48	07/15/21 20:45	1
Copper	**11.0**		2.3	0.47	mg/Kg	☼	07/13/21 12:48	07/15/21 22:19	2
Iron	**6120**		11.3	3.9	mg/Kg	☼	07/13/21 12:48	07/15/21 20:45	1
Lead	**28.0**		1.1	0.27	mg/Kg	☼	07/13/21 12:48	07/15/21 20:45	1
Magnesium	**56000**		45.1	2.1	mg/Kg	☼	07/13/21 12:48	07/15/21 22:19	2
Manganese	**142**		0.23	0.036	mg/Kg	☼	07/13/21 12:48	07/15/21 20:45	1
Nickel	**8.4**		5.6	0.26	mg/Kg	☼	07/13/21 12:48	07/15/21 20:45	1
Potassium	**1840**		33.8	22.6	mg/Kg	☼	07/13/21 12:48	07/15/21 20:45	1
Selenium	ND		4.5	0.45	mg/Kg	☼	07/13/21 12:48	07/15/21 20:45	1
Silver	ND		0.68	0.23	mg/Kg	☼	07/13/21 12:48	07/15/21 20:45	1
Sodium	**204**		158	14.7	mg/Kg	☼	07/13/21 12:48	07/15/21 20:45	1
Thallium	ND		6.8	0.34	mg/Kg	☼	07/13/21 12:48	07/15/21 20:45	1

Client: Asbestos & Environmental Consulting Corp
Project/Site: 400 Erie Blvd West

Job ID: 480-187041-1

Client Sample ID: SS-05
Date Collected: 07/09/21 10:10
Date Received: 07/10/21 08:00

Lab Sample ID: 480-187041-5
Matrix: Solid
Percent Solids: 93.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vanadium	11.2		0.56	0.12	mg/Kg	☼	07/13/21 12:48	07/15/21 20:45	1
Zinc	33.6		2.3	0.72	mg/Kg	☼	07/13/21 12:48	07/15/21 20:45	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.024		0.020	0.0046	mg/Kg	☼	07/14/21 14:08	07/14/21 16:41	1

Client: Asbestos & Environmental Consulting Corp
Project/Site: 400 Erie Blvd West

Job ID: 480-187041-1

Client Sample ID: SS-06
Date Collected: 07/09/21 10:25
Date Received: 07/10/21 08:00

Lab Sample ID: 480-187041-6
Matrix: Solid
Percent Solids: 92.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		1800	270	ug/Kg	☼	07/23/21 08:06	07/26/21 15:01	10
bis (2-chloroisopropyl) ether	ND		1800	360	ug/Kg	☼	07/23/21 08:06	07/26/21 15:01	10
2,4,5-Trichlorophenol	ND		1800	490	ug/Kg	☼	07/23/21 08:06	07/26/21 15:01	10
2,4,6-Trichlorophenol	ND		1800	360	ug/Kg	☼	07/23/21 08:06	07/26/21 15:01	10
2,4-Dichlorophenol	ND		1800	190	ug/Kg	☼	07/23/21 08:06	07/26/21 15:01	10
2,4-Dimethylphenol	ND		1800	440	ug/Kg	☼	07/23/21 08:06	07/26/21 15:01	10
2,4-Dinitrophenol	ND		18000	8400	ug/Kg	☼	07/23/21 08:06	07/26/21 15:01	10
2,4-Dinitrotoluene	ND		1800	370	ug/Kg	☼	07/23/21 08:06	07/26/21 15:01	10
2,6-Dinitrotoluene	ND		1800	210	ug/Kg	☼	07/23/21 08:06	07/26/21 15:01	10
2-Chloronaphthalene	ND		1800	300	ug/Kg	☼	07/23/21 08:06	07/26/21 15:01	10
2-Chlorophenol	ND		3500	330	ug/Kg	☼	07/23/21 08:06	07/26/21 15:01	10
2-Methylnaphthalene	ND		1800	360	ug/Kg	☼	07/23/21 08:06	07/26/21 15:01	10
2-Methylphenol	ND		1800	210	ug/Kg	☼	07/23/21 08:06	07/26/21 15:01	10
2-Nitroaniline	ND		3500	270	ug/Kg	☼	07/23/21 08:06	07/26/21 15:01	10
2-Nitrophenol	ND		1800	510	ug/Kg	☼	07/23/21 08:06	07/26/21 15:01	10
3,3'-Dichlorobenzidine	ND		3500	2100	ug/Kg	☼	07/23/21 08:06	07/26/21 15:01	10
3-Nitroaniline	ND		3500	500	ug/Kg	☼	07/23/21 08:06	07/26/21 15:01	10
4,6-Dinitro-2-methylphenol	ND		3500	1800	ug/Kg	☼	07/23/21 08:06	07/26/21 15:01	10
4-Bromophenyl phenyl ether	ND		1800	260	ug/Kg	☼	07/23/21 08:06	07/26/21 15:01	10
4-Chloro-3-methylphenol	ND		1800	450	ug/Kg	☼	07/23/21 08:06	07/26/21 15:01	10
4-Chloroaniline	ND		1800	450	ug/Kg	☼	07/23/21 08:06	07/26/21 15:01	10
4-Chlorophenyl phenyl ether	ND		1800	220	ug/Kg	☼	07/23/21 08:06	07/26/21 15:01	10
4-Methylphenol	ND		3500	210	ug/Kg	☼	07/23/21 08:06	07/26/21 15:01	10
4-Nitroaniline	ND		3500	950	ug/Kg	☼	07/23/21 08:06	07/26/21 15:01	10
4-Nitrophenol	ND		3500	1300	ug/Kg	☼	07/23/21 08:06	07/26/21 15:01	10
Acenaphthene	**460**	**J**	1800	270	ug/Kg	☼	07/23/21 08:06	07/26/21 15:01	10
Acenaphthylene	**560**	**J**	1800	230	ug/Kg	☼	07/23/21 08:06	07/26/21 15:01	10
Acetophenone	ND		1800	250	ug/Kg	☼	07/23/21 08:06	07/26/21 15:01	10
Anthracene	**1800**		1800	450	ug/Kg	☼	07/23/21 08:06	07/26/21 15:01	10
Atrazine	ND		1800	630	ug/Kg	☼	07/23/21 08:06	07/26/21 15:01	10
Benzaldehyde	ND		1800	1400	ug/Kg	☼	07/23/21 08:06	07/26/21 15:01	10
Benzo[a]anthracene	**7200**		1800	180	ug/Kg	☼	07/23/21 08:06	07/26/21 15:01	10
Benzo[a]pyrene	**6600**		1800	270	ug/Kg	☼	07/23/21 08:06	07/26/21 15:01	10
Benzo[b]fluoranthene	**8500**		1800	290	ug/Kg	☼	07/23/21 08:06	07/26/21 15:01	10
Benzo[g,h,i]perylene	**4600**		1800	190	ug/Kg	☼	07/23/21 08:06	07/26/21 15:01	10
Benzo[k]fluoranthene	**2600**		1800	230	ug/Kg	☼	07/23/21 08:06	07/26/21 15:01	10
Bis(2-chloroethoxy)methane	ND		1800	380	ug/Kg	☼	07/23/21 08:06	07/26/21 15:01	10
Bis(2-chloroethyl)ether	ND		1800	230	ug/Kg	☼	07/23/21 08:06	07/26/21 15:01	10
Bis(2-ethylhexyl) phthalate	ND		1800	620	ug/Kg	☼	07/23/21 08:06	07/26/21 15:01	10
Butyl benzyl phthalate	ND		1800	300	ug/Kg	☼	07/23/21 08:06	07/26/21 15:01	10
Caprolactam	ND		1800	540	ug/Kg	☼	07/23/21 08:06	07/26/21 15:01	10
Carbazole	**550**	**J**	1800	210	ug/Kg	☼	07/23/21 08:06	07/26/21 15:01	10
Chrysene	**6600**		1800	400	ug/Kg	☼	07/23/21 08:06	07/26/21 15:01	10
Di-n-butyl phthalate	ND		1800	310	ug/Kg	☼	07/23/21 08:06	07/26/21 15:01	10
Di-n-octyl phthalate	ND		1800	210	ug/Kg	☼	07/23/21 08:06	07/26/21 15:01	10
Dibenz(a,h)anthracene	**1400**	**J**	1800	320	ug/Kg	☼	07/23/21 08:06	07/26/21 15:01	10
Dibenzofuran	ND		1800	210	ug/Kg	☼	07/23/21 08:06	07/26/21 15:01	10
Diethyl phthalate	ND		1800	230	ug/Kg	☼	07/23/21 08:06	07/26/21 15:01	10
Dimethyl phthalate	ND		1800	210	ug/Kg	☼	07/23/21 08:06	07/26/21 15:01	10

Client Sample ID: SS-06
Date Collected: 07/09/21 10:25
Date Received: 07/10/21 08:00

Lab Sample ID: 480-187041-6
Matrix: Solid
Percent Solids: 92.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	**12000**		1800	190	ug/Kg	☼	07/23/21 08:06	07/26/21 15:01	10
Fluorene	**500**	**J**	1800	210	ug/Kg	☼	07/23/21 08:06	07/26/21 15:01	10
Hexachlorobenzene	ND		1800	250	ug/Kg	☼	07/23/21 08:06	07/26/21 15:01	10
Hexachlorobutadiene	ND		1800	270	ug/Kg	☼	07/23/21 08:06	07/26/21 15:01	10
Hexachlorocyclopentadiene	ND		1800	250	ug/Kg	☼	07/23/21 08:06	07/26/21 15:01	10
Hexachloroethane	ND		1800	230	ug/Kg	☼	07/23/21 08:06	07/26/21 15:01	10
Indeno[1,2,3-cd]pyrene	**4200**		1800	220	ug/Kg	☼	07/23/21 08:06	07/26/21 15:01	10
Isophorone	ND		1800	380	ug/Kg	☼	07/23/21 08:06	07/26/21 15:01	10
N-Nitrosodi-n-propylamine	ND		1800	310	ug/Kg	☼	07/23/21 08:06	07/26/21 15:01	10
N-Nitrosodiphenylamine	ND		1800	1500	ug/Kg	☼	07/23/21 08:06	07/26/21 15:01	10
Naphthalene	ND		1800	230	ug/Kg	☼	07/23/21 08:06	07/26/21 15:01	10
Nitrobenzene	ND		1800	200	ug/Kg	☼	07/23/21 08:06	07/26/21 15:01	10
Pentachlorophenol	ND		3500	1800	ug/Kg	☼	07/23/21 08:06	07/26/21 15:01	10
Phenanthrene	**5900**		1800	270	ug/Kg	☼	07/23/21 08:06	07/26/21 15:01	10
Phenol	ND		1800	280	ug/Kg	☼	07/23/21 08:06	07/26/21 15:01	10
Pyrene	**10000**		1800	210	ug/Kg	☼	07/23/21 08:06	07/26/21 15:01	10

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Phenanthrene, 1-methyl-	*1500*	*T J N*	*ug/Kg*	☼	*11.30*	*832-69-9*	*07/23/21 08:06*	*07/26/21 15:01*	*10*
Unknown	*2100*	*T J*	*ug/Kg*	☼	*11.38*		*07/23/21 08:06*	*07/26/21 15:01*	*10*
Benzo[e]pyrene	*4000*	*T J N*	*ug/Kg*	☼	*14.23*	*192-97-2*	*07/23/21 08:06*	*07/26/21 15:01*	*10*
Unknown	*1500*	*T J*	*ug/Kg*	☼	*15.27*		*07/23/21 08:06*	*07/26/21 15:01*	*10*
N-[4-Amino-3-nitrophenyl]-N-nitroso-4-chlorobenzylamine	*2100*	*T J N*	*ug/Kg*	☼	*15.54*	*1000213-60-7*	*07/23/21 08:06*	*07/26/21 15:01*	*10*
3,4:8,9-Dibenzopyrene	*3000*	*T J N*	*ug/Kg*	☼	*16.55*	*189-64-0*	*07/23/21 08:06*	*07/26/21 15:01*	*10*
1,2:4,5-Dibenzopyrene	*1900*	*T J N*	*ug/Kg*	☼	*16.64*	*192-65-4*	*07/23/21 08:06*	*07/26/21 15:01*	*10*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*98*		*54 - 120*	*07/23/21 08:06*	*07/26/21 15:01*	*10*
2-Fluorobiphenyl	*106*		*60 - 120*	*07/23/21 08:06*	*07/26/21 15:01*	*10*
2-Fluorophenol	*79*		*52 - 120*	*07/23/21 08:06*	*07/26/21 15:01*	*10*
Nitrobenzene-d5	*90*		*53 - 120*	*07/23/21 08:06*	*07/26/21 15:01*	*10*
p-Terphenyl-d14	*108*		*79 - 130*	*07/23/21 08:06*	*07/26/21 15:01*	*10*
Phenol-d5	*95*		*54 - 120*	*07/23/21 08:06*	*07/26/21 15:01*	*10*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**6390**		10.8	4.8	mg/Kg	☼	07/13/21 12:48	07/15/21 20:49	1
Antimony	ND		16.2	0.43	mg/Kg	☼	07/13/21 12:48	07/15/21 20:49	1
Arsenic	**2.9**		2.2	0.43	mg/Kg	☼	07/13/21 12:48	07/15/21 20:49	1
Barium	**54.8**	**^6+**	0.54	0.12	mg/Kg	☼	07/13/21 12:48	07/15/21 20:49	1
Beryllium	**0.35**		0.22	0.030	mg/Kg	☼	07/13/21 12:48	07/15/21 20:49	1
Cadmium	**0.46**		0.22	0.032	mg/Kg	☼	07/13/21 12:48	07/15/21 20:49	1
Calcium	**192000**		108	7.1	mg/Kg	☼	07/13/21 12:48	07/15/21 22:34	2
Chromium	**16.5**		0.54	0.22	mg/Kg	☼	07/13/21 12:48	07/15/21 20:49	1
Cobalt	**4.0**		0.54	0.054	mg/Kg	☼	07/13/21 12:48	07/15/21 20:49	1
Copper	**10.8**		2.2	0.45	mg/Kg	☼	07/13/21 12:48	07/15/21 22:34	2
Iron	**8740**		10.8	3.8	mg/Kg	☼	07/13/21 12:48	07/15/21 20:49	1
Lead	**34.3**		1.1	0.26	mg/Kg	☼	07/13/21 12:48	07/15/21 20:49	1
Magnesium	**54600**		43.3	2.0	mg/Kg	☼	07/13/21 12:48	07/15/21 22:34	2

Client: Asbestos & Environmental Consulting Corp
Project/Site: 400 Erie Blvd West

Job ID: 480-187041-1

Client Sample ID: SS-06
Date Collected: 07/09/21 10:25
Date Received: 07/10/21 08:00

Lab Sample ID: 480-187041-6
Matrix: Solid
Percent Solids: 92.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	237		0.22	0.035	mg/Kg	☼	07/13/21 12:48	07/15/21 20:49	1
Nickel	12.5		5.4	0.25	mg/Kg	☼	07/13/21 12:48	07/15/21 20:49	1
Potassium	3190		32.5	21.6	mg/Kg	☼	07/13/21 12:48	07/15/21 20:49	1
Selenium	ND		4.3	0.43	mg/Kg	☼	07/13/21 12:48	07/15/21 20:49	1
Silver	ND		0.65	0.22	mg/Kg	☼	07/13/21 12:48	07/15/21 20:49	1
Sodium	240		151	14.1	mg/Kg	☼	07/13/21 12:48	07/15/21 20:49	1
Thallium	ND		6.5	0.32	mg/Kg	☼	07/13/21 12:48	07/15/21 20:49	1
Vanadium	15.7		0.54	0.12	mg/Kg	☼	07/13/21 12:48	07/15/21 20:49	1
Zinc	50.2		2.2	0.69	mg/Kg	☼	07/13/21 12:48	07/15/21 20:49	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.059		0.020	0.0047	mg/Kg	☼	07/14/21 14:08	07/14/21 16:42	1

Client: Asbestos & Environmental Consulting Corp
Project/Site: 400 Erie Blvd West

Job ID: 480-187041-1

Client Sample ID: SS-D
Date Collected: 07/09/21 00:00
Date Received: 07/10/21 08:00

Lab Sample ID: 480-187041-7
Matrix: Solid
Percent Solids: 66.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		1200	180	ug/Kg	☼	07/23/21 08:06	07/26/21 15:25	5
bis (2-chloroisopropyl) ether	ND		1200	250	ug/Kg	☼	07/23/21 08:06	07/26/21 15:25	5
2,4,5-Trichlorophenol	ND		1200	340	ug/Kg	☼	07/23/21 08:06	07/26/21 15:25	5
2,4,6-Trichlorophenol	ND		1200	250	ug/Kg	☼	07/23/21 08:06	07/26/21 15:25	5
2,4-Dichlorophenol	ND		1200	130	ug/Kg	☼	07/23/21 08:06	07/26/21 15:25	5
2,4-Dimethylphenol	ND		1200	300	ug/Kg	☼	07/23/21 08:06	07/26/21 15:25	5
2,4-Dinitrophenol	ND		12000	5700	ug/Kg	☼	07/23/21 08:06	07/26/21 15:25	5
2,4-Dinitrotoluene	ND		1200	260	ug/Kg	☼	07/23/21 08:06	07/26/21 15:25	5
2,6-Dinitrotoluene	ND		1200	150	ug/Kg	☼	07/23/21 08:06	07/26/21 15:25	5
2-Chloronaphthalene	ND		1200	200	ug/Kg	☼	07/23/21 08:06	07/26/21 15:25	5
2-Chlorophenol	ND		2400	230	ug/Kg	☼	07/23/21 08:06	07/26/21 15:25	5
2-Methylnaphthalene	**570**	**J**	1200	250	ug/Kg	☼	07/23/21 08:06	07/26/21 15:25	5
2-Methylphenol	ND		1200	150	ug/Kg	☼	07/23/21 08:06	07/26/21 15:25	5
2-Nitroaniline	ND		2400	180	ug/Kg	☼	07/23/21 08:06	07/26/21 15:25	5
2-Nitrophenol	ND		1200	350	ug/Kg	☼	07/23/21 08:06	07/26/21 15:25	5
3,3'-Dichlorobenzidine	ND		2400	1500	ug/Kg	☼	07/23/21 08:06	07/26/21 15:25	5
3-Nitroaniline	ND		2400	340	ug/Kg	☼	07/23/21 08:06	07/26/21 15:25	5
4,6-Dinitro-2-methylphenol	ND		2400	1200	ug/Kg	☼	07/23/21 08:06	07/26/21 15:25	5
4-Bromophenyl phenyl ether	ND		1200	180	ug/Kg	☼	07/23/21 08:06	07/26/21 15:25	5
4-Chloro-3-methylphenol	ND		1200	310	ug/Kg	☼	07/23/21 08:06	07/26/21 15:25	5
4-Chloroaniline	ND		1200	310	ug/Kg	☼	07/23/21 08:06	07/26/21 15:25	5
4-Chlorophenyl phenyl ether	ND		1200	150	ug/Kg	☼	07/23/21 08:06	07/26/21 15:25	5
4-Methylphenol	ND		2400	150	ug/Kg	☼	07/23/21 08:06	07/26/21 15:25	5
4-Nitroaniline	ND		2400	650	ug/Kg	☼	07/23/21 08:06	07/26/21 15:25	5
4-Nitrophenol	ND		2400	870	ug/Kg	☼	07/23/21 08:06	07/26/21 15:25	5
Acenaphthene	**790**	**J**	1200	180	ug/Kg	☼	07/23/21 08:06	07/26/21 15:25	5
Acenaphthylene	**860**	**J**	1200	160	ug/Kg	☼	07/23/21 08:06	07/26/21 15:25	5
Acetophenone	ND		1200	170	ug/Kg	☼	07/23/21 08:06	07/26/21 15:25	5
Anthracene	**2700**		1200	310	ug/Kg	☼	07/23/21 08:06	07/26/21 15:25	5
Atrazine	ND		1200	430	ug/Kg	☼	07/23/21 08:06	07/26/21 15:25	5
Benzaldehyde	ND		1200	990	ug/Kg	☼	07/23/21 08:06	07/26/21 15:25	5
Benzo[a]anthracene	**10000**		1200	120	ug/Kg	☼	07/23/21 08:06	07/26/21 15:25	5
Benzo[a]pyrene	**9100**		1200	180	ug/Kg	☼	07/23/21 08:06	07/26/21 15:25	5
Benzo[b]fluoranthene	**13000**		1200	200	ug/Kg	☼	07/23/21 08:06	07/26/21 15:25	5
Benzo[g,h,i]perylene	**7000**		1200	130	ug/Kg	☼	07/23/21 08:06	07/26/21 15:25	5
Benzo[k]fluoranthene	**4700**		1200	160	ug/Kg	☼	07/23/21 08:06	07/26/21 15:25	5
Bis(2-chloroethoxy)methane	ND		1200	260	ug/Kg	☼	07/23/21 08:06	07/26/21 15:25	5
Bis(2-chloroethyl)ether	ND		1200	160	ug/Kg	☼	07/23/21 08:06	07/26/21 15:25	5
Bis(2-ethylhexyl) phthalate	ND		1200	420	ug/Kg	☼	07/23/21 08:06	07/26/21 15:25	5
Butyl benzyl phthalate	ND		1200	200	ug/Kg	☼	07/23/21 08:06	07/26/21 15:25	5
Caprolactam	ND		1200	370	ug/Kg	☼	07/23/21 08:06	07/26/21 15:25	5
Carbazole	**1100**	**J**	1200	150	ug/Kg	☼	07/23/21 08:06	07/26/21 15:25	5
Chrysene	**11000**		1200	280	ug/Kg	☼	07/23/21 08:06	07/26/21 15:25	5
Di-n-butyl phthalate	ND		1200	210	ug/Kg	☼	07/23/21 08:06	07/26/21 15:25	5
Di-n-octyl phthalate	ND		1200	150	ug/Kg	☼	07/23/21 08:06	07/26/21 15:25	5
Dibenz(a,h)anthracene	**2200**		1200	220	ug/Kg	☼	07/23/21 08:06	07/26/21 15:25	5
Dibenzofuran	**600**	**J**	1200	150	ug/Kg	☼	07/23/21 08:06	07/26/21 15:25	5
Diethyl phthalate	ND		1200	160	ug/Kg	☼	07/23/21 08:06	07/26/21 15:25	5
Dimethyl phthalate	ND		1200	150	ug/Kg	☼	07/23/21 08:06	07/26/21 15:25	5

Client Sample ID: SS-D
Date Collected: 07/09/21 00:00
Date Received: 07/10/21 08:00

Lab Sample ID: 480-187041-7
Matrix: Solid
Percent Solids: 66.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	**17000**		1200	130	ug/Kg	☼	07/23/21 08:06	07/26/21 15:25	5
Fluorene	**740**	**J**	1200	150	ug/Kg	☼	07/23/21 08:06	07/26/21 15:25	5
Hexachlorobenzene	ND		1200	170	ug/Kg	☼	07/23/21 08:06	07/26/21 15:25	5
Hexachlorobutadiene	ND		1200	180	ug/Kg	☼	07/23/21 08:06	07/26/21 15:25	5
Hexachlorocyclopentadiene	ND		1200	170	ug/Kg	☼	07/23/21 08:06	07/26/21 15:25	5
Hexachloroethane	ND		1200	160	ug/Kg	☼	07/23/21 08:06	07/26/21 15:25	5
Indeno[1,2,3-cd]pyrene	**6500**		1200	150	ug/Kg	☼	07/23/21 08:06	07/26/21 15:25	5
Isophorone	ND		1200	260	ug/Kg	☼	07/23/21 08:06	07/26/21 15:25	5
N-Nitrosodi-n-propylamine	ND		1200	210	ug/Kg	☼	07/23/21 08:06	07/26/21 15:25	5
N-Nitrosodiphenylamine	ND		1200	1000	ug/Kg	☼	07/23/21 08:06	07/26/21 15:25	5
Naphthalene	**570**	**J**	1200	160	ug/Kg	☼	07/23/21 08:06	07/26/21 15:25	5
Nitrobenzene	ND		1200	140	ug/Kg	☼	07/23/21 08:06	07/26/21 15:25	5
Pentachlorophenol	ND		2400	1200	ug/Kg	☼	07/23/21 08:06	07/26/21 15:25	5
Phenanthrene	**11000**		1200	180	ug/Kg	☼	07/23/21 08:06	07/26/21 15:25	5
Phenol	ND		1200	190	ug/Kg	☼	07/23/21 08:06	07/26/21 15:25	5
Pyrene	**16000**		1200	150	ug/Kg	☼	07/23/21 08:06	07/26/21 15:25	5

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Phenanthrene, 1-methyl-	*2300*	*T J N*	*ug/Kg*	☼	*11.26*	*832-69-9*	*07/23/21 08:06*	*07/26/21 15:25*	*5*
1H-Indene, 2-phenyl-	*3400*	*T J N*	*ug/Kg*	☼	*11.29*	*4505-48-0*	*07/23/21 08:06*	*07/26/21 15:25*	*5*
Unknown	*3800*	*T J*	*ug/Kg*	☼	*11.36*		*07/23/21 08:06*	*07/26/21 15:25*	*5*
1H-Indene, 1-phenyl-	*2000*	*T J N*	*ug/Kg*	☼	*11.39*	*1961-96-2*	*07/23/21 08:06*	*07/26/21 15:25*	*5*
5,16[1',2']:8,13[1",2"]-Dibenzenodibenzo[a,g]cyclodo	*2900*	*T J N*	*ug/Kg*	☼	*11.55*	*5672-97-9*	*07/23/21 08:06*	*07/26/21 15:25*	*5*
Phenanthrene, 3,6-dimethyl-	*2600*	*T J N*	*ug/Kg*	☼	*11.78*	*1576-67-6*	*07/23/21 08:06*	*07/26/21 15:25*	*5*
Unknown	*1600*	*T J*	*ug/Kg*	☼	*11.81*		*07/23/21 08:06*	*07/26/21 15:25*	*5*
Unknown	*1600*	*T J*	*ug/Kg*	☼	*11.86*		*07/23/21 08:06*	*07/26/21 15:25*	*5*
Chrysene, 6-methyl-	*1400*	*T J N*	*ug/Kg*	☼	*13.48*	*1705-85-7*	*07/23/21 08:06*	*07/26/21 15:25*	*5*
Unknown	*1800*	*T J*	*ug/Kg*	☼	*14.09*		*07/23/21 08:06*	*07/26/21 15:25*	*5*
Unknown	*1400*	*T J*	*ug/Kg*	☼	*14.16*		*07/23/21 08:06*	*07/26/21 15:25*	*5*
Perylene	*6500*	*T J N*	*ug/Kg*	☼	*14.22*	*198-55-0*	*07/23/21 08:06*	*07/26/21 15:25*	*5*
Benzo[e]pyrene	*2700*	*T J N*	*ug/Kg*	☼	*14.32*	*192-97-2*	*07/23/21 08:06*	*07/26/21 15:25*	*5*
Benzo[a]naphthacene	*2000*	*T J N*	*ug/Kg*	☼	*15.26*	*226-88-0*	*07/23/21 08:06*	*07/26/21 15:25*	*5*
Benzo[b]triphenylene	*1600*	*T J N*	*ug/Kg*	☼	*15.29*	*215-58-7*	*07/23/21 08:06*	*07/26/21 15:25*	*5*
Unknown	*1500*	*T J*	*ug/Kg*	☼	*15.48*		*07/23/21 08:06*	*07/26/21 15:25*	*5*
Unknown	*2900*	*T J*	*ug/Kg*	☼	*15.53*		*07/23/21 08:06*	*07/26/21 15:25*	*5*
1,2:3,4-Dibenzopyrene	*3800*	*T J N*	*ug/Kg*	☼	*16.56*	*191-30-0*	*07/23/21 08:06*	*07/26/21 15:25*	*5*
Dibenz(a,e)aceanthrylene	*2200*	*T J N*	*ug/Kg*	☼	*16.65*	*5385-75-1*	*07/23/21 08:06*	*07/26/21 15:25*	*5*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*90*		*54 - 120*	*07/23/21 08:06*	*07/26/21 15:25*	*5*
2-Fluorobiphenyl	*98*		*60 - 120*	*07/23/21 08:06*	*07/26/21 15:25*	*5*
2-Fluorophenol	*83*		*52 - 120*	*07/23/21 08:06*	*07/26/21 15:25*	*5*
Nitrobenzene-d5	*87*		*53 - 120*	*07/23/21 08:06*	*07/26/21 15:25*	*5*
p-Terphenyl-d14	*104*		*79 - 130*	*07/23/21 08:06*	*07/26/21 15:25*	*5*
Phenol-d5	*99*		*54 - 120*	*07/23/21 08:06*	*07/26/21 15:25*	*5*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**6240**		15.6	6.9	mg/Kg	☼	07/13/21 12:48	07/15/21 21:04	1

Client: Asbestos & Environmental Consulting Corp
Project/Site: 400 Erie Blvd West

Job ID: 480-187041-1

Client Sample ID: SS-D
Date Collected: 07/09/21 00:00
Date Received: 07/10/21 08:00

Lab Sample ID: 480-187041-7
Matrix: Solid
Percent Solids: 66.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		23.4	0.63	mg/Kg	☼	07/13/21 12:48	07/15/21 21:04	1
Arsenic	**17.9**		3.1	0.63	mg/Kg	☼	07/13/21 12:48	07/15/21 21:04	1
Barium	**193**	**^6+**	0.78	0.17	mg/Kg	☼	07/13/21 12:48	07/15/21 21:04	1
Beryllium	**0.74**		0.31	0.044	mg/Kg	☼	07/13/21 12:48	07/15/21 21:04	1
Cadmium	**0.92**		0.31	0.047	mg/Kg	☼	07/13/21 12:48	07/15/21 21:04	1
Calcium	**138000**		78.1	5.2	mg/Kg	☼	07/13/21 12:48	07/15/21 21:04	1
Chromium	**17.0**		0.78	0.31	mg/Kg	☼	07/13/21 12:48	07/15/21 21:04	1
Cobalt	**7.3**		0.78	0.078	mg/Kg	☼	07/13/21 12:48	07/15/21 21:04	1
Copper	**76.2**		1.6	0.33	mg/Kg	☼	07/13/21 12:48	07/15/21 21:04	1
Iron	**31500**		15.6	5.5	mg/Kg	☼	07/13/21 12:48	07/15/21 21:04	1
Lead	**460**		1.6	0.38	mg/Kg	☼	07/13/21 12:48	07/15/21 21:04	1
Magnesium	**25400**		31.3	1.4	mg/Kg	☼	07/13/21 12:48	07/15/21 21:04	1
Manganese	**250**		0.31	0.050	mg/Kg	☼	07/13/21 12:48	07/15/21 21:04	1
Nickel	**22.3**		7.8	0.36	mg/Kg	☼	07/13/21 12:48	07/15/21 21:04	1
Potassium	**1150**		46.9	31.3	mg/Kg	☼	07/13/21 12:48	07/15/21 21:04	1
Selenium	**3.0**	**J**	6.3	0.63	mg/Kg	☼	07/13/21 12:48	07/15/21 21:04	1
Silver	ND		0.94	0.31	mg/Kg	☼	07/13/21 12:48	07/15/21 21:04	1
Sodium	**266**		219	20.3	mg/Kg	☼	07/13/21 12:48	07/15/21 21:04	1
Thallium	ND		9.4	0.47	mg/Kg	☼	07/13/21 12:48	07/15/21 21:04	1
Vanadium	**21.4**		0.78	0.17	mg/Kg	☼	07/13/21 12:48	07/15/21 21:04	1
Zinc	**284**		3.1	1.0	mg/Kg	☼	07/13/21 12:48	07/15/21 21:04	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.41**		0.031	0.0071	mg/Kg	☼	07/14/21 14:08	07/14/21 16:44	1

Surrogate Summary

Client: Asbestos & Environmental Consulting Corp
Project/Site: 400 Erie Blvd West

Job ID: 480-187041-1

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	TBP (54-120)	FBP (60-120)	2FP (52-120)	NBZ (53-120)	TPHd14 (79-130)	PHL (54-120)		
480-187041-1	SS-01	109	86	76	77	102	78		
480-187041-2	SS-02	106	107	80	88	99	87		
480-187041-3	SS-03	85	99	74	83	110	87		
480-187041-3 MS	SS-03	94	95	71	80	109	88		
480-187041-3 MSD	SS-03	94	95	70	76	103	84		
480-187041-4	SS-04	89	95	78	85	101	84		
480-187041-5	SS-05	0 S1-	87	0 S1-	76	109	0 S1-		
480-187041-6	SS-06	98	106	79	90	108	95		
480-187041-7	SS-D	90	98	83	87	104	99		
LCS 480-589139/2-A	Lab Control Sample	153 S1+	115	99	112	141 S1+	104		
LCS 480-590169/2-A	Lab Control Sample	104	99	87	93	106	95		
MB 480-589139/1-A	Method Blank	106	91	85	89	112	87		
MB 480-590169/1-A	Method Blank	101	107	96	98	118	106		

Surrogate Legend

TBP = 2,4,6-Tribromophenol
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
TPHd14 = p-Terphenyl-d14
PHL = Phenol-d5

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

Lab Sample ID: MB 480-589139/1-A
Matrix: Solid
Analysis Batch: 589926

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 589139

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		170	25	ug/Kg		07/15/21 08:23	07/21/21 15:03	1
bis (2-chloroisopropyl) ether	ND		170	34	ug/Kg		07/15/21 08:23	07/21/21 15:03	1
2,4,5-Trichlorophenol	ND		170	46	ug/Kg		07/15/21 08:23	07/21/21 15:03	1
2,4,6-Trichlorophenol	ND		170	34	ug/Kg		07/15/21 08:23	07/21/21 15:03	1
2,4-Dichlorophenol	ND		170	18	ug/Kg		07/15/21 08:23	07/21/21 15:03	1
2,4-Dimethylphenol	ND		170	41	ug/Kg		07/15/21 08:23	07/21/21 15:03	1
2,4-Dinitrophenol	ND		1700	780	ug/Kg		07/15/21 08:23	07/21/21 15:03	1
2,4-Dinitrotoluene	ND		170	35	ug/Kg		07/15/21 08:23	07/21/21 15:03	1
2,6-Dinitrotoluene	ND		170	20	ug/Kg		07/15/21 08:23	07/21/21 15:03	1
2-Chloronaphthalene	ND		170	28	ug/Kg		07/15/21 08:23	07/21/21 15:03	1
2-Chlorophenol	ND		330	31	ug/Kg		07/15/21 08:23	07/21/21 15:03	1
2-Methylnaphthalene	ND		170	34	ug/Kg		07/15/21 08:23	07/21/21 15:03	1
2-Methylphenol	ND		170	20	ug/Kg		07/15/21 08:23	07/21/21 15:03	1
2-Nitroaniline	ND		330	25	ug/Kg		07/15/21 08:23	07/21/21 15:03	1
2-Nitrophenol	ND		170	48	ug/Kg		07/15/21 08:23	07/21/21 15:03	1
3,3'-Dichlorobenzidine	ND		330	200	ug/Kg		07/15/21 08:23	07/21/21 15:03	1
3-Nitroaniline	ND		330	47	ug/Kg		07/15/21 08:23	07/21/21 15:03	1
4,6-Dinitro-2-methylphenol	ND		330	170	ug/Kg		07/15/21 08:23	07/21/21 15:03	1
4-Bromophenyl phenyl ether	ND		170	24	ug/Kg		07/15/21 08:23	07/21/21 15:03	1
4-Chloro-3-methylphenol	ND		170	42	ug/Kg		07/15/21 08:23	07/21/21 15:03	1
4-Chloroaniline	ND		170	42	ug/Kg		07/15/21 08:23	07/21/21 15:03	1
4-Chlorophenyl phenyl ether	ND		170	21	ug/Kg		07/15/21 08:23	07/21/21 15:03	1
4-Methylphenol	ND		330	20	ug/Kg		07/15/21 08:23	07/21/21 15:03	1
4-Nitroaniline	ND		330	89	ug/Kg		07/15/21 08:23	07/21/21 15:03	1
4-Nitrophenol	ND		330	120	ug/Kg		07/15/21 08:23	07/21/21 15:03	1
Acenaphthene	ND		170	25	ug/Kg		07/15/21 08:23	07/21/21 15:03	1
Acenaphthylene	ND		170	22	ug/Kg		07/15/21 08:23	07/21/21 15:03	1
Acetophenone	ND		170	23	ug/Kg		07/15/21 08:23	07/21/21 15:03	1
Anthracene	ND		170	42	ug/Kg		07/15/21 08:23	07/21/21 15:03	1
Atrazine	ND		170	59	ug/Kg		07/15/21 08:23	07/21/21 15:03	1
Benzaldehyde	ND		170	130	ug/Kg		07/15/21 08:23	07/21/21 15:03	1
Benzo[a]anthracene	ND		170	17	ug/Kg		07/15/21 08:23	07/21/21 15:03	1
Benzo[a]pyrene	ND		170	25	ug/Kg		07/15/21 08:23	07/21/21 15:03	1
Benzo[b]fluoranthene	ND		170	27	ug/Kg		07/15/21 08:23	07/21/21 15:03	1
Benzo[g,h,i]perylene	ND		170	18	ug/Kg		07/15/21 08:23	07/21/21 15:03	1
Benzo[k]fluoranthene	ND		170	22	ug/Kg		07/15/21 08:23	07/21/21 15:03	1
Bis(2-chloroethoxy)methane	ND		170	36	ug/Kg		07/15/21 08:23	07/21/21 15:03	1
Bis(2-chloroethyl)ether	ND		170	22	ug/Kg		07/15/21 08:23	07/21/21 15:03	1
Bis(2-ethylhexyl) phthalate	ND		170	58	ug/Kg		07/15/21 08:23	07/21/21 15:03	1
Butyl benzyl phthalate	ND		170	28	ug/Kg		07/15/21 08:23	07/21/21 15:03	1
Caprolactam	ND		170	51	ug/Kg		07/15/21 08:23	07/21/21 15:03	1
Carbazole	ND		170	20	ug/Kg		07/15/21 08:23	07/21/21 15:03	1
Chrysene	ND		170	38	ug/Kg		07/15/21 08:23	07/21/21 15:03	1
Di-n-butyl phthalate	ND		170	29	ug/Kg		07/15/21 08:23	07/21/21 15:03	1
Di-n-octyl phthalate	ND		170	20	ug/Kg		07/15/21 08:23	07/21/21 15:03	1
Dibenz(a,h)anthracene	ND		170	30	ug/Kg		07/15/21 08:23	07/21/21 15:03	1
Dibenzofuran	ND		170	20	ug/Kg		07/15/21 08:23	07/21/21 15:03	1
Diethyl phthalate	ND		170	22	ug/Kg		07/15/21 08:23	07/21/21 15:03	1

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

Lab Sample ID: MB 480-589139/1-A
Matrix: Solid
Analysis Batch: 589926

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 589139

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethyl phthalate	ND		170	20	ug/Kg		07/15/21 08:23	07/21/21 15:03	1
Fluoranthene	ND		170	18	ug/Kg		07/15/21 08:23	07/21/21 15:03	1
Fluorene	ND		170	20	ug/Kg		07/15/21 08:23	07/21/21 15:03	1
Hexachlorobenzene	ND		170	23	ug/Kg		07/15/21 08:23	07/21/21 15:03	1
Hexachlorobutadiene	ND		170	25	ug/Kg		07/15/21 08:23	07/21/21 15:03	1
Hexachlorocyclopentadiene	ND		170	23	ug/Kg		07/15/21 08:23	07/21/21 15:03	1
Hexachloroethane	ND		170	22	ug/Kg		07/15/21 08:23	07/21/21 15:03	1
Indeno[1,2,3-cd]pyrene	ND		170	21	ug/Kg		07/15/21 08:23	07/21/21 15:03	1
Isophorone	ND		170	36	ug/Kg		07/15/21 08:23	07/21/21 15:03	1
N-Nitrosodi-n-propylamine	ND		170	29	ug/Kg		07/15/21 08:23	07/21/21 15:03	1
N-Nitrosodiphenylamine	ND		170	140	ug/Kg		07/15/21 08:23	07/21/21 15:03	1
Naphthalene	ND		170	22	ug/Kg		07/15/21 08:23	07/21/21 15:03	1
Nitrobenzene	ND		170	19	ug/Kg		07/15/21 08:23	07/21/21 15:03	1
Pentachlorophenol	ND		330	170	ug/Kg		07/15/21 08:23	07/21/21 15:03	1
Phenanthrene	ND		170	25	ug/Kg		07/15/21 08:23	07/21/21 15:03	1
Phenol	ND		170	26	ug/Kg		07/15/21 08:23	07/21/21 15:03	1
Pyrene	ND		170	20	ug/Kg		07/15/21 08:23	07/21/21 15:03	1

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*3480*	*T J*	*ug/Kg*		*1.91*		*07/15/21 08:23*	*07/21/21 15:03*	*1*
Unknown	*675*	*T J*	*ug/Kg*		*3.29*		*07/15/21 08:23*	*07/21/21 15:03*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*106*		*54 - 120*	*07/15/21 08:23*	*07/21/21 15:03*	*1*
2-Fluorobiphenyl	*91*		*60 - 120*	*07/15/21 08:23*	*07/21/21 15:03*	*1*
2-Fluorophenol	*85*		*52 - 120*	*07/15/21 08:23*	*07/21/21 15:03*	*1*
Nitrobenzene-d5	*89*		*53 - 120*	*07/15/21 08:23*	*07/21/21 15:03*	*1*
p-Terphenyl-d14	*112*		*79 - 130*	*07/15/21 08:23*	*07/21/21 15:03*	*1*
Phenol-d5	*87*		*54 - 120*	*07/15/21 08:23*	*07/21/21 15:03*	*1*

Lab Sample ID: LCS 480-589139/2-A
Matrix: Solid
Analysis Batch: 589926

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 589139

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Biphenyl	1640	1880		ug/Kg		115	59 - 120
bis (2-chloroisopropyl) ether	1640	1440		ug/Kg		88	44 - 120
2,4,5-Trichlorophenol	1640	2140	*+	ug/Kg		130	59 - 126
2,4,6-Trichlorophenol	1640	1970		ug/Kg		120	59 - 123
2,4-Dichlorophenol	1640	2070	*+	ug/Kg		126	61 - 120
2,4-Dimethylphenol	1640	1980		ug/Kg		120	59 - 120
2,4-Dinitrophenol	3290	4530		ug/Kg		138	41 - 146
2,4-Dinitrotoluene	1640	2220	*+	ug/Kg		135	63 - 120
2,6-Dinitrotoluene	1640	2130	*+	ug/Kg		130	66 - 120
2-Chloronaphthalene	1640	1870		ug/Kg		114	57 - 120
2-Chlorophenol	1640	1740		ug/Kg		106	53 - 120
2-Methylnaphthalene	1640	1830		ug/Kg		112	59 - 120
2-Methylphenol	1640	1830		ug/Kg		111	54 - 120

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

Lab Sample ID: LCS 480-589139/2-A
Matrix: Solid
Analysis Batch: 589926

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 589139

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Nitroaniline	1640	2130	*+	ug/Kg		130	61 - 120
2-Nitrophenol	1640	1890		ug/Kg		115	56 - 120
3,3'-Dichlorobenzidine	3290	4210	*+	ug/Kg		128	54 - 120
3-Nitroaniline	1640	1900		ug/Kg		116	48 - 120
4,6-Dinitro-2-methylphenol	3290	5040	*+	ug/Kg		153	49 - 122
4-Bromophenyl phenyl ether	1640	2390	*+	ug/Kg		146	58 - 120
4-Chloro-3-methylphenol	1640	2250	*+	ug/Kg		137	61 - 120
4-Chloroaniline	1640	1870		ug/Kg		114	38 - 120
4-Chlorophenyl phenyl ether	1640	2120	*+	ug/Kg		129	63 - 124
4-Methylphenol	1640	1880		ug/Kg		115	55 - 120
4-Nitroaniline	1640	2100	*+	ug/Kg		128	56 - 120
4-Nitrophenol	3290	5240	*+	ug/Kg		160	43 - 147
Acenaphthene	1640	1960		ug/Kg		119	62 - 120
Acenaphthylene	1640	2040	*+	ug/Kg		124	58 - 121
Acetophenone	1640	1860		ug/Kg		113	54 - 120
Anthracene	1640	2290	*+	ug/Kg		139	62 - 120
Atrazine	3290	4730	*+	ug/Kg		144	60 - 127
Benzaldehyde	3290	3580	E	ug/Kg		109	10 - 150
Benzo[a]anthracene	1640	2280	*+	ug/Kg		139	65 - 120
Benzo[a]pyrene	1640	2170	*+	ug/Kg		132	64 - 120
Benzo[b]fluoranthene	1640	2290	*+	ug/Kg		139	64 - 120
Benzo[g,h,i]perylene	1640	2140		ug/Kg		130	45 - 145
Benzo[k]fluoranthene	1640	2270	*+	ug/Kg		138	65 - 120
Bis(2-chloroethoxy)methane	1640	1860		ug/Kg		113	55 - 120
Bis(2-chloroethyl)ether	1640	1550		ug/Kg		94	45 - 120
Bis(2-ethylhexyl) phthalate	1640	2380	*+	ug/Kg		145	61 - 133
Butyl benzyl phthalate	1640	2400	*+	ug/Kg		146	61 - 129
Caprolactam	3290	4280	*+	ug/Kg		130	47 - 120
Carbazole	1640	2280	*+	ug/Kg		139	65 - 120
Chrysene	1640	2240	*+	ug/Kg		136	64 - 120
Di-n-butyl phthalate	1640	2490	*+	ug/Kg		151	58 - 130
Di-n-octyl phthalate	1640	2300	*+	ug/Kg		140	57 - 133
Dibenz(a,h)anthracene	1640	2270	*+	ug/Kg		138	54 - 132
Dibenzofuran	1640	1990	*+	ug/Kg		121	63 - 120
Diethyl phthalate	1640	2360	*+	ug/Kg		144	66 - 120
Dimethyl phthalate	1640	2190	*+	ug/Kg		134	65 - 124
Fluoranthene	1640	2370	*+	ug/Kg		144	62 - 120
Fluorene	1640	2110	*+	ug/Kg		129	63 - 120
Hexachlorobenzene	1640	2450	*+	ug/Kg		149	60 - 120
Hexachlorobutadiene	1640	1960		ug/Kg		120	45 - 120
Hexachlorocyclopentadiene	1640	1590		ug/Kg		97	47 - 120
Hexachloroethane	1640	1650		ug/Kg		101	41 - 120
Indeno[1,2,3-cd]pyrene	1640	2240	*+	ug/Kg		136	56 - 134
Isophorone	1640	1970		ug/Kg		120	56 - 120
N-Nitrosodi-n-propylamine	1640	1820		ug/Kg		111	52 - 120
Naphthalene	1640	1800		ug/Kg		110	55 - 120
Nitrobenzene	1640	1850		ug/Kg		113	54 - 120
Pentachlorophenol	3290	4960	*+	ug/Kg		151	51 - 120
Phenanthrene	1640	2200	*+	ug/Kg		134	60 - 120

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

Lab Sample ID: LCS 480-589139/2-A
Matrix: Solid
Analysis Batch: 589926

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 589139

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Phenol	1640	1750		ug/Kg		106	53 - 120
Pyrene	1640	2220	*+	ug/Kg		135	61 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol	*153*	*S1+*	*54 - 120*
2-Fluorobiphenyl	*115*		*60 - 120*
2-Fluorophenol	*99*		*52 - 120*
Nitrobenzene-d5	*112*		*53 - 120*
p-Terphenyl-d14	*141*	*S1+*	*79 - 130*
Phenol-d5	*104*		*54 - 120*

Lab Sample ID: MB 480-590169/1-A
Matrix: Solid
Analysis Batch: 590399

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 590169

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		170	24	ug/Kg		07/23/21 08:06	07/26/21 12:12	1
bis (2-chloroisopropyl) ether	ND		170	33	ug/Kg		07/23/21 08:06	07/26/21 12:12	1
2,4,5-Trichlorophenol	ND		170	45	ug/Kg		07/23/21 08:06	07/26/21 12:12	1
2,4,6-Trichlorophenol	ND		170	33	ug/Kg		07/23/21 08:06	07/26/21 12:12	1
2,4-Dichlorophenol	ND		170	18	ug/Kg		07/23/21 08:06	07/26/21 12:12	1
2,4-Dimethylphenol	ND		170	40	ug/Kg		07/23/21 08:06	07/26/21 12:12	1
2,4-Dinitrophenol	ND		1600	770	ug/Kg		07/23/21 08:06	07/26/21 12:12	1
2,4-Dinitrotoluene	ND		170	34	ug/Kg		07/23/21 08:06	07/26/21 12:12	1
2,6-Dinitrotoluene	ND		170	20	ug/Kg		07/23/21 08:06	07/26/21 12:12	1
2-Chloronaphthalene	ND		170	27	ug/Kg		07/23/21 08:06	07/26/21 12:12	1
2-Chlorophenol	ND		320	30	ug/Kg		07/23/21 08:06	07/26/21 12:12	1
2-Methylnaphthalene	ND		170	33	ug/Kg		07/23/21 08:06	07/26/21 12:12	1
2-Methylphenol	ND		170	20	ug/Kg		07/23/21 08:06	07/26/21 12:12	1
2-Nitroaniline	ND		320	24	ug/Kg		07/23/21 08:06	07/26/21 12:12	1
2-Nitrophenol	ND		170	47	ug/Kg		07/23/21 08:06	07/26/21 12:12	1
3,3'-Dichlorobenzidine	ND		320	200	ug/Kg		07/23/21 08:06	07/26/21 12:12	1
3-Nitroaniline	ND		320	46	ug/Kg		07/23/21 08:06	07/26/21 12:12	1
4,6-Dinitro-2-methylphenol	ND		320	170	ug/Kg		07/23/21 08:06	07/26/21 12:12	1
4-Bromophenyl phenyl ether	ND		170	23	ug/Kg		07/23/21 08:06	07/26/21 12:12	1
4-Chloro-3-methylphenol	ND		170	41	ug/Kg		07/23/21 08:06	07/26/21 12:12	1
4-Chloroaniline	ND		170	41	ug/Kg		07/23/21 08:06	07/26/21 12:12	1
4-Chlorophenyl phenyl ether	ND		170	21	ug/Kg		07/23/21 08:06	07/26/21 12:12	1
4-Methylphenol	ND		320	20	ug/Kg		07/23/21 08:06	07/26/21 12:12	1
4-Nitroaniline	ND		320	87	ug/Kg		07/23/21 08:06	07/26/21 12:12	1
4-Nitrophenol	ND		320	120	ug/Kg		07/23/21 08:06	07/26/21 12:12	1
Acenaphthene	ND		170	24	ug/Kg		07/23/21 08:06	07/26/21 12:12	1
Acenaphthylene	ND		170	22	ug/Kg		07/23/21 08:06	07/26/21 12:12	1
Acetophenone	ND		170	22	ug/Kg		07/23/21 08:06	07/26/21 12:12	1
Anthracene	ND		170	41	ug/Kg		07/23/21 08:06	07/26/21 12:12	1
Atrazine	ND		170	58	ug/Kg		07/23/21 08:06	07/26/21 12:12	1
Benzaldehyde	ND		170	130	ug/Kg		07/23/21 08:06	07/26/21 12:12	1
Benzo[a]anthracene	ND		170	17	ug/Kg		07/23/21 08:06	07/26/21 12:12	1

Client: Asbestos & Environmental Consulting Corp
Project/Site: 400 Erie Blvd West

Job ID: 480-187041-1

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

Lab Sample ID: MB 480-590169/1-A
Matrix: Solid
Analysis Batch: 590399

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 590169

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	ND		170	24	ug/Kg		07/23/21 08:06	07/26/21 12:12	1
Benzo[b]fluoranthene	ND		170	26	ug/Kg		07/23/21 08:06	07/26/21 12:12	1
Benzo[g,h,i]perylene	ND		170	18	ug/Kg		07/23/21 08:06	07/26/21 12:12	1
Benzo[k]fluoranthene	ND		170	22	ug/Kg		07/23/21 08:06	07/26/21 12:12	1
Bis(2-chloroethoxy)methane	ND		170	35	ug/Kg		07/23/21 08:06	07/26/21 12:12	1
Bis(2-chloroethyl)ether	ND		170	22	ug/Kg		07/23/21 08:06	07/26/21 12:12	1
Bis(2-ethylhexyl) phthalate	ND		170	57	ug/Kg		07/23/21 08:06	07/26/21 12:12	1
Butyl benzyl phthalate	ND		170	27	ug/Kg		07/23/21 08:06	07/26/21 12:12	1
Caprolactam	ND		170	50	ug/Kg		07/23/21 08:06	07/26/21 12:12	1
Carbazole	ND		170	20	ug/Kg		07/23/21 08:06	07/26/21 12:12	1
Chrysene	ND		170	37	ug/Kg		07/23/21 08:06	07/26/21 12:12	1
Di-n-butyl phthalate	ND		170	28	ug/Kg		07/23/21 08:06	07/26/21 12:12	1
Di-n-octyl phthalate	ND		170	20	ug/Kg		07/23/21 08:06	07/26/21 12:12	1
Dibenz(a,h)anthracene	ND		170	29	ug/Kg		07/23/21 08:06	07/26/21 12:12	1
Dibenzofuran	ND		170	20	ug/Kg		07/23/21 08:06	07/26/21 12:12	1
Diethyl phthalate	ND		170	22	ug/Kg		07/23/21 08:06	07/26/21 12:12	1
Dimethyl phthalate	ND		170	20	ug/Kg		07/23/21 08:06	07/26/21 12:12	1
Fluoranthene	ND		170	18	ug/Kg		07/23/21 08:06	07/26/21 12:12	1
Fluorene	ND		170	20	ug/Kg		07/23/21 08:06	07/26/21 12:12	1
Hexachlorobenzene	ND		170	22	ug/Kg		07/23/21 08:06	07/26/21 12:12	1
Hexachlorobutadiene	ND		170	24	ug/Kg		07/23/21 08:06	07/26/21 12:12	1
Hexachlorocyclopentadiene	ND		170	22	ug/Kg		07/23/21 08:06	07/26/21 12:12	1
Hexachloroethane	ND		170	22	ug/Kg		07/23/21 08:06	07/26/21 12:12	1
Indeno[1,2,3-cd]pyrene	ND		170	21	ug/Kg		07/23/21 08:06	07/26/21 12:12	1
Isophorone	ND		170	35	ug/Kg		07/23/21 08:06	07/26/21 12:12	1
N-Nitrosodi-n-propylamine	ND		170	28	ug/Kg		07/23/21 08:06	07/26/21 12:12	1
N-Nitrosodiphenylamine	ND		170	130	ug/Kg		07/23/21 08:06	07/26/21 12:12	1
Naphthalene	ND		170	22	ug/Kg		07/23/21 08:06	07/26/21 12:12	1
Nitrobenzene	ND		170	19	ug/Kg		07/23/21 08:06	07/26/21 12:12	1
Pentachlorophenol	ND		320	170	ug/Kg		07/23/21 08:06	07/26/21 12:12	1
Phenanthrene	ND		170	24	ug/Kg		07/23/21 08:06	07/26/21 12:12	1
Phenol	ND		170	25	ug/Kg		07/23/21 08:06	07/26/21 12:12	1
Pyrene	ND		170	20	ug/Kg		07/23/21 08:06	07/26/21 12:12	1

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*156*	*T J*	*ug/Kg*		*3.25*		*07/23/21 08:06*	*07/26/21 12:12*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*101*		*54 - 120*	*07/23/21 08:06*	*07/26/21 12:12*	*1*
2-Fluorobiphenyl	*107*		*60 - 120*	*07/23/21 08:06*	*07/26/21 12:12*	*1*
2-Fluorophenol	*96*		*52 - 120*	*07/23/21 08:06*	*07/26/21 12:12*	*1*
Nitrobenzene-d5	*98*		*53 - 120*	*07/23/21 08:06*	*07/26/21 12:12*	*1*
p-Terphenyl-d14	*118*		*79 - 130*	*07/23/21 08:06*	*07/26/21 12:12*	*1*
Phenol-d5	*106*		*54 - 120*	*07/23/21 08:06*	*07/26/21 12:12*	*1*

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

Lab Sample ID: LCS 480-590169/2-A
Matrix: Solid
Analysis Batch: 590399

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 590169

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Biphenyl	1630	1680		ug/Kg		103	59 - 120
bis (2-chloroisopropyl) ether	1630	1490		ug/Kg		92	44 - 120
2,4,5-Trichlorophenol	1630	1740		ug/Kg		107	59 - 126
2,4,6-Trichlorophenol	1630	1650		ug/Kg		101	59 - 123
2,4-Dichlorophenol	1630	1660		ug/Kg		102	61 - 120
2,4-Dimethylphenol	1630	1600		ug/Kg		98	59 - 120
2,4-Dinitrophenol	3260	3470		ug/Kg		107	41 - 146
2,4-Dinitrotoluene	1630	1700		ug/Kg		105	63 - 120
2,6-Dinitrotoluene	1630	1690		ug/Kg		104	66 - 120
2-Chloronaphthalene	1630	1640		ug/Kg		101	57 - 120
2-Chlorophenol	1630	1540		ug/Kg		95	53 - 120
2-Methylnaphthalene	1630	1550		ug/Kg		95	59 - 120
2-Methylphenol	1630	1630		ug/Kg		100	54 - 120
2-Nitroaniline	1630	1720		ug/Kg		105	61 - 120
2-Nitrophenol	1630	1550		ug/Kg		96	56 - 120
3,3'-Dichlorobenzidine	3260	2880		ug/Kg		89	54 - 120
3-Nitroaniline	1630	1480		ug/Kg		91	48 - 120
4,6-Dinitro-2-methylphenol	3260	3780		ug/Kg		116	49 - 122
4-Bromophenyl phenyl ether	1630	1800		ug/Kg		111	58 - 120
4-Chloro-3-methylphenol	1630	1720		ug/Kg		106	61 - 120
4-Chloroaniline	1630	1470		ug/Kg		90	38 - 120
4-Chlorophenyl phenyl ether	1630	1720		ug/Kg		106	63 - 124
4-Methylphenol	1630	1710		ug/Kg		105	55 - 120
4-Nitroaniline	1630	1740		ug/Kg		107	56 - 120
4-Nitrophenol	3260	3570		ug/Kg		110	43 - 147
Acenaphthene	1630	1660		ug/Kg		102	62 - 120
Acenaphthylene	1630	1730		ug/Kg		106	58 - 121
Acetophenone	1630	1580		ug/Kg		97	54 - 120
Anthracene	1630	1820		ug/Kg		112	62 - 120
Atrazine	3260	3260		ug/Kg		100	60 - 127
Benzaldehyde	3260	2490		ug/Kg		77	10 - 150
Benzo[a]anthracene	1630	1850		ug/Kg		114	65 - 120
Benzo[a]pyrene	1630	1760		ug/Kg		108	64 - 120
Benzo[b]fluoranthene	1630	1890		ug/Kg		116	64 - 120
Benzo[g,h,i]perylene	1630	1780		ug/Kg		110	45 - 145
Benzo[k]fluoranthene	1630	1800		ug/Kg		110	65 - 120
Bis(2-chloroethoxy)methane	1630	1580		ug/Kg		97	55 - 120
Bis(2-chloroethyl)ether	1630	1440		ug/Kg		89	45 - 120
Bis(2-ethylhexyl) phthalate	1630	1720		ug/Kg		105	61 - 133
Butyl benzyl phthalate	1630	1770		ug/Kg		109	61 - 129
Caprolactam	3260	3190		ug/Kg		98	47 - 120
Carbazole	1630	1790		ug/Kg		110	65 - 120
Chrysene	1630	1790		ug/Kg		110	64 - 120
Di-n-butyl phthalate	1630	1750		ug/Kg		107	58 - 130
Di-n-octyl phthalate	1630	1670		ug/Kg		102	57 - 133
Dibenz(a,h)anthracene	1630	1890		ug/Kg		116	54 - 132
Dibenzofuran	1630	1710		ug/Kg		105	63 - 120
Diethyl phthalate	1630	1720		ug/Kg		106	66 - 120

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

Lab Sample ID: LCS 480-590169/2-A
Matrix: Solid
Analysis Batch: 590399

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 590169

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dimethyl phthalate	1630	1710		ug/Kg		105	65 - 124
Fluoranthene	1630	1720		ug/Kg		106	62 - 120
Fluorene	1630	1700		ug/Kg		105	63 - 120
Hexachlorobenzene	1630	1760		ug/Kg		108	60 - 120
Hexachlorobutadiene	1630	1540		ug/Kg		95	45 - 120
Hexachlorocyclopentadiene	1630	1400		ug/Kg		86	47 - 120
Hexachloroethane	1630	1360		ug/Kg		84	41 - 120
Indeno[1,2,3-cd]pyrene	1630	1760		ug/Kg		108	56 - 134
Isophorone	1630	1620		ug/Kg		100	56 - 120
N-Nitrosodi-n-propylamine	1630	1660		ug/Kg		102	52 - 120
Naphthalene	1630	1520		ug/Kg		93	55 - 120
Nitrobenzene	1630	1570		ug/Kg		96	54 - 120
Pentachlorophenol	3260	3620		ug/Kg		111	51 - 120
Phenanthrene	1630	1810		ug/Kg		112	60 - 120
Phenol	1630	1500		ug/Kg		92	53 - 120
Pyrene	1630	1830		ug/Kg		112	61 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol	*104*		*54 - 120*
2-Fluorobiphenyl	*99*		*60 - 120*
2-Fluorophenol	*87*		*52 - 120*
Nitrobenzene-d5	*93*		*53 - 120*
p-Terphenyl-d14	*106*		*79 - 130*
Phenol-d5	*95*		*54 - 120*

Lab Sample ID: 480-187041-3 MS
Matrix: Solid
Analysis Batch: 590399

Client Sample ID: SS-03
Prep Type: Total/NA
Prep Batch: 590169

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Biphenyl	ND		2020	2230		ug/Kg	☼	110	58 - 120
bis (2-chloroisopropyl) ether	ND		2020	1540	J	ug/Kg	☼	76	31 - 120
2,4,5-Trichlorophenol	ND		2020	2000	J	ug/Kg	☼	99	46 - 120
2,4,6-Trichlorophenol	ND		2020	1900	J	ug/Kg	☼	94	41 - 123
2,4-Dichlorophenol	ND		2020	1980	J	ug/Kg	☼	98	45 - 120
2,4-Dimethylphenol	ND		2020	1600	J	ug/Kg	☼	79	52 - 120
2,4-Dinitrophenol	ND		4050	ND		ug/Kg	☼	NC	41 - 146
2,4-Dinitrotoluene	ND		2020	2110		ug/Kg	☼	104	63 - 125
2,6-Dinitrotoluene	ND		2020	2170		ug/Kg	☼	107	66 - 120
2-Chloronaphthalene	ND		2020	1950	J	ug/Kg	☼	96	57 - 120
2-Chlorophenol	ND		2020	1670	J	ug/Kg	☼	83	43 - 120
2-Methylnaphthalene	480	J	2020	2910		ug/Kg	☼	120	55 - 120
2-Methylphenol	ND		2020	1790	J	ug/Kg	☼	89	48 - 120
2-Nitroaniline	ND		2020	2180	J	ug/Kg	☼	108	61 - 120
2-Nitrophenol	ND		2020	1720	J	ug/Kg	☼	85	37 - 120
3,3'-Dichlorobenzidine	ND	F1	4050	2470	J	ug/Kg	☼	61	37 - 126
3-Nitroaniline	ND		2020	1770	J	ug/Kg	☼	88	48 - 120
4,6-Dinitro-2-methylphenol	ND		4050	2760	J	ug/Kg	☼	68	23 - 149

Client: Asbestos & Environmental Consulting Corp
Project/Site: 400 Erie Blvd West

Job ID: 480-187041-1

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

Lab Sample ID: 480-187041-3 MS
Matrix: Solid
Analysis Batch: 590399

Client Sample ID: SS-03
Prep Type: Total/NA
Prep Batch: 590169

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Bromophenyl phenyl ether	ND		2020	2190		ug/Kg	☼	108	58 - 120
4-Chloro-3-methylphenol	ND		2020	2130		ug/Kg	☼	105	49 - 125
4-Chloroaniline	ND		2020	1070	J	ug/Kg	☼	53	38 - 120
4-Chlorophenyl phenyl ether	ND		2020	2150		ug/Kg	☼	106	63 - 124
4-Methylphenol	ND		2020	1860	J	ug/Kg	☼	92	50 - 120
4-Nitroaniline	ND		2020	2020	J	ug/Kg	☼	100	47 - 120
4-Nitrophenol	ND		4050	4640		ug/Kg	☼	115	31 - 147
Acenaphthene	350	J	2020	2780		ug/Kg	☼	120	60 - 120
Acenaphthylene	540	J F1	2020	3150	F1	ug/Kg	☼	129	58 - 121
Acetophenone	ND		2020	1810	J	ug/Kg	☼	90	47 - 120
Anthracene	1300	J F2 F1	2020	4890	F1	ug/Kg	☼	179	62 - 120
Atrazine	ND		4050	4130		ug/Kg	☼	102	60 - 150
Benzaldehyde	ND		4050	2710		ug/Kg	☼	67	10 - 150
Benzo[a]anthracene	4600	F2 F1	2020	8740	F1	ug/Kg	☼	205	65 - 120
Benzo[a]pyrene	4400	F1	2020	7800	F1	ug/Kg	☼	170	64 - 120
Benzo[b]fluoranthene	6600	F2 F1	2020	10800	F1	ug/Kg	☼	208	10 - 150
Benzo[g,h,i]perylene	3500	F1	2020	6960	F1	ug/Kg	☼	171	45 - 145
Benzo[k]fluoranthene	2200	F1	2020	5550	F1	ug/Kg	☼	167	23 - 150
Bis(2-chloroethoxy)methane	ND		2020	1790	J	ug/Kg	☼	89	52 - 120
Bis(2-chloroethyl)ether	ND		2020	1610	J	ug/Kg	☼	80	45 - 120
Bis(2-ethylhexyl) phthalate	ND		2020	2190		ug/Kg	☼	108	61 - 133
Butyl benzyl phthalate	ND		2020	2320		ug/Kg	☼	114	61 - 120
Caprolactam	ND		4050	4110		ug/Kg	☼	102	37 - 133
Carbazole	440	J F1	2020	2880	F1	ug/Kg	☼	121	59 - 120
Chrysene	4800	F2 F1	2020	9200	F1	ug/Kg	☼	218	64 - 120
Di-n-butyl phthalate	ND		2020	2310		ug/Kg	☼	114	58 - 130
Di-n-octyl phthalate	ND		2020	2160		ug/Kg	☼	107	57 - 133
Dibenz(a,h)anthracene	900	J F2 F1	2020	3880	F1	ug/Kg	☼	147	54 - 132
Dibenzofuran	350	J F2 F1	2020	3820	F1	ug/Kg	☼	171	62 - 120
Diethyl phthalate	ND		2020	2140		ug/Kg	☼	106	66 - 120
Dimethyl phthalate	ND		2020	2130		ug/Kg	☼	105	65 - 124
Fluoranthene	8000	F2 F1	2020	13900	F1	ug/Kg	☼	290	62 - 120
Fluorene	390	J F2 F1	2020	3160	F1	ug/Kg	☼	137	63 - 120
Hexachlorobenzene	ND		2020	2160		ug/Kg	☼	107	60 - 120
Hexachlorobutadiene	ND		2020	1760	J	ug/Kg	☼	87	45 - 120
Hexachlorocyclopentadiene	ND		2020	1530	J	ug/Kg	☼	76	31 - 120
Hexachloroethane	ND		2020	1330	J	ug/Kg	☼	66	21 - 120
Indeno[1,2,3-cd]pyrene	3200	F2 F1	2020	6760	F1	ug/Kg	☼	174	56 - 134
Isophorone	ND		2020	1800	J	ug/Kg	☼	89	56 - 120
N-Nitrosodi-n-propylamine	ND		2020	1850	J	ug/Kg	☼	91	46 - 120
Naphthalene	410	J F1	2020	3160	F1	ug/Kg	☼	136	46 - 120
Nitrobenzene	ND		2020	1760	J	ug/Kg	☼	87	49 - 120
Pentachlorophenol	ND		4050	2510	J	ug/Kg	☼	62	25 - 136
Phenanthrene	5100	F2 F1	2020	11000	F1	ug/Kg	☼	291	60 - 122
Phenol	ND		2020	1590	J	ug/Kg	☼	79	50 - 120
Pyrene	7000	F1	2020	11900	F1	ug/Kg	☼	241	61 - 133

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

Lab Sample ID: 480-187041-3 MS
Matrix: Solid
Analysis Batch: 590399

Client Sample ID: SS-03
Prep Type: Total/NA
Prep Batch: 590169

Surrogate	MS %Recovery	MS Qualifier	Limits
2,4,6-Tribromophenol	*94*		*54 - 120*
2-Fluorobiphenyl	*95*		*60 - 120*
2-Fluorophenol	*71*		*52 - 120*
Nitrobenzene-d5	*80*		*53 - 120*
p-Terphenyl-d14	*109*		*79 - 130*
Phenol-d5	*88*		*54 - 120*

Lab Sample ID: 480-187041-3 MSD
Matrix: Solid
Analysis Batch: 590399

Client Sample ID: SS-03
Prep Type: Total/NA
Prep Batch: 590169

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Biphenyl	ND		2050	2120		ug/Kg	☼	103	58 - 120	5	20
bis (2-chloroisopropyl) ether	ND		2050	1410	J	ug/Kg	☼	69	31 - 120	9	24
2,4,5-Trichlorophenol	ND		2050	1940	J	ug/Kg	☼	95	46 - 120	3	18
2,4,6-Trichlorophenol	ND		2050	1830	J	ug/Kg	☼	89	41 - 123	4	19
2,4-Dichlorophenol	ND		2050	1840	J	ug/Kg	☼	90	45 - 120	8	19
2,4-Dimethylphenol	ND		2050	1520	J	ug/Kg	☼	74	52 - 120	6	42
2,4-Dinitrophenol	ND		4100	ND		ug/Kg	☼	NC	41 - 146	NC	22
2,4-Dinitrotoluene	ND		2050	2150		ug/Kg	☼	105	63 - 125	2	20
2,6-Dinitrotoluene	ND		2050	1960	J	ug/Kg	☼	96	66 - 120	10	15
2-Chloronaphthalene	ND		2050	1930	J	ug/Kg	☼	94	57 - 120	1	21
2-Chlorophenol	ND		2050	1620	J	ug/Kg	☼	79	43 - 120	3	25
2-Methylnaphthalene	480	J	2050	2530		ug/Kg	☼	100	55 - 120	14	21
2-Methylphenol	ND		2050	1760	J	ug/Kg	☼	86	48 - 120	2	27
2-Nitroaniline	ND		2050	1970	J	ug/Kg	☼	96	61 - 120	10	15
2-Nitrophenol	ND		2050	1650	J	ug/Kg	☼	80	37 - 120	5	18
3,3'-Dichlorobenzidine	ND	F1	4100	ND	F1	ug/Kg	☼	0	37 - 126	NC	25
3-Nitroaniline	ND		2050	1750	J	ug/Kg	☼	85	48 - 120	1	19
4,6-Dinitro-2-methylphenol	ND		4100	2480	J	ug/Kg	☼	60	23 - 149	11	15
4-Bromophenyl phenyl ether	ND		2050	2080	J	ug/Kg	☼	101	58 - 120	5	15
4-Chloro-3-methylphenol	ND		2050	1950	J	ug/Kg	☼	95	49 - 125	9	27
4-Chloroaniline	ND		2050	1020	J	ug/Kg	☼	50	38 - 120	5	22
4-Chlorophenyl phenyl ether	ND		2050	2020	J	ug/Kg	☼	98	63 - 124	6	16
4-Methylphenol	ND		2050	2000	J	ug/Kg	☼	97	50 - 120	7	24
4-Nitroaniline	ND		2050	1970	J	ug/Kg	☼	96	47 - 120	3	24
4-Nitrophenol	ND		4100	4200		ug/Kg	☼	102	31 - 147	10	25
Acenaphthene	350	J	2050	2320		ug/Kg	☼	96	60 - 120	18	35
Acenaphthylene	540	J F1	2050	2710		ug/Kg	☼	106	58 - 121	15	18
Acetophenone	ND		2050	1760	J	ug/Kg	☼	86	47 - 120	3	20
Anthracene	1300	J F2 F1	2050	3770	F1 F2	ug/Kg	☼	122	62 - 120	26	15
Atrazine	ND		4100	4250		ug/Kg	☼	104	60 - 150	3	20
Benzaldehyde	ND		4100	2580		ug/Kg	☼	63	10 - 150	5	20
Benzo[a]anthracene	4600	F2 F1	2050	7370	F1 F2	ug/Kg	☼	135	65 - 120	17	15
Benzo[a]pyrene	4400	F1	2050	6840	F1	ug/Kg	☼	121	64 - 120	13	15
Benzo[b]fluoranthene	6600	F2 F1	2050	8850	F2	ug/Kg	☼	108	10 - 150	20	15
Benzo[g,h,i]perylene	3500	F1	2050	6030		ug/Kg	☼	124	45 - 145	14	15
Benzo[k]fluoranthene	2200	F1	2050	4930		ug/Kg	☼	135	23 - 150	12	22

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

Lab Sample ID: 480-187041-3 MSD
Matrix: Solid
Analysis Batch: 590399

Client Sample ID: SS-03
Prep Type: Total/NA
Prep Batch: 590169

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bis(2-chloroethoxy)methane	ND		2050	1710	J	ug/Kg	☼	83	52 - 120	5	17
Bis(2-chloroethyl)ether	ND		2050	1540	J	ug/Kg	☼	75	45 - 120	4	21
Bis(2-ethylhexyl) phthalate	ND		2050	2210		ug/Kg	☼	108	61 - 133	1	15
Butyl benzyl phthalate	ND		2050	2180		ug/Kg	☼	106	61 - 120	6	16
Caprolactam	ND		4100	4190		ug/Kg	☼	102	37 - 133	2	20
Carbazole	440	J F1	2050	2570		ug/Kg	☼	104	59 - 120	11	20
Chrysene	4800	F2 F1	2050	7690	F1 F2	ug/Kg	☼	141	64 - 120	18	15
Di-n-butyl phthalate	ND		2050	2210		ug/Kg	☼	108	58 - 130	4	15
Di-n-octyl phthalate	ND		2050	2090	J	ug/Kg	☼	102	57 - 133	3	16
Dibenz(a,h)anthracene	900	J F2 F1	2050	3300	F2	ug/Kg	☼	117	54 - 132	16	15
Dibenzofuran	350	J F2 F1	2050	2760	F2	ug/Kg	☼	118	62 - 120	32	15
Diethyl phthalate	ND		2050	2020	J	ug/Kg	☼	99	66 - 120	6	15
Dimethyl phthalate	ND		2050	1990	J	ug/Kg	☼	97	65 - 124	7	15
Fluoranthene	8000	F2 F1	2050	11200	F1 F2	ug/Kg	☼	155	62 - 120	21	15
Fluorene	390	J F2 F1	2050	2550	F2	ug/Kg	☼	105	63 - 120	22	15
Hexachlorobenzene	ND		2050	2090	J	ug/Kg	☼	102	60 - 120	3	15
Hexachlorobutadiene	ND		2050	1580	J	ug/Kg	☼	77	45 - 120	11	44
Hexachlorocyclopentadiene	ND		2050	1380	J	ug/Kg	☼	67	31 - 120	11	49
Hexachloroethane	ND		2050	1460	J	ug/Kg	☼	71	21 - 120	9	46
Indeno[1,2,3-cd]pyrene	3200	F2 F1	2050	5750	F2	ug/Kg	☼	123	56 - 134	16	15
Isophorone	ND		2050	1850	J	ug/Kg	☼	90	56 - 120	3	17
N-Nitrosodi-n-propylamine	ND		2050	1890	J	ug/Kg	☼	92	46 - 120	2	31
Naphthalene	410	J F1	2050	2450		ug/Kg	☼	99	46 - 120	25	29
Nitrobenzene	ND		2050	1550	J	ug/Kg	☼	75	49 - 120	13	24
Pentachlorophenol	ND		4100	2500	J	ug/Kg	☼	61	25 - 136	0	35
Phenanthrene	5100	F2 F1	2050	8160	F1 F2	ug/Kg	☼	148	60 - 122	30	15
Phenol	ND		2050	1710	J	ug/Kg	☼	83	50 - 120	7	35
Pyrene	7000	F1	2050	10200	F1	ug/Kg	☼	154	61 - 133	16	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2,4,6-Tribromophenol	*94*		*54 - 120*
2-Fluorobiphenyl	*95*		*60 - 120*
2-Fluorophenol	*70*		*52 - 120*
Nitrobenzene-d5	*76*		*53 - 120*
p-Terphenyl-d14	*103*		*79 - 130*
Phenol-d5	*84*		*54 - 120*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-588739/1-A
Matrix: Solid
Analysis Batch: 589342

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 588739

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		9.9	4.3	mg/Kg		07/13/21 12:48	07/15/21 19:57	1
Antimony	ND		14.8	0.39	mg/Kg		07/13/21 12:48	07/15/21 19:57	1
Arsenic	ND		2.0	0.39	mg/Kg		07/13/21 12:48	07/15/21 19:57	1
Barium	ND	^6+	0.49	0.11	mg/Kg		07/13/21 12:48	07/15/21 19:57	1
Beryllium	ND		0.20	0.028	mg/Kg		07/13/21 12:48	07/15/21 19:57	1

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

Lab Sample ID: MB 480-588739/1-A
Matrix: Solid
Analysis Batch: 589342

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 588739

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		0.20	0.030	mg/Kg		07/13/21 12:48	07/15/21 19:57	1
Calcium	ND		49.3	3.3	mg/Kg		07/13/21 12:48	07/15/21 19:57	1
Chromium	ND		0.49	0.20	mg/Kg		07/13/21 12:48	07/15/21 19:57	1
Cobalt	ND		0.49	0.049	mg/Kg		07/13/21 12:48	07/15/21 19:57	1
Copper	ND		0.99	0.21	mg/Kg		07/13/21 12:48	07/15/21 19:57	1
Iron	ND		9.9	3.4	mg/Kg		07/13/21 12:48	07/15/21 19:57	1
Lead	ND		0.99	0.24	mg/Kg		07/13/21 12:48	07/15/21 19:57	1
Magnesium	ND		19.7	0.91	mg/Kg		07/13/21 12:48	07/15/21 19:57	1
Manganese	ND		0.20	0.032	mg/Kg		07/13/21 12:48	07/15/21 19:57	1
Nickel	ND		4.9	0.23	mg/Kg		07/13/21 12:48	07/15/21 19:57	1
Potassium	ND		29.6	19.7	mg/Kg		07/13/21 12:48	07/15/21 19:57	1
Selenium	ND		3.9	0.39	mg/Kg		07/13/21 12:48	07/15/21 19:57	1
Silver	ND		0.59	0.20	mg/Kg		07/13/21 12:48	07/15/21 19:57	1
Sodium	ND		138	12.8	mg/Kg		07/13/21 12:48	07/15/21 19:57	1
Thallium	ND		5.9	0.30	mg/Kg		07/13/21 12:48	07/15/21 19:57	1
Vanadium	ND		0.49	0.11	mg/Kg		07/13/21 12:48	07/15/21 19:57	1
Zinc	ND		2.0	0.63	mg/Kg		07/13/21 12:48	07/15/21 19:57	1

Lab Sample ID: LCDSRM 480-588739/23-A
Matrix: Solid
Analysis Batch: 589342

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 588739

Analyte	Spike Added	LCDSRM Result	LCDSRM Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum	8190	8448		mg/Kg		103.1	50.1 - 150.2	2	20
Antimony	110	82.97		mg/Kg		75.4	22.2 - 254.5	3	20
Arsenic	162	130.0		mg/Kg		80.2	70.4 - 130.2	0	20
Barium	138	122.0	^6+	mg/Kg		88.4	74.6 - 124.6	7	20
Beryllium	157	147.2		mg/Kg		93.8	75.2 - 125.5	7	20
Cadmium	135	125.4		mg/Kg		92.9	74.8 - 124.4	7	20
Calcium	4790	4155		mg/Kg		86.7	72.7 - 127.3	8	20
Chromium	117	109.8		mg/Kg		93.8	70.1 - 129.9	7	20
Cobalt	92.6	94.30		mg/Kg		101.8	75.1 - 125.3	6	20
Copper	143	118.7		mg/Kg		83.0	74.8 - 124.5	3	20
Iron	15100	11710		mg/Kg		77.5	37.2 - 162.9	2	20
Lead	77.6	67.12		mg/Kg		86.5	68.8 - 131.4	4	20
Magnesium	2320	2131		mg/Kg		91.9	62.1 - 137.9	0	20
Manganese	319	305.1		mg/Kg		95.7	74.9 - 125.1	9	20
Nickel	79.9	83.44		mg/Kg		104.4	70.0 - 130.2	7	20

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

Lab Sample ID: LCDSRM 480-588739/23-A
Matrix: Solid
Analysis Batch: 589342

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 588739

Analyte	Spike Added	LCDSRM Result	LCDSRM Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Potassium	2050	1974		mg/Kg		96.3	59.5 - 141.0	5	20
Selenium	172	150.1		mg/Kg		87.3	68.0 - 132.6	4	20
Silver	24.7	19.09		mg/Kg		77.3	67.2 - 133.2	1	20
Sodium	137	155.2		mg/Kg		113.3	35.8 - 164.2	11	20
Thallium	88.0	86.09		mg/Kg		97.8	66.0 - 134.1	4	20
Vanadium	99.9	86.26		mg/Kg		86.3	67.4 - 132.1	4	20
Zinc	312	265.9		mg/Kg		85.2	69.9 - 129.8	5	20

Lab Sample ID: LCSSRM 480-588739/2-A
Matrix: Solid
Analysis Batch: 589342

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 588739

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	8190	8240		mg/Kg		100.6	50.1 - 150.2
Antimony	110	80.37		mg/Kg		73.1	22.2 - 254.5
Arsenic	162	129.6		mg/Kg		80.0	70.4 - 130.2
Barium	138	130.8	^6+	mg/Kg		94.7	74.6 - 124.6
Beryllium	157	136.7		mg/Kg		87.0	75.2 - 125.5
Cadmium	135	117.2		mg/Kg		86.8	74.8 - 124.4
Calcium	4790	3835		mg/Kg		80.1	72.7 - 127.3
Chromium	117	102.3		mg/Kg		87.5	70.1 - 129.9
Cobalt	92.6	88.58		mg/Kg		95.7	75.1 - 125.3
Copper	143	114.8		mg/Kg		80.3	74.8 - 124.5
Iron	15100	11470		mg/Kg		75.9	37.2 - 162.9
Lead	77.6	69.56		mg/Kg		89.6	68.8 - 131.4
Magnesium	2320	2126		mg/Kg		91.6	62.1 - 137.9
Manganese	319	279.5		mg/Kg		87.6	74.9 - 125.1
Nickel	79.9	78.04		mg/Kg		97.7	70.0 - 130.2
Potassium	2050	1876		mg/Kg		91.5	59.5 - 141.0
Selenium	172	144.1		mg/Kg		83.8	68.0 - 132.6

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

Lab Sample ID: LCSSRM 480-588739/2-A
Matrix: Solid
Analysis Batch: 589342

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 588739

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	24.7	19.35		mg/Kg		78.3	67.2 - 133.2
Sodium	137	138.9	J	mg/Kg		101.4	35.8 - 164.2
Thallium	88.0	89.74		mg/Kg		102.0	66.0 - 134.1
Vanadium	99.9	82.73		mg/Kg		82.8	67.4 - 132.1
Zinc	312	252.6		mg/Kg		81.0	69.9 - 129.8

Lab Sample ID: 480-187041-3 MS
Matrix: Solid
Analysis Batch: 589342

Client Sample ID: SS-03
Prep Type: Total/NA
Prep Batch: 588739

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	5140	F1	2390	11490	F1	mg/Kg	☼	265	75 - 125
Antimony	ND	F1	47.8	35.47	F1	mg/Kg	☼	74	75 - 125
Arsenic	14.6		47.8	74.02		mg/Kg	☼	124	75 - 125
Barium	308	^6+ F2	47.8	282.7	^6+ 4	mg/Kg	☼	-52	75 - 125
Beryllium	0.73		47.8	43.73		mg/Kg	☼	90	75 - 125
Cadmium	0.46		47.8	45.48		mg/Kg	☼	94	75 - 125
Calcium	67400		2390	36910	4	mg/Kg	☼	-1275	75 - 125
Chromium	14.0		47.8	66.13		mg/Kg	☼	109	75 - 125
Cobalt	6.6		47.8	59.78		mg/Kg	☼	111	75 - 125
Copper	84.9		47.8	134.7		mg/Kg	☼	104	75 - 125
Iron	21100	F2	2390	56780	4	mg/Kg	☼	1492	75 - 125
Lead	400		47.8	523.2	4	mg/Kg	☼	259	75 - 125
Magnesium	22600	F2	2390	18010	4	mg/Kg	☼	-191	75 - 125
Manganese	160	F1 F2	47.8	401.8	F1	mg/Kg	☼	506	75 - 125
Nickel	21.9	F1	47.8	84.84	F1	mg/Kg	☼	132	75 - 125
Potassium	905	F1	2390	4131	F1	mg/Kg	☼	135	75 - 125
Selenium	2.0	J	47.8	50.59		mg/Kg	☼	102	75 - 125
Silver	ND		12.0	11.11		mg/Kg	☼	93	75 - 125
Sodium	221		2400	2528		mg/Kg	☼	96	75 - 125
Thallium	ND		47.8	41.39		mg/Kg	☼	87	75 - 125
Vanadium	26.1		47.8	68.83		mg/Kg	☼	89	75 - 125
Zinc	187	F1	47.8	390.4	F1	mg/Kg	☼	425	75 - 125

Lab Sample ID: 480-187041-3 MSD
Matrix: Solid
Analysis Batch: 589342

Client Sample ID: SS-03
Prep Type: Total/NA
Prep Batch: 588739

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum	5140	F1	2550	12030	F1	mg/Kg	☼	270	75 - 125	5	20
Antimony	ND	F1	51.0	41.58		mg/Kg	☼	82	75 - 125	16	20
Arsenic	14.6		51.0	66.58		mg/Kg	☼	102	75 - 125	11	20
Barium	308	^6+ F2	51.0	364.0	^6+ 4 F2	mg/Kg	☼	111	75 - 125	25	20
Beryllium	0.73		51.0	49.18		mg/Kg	☼	95	75 - 125	12	20
Cadmium	0.46		51.0	49.05		mg/Kg	☼	95	75 - 125	8	20

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

Lab Sample ID: 480-187041-3 MSD — **Client Sample ID: SS-03**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 589342 — **Prep Batch: 588739**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Calcium	67400		2550	35050	4	mg/Kg	☼	-1268	75 - 125	5	20
Chromium	14.0		51.0	69.84		mg/Kg	☼	110	75 - 125	5	20
Cobalt	6.6		51.0	61.77		mg/Kg	☼	108	75 - 125	3	20
Copper	84.9		51.0	141.2		mg/Kg	☼	110	75 - 125	5	20
Iron	21100	F2	2550	41440	4 F2	mg/Kg	☼	797	75 - 125	31	20
Lead	400		51.0	538.4	4	mg/Kg	☼	272	75 - 125	3	20
Magnesium	22600	F2	2550	7612	4 F2	mg/Kg	☼	-586	75 - 125	81	20
Manganese	160	F1 F2	51.0	262.7	F1 F2	mg/Kg	☼	202	75 - 125	42	20
Nickel	21.9	F1	51.0	81.00		mg/Kg	☼	116	75 - 125	5	20
Potassium	905	F1	2550	4277	F1	mg/Kg	☼	132	75 - 125	3	20
Selenium	2.0	J	51.0	52.81		mg/Kg	☼	100	75 - 125	4	20
Silver	ND		12.8	12.09		mg/Kg	☼	95	75 - 125	8	20
Sodium	221		2560	2768		mg/Kg	☼	100	75 - 125	9	20
Thallium	ND		51.0	45.18		mg/Kg	☼	89	75 - 125	9	20
Vanadium	26.1		51.0	72.79		mg/Kg	☼	92	75 - 125	6	20
Zinc	187	F1	51.0	406.5	F1	mg/Kg	☼	430	75 - 125	4	20

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 480-588969/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 589092 — **Prep Batch: 588969**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.019	0.0043	mg/Kg		07/14/21 14:08	07/14/21 16:27	1

Lab Sample ID: LCDSRM 480-588969/21-A ^10 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 589092 — **Prep Batch: 588969**

Analyte	Spike Added	LCDSRM Result	LCDSRM Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	27.2	24.22		mg/Kg		89.1	59.9 - 140.1	2	20

Lab Sample ID: LCSSRM 480-588969/2-A ^10 — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 589092 — **Prep Batch: 588969**

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	27.2	23.78		mg/Kg		87.4	59.9 - 140.1

Lab Sample ID: 480-187041-3 MS — **Client Sample ID: SS-03**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 589092 — **Prep Batch: 588969**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.35		0.411	0.685		mg/Kg	☼	82	80 - 120

Client: Asbestos & Environmental Consulting Corp
Project/Site: 400 Erie Blvd West

Job ID: 480-187041-1

Method: 7471B - Mercury (CVAA) (Continued)

Lab Sample ID: 480-187041-3 MSD
Matrix: Solid
Analysis Batch: 589092

Client Sample ID: SS-03
Prep Type: Total/NA
Prep Batch: 588969

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.35		0.448	0.708		mg/Kg	☼	80	80 - 120	3	20

GC/MS Semi VOA

Prep Batch: 589139

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-187041-1	SS-01	Total/NA	Solid	3550C	
480-187041-5	SS-05	Total/NA	Solid	3550C	
MB 480-589139/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-589139/2-A	Lab Control Sample	Total/NA	Solid	3550C	

Analysis Batch: 589926

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-187041-1	SS-01	Total/NA	Solid	8270D	589139
480-187041-5	SS-05	Total/NA	Solid	8270D	589139
MB 480-589139/1-A	Method Blank	Total/NA	Solid	8270D	589139
LCS 480-589139/2-A	Lab Control Sample	Total/NA	Solid	8270D	589139

Prep Batch: 590169

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-187041-2	SS-02	Total/NA	Solid	3550C	
480-187041-3	SS-03	Total/NA	Solid	3550C	
480-187041-4	SS-04	Total/NA	Solid	3550C	
480-187041-6	SS-06	Total/NA	Solid	3550C	
480-187041-7	SS-D	Total/NA	Solid	3550C	
MB 480-590169/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-590169/2-A	Lab Control Sample	Total/NA	Solid	3550C	
480-187041-3 MS	SS-03	Total/NA	Solid	3550C	
480-187041-3 MSD	SS-03	Total/NA	Solid	3550C	

Analysis Batch: 590399

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-187041-2	SS-02	Total/NA	Solid	8270D	590169
480-187041-3	SS-03	Total/NA	Solid	8270D	590169
480-187041-4	SS-04	Total/NA	Solid	8270D	590169
480-187041-6	SS-06	Total/NA	Solid	8270D	590169
480-187041-7	SS-D	Total/NA	Solid	8270D	590169
MB 480-590169/1-A	Method Blank	Total/NA	Solid	8270D	590169
LCS 480-590169/2-A	Lab Control Sample	Total/NA	Solid	8270D	590169
480-187041-3 MS	SS-03	Total/NA	Solid	8270D	590169
480-187041-3 MSD	SS-03	Total/NA	Solid	8270D	590169

Metals

Prep Batch: 588739

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-187041-1	SS-01	Total/NA	Solid	3050B	
480-187041-2	SS-02	Total/NA	Solid	3050B	
480-187041-3	SS-03	Total/NA	Solid	3050B	
480-187041-4	SS-04	Total/NA	Solid	3050B	
480-187041-5	SS-05	Total/NA	Solid	3050B	
480-187041-6	SS-06	Total/NA	Solid	3050B	
480-187041-7	SS-D	Total/NA	Solid	3050B	
MB 480-588739/1-A	Method Blank	Total/NA	Solid	3050B	
LCDSRM 480-588739/23-A	Lab Control Sample Dup	Total/NA	Solid	3050B	
LCSSRM 480-588739/2-A	Lab Control Sample	Total/NA	Solid	3050B	
480-187041-3 MS	SS-03	Total/NA	Solid	3050B	

Metals (Continued)

Prep Batch: 588739 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-187041-3 MSD	SS-03	Total/NA	Solid	3050B	

Prep Batch: 588969

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-187041-1	SS-01	Total/NA	Solid	7471B	
480-187041-2	SS-02	Total/NA	Solid	7471B	
480-187041-3	SS-03	Total/NA	Solid	7471B	
480-187041-4	SS-04	Total/NA	Solid	7471B	
480-187041-5	SS-05	Total/NA	Solid	7471B	
480-187041-6	SS-06	Total/NA	Solid	7471B	
480-187041-7	SS-D	Total/NA	Solid	7471B	
MB 480-588969/1-A	Method Blank	Total/NA	Solid	7471B	
LCDSRM 480-588969/21-A ^10	Lab Control Sample Dup	Total/NA	Solid	7471B	
LCSSRM 480-588969/2-A ^10	Lab Control Sample	Total/NA	Solid	7471B	
480-187041-3 MS	SS-03	Total/NA	Solid	7471B	
480-187041-3 MSD	SS-03	Total/NA	Solid	7471B	

Analysis Batch: 589092

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-187041-1	SS-01	Total/NA	Solid	7471B	588969
480-187041-2	SS-02	Total/NA	Solid	7471B	588969
480-187041-3	SS-03	Total/NA	Solid	7471B	588969
480-187041-4	SS-04	Total/NA	Solid	7471B	588969
480-187041-5	SS-05	Total/NA	Solid	7471B	588969
480-187041-6	SS-06	Total/NA	Solid	7471B	588969
480-187041-7	SS-D	Total/NA	Solid	7471B	588969
MB 480-588969/1-A	Method Blank	Total/NA	Solid	7471B	588969
LCDSRM 480-588969/21-A ^10	Lab Control Sample Dup	Total/NA	Solid	7471B	588969
LCSSRM 480-588969/2-A ^10	Lab Control Sample	Total/NA	Solid	7471B	588969
480-187041-3 MS	SS-03	Total/NA	Solid	7471B	588969
480-187041-3 MSD	SS-03	Total/NA	Solid	7471B	588969

Analysis Batch: 589342

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-187041-1	SS-01	Total/NA	Solid	6010C	588739
480-187041-1	SS-01	Total/NA	Solid	6010C	588739
480-187041-2	SS-02	Total/NA	Solid	6010C	588739
480-187041-2	SS-02	Total/NA	Solid	6010C	588739
480-187041-3	SS-03	Total/NA	Solid	6010C	588739
480-187041-4	SS-04	Total/NA	Solid	6010C	588739
480-187041-4	SS-04	Total/NA	Solid	6010C	588739
480-187041-5	SS-05	Total/NA	Solid	6010C	588739
480-187041-5	SS-05	Total/NA	Solid	6010C	588739
480-187041-6	SS-06	Total/NA	Solid	6010C	588739
480-187041-6	SS-06	Total/NA	Solid	6010C	588739
480-187041-7	SS-D	Total/NA	Solid	6010C	588739
MB 480-588739/1-A	Method Blank	Total/NA	Solid	6010C	588739
LCDSRM 480-588739/23-A	Lab Control Sample Dup	Total/NA	Solid	6010C	588739
LCSSRM 480-588739/2-A	Lab Control Sample	Total/NA	Solid	6010C	588739
480-187041-3 MS	SS-03	Total/NA	Solid	6010C	588739
480-187041-3 MSD	SS-03	Total/NA	Solid	6010C	588739

QC Association Summary

Client: Asbestos & Environmental Consulting Corp
Job ID: 480-187041-1
Project/Site: 400 Erie Blvd West

General Chemistry

Analysis Batch: 588779

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-187041-1	SS-01	Total/NA	Solid	Moisture	
480-187041-2	SS-02	Total/NA	Solid	Moisture	
480-187041-3	SS-03	Total/NA	Solid	Moisture	
480-187041-4	SS-04	Total/NA	Solid	Moisture	
480-187041-5	SS-05	Total/NA	Solid	Moisture	
480-187041-6	SS-06	Total/NA	Solid	Moisture	
480-187041-7	SS-D	Total/NA	Solid	Moisture	
480-187041-3 MS	SS-03	Total/NA	Solid	Moisture	
480-187041-3 MSD	SS-03	Total/NA	Solid	Moisture	

Client Sample ID: SS-01 — **Lab Sample ID: 480-187041-1**
Date Collected: 07/09/21 09:15 — **Matrix: Solid**
Date Received: 07/10/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	588779	07/12/21 16:10	JMM	TAL BUF

Client Sample ID: SS-01 — **Lab Sample ID: 480-187041-1**
Date Collected: 07/09/21 09:15 — **Matrix: Solid**
Date Received: 07/10/21 08:00 — **Percent Solids: 94.1**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			589139	07/15/21 08:23	VXF	TAL BUF
Total/NA	Analysis	8270D		5	589926	07/21/21 19:24	PJQ	TAL BUF
Total/NA	Prep	3050B			588739	07/13/21 12:48	ADM	TAL BUF
Total/NA	Analysis	6010C		1	589342	07/15/21 20:04	AMH	TAL BUF
Total/NA	Prep	3050B			588739	07/13/21 12:48	ADM	TAL BUF
Total/NA	Analysis	6010C		2	589342	07/15/21 22:07	AMH	TAL BUF
Total/NA	Prep	7471B			588969	07/14/21 14:08	BMB	TAL BUF
Total/NA	Analysis	7471B		1	589092	07/14/21 16:29	BMB	TAL BUF

Client Sample ID: SS-02 — **Lab Sample ID: 480-187041-2**
Date Collected: 07/09/21 09:30 — **Matrix: Solid**
Date Received: 07/10/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	588779	07/12/21 16:10	JMM	TAL BUF

Client Sample ID: SS-02 — **Lab Sample ID: 480-187041-2**
Date Collected: 07/09/21 09:30 — **Matrix: Solid**
Date Received: 07/10/21 08:00 — **Percent Solids: 88.3**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			590169	07/23/21 08:06	VXF	TAL BUF
Total/NA	Analysis	8270D		1	590399	07/26/21 21:29	JMM	TAL BUF
Total/NA	Prep	3050B			588739	07/13/21 12:48	ADM	TAL BUF
Total/NA	Analysis	6010C		1	589342	07/15/21 20:19	AMH	TAL BUF
Total/NA	Prep	3050B			588739	07/13/21 12:48	ADM	TAL BUF
Total/NA	Analysis	6010C		2	589342	07/15/21 22:11	AMH	TAL BUF
Total/NA	Prep	7471B			588969	07/14/21 14:08	BMB	TAL BUF
Total/NA	Analysis	7471B		1	589092	07/14/21 16:31	BMB	TAL BUF

Client Sample ID: SS-03 — **Lab Sample ID: 480-187041-3**
Date Collected: 07/09/21 09:37 — **Matrix: Solid**
Date Received: 07/10/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	588779	07/12/21 16:10	JMM	TAL BUF

Client Sample ID: SS-03
Lab Sample ID: 480-187041-3

Date Collected: 07/09/21 09:37
Matrix: Solid
Date Received: 07/10/21 08:00
Percent Solids: 80.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			590169	07/23/21 08:06	VXF	TAL BUF
Total/NA	Analysis	8270D		10	590399	07/26/21 13:49	JMM	TAL BUF
Total/NA	Prep	3050B			588739	07/13/21 12:48	ADM	TAL BUF
Total/NA	Analysis	6010C		1	589342	07/15/21 20:23	AMH	TAL BUF
Total/NA	Prep	7471B			588969	07/14/21 14:08	BMB	TAL BUF
Total/NA	Analysis	7471B		1	589092	07/14/21 16:32	BMB	TAL BUF

Client Sample ID: SS-04
Lab Sample ID: 480-187041-4

Date Collected: 07/09/21 09:55
Matrix: Solid
Date Received: 07/10/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	588779	07/12/21 16:10	JMM	TAL BUF

Client Sample ID: SS-04
Lab Sample ID: 480-187041-4

Date Collected: 07/09/21 09:55
Matrix: Solid
Date Received: 07/10/21 08:00
Percent Solids: 85.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			590169	07/23/21 08:06	VXF	TAL BUF
Total/NA	Analysis	8270D		5	590399	07/26/21 14:37	JMM	TAL BUF
Total/NA	Prep	3050B			588739	07/13/21 12:48	ADM	TAL BUF
Total/NA	Analysis	6010C		1	589342	07/15/21 20:41	AMH	TAL BUF
Total/NA	Prep	3050B			588739	07/13/21 12:48	ADM	TAL BUF
Total/NA	Analysis	6010C		2	589342	07/15/21 22:15	AMH	TAL BUF
Total/NA	Prep	7471B			588969	07/14/21 14:08	BMB	TAL BUF
Total/NA	Analysis	7471B		1	589092	07/14/21 16:40	BMB	TAL BUF

Client Sample ID: SS-05
Lab Sample ID: 480-187041-5

Date Collected: 07/09/21 10:10
Matrix: Solid
Date Received: 07/10/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	588779	07/12/21 16:10	JMM	TAL BUF

Client Sample ID: SS-05
Lab Sample ID: 480-187041-5

Date Collected: 07/09/21 10:10
Matrix: Solid
Date Received: 07/10/21 08:00
Percent Solids: 93.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			589139	07/15/21 08:23	VXF	TAL BUF
Total/NA	Analysis	8270D		5	589926	07/21/21 20:36	PJQ	TAL BUF
Total/NA	Prep	3050B			588739	07/13/21 12:48	ADM	TAL BUF
Total/NA	Analysis	6010C		1	589342	07/15/21 20:45	AMH	TAL BUF
Total/NA	Prep	3050B			588739	07/13/21 12:48	ADM	TAL BUF
Total/NA	Analysis	6010C		2	589342	07/15/21 22:19	AMH	TAL BUF

Client Sample ID: SS-05
Lab Sample ID: 480-187041-5

Date Collected: 07/09/21 10:10
Matrix: Solid
Date Received: 07/10/21 08:00
Percent Solids: 93.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471B			588969	07/14/21 14:08	BMB	TAL BUF
Total/NA	Analysis	7471B		1	589092	07/14/21 16:41	BMB	TAL BUF

Client Sample ID: SS-06
Lab Sample ID: 480-187041-6

Date Collected: 07/09/21 10:25
Matrix: Solid
Date Received: 07/10/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	588779	07/12/21 16:10	JMM	TAL BUF

Client Sample ID: SS-06
Lab Sample ID: 480-187041-6

Date Collected: 07/09/21 10:25
Matrix: Solid
Date Received: 07/10/21 08:00
Percent Solids: 92.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			590169	07/23/21 08:06	VXF	TAL BUF
Total/NA	Analysis	8270D		10	590399	07/26/21 15:01	JMM	TAL BUF
Total/NA	Prep	3050B			588739	07/13/21 12:48	ADM	TAL BUF
Total/NA	Analysis	6010C		1	589342	07/15/21 20:49	AMH	TAL BUF
Total/NA	Prep	3050B			588739	07/13/21 12:48	ADM	TAL BUF
Total/NA	Analysis	6010C		2	589342	07/15/21 22:34	AMH	TAL BUF
Total/NA	Prep	7471B			588969	07/14/21 14:08	BMB	TAL BUF
Total/NA	Analysis	7471B		1	589092	07/14/21 16:42	BMB	TAL BUF

Client Sample ID: SS-D
Lab Sample ID: 480-187041-7

Date Collected: 07/09/21 00:00
Matrix: Solid
Date Received: 07/10/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	588779	07/12/21 16:10	JMM	TAL BUF

Client Sample ID: SS-D
Lab Sample ID: 480-187041-7

Date Collected: 07/09/21 00:00
Matrix: Solid
Date Received: 07/10/21 08:00
Percent Solids: 66.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			590169	07/23/21 08:06	VXF	TAL BUF
Total/NA	Analysis	8270D		5	590399	07/26/21 15:25	JMM	TAL BUF
Total/NA	Prep	3050B			588739	07/13/21 12:48	ADM	TAL BUF
Total/NA	Analysis	6010C		1	589342	07/15/21 21:04	AMH	TAL BUF
Total/NA	Prep	7471B			588969	07/14/21 14:08	BMB	TAL BUF
Total/NA	Analysis	7471B		1	589092	07/14/21 16:44	BMB	TAL BUF

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: Asbestos & Environmental Consulting Corp
Job ID: 480-187041-1
Project/Site: 400 Erie Blvd West

Laboratory: Eurofins TestAmerica, Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	04-01-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Method Summary

Client: Asbestos & Environmental Consulting Corp
Project/Site: 400 Erie Blvd West

Job ID: 480-187041-1

Method	Method Description	Protocol	Laboratory
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL BUF
6010C	Metals (ICP)	SW846	TAL BUF
7471B	Mercury (CVAA)	SW846	TAL BUF
Moisture	Percent Moisture	EPA	TAL BUF
3050B	Preparation, Metals	SW846	TAL BUF
3550C	Ultrasonic Extraction	SW846	TAL BUF
7471B	Preparation, Mercury	SW846	TAL BUF

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: Asbestos & Environmental Consulting Corp
Job ID: 480-187041-1
Project/Site: 400 Erie Blvd West

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-187041-1	SS-01	Solid	07/09/21 09:15	07/10/21 08:00
480-187041-2	SS-02	Solid	07/09/21 09:30	07/10/21 08:00
480-187041-3	SS-03	Solid	07/09/21 09:37	07/10/21 08:00
480-187041-3 MS	SS-03	Solid	07/09/21 09:37	07/10/21 08:00
480-187041-3 MSD	SS-03	Solid	07/09/21 09:37	07/10/21 08:00
480-187041-4	SS-04	Solid	07/09/21 09:55	07/10/21 08:00
480-187041-5	SS-05	Solid	07/09/21 10:10	07/10/21 08:00
480-187041-6	SS-06	Solid	07/09/21 10:25	07/10/21 08:00
480-187041-7	SS-D	Solid	07/09/21 00:00	07/10/21 08:00

10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins Environment Testing America

Syracuse #225

Client Information	Sampler: GF/AH	Lab PM: Fischer, Brian J	Carrier Tracking No(s):	COC No: 480-162798-35761.1
Client Contact: Mr. George Fischer	Phone: 315 569 0474	E-Mail: Brian.Fischer@Eurofinset.com	State of Origin:	Page: Page 1 of 1
Company: Asbestos & Environmental Consulting Corp	PWSID:			Job #:
Address: 6308 Fly Road	Due Date Requested: 7/16/2021			
City: East Syracuse	TAT Requested (days): ~~10 day~~ 5 day			
State, Zip: NY, 13057	Compliance Project: Δ Yes Δ No			
Phone: 315-432-9400(Tel)	PO #: Advance Payment Required			
Email: gfischer@aeccgroup.com	WO #:			
Project Name: 400 Erie Blvd West	Project #: 48024028			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid; M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

480-187041 Chain of Custody

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010C, 7471B	8270D - (MOD) TCL SVOA - OLM04.2	Total Number of containers	Special Instructions/Note:
				Preservation Code:			N	N		
SS-01	7/9/21	9:15	G	Solid			1	1		
SS-02	7/9/21	9:30	G	Solid			1	1		
SS-03	7/9/21	9:37	G	Solid			1	1		
SS-04	7/9/21	9:55	G	Solid			1	1		
SS-05	7/9/21	10:10	G	Solid			1	1		
SS-06	7/9/21	10:25	G	Solid			1	1		
SS-MS	7/9/21	9:41	G	Solid			1	1		
SS-MSD	7/9/21	9:43	G	Solid			1	1		
SS-D	7/9/21	9:39	G	Solid			1	1		
—	RE									
—	RE									

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For ________ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by: [signature]	Date/Time: 7/9/2021 14:50	Company: AECC	Received by: R England	Date/Time: 7-9-21 1450	Company: Eyr
Relinquished by: R England	Date/Time: 7-9-21, 1900	Company: Eyr	Received by:	Date/Time:	Company:
Relinquished by:	Date/Time:	Company:	Received by: [signature]	Date/Time: 7/10/21 0800	Company: TAB

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 3.4 #1

Ver: 11/01/20...

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7/27/2021

Login Sample Receipt Checklist

Client: Asbestos & Environmental Consulting Corp

Job Number: 480-187041-1

Login Number: 187041

List Source: Eurofins TestAmerica, Buffalo

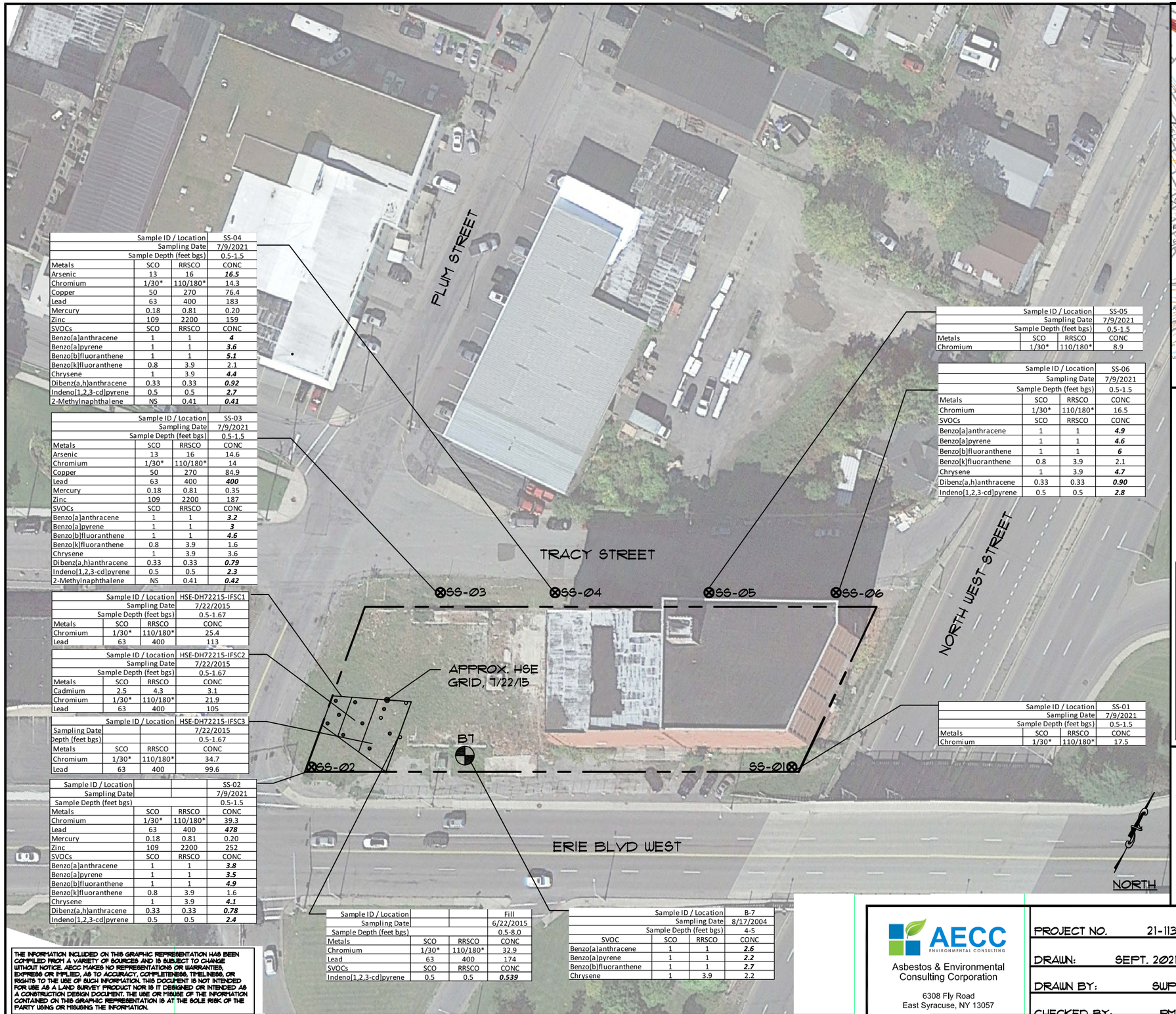
List Number: 1

Creator: Stopa, Erik S

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	aecc
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

Figures

Figure 1: Summary of Analytical Exceedances



	Sample ID / Location		SS-04
	Sampling Date		7/9/2021
	Sample Depth (feet bgs)		0.5-1.5
Metals	SCO	RRSCO	CONC
Arsenic	13	16	***16.5***
Chromium	1/30*	110/180*	14.3
Copper	50	270	76.4
Lead	63	400	183
Mercury	0.18	0.81	0.20
Zinc	109	2200	159
SVOCs	SCO	RRSCO	CONC
Benzo[a]anthracene	1	1	***4***
Benzo[a]pyrene	1	1	***3.6***
Benzo[b]fluoranthene	1	1	***5.1***
Benzo[k]fluoranthene	0.8	3.9	2.1
Chrysene	1	3.9	***4.4***
Dibenz(a,h)anthracene	0.33	0.33	***0.92***
Indeno[1,2,3-cd]pyrene	0.5	0.5	***2.7***
2-Methylnaphthalene	NS	0.41	***0.41***

	Sample ID / Location		SS-03
	Sampling Date		7/9/2021
	Sample Depth (feet bgs)		0.5-1.5
Metals	SCO	RRSCO	CONC
Arsenic	13	16	14.6
Chromium	1/30*	110/180*	14
Copper	50	270	84.9
Lead	63	400	***400***
Mercury	0.18	0.81	0.35
Zinc	109	2200	187
SVOCs	SCO	RRSCO	CONC
Benzo[a]anthracene	1	1	***3.2***
Benzo[a]pyrene	1	1	***3***
Benzo[b]fluoranthene	1	1	***4.6***
Benzo[k]fluoranthene	0.8	3.9	1.6
Chrysene	1	3.9	3.6
Dibenz(a,h)anthracene	0.33	0.33	***0.79***
Indeno[1,2,3-cd]pyrene	0.5	0.5	***2.3***
2-Methylnaphthalene	NS	0.41	***0.42***

	Sample ID / Location		HSE-DH72215-IFSC1
	Sampling Date		7/22/2015
	Sample Depth (feet bgs)		0.5-1.67
Metals	SCO	RRSCO	CONC
Chromium	1/30*	110/180*	25.4
Lead	63	400	113

	Sample ID / Location		HSE-DH72215-IFSC2
	Sampling Date		7/22/2015
	Sample Depth (feet bgs)		0.5-1.67
Metals	SCO	RRSCO	CONC
Cadmium	2.5	4.3	3.1
Chromium	1/30*	110/180*	21.9
Lead	63	400	105

	Sample ID / Location		HSE-DH72215-IFSC3
Sampling Date			7/22/2015
Depth (feet bgs)			0.5-1.67
Metals	SCO	RRSCO	CONC
Chromium	1/30*	110/180*	34.7
Lead	63	400	99.6

Sample ID / Location			SS-02
Sampling Date			7/9/2021
Sample Depth (feet bgs)			0.5-1.5
Metals	SCO	RRSCO	CONC
Chromium	1/30*	110/180*	39.3
Lead	63	400	***478***
Mercury	0.18	0.81	0.20
Zinc	109	2200	252
SVOCs	SCO	RRSCO	CONC
Benzo[a]anthracene	1	1	***3.8***
Benzo[a]pyrene	1	1	***3.5***
Benzo[b]fluoranthene	1	1	***4.9***
Benzo[k]fluoranthene	0.8	3.9	1.6
Chrysene	1	3.9	***4.1***
Dibenz(a,h)anthracene	0.33	0.33	***0.78***
Indeno[1,2,3-cd]pyrene	0.5	0.5	***2.4***

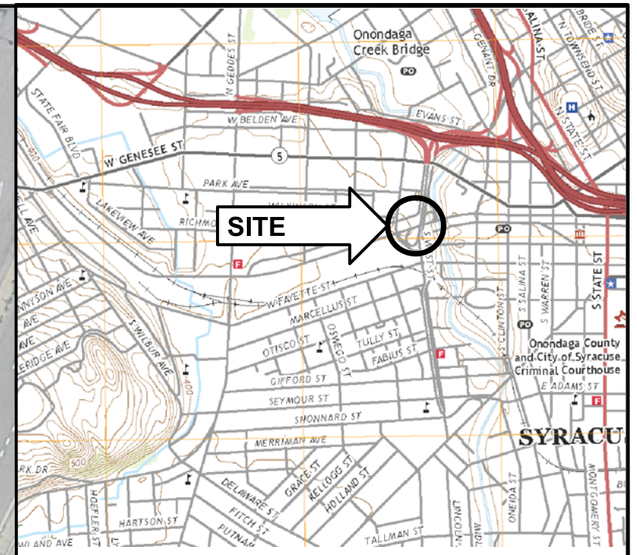
	Sample ID / Location		SS-05
	Sampling Date		7/9/2021
	Sample Depth (feet bgs)		0.5-1.5
Metals	SCO	RRSCO	CONC
Chromium	1/30*	110/180*	8.9

	Sample ID / Location		SS-06
	Sampling Date		7/9/2021
	Sample Depth (feet bgs)		0.5-1.5
Metals	SCO	RRSCO	CONC
Chromium	1/30*	110/180*	16.5
SVOCs	SCO	RRSCO	CONC
Benzo[a]anthracene	1	1	***4.9***
Benzo[a]pyrene	1	1	***4.6***
Benzo[b]fluoranthene	1	1	***6***
Benzo[k]fluoranthene	0.8	3.9	2.1
Chrysene	1	3.9	***4.7***
Dibenz(a,h)anthracene	0.33	0.33	***0.90***
Indeno[1,2,3-cd]pyrene	0.5	0.5	***2.8***

	Sample ID / Location		SS-01
	Sampling Date		7/9/2021
	Sample Depth (feet bgs)		0.5-1.5
Metals	SCO	RRSCO	CONC
Chromium	1/30*	110/180*	17.5

Sample ID / Location			Fill
Sampling Date			6/22/2015
Sample Depth (feet bgs)			0.5-8.0
Metals	SCO	RRSCO	CONC
Chromium	1/30*	110/180*	32.9
Lead	63	400	174
SVOCs	SCO	RRSCO	CONC
Indeno[1,2,3-cd]pyrene	0.5	0.5	***0.539***

	Sample ID / Location		B-7
	Sampling Date		8/17/2004
	Sample Depth (feet bgs)		4-5
SVOC	SCO	RRSCO	CONC
Benzo(a)anthracene	1	1	***2.6***
Benzo(a)pyrene	1	1	***2.2***
Benzo(b)fluoranthene	1	1	***2.7***
Chrysene	1	3.9	2.2



SITE LOCATION

ALL SOIL VALUES ARE REPORTED IN mg/kg (APPROXIMATE PARTS PER MILLION - ppm)

BOLD & ITALICIZED - CONCENTRATION EXEEDS APPLICABLE C-RSCO VALUE

* TOTAL CR, MAY EXCEED CRIII OR CRIV SCO

SCO UNRESTRICTED SOIL CLEAN UP OBJECTIVE

RRSCO RESTRICTED RESIDENTIAL SOIL CLEAN UP OBJECTIVE

LEGEND:

- PROPERTY/BCP AREA BOUNDARY
- ⊗ 2021 SURFACE SOIL SAMPLE LOCATION
- ● 2015-HSE FILL SAMPLE LOCATION (GRAB SAMPLES COMPRISING COMPOSITE SAMPLES)
- ○ 2015 AECC FILL SAMPLE LOCATION (GRAB SAMPLES COMPRISING COMPOSITE SAMPLE)
- ⊕ 2004 SHALLOW SOIL SAMPLE

NOTES:

1. AERIAL PHOTOGRAPH FROM GOOGLE EARTH WEBSITE (PHOTO TAKEN APRIL, 2019).
2. APPROXIMATE PROPERTY LINE BASED ON ONONDAGA COUNTY GIS MAPS.
3. ALL LOCATIONS ARE APPROXIMATE.

0 60' 120'

GRAPHIC SCALE

AECC ENVIRONMENTAL CONSULTING

Asbestos & Environmental Consulting Corporation

6308 Fly Road
East Syracuse, NY 13057

PROJECT NO. 21-113

DRAWN: SEPT. 2021

DRAWN BY: SWP

CHECKED BY: RM

Summary of Analytical Exceedonces

Big Red Development Property
400 Erie Boulevard West
Syracuse, New York

FIGURE

1