Appendix D User Provided Information

ETENVIRONMENTAL
CORPORATION

KINGSBRIDGE ARMORY ROOF REHABILITATION PROJECT
ATTACHMENT A
ENVIRONMENTAL SURVEY REPORT PREPARED BY ATC



Kingsbridge Armory Roof
29 West Kingsbridge Road
Bronx, New York

Environmental Survey of:	KINGSBRIDGE ARMORY 29 WEST KINGSBRIDGE ROAD BRONX, NY 10468
Prepared for:	ET ENVIRONMENTAL CORPORATION 3424 Peachtree Road, NE Suite 200 Atlanta, GA 30326
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ATC Project #:	75018-0001
Report Date:	August 24, 2000

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EXECUTIVE SUMMARY

ATC Associates Inc. was contracted by ET Environmental Corp. to conduct a survey of the Kingsbridge Armory 29 West Kingsbridge Road, Bronx, NY. The intent was to identify asbestos containing materials, lead containing and/or lead based paints and coatings, mercury containing switches or lamps, suspect PCB (polychlorinated biphenyls) or DEHP (Di (2-ethylhexyl) phathatlate) containing light ballasts, storage tanks and stored or abandoned materials at the facility.

The survey identified an estimated fourteen thousand two hundred sixty (14,260) feet of thermal system insulation (piping, cementitious joints), thirty-three thousand six hundred sixty (33,660) square feet of flooring materials (floor tiles, linoleum) and two-hundred thirty-five thousand (235,000) square feet of roofing materials (2-tab shingles, built-up roofing, mastics). Additionally, glazing associated with the windows (interior and exterior) and caulking material associated with windows and exterior joints, seams and cracks was identified as asbestos containing materials. Plaster surfaces primarily walls and ceilings were tested throughout the armory and were determined to **not** be an asbestos containing material.

The survey confirmed lead at detectable levels and above for each substrate as follows; 59% of brick, 45% concrete, 73% metal, 89% plaster and 56% wood. Substrates were distinguished by and identified by the exposed coating color. However, variance of lead results within a single testing combination particularly gray painted concrete substrate indicate that the lead containing layer(s) occur below the exposed common layer. Therefore, the generally poor condition of painted surfaces combined with the inability to distinguish painted components by the exposed color all paint should be considered lead containing for purposes of OSHA compliance, waste stream management and environmental dust control.

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No mercury containing switches were observed. Ballasts inspected at various locations of the Armory were found to be not labeled as to content or in poor condition, therefore all ballasts were considered PCB or DEHP containing. An estimated six hundred fifty (650) light fixtures, one thousand two hundred fifty (1,250) bulbs/tubes, seven hundred (700) ballasts and one hundred nine (109)metal halide lights were observed. All PCB/DEHP-contaminated materials should be incinerated, mercury containing lighting lamps, such as: Fluorescent, Mercury Vapor, and High Intensity Discharge lamps (including Metal Halide lamps, High Pressure Sodium lamps, and Low Pressure Sodium lamps) should be disposed through a complete recycling process.

The visual inspection of the Armory grounds indicated that at least four underground storage tanks existed at one time as determined by identified vent pipes and fill ports. Regulatory database review identified five underground storage tanks and two aboveground storage tanks associated with the Armory. An electro-magnetic survey of suspect areas indicated that two buried tanks might exist in the garage parking area. Presumably, these could be the closed tanks identified as tank 1 –diesel and tank 2- unleaded gasoline. Additionally, the survey identified seven additional aboveground 275-gallon storage tanks in the basement not identified in the regulatory database. Tanks 1 and 2 appear to have been closed and abandoned in place, which can be verified by test pits. Additional investigation is required to ascertain the disposition of tanks 3 through 7. The seven aboveground storage tanks identified by the survey need to be examined/tested for product type, content and eventual disposition.

Throughout the Armory, various paints, solvents and maintenance products were observed that would require consolidation and disposal. Abandoned refrigeration/air conditioner units may contain CFC compounds and require reclamation prior to disposal. Several animal/bird carcasses and small quantities of avian excreta were observed in localized areas, disturbance of these items would require personal protective equipment.

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INTRODUCTION

ATC Associates Inc. was contracted by ET Environmental Corp. to conduct a survey of the Kingsbridge Armory 29 West Kingsbridge Road, Bronx, NY. The intent was to identify asbestos containing materials, lead containing and/or lead based paints and coatings, mercury containing switches or lamps, suspect PCB (polychlorinated biphenyls) or DEHP (Di (2-ethylhexyl) phathatlate) containing light ballasts, storage tanks and stored or abandoned materials at the Kingsbridge Armory.

Messrs James Ruchalski and Jay Dupay of ATC performed the asbestos survey. Mr. Dupay holds certifications from the New York City Department of Environmental Protection as an Asbestos Investigator and the New York State Department of Labor as an Asbestos Inspector and will be the inspector of record for all filings. Mr. Ruchalski holds certification from the New York State Department of Labor as an Asbestos Inspector. Mr. Richard Edwards and Maraina Medinets performed the XRF survey. The survey was performed from July 24 through August 22, 2000.

STANDARDS OF CARE

ATC Associates Inc.'s work was performed in a professional manner with the best interest of our client in mind. Our objective was to perform our work with care, exercising the customary skills and competence of consulting professionals in the relevant disciplines. The conclusions presented in this report are professional opinions based upon visual observations of the site and laboratory results from samples collected and analyzed.

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The opinions and recommendations presented herein apply to site conditions existing at the time of our observations. ATC Associates Inc. cannot act as insurers, and no expressed or implied representation or warrant is included or intended in our report except that our work was performed, within the limits prescribed by our clients, with the customary thoroughness and competence of our profession at the time and place the services were rendered. This report is designed to generally identify the accessible recognized environmental materials identified in the introduction at the facility

ASBESTOS – SURVEY

Guidelines used for the survey were established by the Environmental Protection Agency (EPA) in the Guidance for Controlling Asbestos Containing Materials in Buildings, Office of Pesticides and Toxic Substances, Doc 560/5-85-024, and 40 CFR Part 763, Asbestos Hazard Emergency Response Act (AHERA).

Field information was organized in accordance with the AHERA methodology of homogenous area (HA). During the survey, reasonable effort was made to identify all locations and types of ACM materials associated with the scope of work. Multiple samples of homogeneous materials were chosen at random. However, due to inconsistencies of a manufacturer's processes and the contractor's installation methods, materials of similar construction may contain various amounts of asbestos. Further, some materials that were not originally specified to contain asbestos may in fact contain this mineral. For example, cementitious pipe insulation and plaster were frequently mixed with asbestos at the construction site for ease of application. Locating all asbestos materials can only be definitively achieved by conducting exploratory demolition and sampling every section of pipe insulation, fitting or valve covering, fireproofing, and other suspect ACM.

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Bulk samples of suspect ACM were analyzed using polarized light microscopy (PLM) coupled with dispersion staining, as described in 40 CFR Part 763 and the National Emissions Standard for Hazardous Air Pollutants (NESHAP). NESHAP is the standard industry protocol for the determination of asbestos in building materials. A suspect material is immersed in a solution of known refractive index and subjected to illumination by polarized light. The color displays that result is compared to a standardized atlas whereby the specific variety of asbestos is determined. It should also be recognized that PLM is primarily a qualitative identification method whereby asbestos percentage, if any, is estimated. While EPA, New York State; and New York City regulations governing ACM consider materials containing greater than 1-percent as asbestos, accurately quantifying asbestos content below 5-percent has been shown to be unreliable. Without additional and more sophisticated analysis, using transmission electron microscopy (TEM), a 1-percent content or less of asbestos in a building material sample may still result in an exposure or possible respiratory hazard should the material be indiscriminately demolished. Therefore, for identification and appropriate asbestos management, ATC recommends that any detected asbestos in a suspect material using PLM be considered asbestos. For those materials revealing no asbestos using PLM, TEM analysis should be conducted for confirmation.

The New York State Department of Health has revised the PLM Stratified Point Counting Method. The new method, "Polarized Light Microscopy Methods for Identifying and Quantifying Asbestos in Bulk Samples" can be found as item 198.1 in the Environmental Laboratory Approval program (ELAP) Certification manual. The method specifies a procedure of analysis for bulk samples that fall into the category of "Non-friable Organically Bound" (NOB). This category includes any sample in a flexible to rigid asphalt or vinyl matrix (floor tiles, mastic, roofing shingles, roofing felt, etc.). Additional materials that may fall into this category are textured paints and stucco, pipe valve and joint packing, and a variety of other applications. These samples must be "ashed" in a muffle furnace at 480-degrees Celsius (to remove organic matrix), treated with acid (to remove any mineral carbonate), and filtered through a 0.4-micron filter before being analyzed by PLM. The sample must be weighted between each of these steps to track the percent loss of organic matrix.

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ELAP has determined that analysis of NOB materials is not reliably performed by PLM. Therefore, if PLM yields results of 1-percent asbestos or less, the result must be confirmed by TEM. Bulk samples that undergo TEM analysis use the sample reduction methodology stated above for NOB analysis by PLM. ELAP certified laboratories must include the following statement with their PLM analysis results for each "inclusive" (1-percent or less asbestos) NOB sample: "Polarized-light microscopy is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-ACM, confirmation must be made by quantitative transmission electron microscopy".

Selected samples initially analyzed by Polarized Light Microscopy which yielded a negative PLM result and which are classified as a "non-friable" material, were then re-analyzed utilizing Transmission Electron Microscopy methodology described above. The laboratory performing both these analysis procedures was ATC Associates Inc., located at 104 East 25th Street, New York, New York. The following laboratory accreditation's are included in Appendix C:

- National Voluntary Laboratory Accreditation Program (Lab Code 1187-00)
- New York State Environmental Laboratory Approval Program (Lab No. 10879)
- American Industrial Hygiene Association Accredited Laboratory (Lab No. 7054)

ASBESTOS – SURVEY FINDINGS

Two hundred twenty-five bulk samples were collected from representative homogeneous areas throughout the facility. Tabular summary of bulk samples is located in Appendix A with field data/chain of custody forms in Appendix B. Asbestos sample locations and schematic material drawings are located in Appendix H. Based upon visual inspection of representative materials likely to be impacted by the planned interior demolition and/or renovation and bulk sample laboratory analytical results, the following materials have been identified as **asbestos containing materials [ACM]** (greater than one percent asbestos).

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- 2-tab roof shingle
- Built-up roofing
- Tar paper underlayment
- Roofing mastics/adhesives
- Pitch pockets
- 9" x 9" floor tiles (all colors)
- Sheet linoleum
- Corrugated (aircell) pipe insulation
- Cementitious pipe joint insulation associated with corrugated (aircell) pipe insulation
- magnesia (pre-formed block) pipe insulation
- Cementitious pipe joint insulation associated with magnesia (pre-formed block) pipe insulation
- Cementitious pipe joint insulation associated with fiberglass pipe insulation (National Guard Office only)
- window glazing (interior and exterior)
- Caulking material associated with windows and exterior joints, seams and cracks

Thermal system insulation was identified primarily in exposed readily accessible locations throughout the facility as described below. However, concealed thermal system insulation was observed in interstitial wall spaces associated with bathroom fixtures and the plenum area above suspended plaster ceilings.

Sub-basement	No ACM observed
Basement	TSI located on perimeter steam, hot and cold water lines. Piping in hallways has been abated and replaced with non-ACM insulation.
Basement Mezzanine	TSI located on perimeter steam, hot and cold water lines. TSI located on steam lines parallel to hallway in ammunition storage rooms. Asbestos containing flooring in office areas on southern wall.

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Drill Floor	Perimeter steam and hot and cold water lines. Asbestos containing flooring in office areas along southern wall. Asbestos containing window caulking and glazing on all windows.
Drill Floor Mezzanine	TSI located on steam, hot and cold water lines associated with bathrooms. Asbestos containing flooring in office areas on southern wall.
Second Floor	Perimeter steam and hot and cold water lines. Asbestos containing flooring in office areas along southern wall. Asbestos containing window caulking and glazing on all windows.
Third Floor	Perimeter steam and hot and cold water lines. Asbestos containing flooring in office areas along southern wall. Asbestos containing window caulking and glazing on all windows.
Roofs	Built-up and two tab shingle roofing including underlayment, mastics, flashings and adhesives. Mastics, flashing material, adhesives and caulking on gable ends, clerestory bands and parapets.

The survey identified the following estimated quantities of asbestos containing thermal system insulation (piping, cementitious joints), flooring materials (floor tiles, linoleum) and roofing materials (3-tab shingles, built-up roofing, mastics) within the survey boundaries.

Level	Thermal System Insulation (Linear Feet)	Flooring Material (Square Feet)	Roofing (Square Feet)
Basement	7,410	300	-
Basement Mezzanine	2,275	1,000	-
Drill Floor	3,540	6,460	-
Second Floor	675	17,500	-
Third Floor	210	8,400	-
Fourth Floor	150	-	-
Roofs	-	-	235,000
Totals	**14,260**	**33,660**	**235,000**

A detailed table of asbestos containing materials by area is located in Appendix D.

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Based upon visual inspection of materials determined to be impacted by the renovation program and bulk sample laboratory analytical results, the following materials are identified as **not asbestos containing materials** (less than one- percent asbestos).

- Boiler insulation'
- Breeching insulation
- Gray floor coating – drill floor
- Cementitious pipe joint insulation associated with fiberglass pipe insulation (Main armory building)
- 12" x 12" ceiling tile
- 2' x 2' ceiling tile
- 2' x 4' ceiling tile
- Joint compound
- Wall plaster – brown coat
- Wall plaster – white coat
- Ceiling plaster – brown coat
- Ceiling plaster – white coat
- Brown paper under 3-tab shingle
- Wallboard

LEAD – SURVEY (PAINTED SURFACES)

The objective of this survey was to identify existing lead-based paint on potentially impacted building surfaces during pending renovation/demolition activities. All painted components were not sampled with the XRF; rather, the survey sampled representative painted building substrates and components and based on the results assumptions as to lead content are made in this report. If questions arise as to the lead content in paint found on a specific surface not tested by ATC, additional testing may be required.

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A portable Lead Paint Analyzer manufactured by Radiation Monitoring Devices (RMD) was used to test all accessible painted components. The instrument was operated in accordance with manufacturer's instructions and XRF performance characteristic sheet (PCS). Representative readings were taken from each surface. Three calibration readings were taken before and after testing in the facility to ensure proper instrument operation. XRF results were divided into three categories: positive, inconclusive, and negative as defined by the PCS. According to the revised PCS for the RMD device, inconclusive ranges exist only for metal substrates. If the result was inconclusive, a paint chip sample was collected for laboratory analysis to determine the actual result.

LEAD –SURVEY FINDINGS (PAINTED SURFACES)

One thousand one hundred ninety building surfaces were tested with a portable X-Ray Fluorescence analyzer for lead content. Substrates tested within the Armory were; brick, concrete, metal, plaster, sheetrock, and wood. Substrates were distinguished by and identified by the exposed coating color. Bulk samples collected form the steel arch's on the drill floor confirmed lead content on the arched of between 8.92 and 56.67 %. A tabular summary of XRF survey data and bulk samples is located in Appendix E

Substrate	Shots	Shots >.4	Shots > 1	Percent of components with XRF detectable levels of lead	Percent of components with a Lead based coating
Brick	119	70	67	59%	56%
Concrete	178	80	62	45%	35%
Metal	403	295	238	73%	59%
Plaster	207	184	180	89%	87%
Sheetrock	34	0	0	0%	0%
Wood	249	140	106	56%	43%
Sub-Total	1190	769	653	65%	55%
Calibration	35				
Total	1225				

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LEAD – SURVEY (TARGET RANGES)

Waste classification of the soils/sand identified within the basement rifle and pistol ranges was performed to determine proper handling and storage requirements as well as the disposal location (i.e., either RCRA Subtitle "C" landfill or Construction and Demolition (C&D) Subtitle "D" landfill). Environmental Protection Agency's (EPA) Resource Conservation and Recovery Act (RCRA) mandates that the lead containing media be characterized as either hazardous or non-hazardous waste prior to disposal. The TCLP composite samples were representative of the various materials that constituted the waste stream. The Inspector donned disposable gloves, which were changed prior to the collection of each sample. The material was placed into a ziplock bag, sealed, and labeled with a unique identifier. A minimum of 100 grams of material was collected. A chain of custody form was completed and submitted with the samples to the laboratory.

LEAD – SURVEY FINDINGS (TARGET RANGES)

ATC collected four (4) representative four-point composite samples from the basement shooting ranges. Sample 1 was collected form Pistol Ranges 9 – 16, Sample 2 was collected form Pistol Ranges 1 – 8, Sample 3 was collected from the most recently active portion of the Rifle Ranges, Sample 4 was collected from the abandoned portion of the Rifle Ranges behind the steel back stop. Analytical results indicate that the anticipated waste stream from each of the sampled areas contain levels of leachable lead in excess of RCRA standards. All four samples contained leachable lead above 5ppm.

Sample	Location	Analytical Result)
1	Pistol Range 9 – 16	1,480 ppm
2	Pistol Range 1 – 8	655 ppm
3	Rifle Range (active)	23.9 ppm
4	Rifle Range (abandoned)	5.84 ppm

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Based on TCLP results indicating leachable levels of lead greater than 5 ppm, the waste streams generated by the removal of the soils, sands and other material are characterized as a hazardous lead containing solid waste as defined by RCRA.

FLUORESCENT AND HIGH-INTENSITY DISCHARGE LIGHTING (HID)/BALLASTS

A visual walk-through of the Armory was conducted including examination of typical fixtures to ascertain the approximate quantity of mercury containing switches, lamps and suspect PCB or DEHP containing light ballasts. A drawing identifying approximate room locations and quantities of fixtures, bulbs and ballasts in located in Appendix H. No mercury containing switches were observed. Ballasts inspected at various locations of the Armory were found to be not labeled as to content or in poor condition, therefore all ballasts were considered PCB or DEHP containing. An estimated quantity of light fixtures, bulbs and ballasts is as follows:

Level	FIXTURES	Bulbs/Tubes	Ballasts	Metal Halide Lights
Basement	185	450	300	9
Basement Mezzanine	190	300	145	-
Drill Floor	175	300	145	100
Second Floor	100	200	110	-
Third Floor	-	-	-	-
Fourth Floor	-	-	-	-
Totals	**650**	**1250**	**700**	**109**

The primary concern regarding the disposal of used fluorescent ballasts is the health risk associated with polychlorinated biphenyl's (PCBs). Human exposure to these possible carcinogens can cause skin, liver, and reproductive disorders. Fluorescent and high-intensity discharge (HID) ballasts contain a small capacitor that may contain high concentrations of PCBs (greater than 90% pure PCBs or 900,000 ppm). These chemical compounds were widely used as insulators in electrical equipment such as capacitors, switches, and voltage regulators through the late 1970s.

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The Toxic Substances Control Act (TSCA) was enacted in 1976, and subsequently banned the production of PCBs in the United States. The specific regulations governing the use and disposal of PCBs are found in Volume 40 Code of Federal Regulations (CFR) Part 761.

The proper method for disposing used ballasts depends on several factors, such as the type and condition of the ballasts and the regulations or recommendations in effect in the state(s) where you remove or discard them. TSCA specifies the disposal method for ballasts that are leaking PCBs. In addition, generators of PCB-containing ballast wastes may be subject to notification and liability provisions under the Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA) (also known as "Superfund").

Identifying criteria

- All ballasts manufactured through 1979 contain PCBs.
- Ballasts manufactured after 1979 that do not contain PCBs are labeled "No PCBs."
- If a ballast is not labeled "No PCBs," assume it contains PCBs.

DEHP-CONTAINING BALLASTS

Di (2-ethylhexyl) phathatlate (DEHP) is a substance that was used to replace PCBs in certain ballast capacitors beginning in 1979. DEHP in its pure form is listed as a hazardous waste under the Resource Conservation and Recovery Act (RCRA). However, once it has been used in a lighting ballast, it is no longer hazardous as defined by RCRA. (See 40 CFR 261.33, Part 261 Appendix VII, Section 268.34, and Section 268.43.) DEHP is regulated under CERCLA--the Superfund law. The "Reportable Quantity" (RQ) of DEHP under CERCLA is 100 pounds. (See 40 CFR, Section 302.4.) This means that if you are disposing of 100 pounds or more of the material in a 24 hour period (approximately 1,600 fluorescent lighting ballasts), you are required to notify the National Response Center at (800) 424-8802. It also means that parties involved with the disposal of DEHP ballasts may be held liable under Superfund if clean up of the DEHP is required.

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Identifying criteria

- DEHP has been found in ballasts designed for the following lighting fixtures: four foot fluorescent fixtures manufactured between 1979 and 1985
- Eight foot fluorescent fixtures manufactured between 1979 and 1991
- High intensity discharge (HID) fixtures manufactured between 1979 and 1991

MERCURY-CONTAINING LAMPS

Fluorescent and high-intensity discharge (HID) lamps contain a small quantity of mercury that can be harmful to the environment and to human health when improperly managed. Mercury is regulated under RCRA, which is administered by the US Environmental Protection Agency. Under current Federal law, mercury-containing lamps such as fluorescent and HID lamps may be hazardous waste. In addition, incandescent and HID lamps may contain small quantities of lead that can also be potentially harmful to human health and the environment.

STORAGE TANKS

The visual inspection of the Armory grounds indicated that at least four underground storage tanks existed; one underground storage tank (UST) in the western parking area as evidenced by an observed fill port and possible vent line, two UST's associated with the maintenance garage as evidenced by two vent lines and one UST associated with the heating plant of the National Guard Office and garage as evidenced by an observed fill port and vent line. A database search located in Appendix F provided by Environmental Data Resources, Inc. identified five underground storage tanks and two aboveground storage tanks associated with the Armory as follows:

Tank	Product	Capacity (gallons)	Status
1	Diesel	3,000	Closed
2	Unleaded Gasoline	2,000	Closed
3	1,2 or 4 Fuel Oil	2,000	Closed
4	1,2 or 4 Fuel Oil	8,000	Closed
5	Unleaded Gasoline	225	Closed
6	Diesel	225	Unknown
7	Other	275	Unknown

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Additionally, eight additional aboveground 275-gallon storage tanks were identified in the basement southeast hallway opposite the shooting ranges, and not identified in the regulatory database.

Sanborn fire insurance maps for the years 1896, 1900, 1914, 1945, 1950, 1981, 1991, 1992, 1993, 1995 and 1996, and aerial photographs for years 1954, 1966, 1975, 1984 and 1994 provided by Environmental Data Resources, Inc. did not provide any indication of tank locations.

An electro-magnetic of suspect areas was performed by NAEVA (Appendix G) indicated that two buried tanks might exist in the garage parking area. Presumably, these could be the closed tanks identified as tank 1 –diesel and tank 2- unleaded gasoline.

SURVEY LIMITATIONS

No lighting, extensive debris, standing water and microbial growth obscure many areas throughout the facility. These limitations impeded access and restricted viewing of some materials. Access to the upper shed roof and the entire north roof was not possible during this survey.

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CONCLUSIONS AND RECOMMENDATIONS

Asbestos

Asbestos containing materials have been located throughout the Kingsbridge Armory. Asbestos containing materials identified by the survey or revealed by subsequent demolition to be asbestos containing should be removed and disposed of prior to initiation of construction activities. The removal of these materials should be conducted by a State of New York licensed asbestos abatement contractor in accordance with all applicable federal, state, and local regulations. Sufficient sample density exists from the plasters to allow ATC to prepare a New York City Department of Environmental Protection Asbestos Control Program form 5 (Not an Asbestos Project) for demolition of plaster surfaces following abatement of the asbestos containing materials.

Lead - (Painted Surfaces)

All painted surfaces and building components should be assumed to contain lead and be handled in accordance with the requirements of the OSHA Lead Exposure in Construction Standard (29 CFR 1926.62) and any other local requirements. Painted components within the Armory are in generally poor condition throughout and should be considered lead containing for purposes of OSHA compliance, waste stream management and environmental dust control.

This survey does not relieve any renovation/demolition contractors from the responsibility of:

- The Occupational Safety and Health Administration's (OSHA) Construction Industry requirements.
- The Resource Conservation and Recovery Act (RCRA) requirements for testing and disposal of lead-contaminated materials.
- Any other applicable federal, state, or local regulations.

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Lead –(Target Ranges)

All sand including wood dead stop material should be handled and disposed of as lead contaminated material.

PCB/DEHP, Mercury

All PCB/DEHP-contaminated materials should be incinerated pursuant to the U.S. Environmental Protection Agency's PCB Rules 40 CFR Part 761 and relevant state rules and regulations. All mercury containing lighting lamps, such as: Fluorescent, Mercury Vapor, and High Intensity Discharge lamps (including Metal Halide lamps, High Pressure Sodium lamps, and Low Pressure Sodium lamps) should be disposed through a complete recycling process.

Storage Tanks

Tanks 1 and 2 appear to have been closed and abandoned in place, which can be verified by test pits. Additional investigation is required to ascertain the disposition of tanks 3 through 7. The seven aboveground storage tanks identified by the survey need to be examined/tested for product type, content and eventual disposition

MISCELANEOUS

The Kingsbridge Armory is identified as a large quanity generator of hazardous/regulated waste. This registration if inactive should be closed out. Throughout the Armory, various paints, solvents and maintenance products were observed that would require consolidation and disposal. Abandoned refrigeration/air conditioner units may contain CFC compounds and require reclamation prior to disposal. Several animal/bird carcasses and small quantities of avian excreta were observed in localized areas, disturbance of these items would require personal protective equipment.

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APPENDIX A:
SAMPLE ANALYSIS RESULTS IN TABULAR FORM

Building	HA #	Bulk Sample	Material	Floor	Sample Coordinates	(Type & %)
Armory	FT1	001	Floor Tile "wood grain"	1	Rm # 1W-6	6% Chrysotile
Armory	FT1	002	Floor Tile "wood grain" 9"x 9"	1	Rm # 1W-6	NA
Armory	FT1	003	Floor Tile "wood grain" 9"x 9"	1	Rm # 1W-6	NA
Armory	MS1	004	Mastic from wood grn ft	1	Rm # 1W-6	INC
Armory	MS1	005	Mastic from wood grn ft	1	Rm # 1W-6	INC
Armory	MS1	006	Mastic from wood grn ft	1	Rm # 1W-6	INC
Armory	FT2	007	Floortile 9"x 9"	1	Rm # 1W-5	18% Chrysotile
Armory	FT2	008	Maroone	1	Rm # 1W-5	NA
Armory	FT2	009	Maroone	1	Rm # 1W-5	NA
Armory	MS2	010	Mastic maroone Floor Tile	1	Rm # 1W-5	INC
Armory	MS2	011	Mastic maroone Floor Tile	1	Rm # 1W-5	INC
Armory	MS2	012	Mastic maroone Floor Tile	1	Rm # 1W-5	INC
Armory	FT3	013	Floor tile brown 9"x 9"	1	Rm # 1E-4	5% Chrysotile
Armory	FT10	014	Floor tile brown 9"x 9"	2	Rm # 2E-3	NA
Armory	FT10	015	Floor tile brown 9"x 9"		Set #1 office	NA
Armory	MS3	016	Mastic Brown - Floor Tile	1	Rm #1E-4	INC
Armory	FT10	017	Floor tile brown 9"x 9"	2	Rm #2E-3	INC
Armory	MS10	018	Mastic brown FT		Set #1 office	INC
Armory	FT4	019	Floor Tile Black 9"x 9"	1	Rm # 1E-1	12% Chrysotile
Armory	FT4	020	Floor Tile Black 9"x 9"	1	Rm # 1E-1	NA
Armory	FT4	021	Floor Tile Black 9"x 9"	1	Rm # 1E-1	NA
Armory	MS4	022	Mastic Black - Floor Tile	1	Rm # 1E-1	INC
Armory	MS4	023	Mastic Black - Floor Tile	1	Rm # 1E-1	INC
Armory	MS4	024	Mastic Black - Floor Tile	1	Rm # 1E-1	INC
Armory	FT5	025	Floor tile - Red 9"x 9"	1	Rm # 1W-4	6% Chrysotile
Armory	FT5	026	Floor tile - Red 9"x 9"	1	Rm # 1W-4	NA
Armory	FT5	027	Floor tile - Red 9"x 9"	1	Rm #1E-2	NA

NAD - No Asbestos Detected
INC - Inconclusive by PLM
NA - Not Analysed

Building	HA #	Bulk Sample	Material	Floor	Sample Coordinates	(Type & %)
Armory	MS5	028	Mastic red	1	Rm # 1W-4	INC
Armory	MS5	029	Mastic red	1	Rm # 1W-4	INC
Armory	MS5	030	Mastic red	1	Rm #1E-2	INC
Armory	FT6	031	Floor tile - blue 9"x 9"	1	Rm # 1W-4	22% Chrysotile
Armory	FT6	032	Floor tile - blue 9"x 9"	1	Rm # 1W-4	NA
Armory	FT6	033	Floor tile - blue 9"x 9"	1	Rm # 1W-4	NA
Armory	MS6	034	Mastic blue - Floor Tile	1	Rm # 1W-4	INC
Armory	MS6	035	Mastic blue - Floor Tile	1	Rm # 1W-4	INC
Armory	MS6	036	Mastic blue - Floor Tile	1	Rm # 1W-4	INC
Shelter		037	Floor tile - white 12" x 12"	BM	Womens Shelter	INC
Shelter		038	Floor tile - white 12" x 12"	BM	Medical Office	INC
Shelter		039	Floor tile - white 12" x 12"	BM	Medical Office	INC
Shelter		040	Mastic white - Floor Tile	BM	Womens shelter medical office	INC
Shelter		041	Mastic white 12" ft	BM	Womens shelter medical office	INC
Shelter		042	Mastic white 12" ft	BM	Womens shelter medical office	INC
Armory	FT7	043	Brown Linoleum	1	Rm #1W-5	2% Chrysotile
Armory	FT11	044	Brown Linoleum	1	Rm #1W-5	NA
Armory	FT7	045	Brown Linoleum	1	Rm #1W-5	NA
Armory	FT8	046	White Linoleum	1	Rm #1W-1	INC
Armory	FT8	047	White Linoleum	1	Rm #1W-1	INC
Armory	FT8	048	White Linoleum	1	Rm #1W-1	INC
Armory	FT9	049	Black Linoleum	1	SWT #2 Upper Office	INC
Armory	FT9	050	Black Linoleum	1	1W - 1	INC
Armory	FT9	051	Black Linoleum	1	SWT #2 Upper Office	INC
Shelter		052	Tan 12" x 12" Floor Tile	BM	Womens Shelter	INC
Shelter		053	Tan 12" x 12" Floor Tile	BM	Hallway	INC
Shelter		054	Tan 12" x 12" Floor Tile	BM	Dorm #	INC

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Building	HA #	Bulk Sample	Material	Floor	Sample Coordinates	(Type & %)
Shelter		055	Mastic 12"x 12' Floor Tile	BM	Dorm #	INC
Shelter		056	Mastic 12"x 12' Floor Tile	BM	Dorm #	INC
Shelter		057	Mastic 12"x 12' Floor Tile	BM	Dorm #	INC
Shelter		058	Void			VOID
Shelter		059	2'x 2' Ceiling Tile	BM	Womens shelter medical office	NAD
Shelter		060	2'x 2' Ceiling Tile	BM	Womens shelter medical office	NAD
Shelter		061	2'x 2' Ceiling Tile	BM	Womens shelter medical office	NAD
Shelter		062	2'x 2' Ceiling Tile	BM	Womens shelter medical office	NAD
Shelter		063	2'x 4' Ceiling Tile	BM	Womens shelter lounge	NAD
Shelter		064	2'x 4' Ceiling Tile	BM	Womens shelter lounge	NAD
Shelter		065	2'x 4' Ceiling Tile	BM	Womens shelter cafeteria	NAD
Shelter		066	2'x 4' Ceiling Tile	BM	Womens shelter cafeteria	NAD
Shelter		067	Cove Base	BM	Womens shelter cafeteria	INC
Shelter		068	Cove Base	BM	Womens shelter cafeteria	INC
Shelter		069	Cove Base	BM	Womens shelter cafeteria	INC
Shelter		070	Cove Base	BM	Womens shelter cafeteria	INC
Armory	CT1	071	2'x 4' Ceiling Tile	1	Room 1E2	NAD
Armory	CT1	072	2'x 4' Ceiling Tile	1	Room 1E2	NAD
Armory	CT1	073	2'x 4' Ceiling Tile	1	Room 1E2	NAD
Armory	CT2	074	1'x 1' Ceiling Tile	1	Room 1W4	NAD
Armory	CT2	075	1'x 1' Ceiling Tile	1	Debris on floor 1W4	NAD
Armory	CT2	076	1'x 1' Ceiling Tile	1	Debris on floor 1W5	NAD
Shelter		077	Elbow Mud	BM	Womens shelter	NAD
Shelter		078	Elbow Mud	BM	Womens shelter	NAD
Shelter		079	Elbow Mud	BM	Womens shelter	NAD
Armory	TSI1	080	Woven Pipe Wrap	2	Room 2E2	NAD
Armory	TSI1	081	Woven Pipe Wrap	2	Room 2E3	NAD

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Building	HA #	Bulk Sample	Material	Floor	Sample Coordinates	(Type & %)
Armory	TSI1	082	Woven Pipe Wrap	2	Room 2E4	NAD
Armory		083	Woven Pipe Wrap	2	Room 2E5	NAD
Armory	M1	084	Window Glazing	2	Rm. SE-1	INC
Armory	M1	085	Window Glazing	2	Rm. SE-1	INC
Armory	M1	086	Window Glazing	1	Roof Turret	INC
Armory	M2	087	Wallboard	1	RM. SW-5	NAD
Shelter		088	Wallboard	BM	RM. SW-4	NAD
Shelter		089	Wallboard	BM	Shelter	NAD
Armory		090	Wallboard	SWT-1	Shelter	INC
Armory		091	Wallboard	SWT-1	Turret	INC
Armory		092	Wallboard	SWT-1	Turret	INC
Armory		093	Wallboard	SWT-1	Turret	NAD
Armory		094	Wallboard	SWT-1	Turret	NAD
Armory		095	Wallboard	SWT-1	Turret	NAD
Reserve	1	A-01	9" Grey VFT	2	Rm 2-1	2.7% Chrysotile
Reserve	1	A-02	9" Grey VFT	2	Rm 2-2	NA
Reserve	1	A-03	9" Grey VFT	2	Rm 2-3	NA
Reserve	2	A-04	9" Black VFT	2	Rm 2-1	INC
Reserve	2	A-05	9" Black VFT	2	Rm 2-2	INC
Reserve	2	A-06	9" Black VFT	2	Rm 2-3	INC
Reserve	3	A-07	Mastic on homo # 01 & # 07	2	Rm 2-3	INC
Reserve	3	A-08	Mastic on homo # 01 & # 07	2	Rm 2-1	INC
Reserve	3	A-09	Mastic on homo # 01 & # 07	2	Rm 2-15	INC
Reserve	4	A-10	Grey floor coating	2	Corridor	INC
Reserve	4	A-11	Grey floor coating	2	Corridor	INC
Reserve	4	A-12	Grey floor coating	2	Corridor	INC
Reserve	5	A-13	12" spline ceiling tile	2	Rm 2-1	NAD

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Building	HA #	Bulk Sample	Material	Floor	Sample Coordinates	(Type & %)
Reserve	5	A-14	12" spline ceiling tile	2	Entrance lobby	NAD
Reserve	5	A-15	12" spline ceiling tile	2	Rm 2-3	NAD
Reserve	6	A-16	6" Black vinyl cove base	2	Rm 2-1	INC
Reserve	6	A-17	6" Black vinyl cove base	2	Rm 2-3	INC
Reserve	6	A-18	6" Black vinyl cove base	2	Rm 2-8	INC
Reserve	7	A-19	Mastic ass. with homo # 06	2	Rm 2-1	INC
Reserve	7	A-20	Mastic ass. with homo # 06	2	Rm 2-3	INC
Reserve	7	A-21	Mastic ass. with homo # 06	2	Rm 2-8	INC
Reserve	8	A-22	12" white/grey streaks VFT	2	Rm 2-8	INC
Reserve	8	A-23	12" white/grey streaks VFT	2	Rm 2-8	INC
Reserve	8	A-24	12" white/grey streaks VFT	2	Rm 2-8	INC
Reserve	9	A-25	Mastic ass. with homo # 08	2	Rm 2-8	INC
Reserve	9	A-26	Mastic ass. with homo # 08	2	Rm 2-8	INC
Reserve	9	A-27	Mastic ass. with homo # 08	2	Rm 2-8	INC
Reserve	10	A-28	Wall board as ceiling	1	Corridor	NAD
Reserve	10	A-29	Wall board as ceiling	1	Corridor	NAD
Reserve	10	A-30	Wall board as ceiling	2	Corridor	NAD
Reserve	11	A-31	Outside window caulking (tan)	2	Roof	INC
Reserve	11	A-32	Outside window caulking (tan)	2	Roof	INC
Reserve	11	A-33	Outside window caulking (tan)	2	Roof	INC
Reserve	12	A-34	White window glazing	2	Roof	INC
Reserve	12	A-35	White window glazing	2	Roof	INC
Reserve	12	A-36	White window glazing	2	Roof	INC
Reserve	13	A-37	Coping stone caulking	R	Roof	INC
Reserve	13	A-38	Coping stone caulking	R	Roof	INC
Reserve	13	A-39	Coping stone caulking	R	Roof	INC
Reserve	14	A-40	Tar paper on fiberglass pipe insulation	B	Corridor	INC

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Building	HA #	Bulk Sample	Material	Floor	Sample Coordinates	(Type & %)
Reserve	14	A-41	Tar paper on fiberglass pipe insulation	B	Corridor	INC
Reserve	14	A-42	Tar paper on fiberglass pipe insulation	B	East side room	INC
Reserve	15	A-43	Cementations pipe fitting on fiberglass pipe	1	Locker room	50% Chrysotile
Reserve	15	A-44	Cementations pipe fitting on fiberglass pipe	B	Corridor	NA
Reserve	15	A-45	Cementations pipe fitting on fiberglass pipe	B	Northside room	NA
Armory	P01	P-01	1st Coat White Wall Plaster	1	RM 1W4	NAD
Armory	P02	P-02	2nd Coat Brown Wall Plaster	1	RM 1W4	NAD
Armory	P01	P-03	1st Coat White Column Plaster	1	Entrance Lobby Column	NAD
Armory	P02	P-04	2nd Coat Brown Column Plaster	1	Entrance Lobby Column	NAD
Armory	P01	P-05	1st Coat White Wall Plaster	1	East Wall of Entrance Lobby	NAD
Armory	P02	P-06	2nd Coat Brown Wall Plaster	1	East Wall of Entrance Lobby	NAD
Armory	P01	P-07	1st Coat White Wall Plaster	1	Room 1E1	NAD
Armory	P02	P-08	2nd Coat Brown Wall Plaster	1	Room 1E1	NAD
Armory	P01	P-09	1st Coat White Ceiling Plaster	1M	RM 1E3 Mezz	NAD

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Building	HA #	Bulk Sample	Material	Floor	Sample Coordinates	(Type & %)
Armory		P1	Built-up Roofing	R	Existing probe -P1	4% Chrysotile
Armory	P02	P-10	2nd Coat Brown Ceiling Plaster	1M	RM 1E3 Mezz	NAD
Armory	P01	P-11	1st Coat White Ceiling Plaster	1	RM 1E5	NAD
Armory	P02	P-12	2nd Coat Brown Ceiling Plaster	1	RM 1E5	NAD
Armory	P01	P-13	1st Coat White Suspend Ceiling Plaster	1	Lobby Area of West Side Stair Case	NAD
Armory	P02	P-14	2nd Brown Coat Under # P-13	1	Lobby Area of West Side Stair Case	NAD
Armory	P01	P-15	1st Coat White Ceiling Plaster	1	RM 1W6	NAD
Armory	P02	P-16	2nd Coat Brown Ceiling Plaster	1	RM 1W6	NAD
Armory	P01	P-17	1st Coat White Wall Plaster	1	Entrance Area West Turret Room	NAD
Armory	P02	P-18	2nd Coat Brown Wall Plaster	1	Entrance Area West Turret Room	NAD
Armory	P03	P-19	1st Coat White Ceiling Plaster	2	West Side Stair Way Vestibule	NAD
Armory	R	P2	Built-up Roofing	R	Existing probe -P2	5% Chrysotile
Armory	P04	P-20	2nd Coat Brown Ceiling Plaster	2	West Side Stair Way Vestibule	NAD
Armory	P03	P-21	1st Coat White Ceiling Plaster	2		NAD
Armory	P04	P-22	2nd Coat Brown Ceiling Plaster	2		NAD
Armory	P03	P-23	1st Coat White Wall Plaster	2		NAD
Armory	P04	P-24	2nd Coat Brown Wall Plaster	2		NAD
Armory	P03	P-25	1st Coat White Column Plaster	2	Center Hallway Between Turrets	NAD
Armory	P04	P-26	2nd Coat Brown Column Plaster	2	Center Hallway Between Turrets	NAD
Armory	P03	P-27	1st Coat White Ceiling Plaster	3	Corridor Outside 3rd Floor Bar	NAD
Armory	P04	P-28	2nd Coat Brown Ceiling Plaster	3	Corridor Outside 3rd Floor Bar	NAD
Armory	P03	P-29	1st Coat White Wall Plaster	3	Wall North of Bar Room	NAD
Armory	P04	P-30	2nd Coat Brown Wall Plaster	3	Wall North of Bar Room	NAD
Armory	P03	P-31	1st Coat White Ceiling Plaster	2	East Side Room	NAD
Armory	P04	P-32	2nd Coat Brown Ceiling Plaster	2	East Side Room	NAD
Armory	P03	P-33	1st Coat White Wall Plaster	2	Corridor East End	NAD
Armory		P3-3TAB	3 Tab Shingle	R	Existing probe -P3	2% Chrysotile

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Building	HA #	Bulk Sample	Material	Floor	Sample Coordinates	(Type & %)
Armory	P04	P-34	2nd Coat Brown Wall Plaster	2	Corridor East End	NAD
Armory	P03	P-35	1st Coat White Wall Plaster	3		NAD
Armory	P04	P-36	2nd Coat Brown Wall Plaster	3		NAD
Armory	P05	P-37	1st Coat White Wall Plaster	BM	RM-B-16	NAD
Armory	P06	P-38	2nd Coat Brown Wall Plaster	BM	RM-B-16	NAD
Armory	P05	P-39	1st Coat White Ceiling Plaster	BM	RM-B-16	NAD
Armory		P3-FELT	Tar Paper Underlayment	R	Existing probe -P3	2% Chrysotile
Armory		P3-PAP	Paper Underlayment	R	Existing probe -P3	NAD
Armory	P06	P-40	2nd Coat Brown Ceiling Plaster	BM	RM-B-16	NAD
Armory	P05	P-41	1st Coat White Ceiling Plaster	BM	Center S. Room Between Turrets	NAD
Armory	P06	P-42	2nd Coat Brown Ceiling Plaster	BM	Center S. Room Between Turrets	NAD
Armory	P05	P-43	1st Coat White Column Plaster	BM	Center Vestibule By Stairs Going Down	NAD
Armory	P06	P-44	2nd Coat Brown Column Plaster	BM	Center Vestibule By Stairs Going Down	NAD
Armory	P05	P-45	1st Coat White Wall Plaster	BM	N Side Wall of Shelter	NAD
Armory	P06	P-46	2nd Coat Brown Wall Plaster	BM	N Side Wall of Shelter	NAD
Armory	P05	P-47	1st Coat White Wall Plaster	BM	East Side Room of Shelter	NAD
Armory	P06	P-48	2nd Coat Brown Wall Plaster	BM	East Side Room of Shelter	NAD
Armory	P05	P-49	1st Coat White Ceiling Plaster	BM	South Side Room of Shelter	NAD

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Building	HA #	Bulk Sample	Material	Floor	Sample Coordinates	(Type & %)
Armory		P4-EXT	Built-up Roofing	R	Existing probe -P4	NAD
Armory		P4-FELT	Built-up Roofing	R	Existing probe -P4	NAD
Armory		P4-PAP	3 Tab Shingle	R	Existing probe -P5	2% Chrysotile
Armory	P06	P-50	2nd Coat Brown Ceiling Plaster	BM	South Side Room of Shelter	NAD
Armory	P05	P-51	1st Coat White Ceiling Plaster	BM	RM B-39	NAD
Armory	P06	P-52	2nd Coat Brown Ceiling Plaster	BM	RM B-39	NAD
Armory	P05	P-53	1st Coat White Wall Plaster	BM	RM B-39	NAD
Armory		P5-3TAB	Built-up Roofing	R	Existing probe -P5	Trace Chry
Armory	P06	P-54	2nd Coat Brown Wall Plaster	BM	RM B-39	NAD

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Building	HA #	Bulk Sample	Material	Floor	Sample Coordinates	(Type & %)
Armory		P5-FELT	Tar Paper Underlayment	R	Existing probe -P5	0.75% Chrysotile
Armory	R-1	R-001	Roofing	R	Flat Roof	3% Chrysotile
Armory	R-1	R-002	Roofing	R	Flat Roof - Elevated Section	NA
Armory	R-1	R-003	Roofing	R	Tower Roof	NA
Armory	R-2	R-004	Cap Stone Caulk	R	Roof	INC
Armory	R-2	R-005	Cap Stone Caulk	R	Roof	INC

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NA - Not Analysed

Building	HA #	Bulk Sample	Material	Floor	Sample Coordinates	(Type & %)
Armory	R-2	R-006	Cap Stone Caulk	R	Roof	INC
Armory	1	R-1	Built-up Roofing (upper)	R	Main Roof	4% Chrysotile
Armory	2	R-2	3-Tab Shingle (lower)	R	Main Roof	3.8% Chrysotile
Armory	3	R-3	Tar Paper Underlayment (lower)	R	Main Roof	NAD
Armory	4	R-4	Paper Underlayment (lower)	R	Main Roof	NAD
Armory	SB-1	SB001	Boiler Mud	SB	Boiler Room	NAD
Armory	SB-1	SB002	Boiler Mud	SB	Boiler Room	NAD
Armory	SB-1	SB003	Boiler Mud	SB	Boiler Room	NAD
Armory	SB-2	SB004	Breeching Insulation	SB	Boiler Room	NAD
Armory	SB-2	SB005	Breeching Insulation	SB	Boiler Room	NAD
Armory	SB-2	SB006	Breeching Insulation	SB	Boiler Room	NAD
Armory	SB-3	SB007	Elbow Mud	SB	Boiler Room	NAD
Armory	SB-3	SB008	Elbow Mud	SB	Boiler Room	NAD
Armory	SB-3	SB009	Elbow Mud	SB	Boiler Room	NAD

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APPENDIX D:
ASBESTOS CONTAINING MATERIALS BY LOCATION

Building	Floor	Room/Location	Thermal System Insulation	Floor Tile/Flooring Material	Fixtures	Florescent Tubes	Ballasts	Metal Halides
Armory	1	1E-1	-	1,050	-	-	-	
Armory	1	1E-2	20	1,050	-	-	-	
Armory	1	1E-3	20	150	4	2	1	
Armory	1	1E-4	20	1,120	6	6	3	
Armory	1	1E-5	50	120	-	-	-	
Armory	1	1E-6	50	120	5	4	2	
Armory	1	1E-7	-	-	18	18	9	
Armory	1	1E-8	-	-	10	10	5	
Armory	1	1W-1	20	200	32	6	3	
Armory	1	1W-2	60	500	6	24	12	
Armory	1	1W-3	20	500	6	24	12	
Armory	1	1W-4	20	1,050	7	38	16	
Armory	1	1W-5	-	200	4	16	8	
Armory	1	1W-6	30	400	6	24	12	
Armory	1	1W-7	-	-	-	-	-	
Armory	1	1W-8	-	-	-	-	-	
Armory	1	1W-9	230	-	24	24	24	
Armory	1	Drill Floor	3,000	-	25	50	25	100
Armory	1	SWT-1	-	-	-	-	-	
Armory	1	SWT-2	-	-	-	-	-	
Armory	1	SET-1	-	-	-	-	-	
Armory	1	SET-2	-	-	-	-	-	
Armory	2	2SE-1A	40	1,200	6	12	6	
Armory	2	2SE-1B	165	1,200	6	8	6	
Armory	2	2SE-2	30	1,200	6	12	6	
Armory	2	2SE-3	50	1,200	6	12	6	

Building	Floor	Room/Location	Thermal System Insulation	Floor Tile/Flooring Material	Fixtures	Florescent Tubes	Ballasts	Metal Halides
Armory	2	2SE-4	30	1,200	6	12	6	
Armory	2	2SE-5	30	1,200	6	12	6	
Armory	2	2SE-6	100	1,200	7	18	9	
Armory	2	2SE-7	50	1,500	9	18	9	
Armory	2	2SW-1	-	-	5	10	5	
Armory	2	2SW-2	-	-	-	-	-	
Armory	2	2SW-3	-	-	-	-	-	
Armory	2	2SW-4	-	-	-	-	-	
Armory	2	2SW-4-Bathroom	90	3,600	-	-	-	
Armory	2	2SW-5	90	2,000	-	-	-	
Armory	2	2SW-6	-	2,000	10	20	10	
Armory	2	2SW-7	-	-	6	12	6	
Armory	2	2SWT-1	-	-	4	8	4	
Armory	2	2SWT-2	-	-	-	-	-	
Armory	2	2SET-1	-	-	4	8	4	
Armory	2	2SET-2	-					
Armory	2	Hallway	-	-	19	38	19	
Armory	3	Lounge	-	2,700	-	-	-	
Armory	3	3SET-1	50	2,100	-	-	-	
Armory	3	3SET-2	100	2,100	-	-	-	
Armory	3	3SWT1	60	1,500	-	-	-	
Armory	3	3SWT-2	-	-	-	-	-	
Armory	4	4SET-1	-	150	-	-	-	
Armory	4	4SET-2	-	-	-	-	-	
Armory	4	4SWT-1	-	-	-	-	-	
Armory	4	4SWT-2	-	-	-	-	-	

Building	Floor	Room/Location	Thermal System Insulation	Floor Tile/Flooring Material	Fixtures	Florescent Tubes	Ballasts	Metal Halides
Armory	B	BE-17	160	-	4	10	5	
Armory	B	C12			6	6	3	
Armory	B	C13			21	24	12	
Armory	B	C15	20	-	-	-	-	
Armory	B	C16	10	-	2	8	4	
Armory	B	C17	20	-	1	4	2	
Armory	B	C18	15	-	1	4	2	
Armory	B	C19	15	-	1	2	1	
Armory	B	C20	20	-	-	-	-	
Armory	B	C21	20	-	-	-	-	
Armory	B	C22	10	-	-	-	-	
Armory	B	C23	40	-	-	-	-	
Armory	B	C24	25	-	-	-	-	
Armory	B	C33A	55	-	7	21	11	
Armory	B	C33B	55	-	-	-	-	
Armory	B	C33C	55	-	-	-	-	
Armory	B	C33D	55	-	-	-	-	
Armory	B	C33E	-	-	-	-	-	
Armory	B	C33F	-	-	15	30	15	
Armory	B	C33G	55	-	-	-	-	
Armory	B	C34	20	-	-	-	-	
Armory	B	C35	30	-	-	-	-	
Armory	B	C36	20	-	1	4	2	
Armory	B	C37	40	-	-	-	-	
Armory	B	C41	15	-	-	-	-	
Armory	B	C42	20	-	-	-	-	

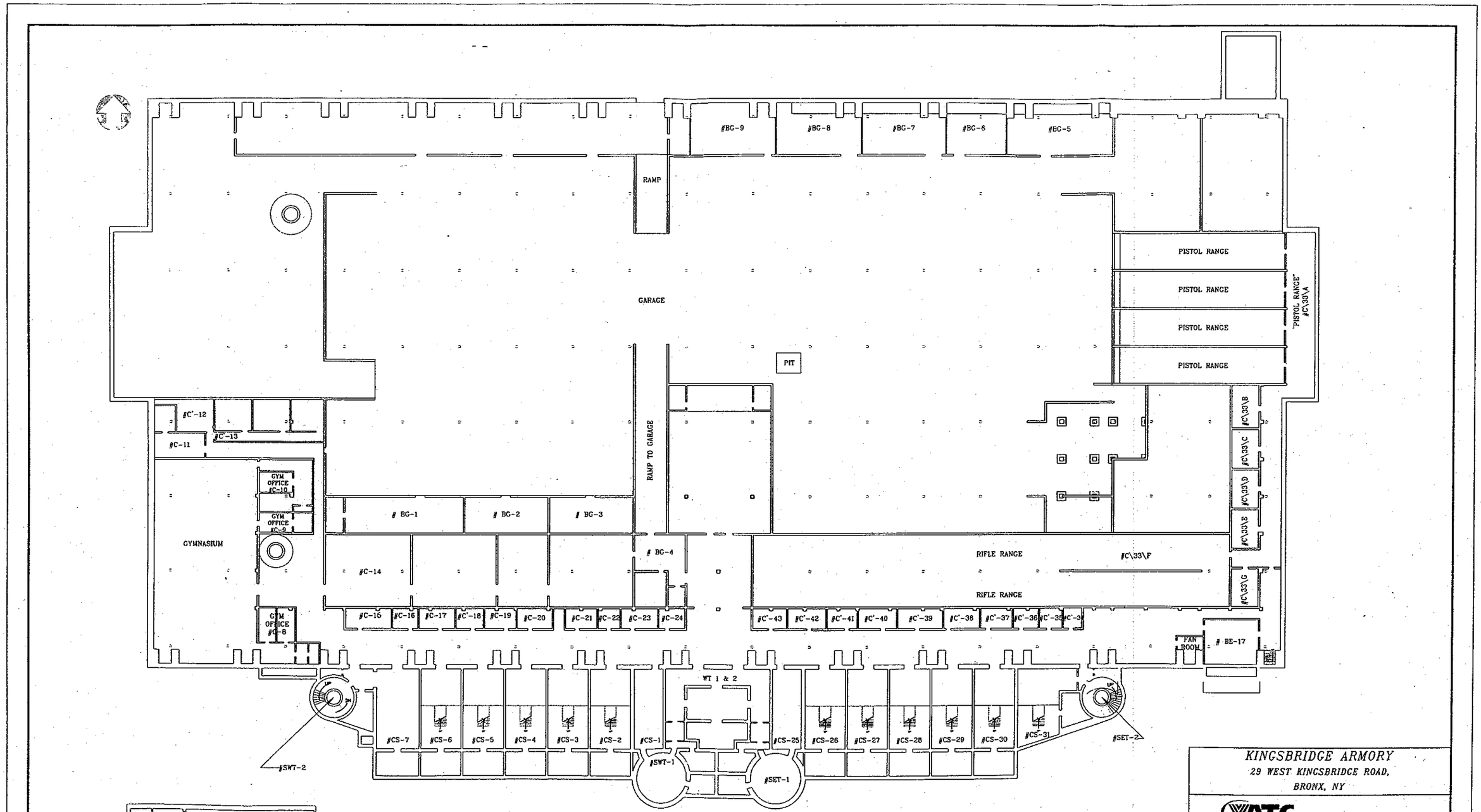
Building	Floor	Room/Location	Thermal System Insulation	Floor Tile/Flooring Material	Fixtures	Florescent Tubes	Ballasts	Metal Halides
Armory	B	C43	40	-	-	-	-	
Armory	B	C14	230	300	14	28	14	
Armory	B	CS1	120	-	14	12	6	
Armory	B	CS12	80	-	6	6	3	
Armory	B	CS2	165	-	12	36	24	
Armory	B	CS26	220	-	14	32	16	
Armory	B	CS27	220	-	12	32	16	
Armory	B	CS28	220	-	14	32	16	
Armory	B	CS29	140	-	14	32	16	
Armory	B	CS3	165	-	12	36	24	
Armory	B	CS30	200	-	14	32	16	
Armory	B	CS31	200	-	14	32	16	
Armory	B	CS4	165	-	15	48	28	
Armory	B	CS5	165	-	12	36	24	
Armory	B	CS6	110	-	12	36	24	
Armory	B	CS7	240	-	5	6	8	
Armory	B	CSS25	105	-	14	12	6	
Armory	B	E1	90	-				
Armory	B	Fan Room	10	-				
Armory	B	Garage	1,550	-	12	24	12	
Armory	B	Gymnasium	1,020	-				
Armory	B	Gymnasium Hallway (EW)	200	-	14	28	15	
Armory	B	Gymnasium Hallway (NS)	300	-	3	6	3	
Armory	B	C9	50	-				
Armory	B	C8	30	-				
Armory	B	C10	100	-				

Building	Floor	Room/Location	Thermal System Insulation	Floor Tile/Flooring Material	Fixtures	Florescent Tubes	Ballasts	Metal Halides
Armory	B	SET2	25	-				
Armory	B	SET2	-	-				
Armory	B	Slop Sink Room	30	-				
Armory	B	SWTC1	40	-				
Armory	B	WT1	290	-	18	18	18	
Armory	B	WT2	290	-				
Armory	B	WTC3	50	-				
Armory	BM	A1	-	400				
Armory	BM	B1	50	-	1	4	2	
Armory	BM	B10	250	600				
Armory	BM	B13	15	-				
Armory	BM	B14	140	-				
Armory	BM	B15	40	-				
Armory	BM	B2	50	-				
Armory	BM	B23	50	-	2	4	2	
Armory	BM	B24	25	-				
Armory	BM	B25	55	-				
Armory	BM	B26	25	-				
Armory	BM	B27	30	-	1	3	2	
Armory	BM	B28	20	-				
Armory	BM	B29	50	-	2	8	4	
Armory	BM	B3	50	-	2	4	2	
Armory	BM	B30	50	-				
Armory	BM	B31	50	-				
Armory	BM	B32	50	-	1	4	2	
Armory	BM	B33	50	-	2	4	2	

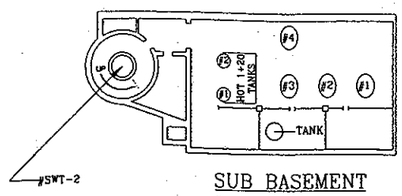
Building	Floor	Room/Location	Thermal System Insulation	Floor Tile/Flooring Material	Fixtures	Florescent Tubes	Ballasts	Metal Halides
Armory	BM	B34	50	-				
Armory	BM	B35	50	-	2	8	4	
Armory	BM	B37	50	-				
Armory	BM	B38	-	-	4	1	2	
Armory	BM	B4	50	-	1	2	1	
Armory	BM	B5	50	-	1	2	1	
Armory	BM	B51	-	-				
Armory	BM	B52	-	-				
Armory	BM	B53	-	-				
Armory	BM	B54	-	-				
Armory	BM	B6	60	-	1	4	2	
Armory	BM	B7	70	-				
Armory	BM	B8	50	-	3	12	6	
Armory	BM	B9	50	-				
Armory	BM	B39			9	36	18	
Armory	BM	B40						
Armory	BM	Balcony	-	-				
Armory	BM	Hallway	20	-	34	68	34	
Armory	BM	Lecture Hall	60	-				9.00
Armory	BM	Loading Area	400	-				
Armory	BM	Open Store Areas	-	-				
Armory	R	Roofing						
Armory	SB	Boiler Room	-	-				
Shelter	B	C33E	55	-				
Shelter	B	C33F	55	-				
Shelter	B	C38	40	-				

Building	Floor	Room/Location	Thermal System Insulation	Floor Tile/Flooring Material	Fixtures	Florescent Tubes	Ballasts	Metal Halides
Shelter	B	C39	80	-				
Shelter	B	C40	35	-				
		Flooring Total		**9,850**				
		Thermal System Total	**14,315**		**623**	**1,247**	**680**	**109**
		Roofing Total	**235,000**					

APPENDIX H:
SURVEY DRAWINGS



BASEMENT



SUB BASEMENT
"BOILER ROOM"

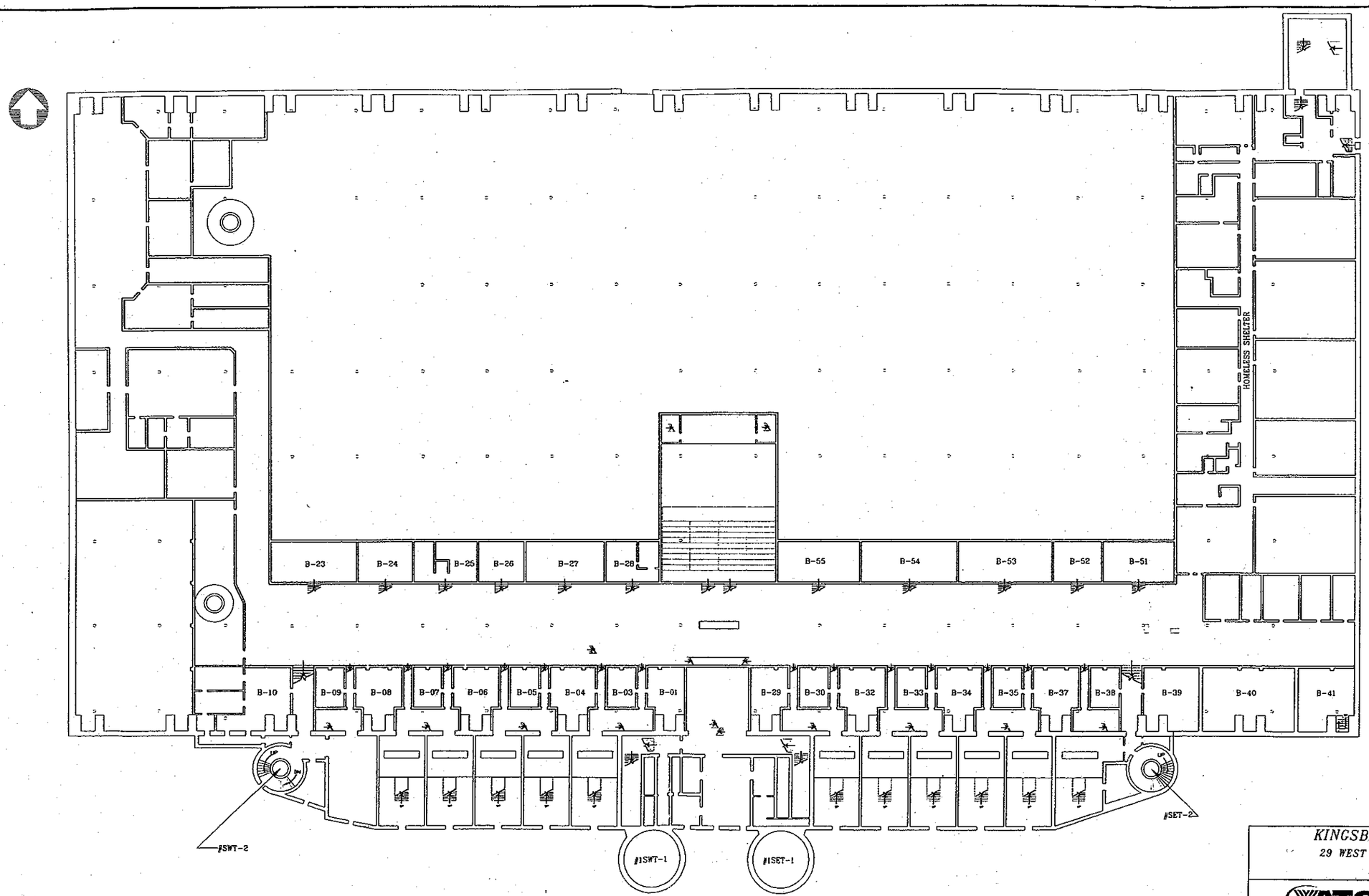
KINGSBRIDGE ARMORY
29 WEST KINGSBRIDGE ROAD,
BRONX, NY

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ROOM NUMBERS
BASEMENT AND SUB BASEMENT "BOILER ROOM"

PROJ.#75018	FILE: M:\CAD94\75018.001\A-1	
DRAWN BY: V. FROLOV	SCALE: NOT TO SCALE	
CHECKED BY: J. RUCHALSKI	DATE: 09/21/00	A-1

FILE: M:\CAD94\75018.001\A-1



BASEMENT MEZZANINE PLAN

KINGSBRIDGE ARMORY
29 WEST KINGSBRIDGE ROAD,
BRONX, NY

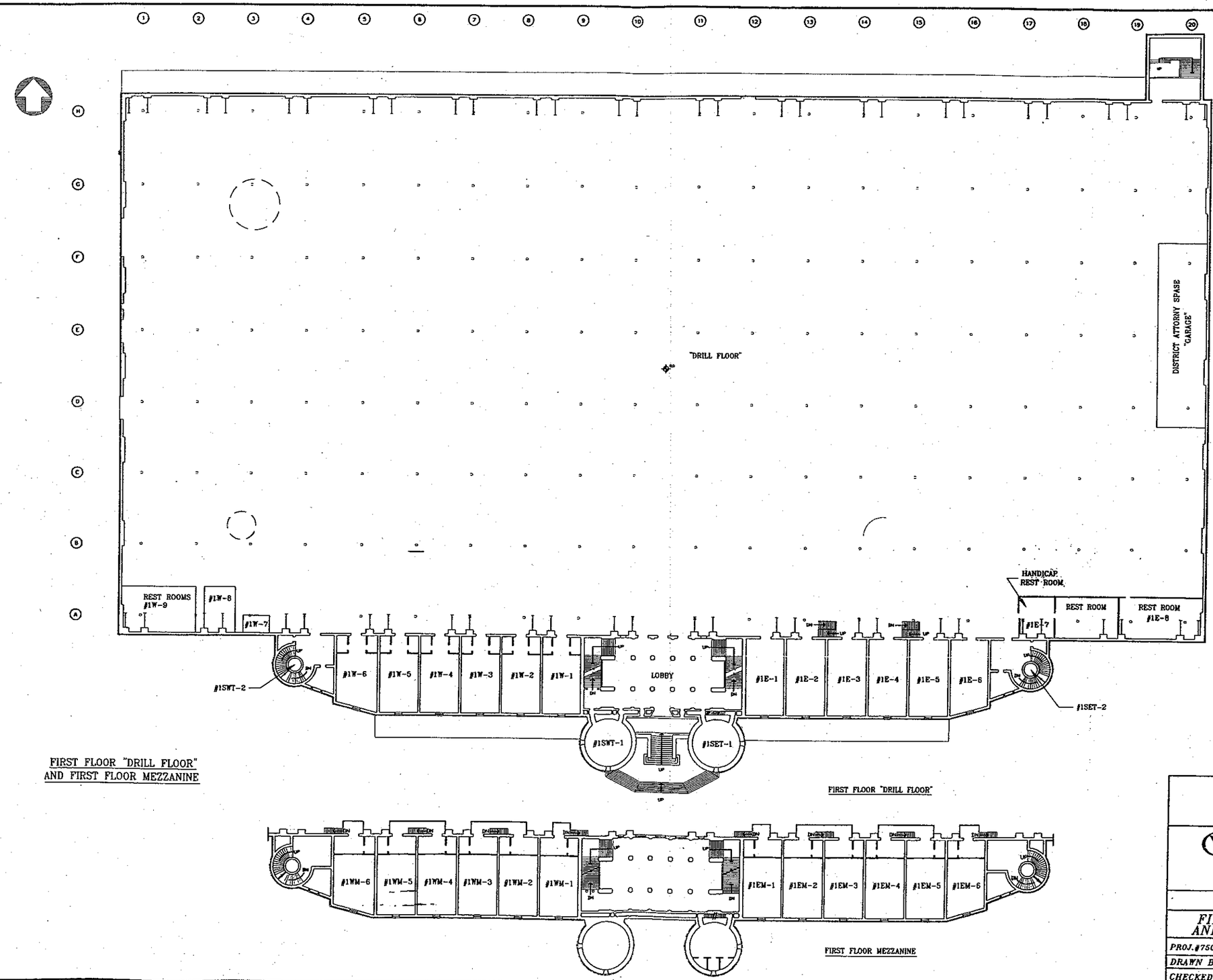
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ROOM NUMBERS

BASEMENT MEZZANINE PLAN

PROJ.#75018	FILE: M:\CAD94\75018.001\A-2	
DRAWN BY: V. MOLCHANENKO	SCALE: NOT TO SCALE	
CHECKED BY: J. RUCHALSKI	DATE: 09/21/00	A-2

FILE: M:\CAD94\75018.001\A-2



FIRST FLOOR "DRILL FLOOR"
AND FIRST FLOOR MEZZANINE

FIRST FLOOR "DRILL FLOOR"

FIRST FLOOR MEZZANINE

KINGSBRIDGE ARMORY
29 WEST KINGSBRIDGE ROAD,
BRONX, NY

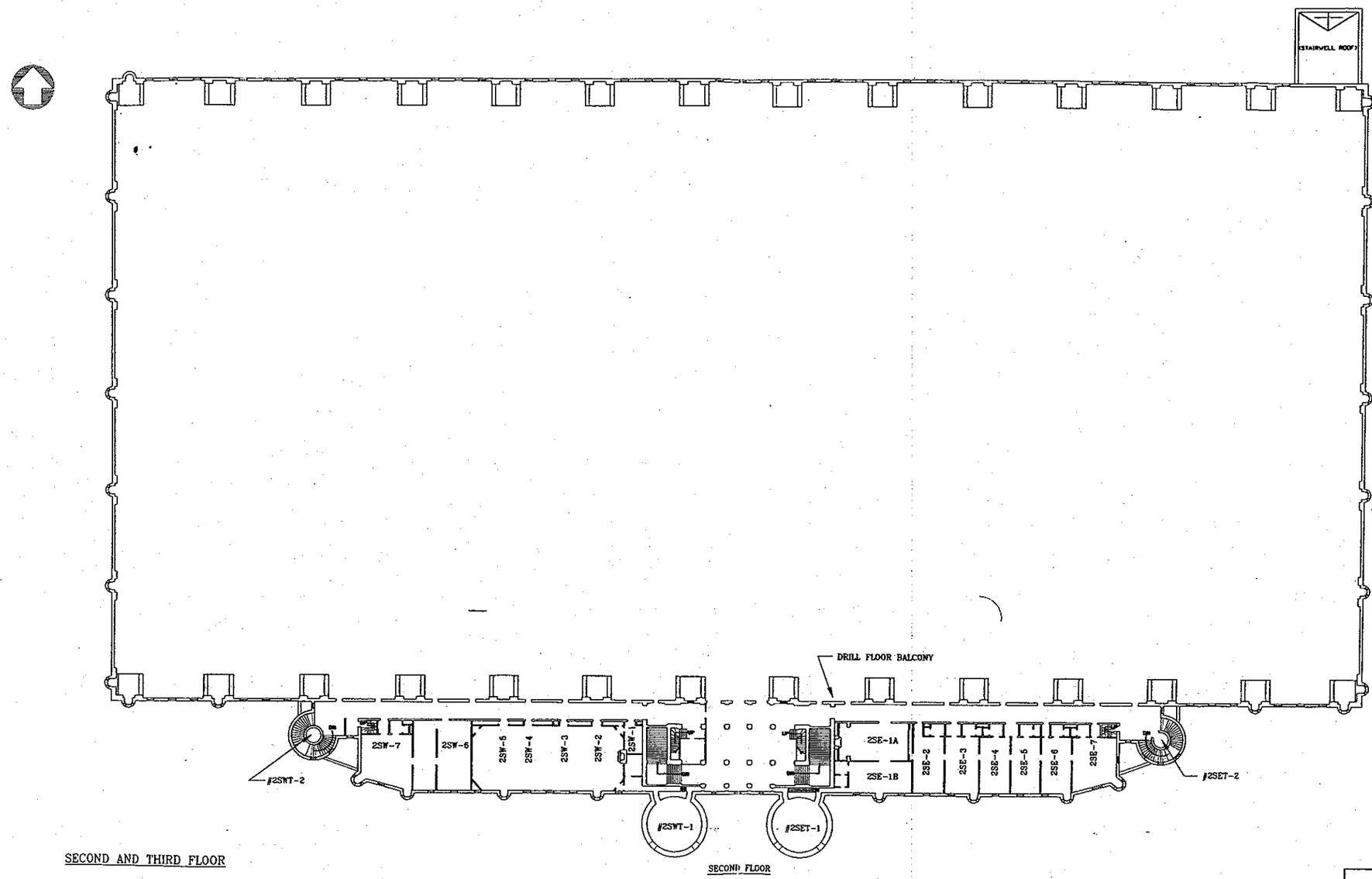
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ROOM NUMBER

FIRST FLOOR "DRILL FLOOR"
AND FIRST FLOOR MEZZANINE

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DRAWN BY: V.MOLCHANENKO	SCALE: NOT TO SCALE
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FILE: M:\CAD94\75018.001\A-3



SECOND AND THIRD FLOOR

KINGSBRIDGE ARMORY
29 WEST KINGSBRIDGE ROAD,
BRONX, NY

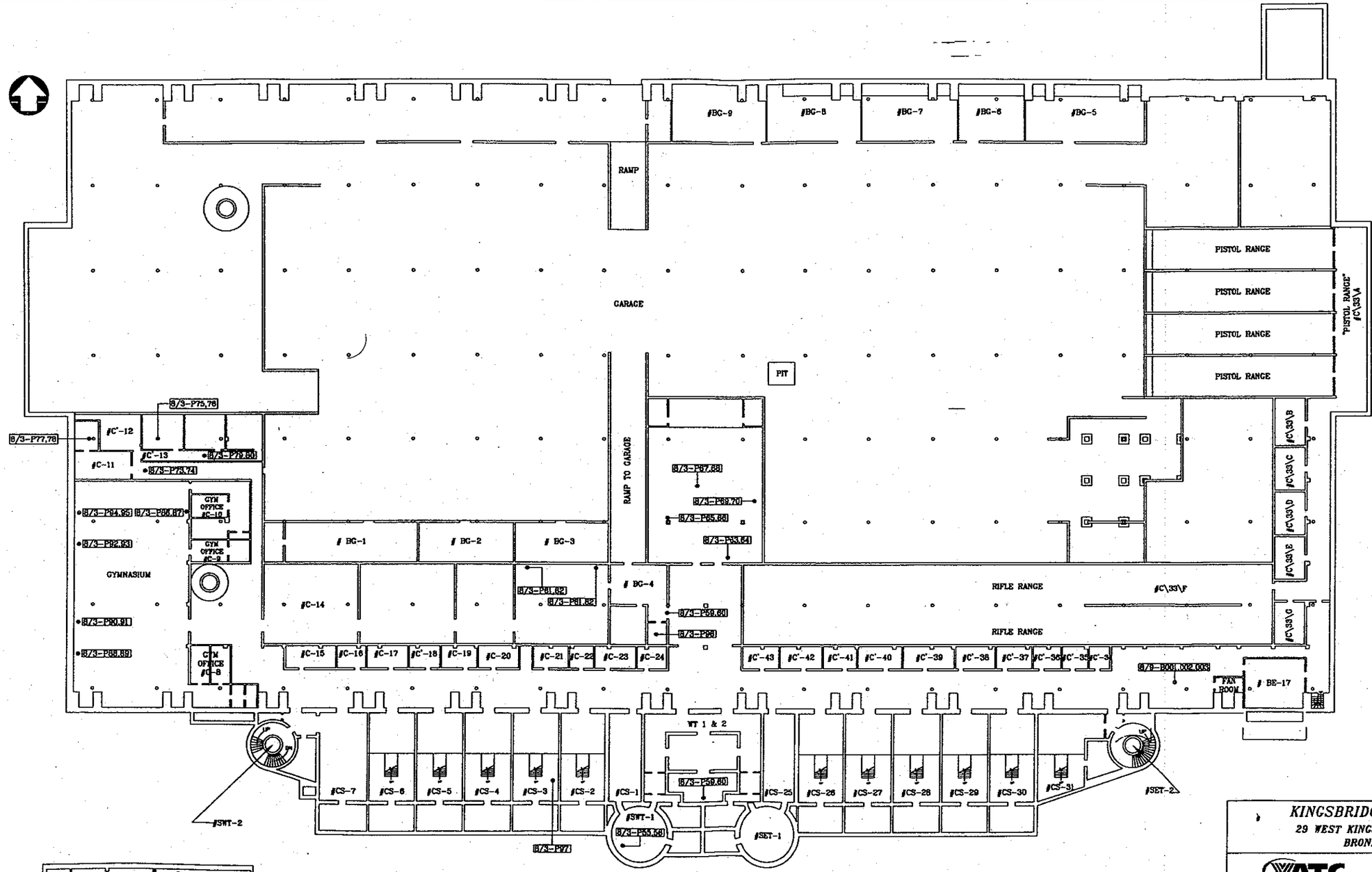
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ROOM NUMBERS

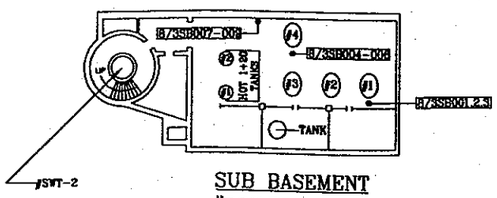
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BASEMENT



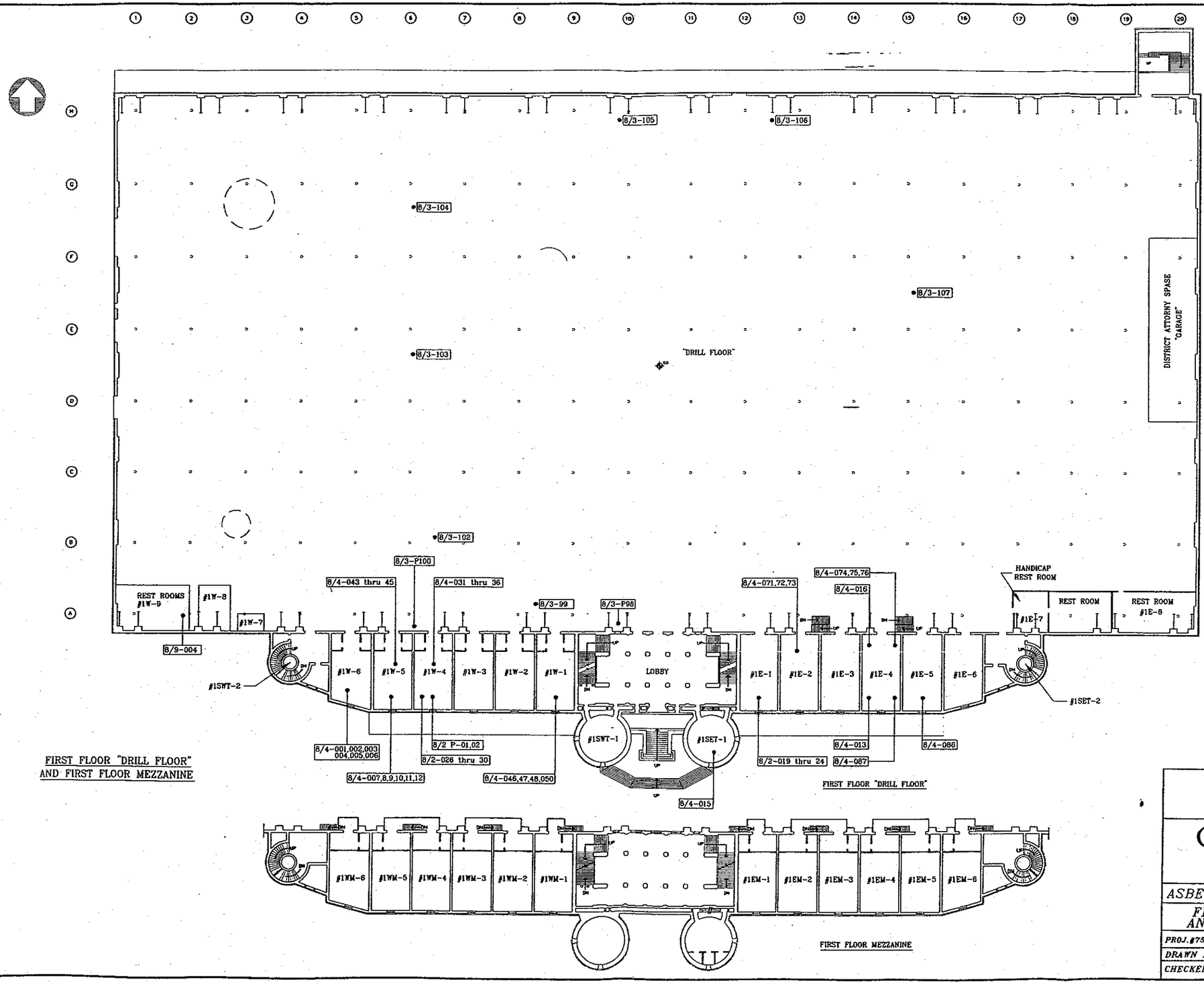
SUB BASEMENT
"BOILER ROOM"

KINGSBRIDGE ARMORY
29 WEST KINGSBRIDGE ROAD,
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ASBESTOS BULK SAMPLE LOCATIONS
BASEMENT AND SUB BASEMENT "BOILER ROOM"

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FIRST FLOOR "DRILL FLOOR"
AND FIRST FLOOR MEZZANINE

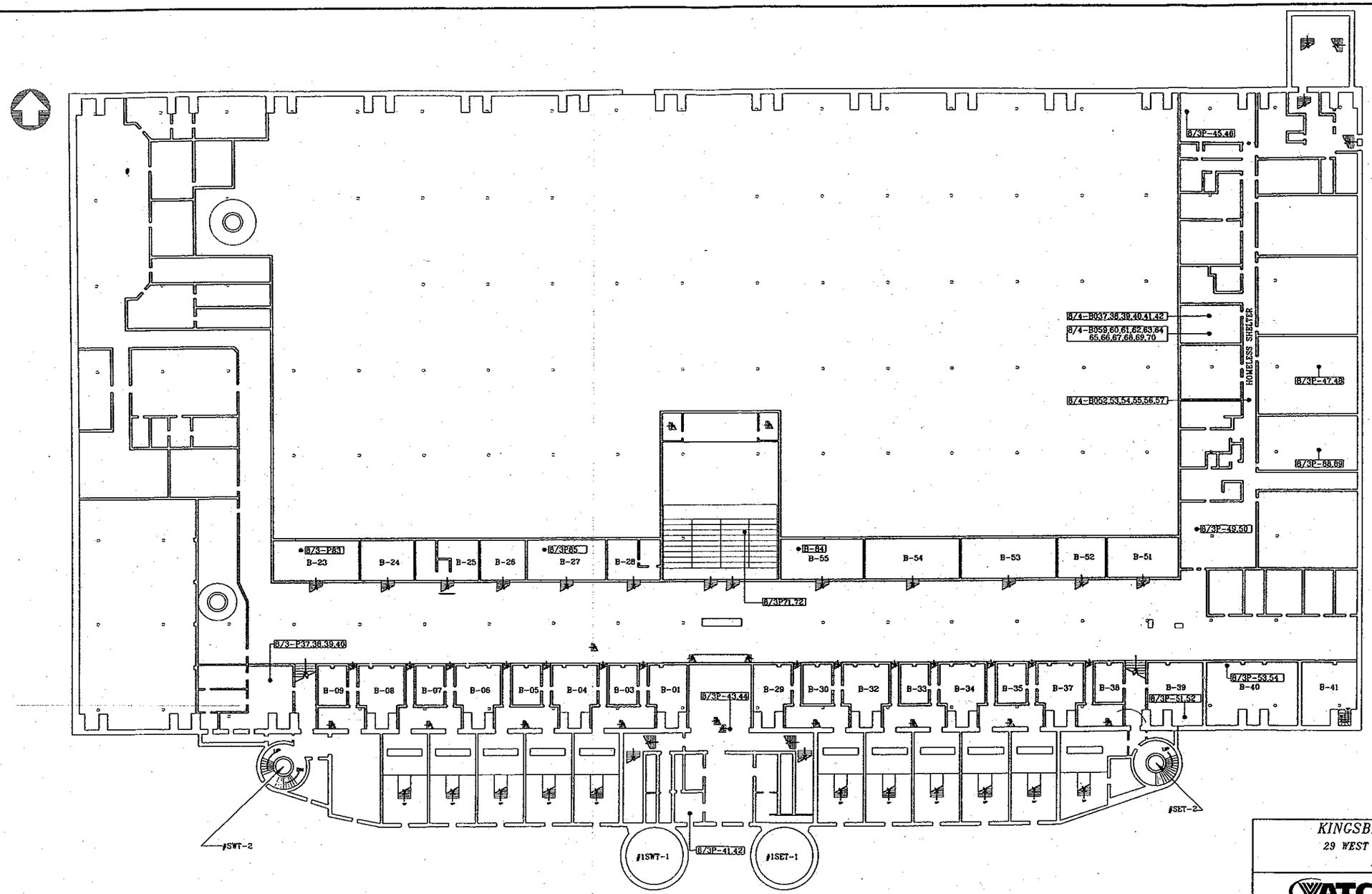
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FILE: M:\CAD94\75018.001\AB-3



BASEMENT MEZZANINE PLAN

KINGSBRIDGE ARMORY
29 WEST KINGSBRIDGE ROAD,
BRONX, NY

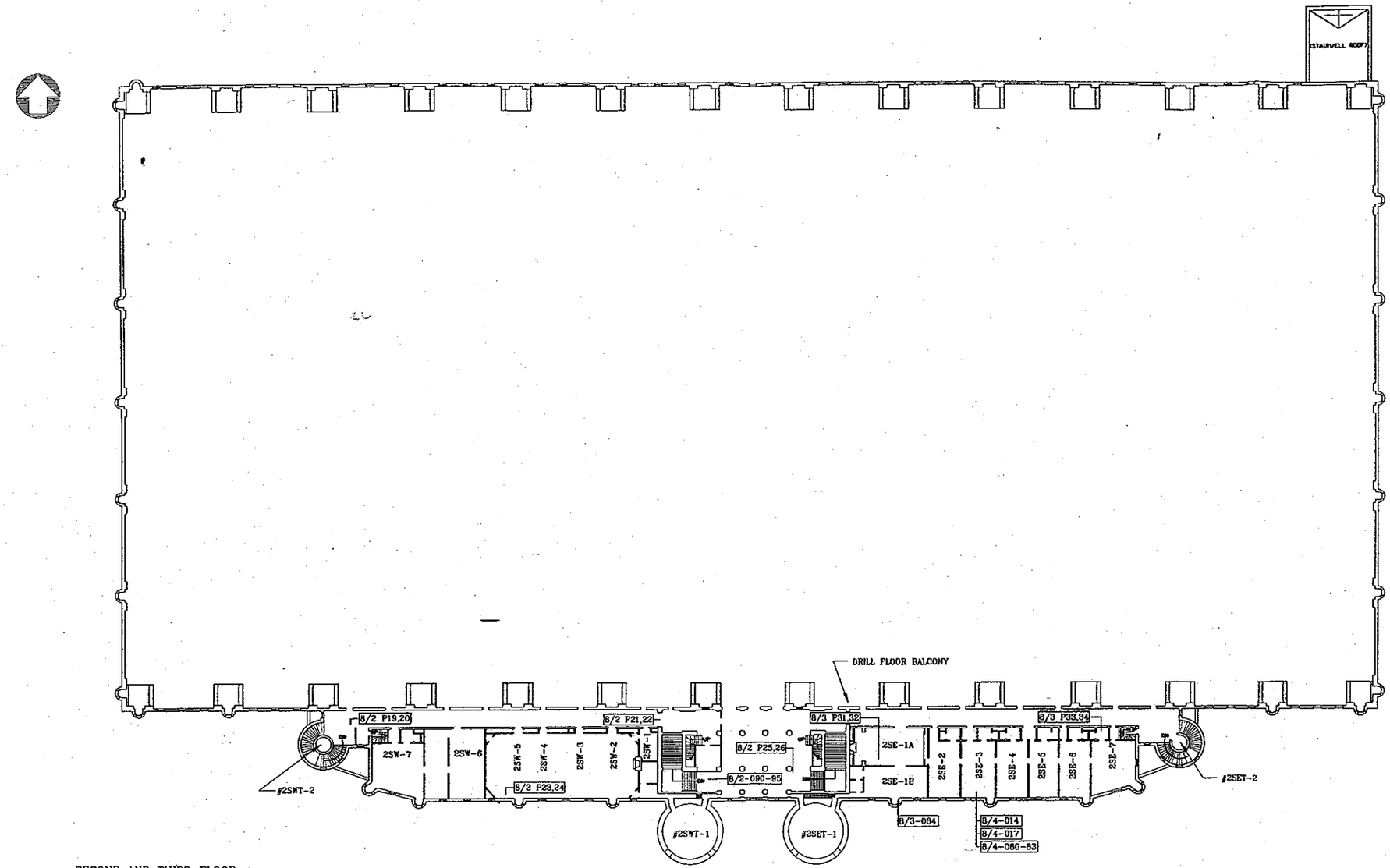
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BASEMENT MEZZANINE PLAN

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SECOND AND THIRD FLOOR

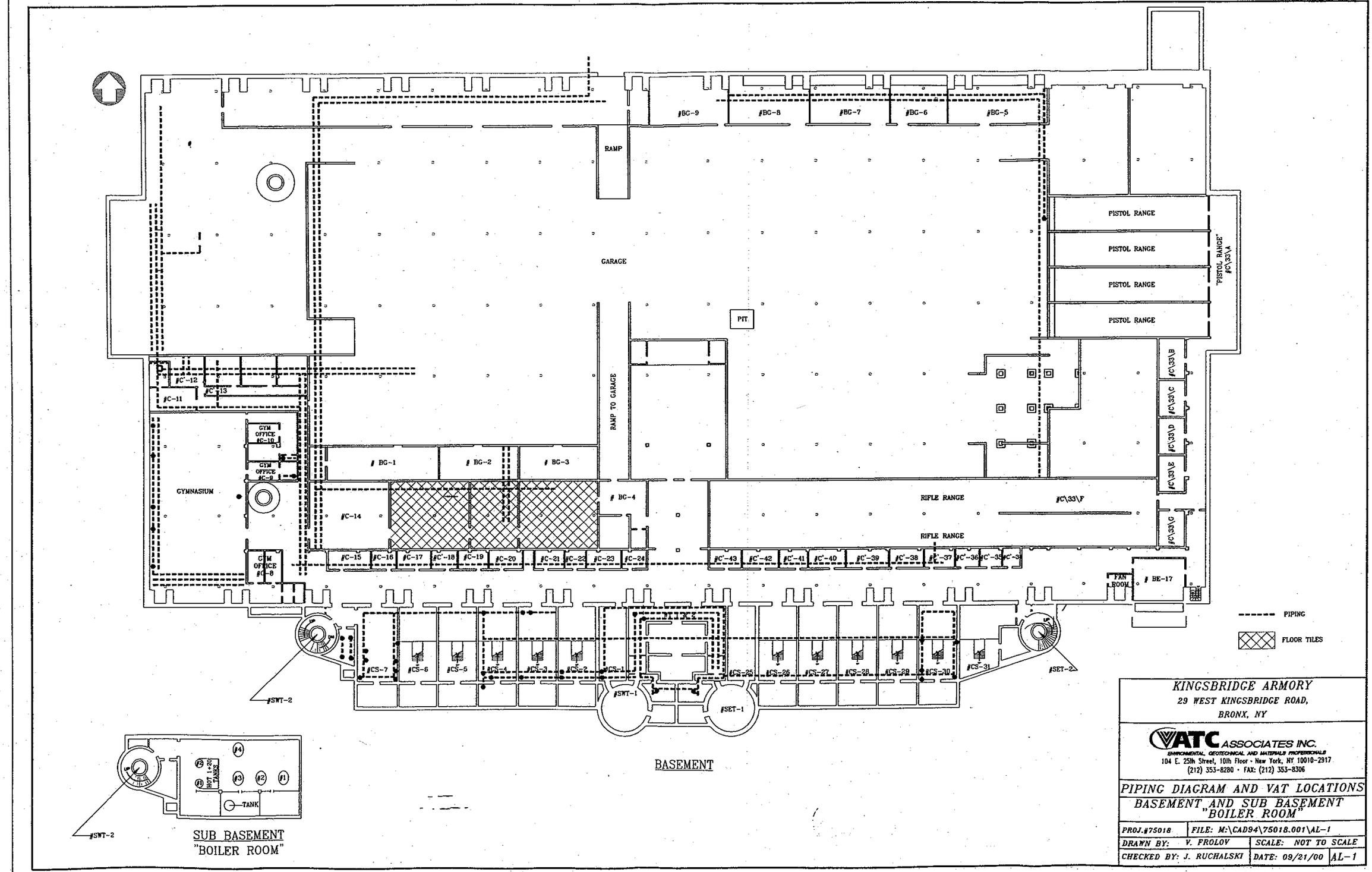
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ASBESTOS BULK SAMPLE LOCATIONS
SECOND AND THIRD FLOOR

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FILE: M:\CAD94\75018.001\AB-4



BASEMENT

SUB BASEMENT
"BOILER ROOM"

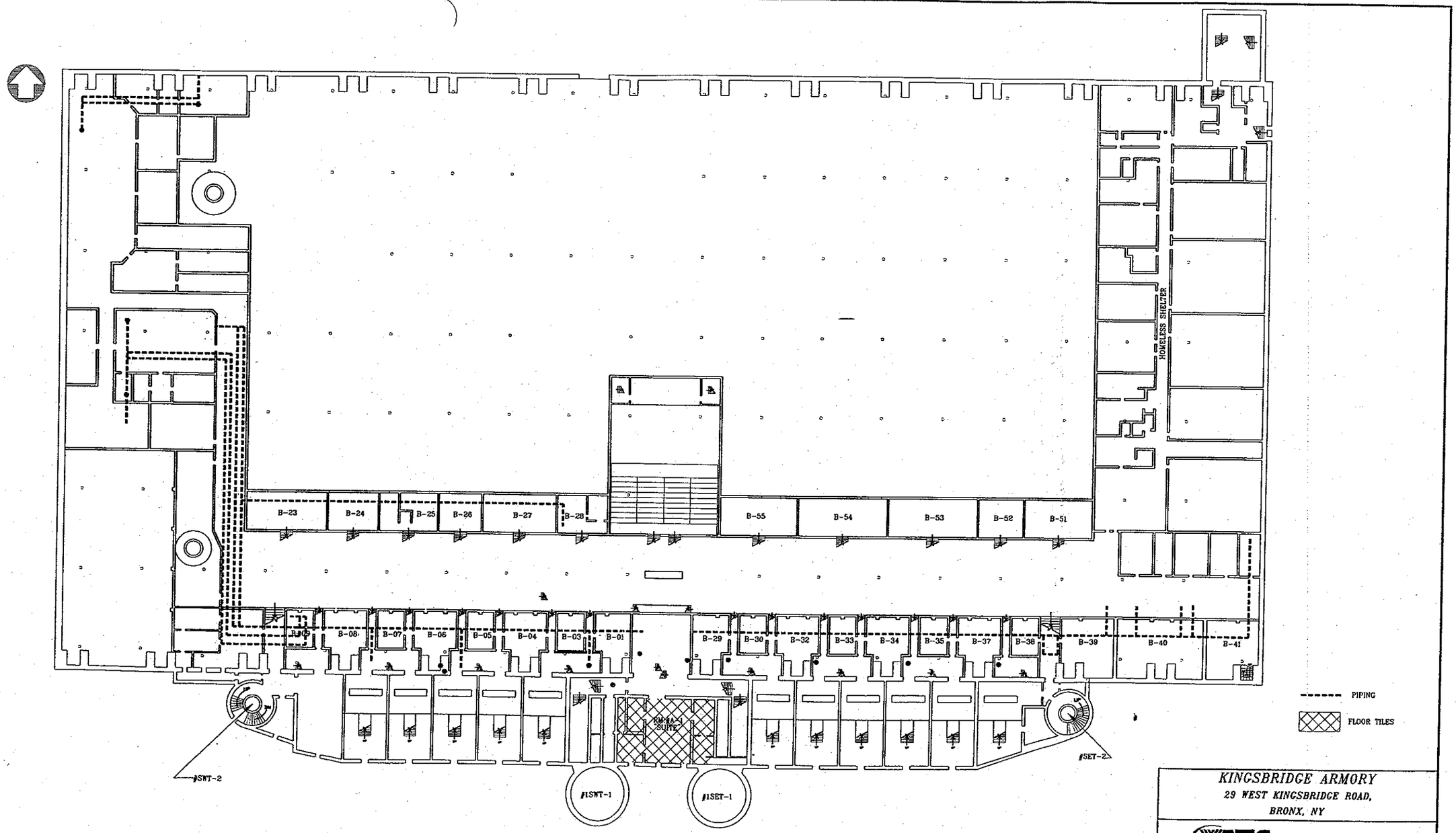
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PIPING DIAGRAM AND VAT LOCATIONS
BASEMENT AND SUB BASEMENT "BOILER ROOM"

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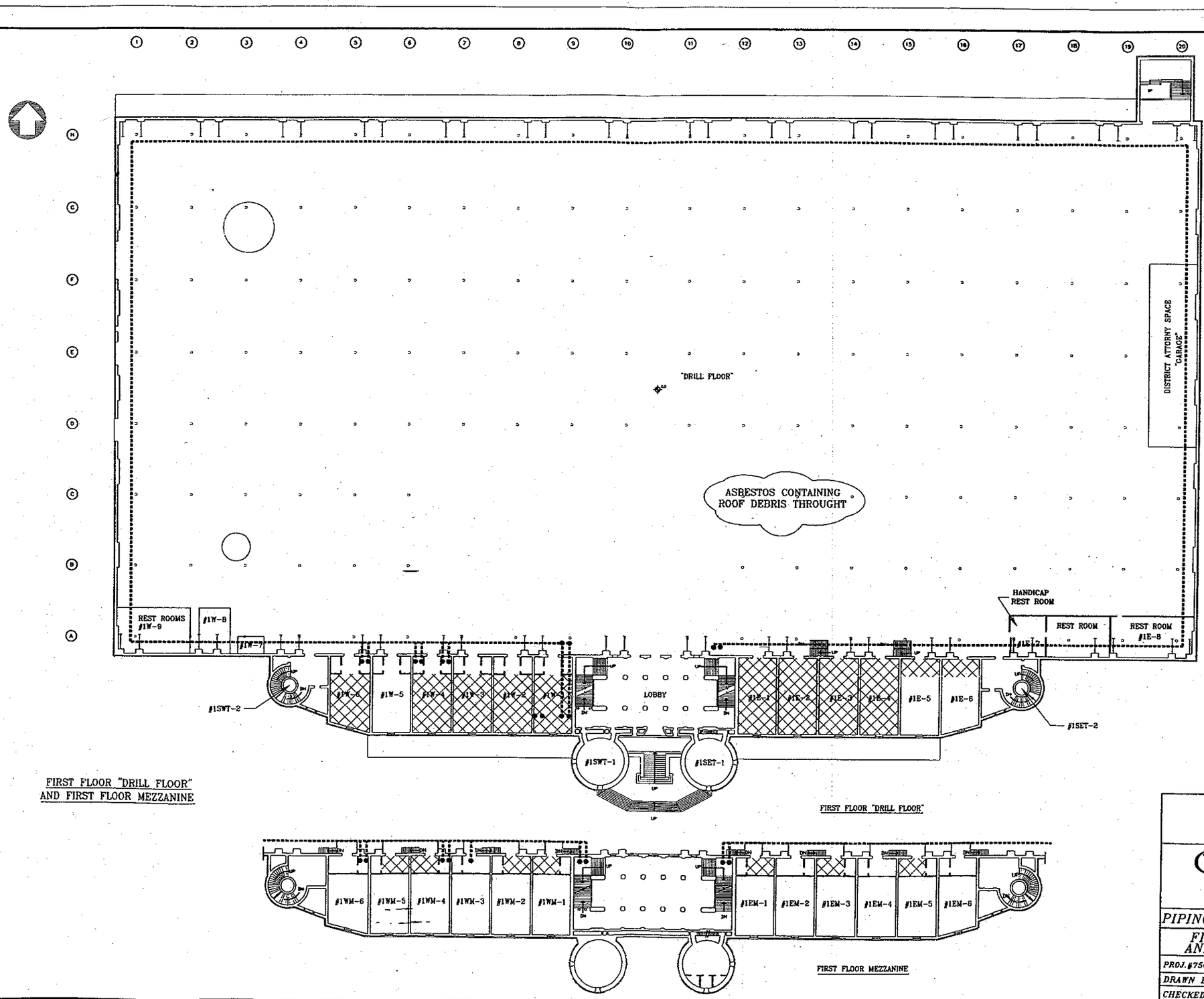


BASEMENT MEZZANINE PLAN

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PIPING DIAGRAM AND VAT LOCATIONS
BASEMENT MEZZANINE PLAN



FIRST FLOOR "DRILL FLOOR"
AND FIRST FLOOR MEZZANINE

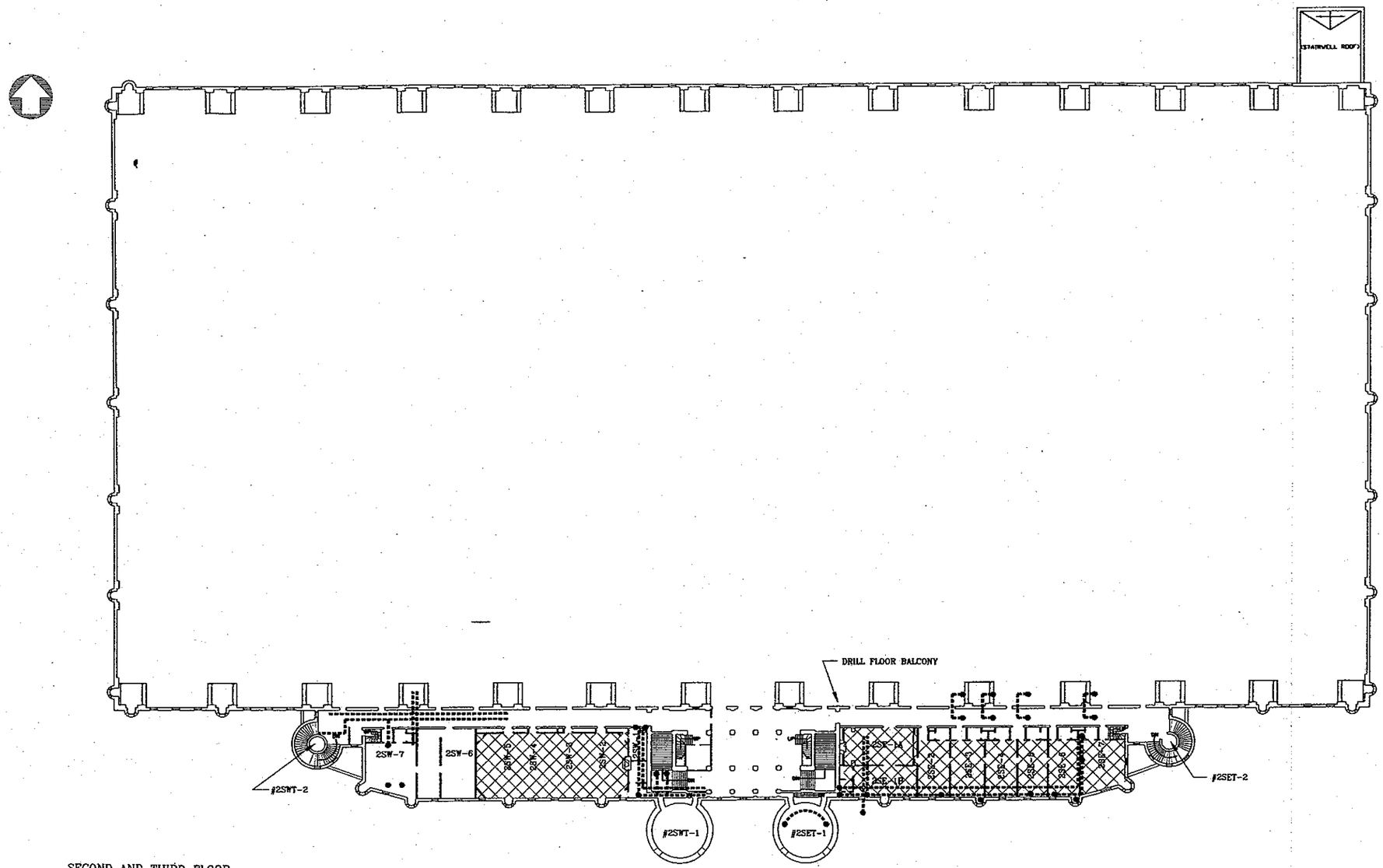
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PIPING DIAGRAM AND VAT LOCATIONS
FIRST FLOOR "DRILL FLOOR"
AND FIRST FLOOR MEZZANINE

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SECOND AND THIRD FLOOR

PIPING

FLOOR TILES

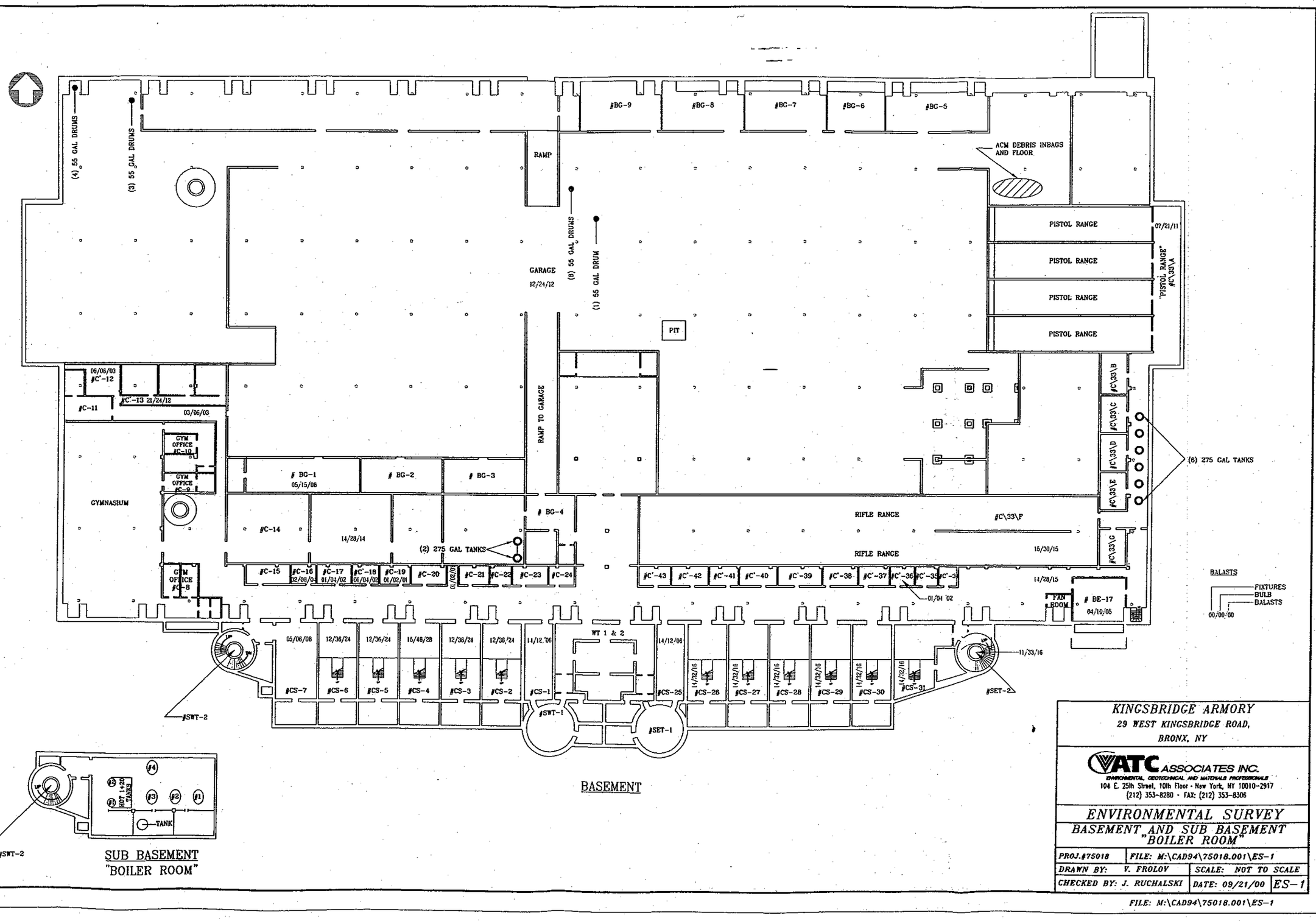
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PIPING DIAGRAM AND VAT LOCATIONS
SECOND AND THIRD FLOOR

PROJ.#75018	FILE: M:\CAD94\75018.001\AL-4	
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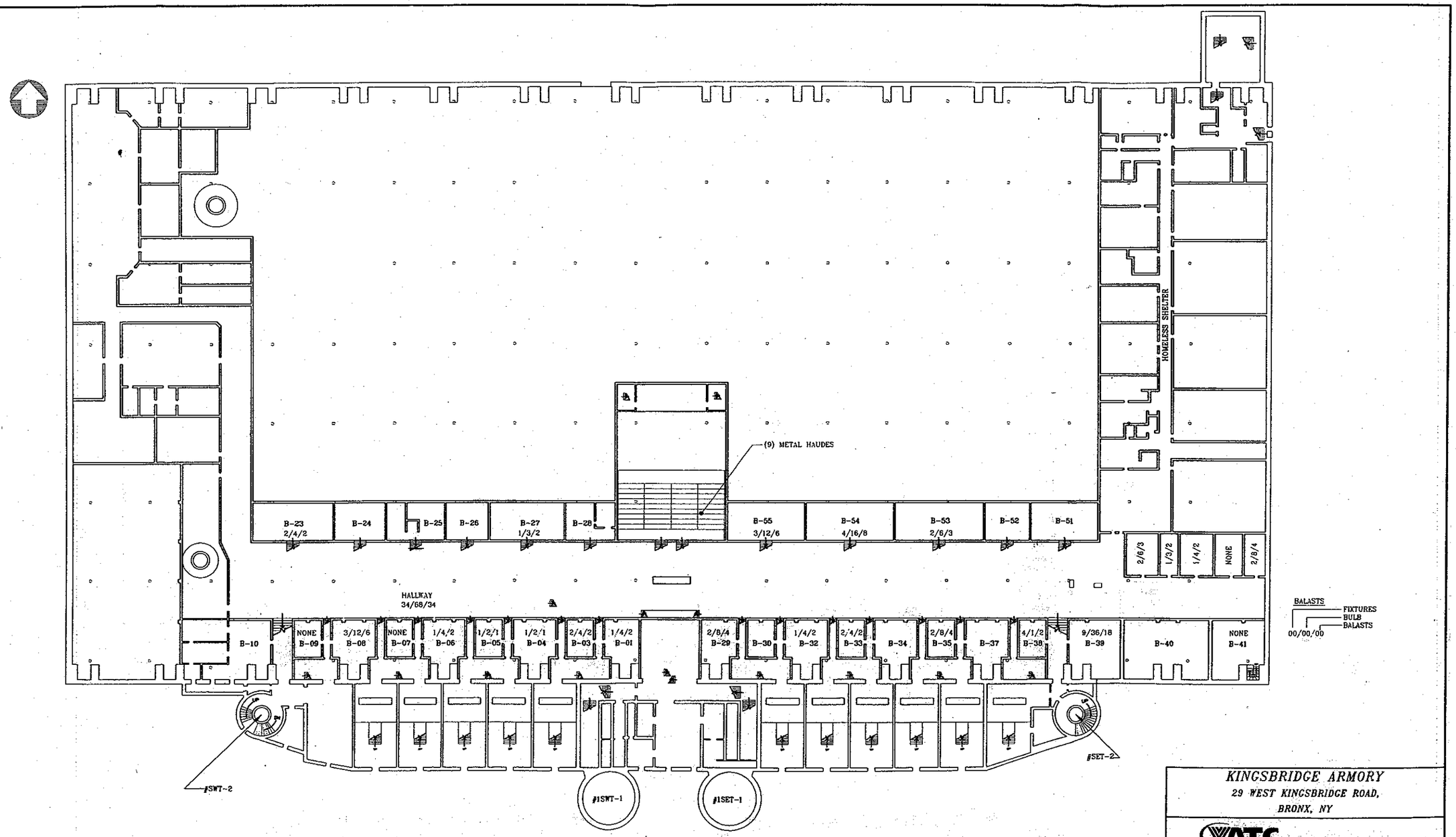
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ENVIRONMENTAL SURVEY
BASEMENT AND SUB BASEMENT "BOILER ROOM"

PROJ.#75018	FILE: M:\CAD94\75018.001\ES-1	
DRAWN BY: V. FROLOV	SCALE: NOT TO SCALE	
CHECKED BY: J. RUCHALSKI	DATE: 09/21/00	ES-1

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BASEMENT MEZZANINE PLAN

KINGSBRIDGE ARMORY
29 WEST KINGSBRIDGE ROAD,
BRONX, NY

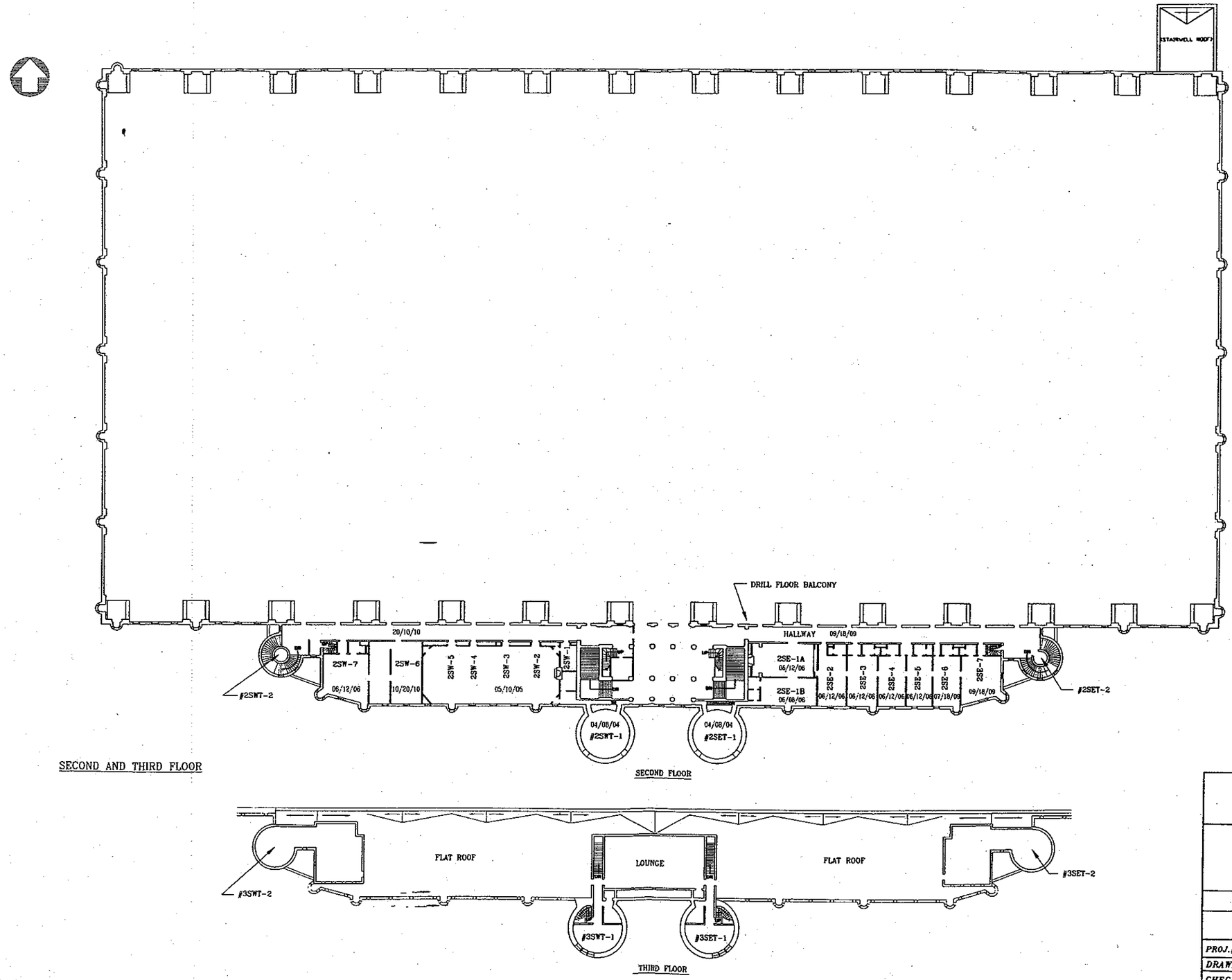
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ENVIRONMENTAL SURVEY

BASEMENT MEZZANINE PLAN

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SECOND AND THIRD FLOOR

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ENVIRONMENTAL SURVEY

SECOND AND THIRD FLOOR

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FILE: M:\CAD94\75018.001\ES-4

APPENDIX E:
XRF SURVEY DATA AND BULK SAMPLES

Table 1
Kingsbridge Armory
XRF Survey Data

Date	Shot #	Room	Component	Wall	Substrate	Color	Condition	XRF Reading	Classification	Sample ID
7/24	1	Calibrate						1.9		
7/24	2	Calibrate						1.7	Avg. 1.8	
7/24	3	Calibrate						1.8		
7/24	4	Boiler room	Wall	1	Concrete	White	Poor	>9.9	Positive	
7/24	5	Basement	Wall	2	Concrete	Grey	Poor	0.4		
7/24	6	Basement	Wall	3	Brick	Grey	Poor	7.1	Positive	
7/24	7	Basement	Wall	3	Concrete	White	Poor	0.5		
7/24	8	Basement	Wall	4	Concrete	Grey	Poor	8.5	Positive	
7/24	9	Basement	Column	6	Concrete	White	Poor	4.5	Positive	
7/24	10	Basement	Boiler units	6	Metal	Grey	Fair	0.0		
7/24	11	Basement	Hot water heater	1	Metal	Brown	Fair	0.4		
7/24	12	Basement	Horizontal duct	5	Metal	Grey	Fair	0.0		
7/24	13	Basement	Ceiling	5	Concrete	Grey	Poor	2.9	Positive	
7/24	14	Basement	Hand rail	2	Metal	Grey	Fair	0.4		
7/24	15	Basement	Stair tread	2	Metal	Grey	Poor	1.0	Positive	Negative
7/24	16	R#1	Wall	1	Concrete	White	Poor	-0.0		
7/24	17	R#1	Wall	3	Concrete	White	Poor	0.3		
7/24	18	R#1	Ceiling	5	Concrete	Grey	Poor	0.0		
7/24	19	R#2	Wall	1	Brick	White	Poor	0.1		
7/24	20	R#2	Wall	1	Concrete	White	Poor	0.2		
7/24	21	R#2	Wall	2	Concrete	White	Poor	-0.1		
7/24	22	R#2	Wall	3	Brick	Grey	Poor	>9.9	Positive	
7/24	23	R#2	Wall	4	Brick	White	Poor	-0.1		
7/24	24	R#2	Door	2	Metal	Grey	Poor	>9.9	Positive	

Tab. 1
Kingsbridge Armory
XRF Survey Data

Date	Shot #	Room	Component	Wall	Substrate	Color	Condition	XRF Reading	Classification	Sample ID
7/24	25	R#2	Control panel	3	Metal	Grey	Poor	1.0		Negative
7/24	26	R#3	Door	1	Metal	Green	Poor	5.3	Positive	
7/24	27	R#3	Wall	1	Brick	White	Poor	-0.1		
7/24	28	R#3	Wall	2	Brick	White	Poor	-0.2		
7/24	29	R#3	Wall	3	Concrete	White	Poor	-0.1		
7/24	30	R#3	Wall	4	Concrete	White	Poor	-0.1		
7/24	31	R#3	Control panel	2	Metal	Green	Poor	0.0		
7/24	32	R#3	Cabin	1	Metal	Grey	Poor	0.5		
7/24	33	Boiler room	Door	4	Metal	Grey	Poor	>9.9	Positive	
7/24	34	R#4	Door	1	Metal	Grey	Poor	5.6	Positive	
7/24	35	R#4	Wall	1	Concrete	Grey	Poor	0.3		
7/24	36	R#4	Wall	2	Concrete	Grey	Poor	0.1		
7/24	37	R#4	Wall	3	Concrete	Grey	Poor	0.3		
7/24	38	R#4	Wall	4	Concrete	Grey	Poor	0.2		
7/24	39	R#5	Roof	1	Metal	Grey	Poor	>9.9	Positive	
7/24	40	R#5	Wall	1	Brick	Grey	Poor	-0.2		
7/24	41	R#5	Wall	2	Brick	Grey	Poor	-0.1		
7/24	42	R#5	Wall	3	Concrete	Grey	Poor	0.1		
7/24	43	R#5	Wall	4	Concrete	Grey	Poor	0.4		
7/24	44	R#5	Horizontal pipe	6	Metal	Grey	Fair	1.4	Positive	
7/24	45	R#5	Pipe riser	6	Metal	Grey	Fair	0.7		
7/24	46	R#5	Gas booster	6	Metal	Blue	Fair	-0.1		
7/24	47	R#6	Door	1	Metal	Grey	Poor	>9.9	Positive	
7/24	48	R#6	Wall	1	Concrete	Grey	Poor	-0.0		

Table 1
Kingsbridge Armory
XRF Survey Data

Date	Shot #	Room	Component	Wall	Substrate	Color	Condition	XRF Reading	Classification	Sample ID
7/24	49	R#6	Wall	2	Concrete	Grey	Poor	0.0		
7/24	50	R#6	Wall	3	Concrete	White	Poor	-0.2		
7/24	51	R#6	Wall	4	Concrete	Grey	Poor	-0.0		
7/24	52	R#6	Wall	1	Concrete	White	Poor	0.4		
7/24	53	R#6	Wall	2	Concrete	Grey	Poor	7.9	Positive	
7/24	54	R#6	Wall	3	Concrete	White	Poor	-0.1		
7/24	55	R#6	Wall	4	Concrete	Grey	Poor	>9.9	Positive	
7/24	56	R#6	Door	1	Metal	Grey	Poor	0.1		
7/24	57	R#6	Door case	1	Metal	Grey	Poor	-0.1		
7/24	58	Staircase	Wall	2	Brick	White	Fair	3.6	Positive	
7/24	59	Staircase	Wall	3	Brick	Grey	Fair	>9.9	Positive	
7/24	60	Staircase	Wall	4	Brick	Grey	Fair	2.0	Positive	
7/24	61	Staircase	Stair tread	6	Concrete	Grey	Poor	0.0		
7/24	62	Staircase	Stair riser	6	Concrete	Grey	Poor	0.1		
7/24	63	Staircase	Stringer	6	Concrete	Grey	Poor	-0.2		
7/24	64	Staircase	Hand rail	6	Brick	Grey	Poor	3.0	Positive	
7/24	65	Corridor	Wall	1	Brick	White	Poor	6.7	Positive	
7/24	66	Mezzanine	Wall	2	Brick	Grey	Poor	7.3	Positive	
7/24	67	Basement	Wall	3	Brick	White	Poor	0.2	Positive	
7/24	68	Basement	Wall	3	Concrete	Grey	Poor	0.2		
7/24	69	Basement	Wall	4	Brick	White	Poor	5.2	Positive	
7/24	70	R#1	Door	1	Wood	Green	Poor	0.5		
7/24	71	SWTC	Door case	1	Wood	Green	Poor	0.3		
7/24	72	SWTC	Door case	1	Brick	Blue	Poor	-0.0		

Table 1
Kingsbridge Armory
XRF Survey Data

Date	Shot #	Room	Component	Wall	Substrate	Color	Condition	XRF Reading	Classification	Sample ID
7/24	73	SWTC	Door case	2	Brick	Blue	Poor	0.1		
7/24	74	SWTC	Door case	3	Concrete	Blue	Poor	1.5	Positive	
7/24	75	R#1	Wall	4	Brick	Blue	Poor	0.5		
7/24	76	SWTC	Pipe riser	2	Metal	Blue	Poor	0.3		
7/24	77	R#2	Door	1	Metal	Blue	Poor	1.4	Positive	
7/24	78	SWTC	Door case	1	Metal	Blue	Poor	1.7	Positive	
7/24	79	SWTC	Wall	1	Brick	Blue	Poor	>9.9	Positive	
7/24	80	SWTC	Wall	2	Brick	Blue	Poor	>9.9	Positive	
7/24	81	SWTC	Wall	3	Brick	Blue	Poor	>9.9	Positive	
7/24	82	SWTC	Wall	4	Brick	Blue	Poor	>9.9	Positive	
7/24	83	SWTC	Pipe riser	4	Metal	Blue	Poor	2.4	Positive	
7/24	84	SWTC	Window sash	3	Wood	Blue	Poor	>9.9	Positive	
7/24	85	SWTC	Window sash	3	Wood	Blue	Poor	>9.9	Positive	
7/24	86	SWTC	Window case	3	Wood	Blue	Poor	>9.9	Positive	
7/24	87	SWTC	Window apron	3	Wood	Blue	Poor	>9.9	Positive	
7/24	88	Corridor	Radiator	1	Metal	White	Poor	0.4		
7/24	89	R#4	Door 1	1	Metal	Grey	Poor	1.0	Positive	
7/24	90	C16	Door case	1	Metal	Grey	Poor	1.9	Positive	
7/24	91	C16	Door 2	1	Metal	Grey	Poor	-0.1		
7/24	92	C16	Wall	1	Concrete	Blue	Poor	0.1		
7/24	93	C16	Wall	2	Concrete	Blue	Poor	-0.4		
7/24	94	C16	Wall	3	Brick	Blue	Poor	0.5		
7/24	95	C16	Wall	4	Concrete	Blue	Poor	0.3		
7/24	96	C16	Beam	3	Metal	Blue	Poor	>9.9	Positive	

Table 1
Kingsbridge Armory
XRF Survey Data

Date	Shot #	Room	Component	Wall	Substrate	Color	Condition	XRF Reading	Classification	Sample ID
7/24	97	R#5	Door 1	1	Metal	Grey	Poor	4.2	Positive	
7/24	98	C17	Door case	1	Metal	Grey	Poor	-0.2		
7/24	99	C17	Door 2	1	Metal	Grey	Poor	-0.0		
7/24	100	C17	Wall	1	Concrete	White	Poor	-0.1		
7/24	101	C17	Wall	2	Concrete	Grey	Poor	0.1		
7/24	102	C17	Wall	3	Brick	White	Poor	0.3		
7/24	103	C17	Wall	4	Brick	Grey	Poor	0.1		
7/24	104	C17	Beam	3	Metal	White	Poor	>9.9	Positive	
7/24	105	C17	Pipe riser	5	Metal	White	Poor	9.1	Positive	
7/24	106	R#6	Door	1	Metal	Black	Poor	2.2	Positive	
7/24	107	C18	Door case	1	Metal	Grey	Poor	-0.1		
7/24	108	C18	Door case	1	Metal	Grey	Poor	0.3		
7/24	109	C18	Wall	1	Concrete	Grey	Poor	-0.3		
7/24	110	C18	Wall	2	Concrete	White	Poor	0.3		
7/24	111	C18	Wall	3	Brick	Grey	Poor	-0.1		
7/24	112	R#6	Wall	4	Concrete	Grey	Poor	-0.0		
7/24	113	C18	Beam	3	Metal	Grey	Poor	>9.9	Positive	
7/24	114	C18	Pipe	5	Metal	Grey	Poor	7.1	Positive	
7/24	115	C18	Frame	4	Wood	Grey	Poor	0.1		
7/24	116	R#7	Door	1	Metal	Grey	Poor	1.4	Positive	
7/24	117	C19	Door case	1	Metal	Grey	Poor	2.3	Positive	
7/24	118	C19	Door	1	Metal	Grey	Poor	0.0		
7/24	119	C19	Wall	1	Concrete	Grey	Poor	3.7	Positive	
7/24	120	C19	Wall	2	Concrete	Grey	Poor	6.0	Positive	

Table 1
Kingsbridge Armory
XRF Survey Data

Date	Shot #	Room	Component	Wall	Substrate	Color	Condition	XRF Reading	Classification	Sample ID
7/24	121	C19	Wall	3	Brick	Grey	Poor	5.1	Positive	
7/24	122	C19	Wall	4	Concrete	Grey	Poor	1.4	Positive	
7/24	123	C19	Beam	3	Metal	Grey	Poor	>9.9	Positive	
7/24	124	C19	Horizontal pipe	5	Metal	Grey	Poor	9.4	Positive	
7/24	125	C19	Shelf	3	Wood	Grey	Poor	-0.1		
7/24	126	C19	Shelf sup.	1	Wood	Grey	Poor	0.3		
7/24	127	Alarm	Gate	1	Metal	Grey	Poor	-0.1		
7/24	128	Control room	Wall	2	Concrete	Grey	Fair	+0.2		
7/24	129	Control room	Wall	3	Brick	Grey	Poor	0.3		
7/24	130	Control room	Wall	4	Concrete	Grey	Fair	-0.0		
7/24	131	Control room	Pipe horizontal	5	Metal	Grey	Poor	>9.9	Positive	
7/24	132	Control room	Control panel	4	Metal	Red	Fair	0.0		
7/24	133	Control room	Beam	3	Metal	White	Poor	>0.0	Positive	
7/24	134	R#8	Door	1	Metal	Grey	Poor	1.4	Positive	
7/24	135	C21	Door case	1	Metal	Grey	Poor	2.4	Positive	
7/24	136	C21	Wall	1	Concrete	White	Poor	2.6	Positive	
7/24	137	C21	Wall	2	Concrete	Grey	Poor	2.4	Positive	
7/24	138	C21	Wall	3	Brick	White	Poor	5.7	Positive	
7/24	139	C21	Wall	4	Concrete	Grey	Poor	0.0		
7/24	140	C21	Beam	3	Metal	Grey	Poor	>9.9	Positive	
7/24	141	C21	Pillar	3	Brick	White	Poor	3.8	Positive	
7/24	142	C21	Pipe horizontal	5	Metal	Grey	Poor	>9.9	Positive	
7/24	143	C21	Floor	6	Concrete	Grey	Poor	0.5		
7/24	144	R#	Door 1	1	Metal	Grey	Poor	1.4	Positive	

Table 1
Kingsbridge Armory
XRF Survey Data

Date	Shot #	Room	Component	Wall	Substrate	Color	Condition	XRF Reading	Classification	Sample ID
7/24	145	C41	Door case	1	Metal	Grey	Poor	3.1	Positive	
7/24	146	C41	Wall	1	Concrete	Grey	Poor	0.4		
7/24	147	C41	Wall	2	Concrete	Grey	Poor	-0.1		
7/24	148	C41	Wall	3	Brick	Grey	Poor	-0.0		
7/24	149	RC41	Wall	4	Concrete	Grey	Poor	-0.1		
7/24	150	RC41	Beam	3	Metal	Grey	Poor	>9.9	Positive	
7/24	151	RC41	Pillar	3	Brick	Grey	Poor	0.1		
7/24	152	RC41	Horizontal pipe	5	Metal	Grey	Poor	>9.9	Positive	
7/24	153	RC41	Door 2	1	Metal	Grey	Poor	-0.1		
7/24	154	RC33E	Door	1	Metal	Grey	Fair	1.4	Positive	
7/24	155	RC33E	Door case	1	Metal	Grey	Fair	2.5	Positive	
7/24	156	RC33E	Wall	3	Brick	White	Poor	0.3		
7/24	157	RC33E	Pipe riser	3	Metal	White	Poor	1.4	Positive	
7/24	158	RC33E	Beam	5	Metal	Beige	Fair	>9.9	Positive	
7/24	159	RC33E	Ceiling	6	Concrete	White	Fair	-0.0		
7/25	1	Calibrate						1.9		
7/25	2	Calibrate						1.7	Avg. 1.8	
7/25	3	Calibrate						1.7		
7/25	4	Office 1	Door	1	Metal	Grey	Poor	0.0		
7/25	5	Basement	Door case	1	Metal	Grey	Poor	-0.1		
7/25	6	Basement	Wall	1	Plaster	Blue	Poor	>9.9	Positive	
7/25	7	Basement	Wall	2	Plaster	Blue	Poor	>9.9	Positive	
7/25	8	Basement	Wall	3	Plaster	Beige	Poor	>9.9	Positive	
7/25	9	Basement	Wall	4	Plaster	Beige	Poor	>9.9	Positive	

Table 1
Kingsbridge Armory
XRF Survey Data

Date	Shot #	Room	Component	Wall	Substrate	Color	Condition	XRF Reading	Classification	Sample ID
7/25	10	Basement	Ceiling	5	Plaster	Beige	Poor	>9.9	Positive	
7/25	11	Basement	Partition	2	Wood	Blue	Poor	2.5	Positive	
7/25	12	Basement	Baseboard	2	Wood	Blue	Poor	0.4		
7/25	13	Basement	Radiator	2	Metal	Silver	Poor	0.1		
7/25	14	Basement	Radiator cover	2	Metal	Blue	Poor	0.5		
7/25	15	Basement	Window sill	2	Wood	Blue	Poor	2.4	Positive	
7/25	16	Basement	Window case	2	Wood	Blue	Poor	2.4	Positive	
7/25	17	Basement	Window apron	2	Wood	Blue	Poor	1.6	Positive	
7/25	18	Basement	Pipe	5	Metal	Beige	Poor	>9.9	Positive	
7/25	19	Basement	Partition	3	Wood	White	Poor	1.5	Positive	
7/25	20	Bay area	Wall	1	Brick	Beige	Poor	0.3		
7/25	21	By shelter	Wall	2	Brick	Grey	Poor	8.3	Positive	
7/25	22	By shelter	Wall	3	Brick	Beige	Poor	-0.0		
7/25	23	By shelter	Wall	4	Brick	White	Poor	>9.9	Positive	
7/25	24	By shelter	I-beams	6	Metal	White	Poor	>9.9	Positive	
7/25	25	By shelter	I-beams	6	Metal	Grey	Poor	>9.9	Positive	
7/25	26	By shelter	I-beams	6	Metal	White	Poor	>9.9	Positive	
7/25	27	By shelter	Stair tread	6	Concrete	Grey	Poor	0.0		
7/25	28	By shelter	Stair riser	6	Concrete	Grey	Poor	0.4		
7/25	29	By shelter	Stair tread	6	Wood	Grey	Poor	-0.0		
7/25	30	By shelter	Stair riser	6	Wood	Grey	Poor	0.3		
7/25	31	By shelter	Stair stringer	6	Wood	Grey	Poor	0.2		
7/25	32	By shelter	Column	6	Brick/Concrete	Grey	Poor	>9.9	Positive	
7/25	33	RB7	Door	1	Brick/Concrete	Grey	Poor	4.4	Positive	

Table 1
Kingsbridge Armory
XRF Survey Data

Date	Shot #	Room	Component	Wall	Substrate	Color	Condition	XRF Reading	Classification	Sample ID
7/25	34	RB7	Door case	1	Brick/Concrete	Grey	Poor	5.1	Positive	
7/25	35	RB7	Wall	1	Brick	Grey	Poor	2.6	Positive	
7/25	36	RB7	Wall	2	Concrete	Grey	Poor	9.7	Positive	
7/25	37	RB7	Wall	2	Wood	Grey	Poor	0.0		
7/25	38	RB7	Wall	3	Brick	White	Poor	3.0	Positive	
7/25	39	RB7	Wall	4	Brick	Grey	Poor	4.1	Positive	
7/25	40	RB7	Pillar	3	Brick	Grey	Poor	3.1	Positive	
7/25	41	RB7	Beam	5	Metal	Grey	Poor	7.5	Positive	
7/25	42	RB7	Shelf	1	Wood	Grey	Poor	0.1		
7/25	43	RB7	Shelf support	1	Wood	Grey	Poor	2.8	Positive	
7/25	44	RB7	Floor	6	Concrete	Grey	Poor	1.0	Positive	
7/25	45	RB55	Door	1	Metal	Green	Poor	0.2		
7/25	46	RB55	Door case	1	Metal	Green	Poor	3.7	Positive	
7/25	47	RB55	Wall	1	Brick	White	Poor	-0.0		
7/25	48	RB55	Wall	2	Plaster	Grey	Poor	-0.1		
7/25	49	RB55	Wall	3	Plaster	Grey	Poor	-0.1		
7/25	50	RB55	Wall	4	Wood	Grey	Poor	2.3	Positive	
7/25	51	RB55	Beam	5	Metal	White	Poor	4.3	Positive	
7/25	52	RB55	Shelf	4	Wood	Grey	Poor	0.4		
7/25	53	RB55	Shelf	4	Wood	Grey	Poor	0.6		
7/25	54	B32	Door	1	Metal	Grey	Poor	4.5	Positive	
7/25	55	B32	Door case	1	Metal	Grey	Poor	5.5	Positive	
7/25	56	B32	Wall	1	Brick	Grey	Poor	0.7		
7/25	57	B32	Wall	2	Brick	Grey	Poor	3.7	Positive	

Table 1
Kingsbridge Armory
XRF Survey Data

Date	Shot #	Room	Component	Wall	Substrate	Color	Condition	XRF Reading	Classification	Sample ID
7/25	58	B32	Wall	3	Brick	Grey	Poor	-0.0		
7/25	59	B32	Wall	4	Brick	Grey	Poor	4.7	Positive	
7/25	60	B32	Beam	5	Brick	Grey	Poor	6.2	Positive	
7/25	61	B32	Shelf	3	Wood	Grey	Poor	-0.1		
7/25	62	B32	Shelf support	3	Wood	Grey	Poor	0.0		
7/25	63	Balcony	Door	1	Wood	Grey	Poor	0.0		
7/25	64	Lecture hall	Door case	1	Metal	Grey	Poor	0.6		
7/25	65	Lecture hall	Wall	1	Concrete	Grey	Poor	-0.1		
7/25	66	Lecture hall	Wall	2	Concrete	Grey	Poor	0.3		
7/25	67	Lecture hall	Wall	4	Concrete	Grey	Poor	-0.1		
7/25	68	Lecture hall	Stair tread	1	Concrete	Grey	Poor	0.3		
7/25	69	Lecture hall	Stair riser	1	Concrete	Grey	Poor	-0.1		
7/25	70	Lecture hall	Hand rail	2	Metal	Grey	Poor	8.7	Positive	
7/25	71	Lecture hall	Floor	6	Concrete	Grey	Poor	-0.3		
7/25	72	RB13	Door	1	Metal	Green	Poor	0.4		
7/25	73	RB13	Door case	1	Metal	Green	Poor	0.3		
7/25	74	RB13	Wall	1	Brick	White	Poor	1.7	Positive	
7/25	75	RB13	Wall	2	Brick	Green	Poor	2.8	Positive	
7/25	76	RB13	Wall	3	Brick	Green	Poor	3.1	Positive	
7/25	77	RB13	Wall	4	Brick	Green	Poor	2.3	Positive	
7/25	78	RB13	Pipe riser	1	Metal	Green	Poor	2.1	Positive	
7/25	79	RB13	Radiator	3	Metal	Green	Poor	2.3	Positive	
7/25	80	RB13	Floor	6	Concrete	Green	Poor	1.7	Positive	
7/25	81	RB13	Cabinet door	3	Wood	Green	Poor	0.2		

Table 1
Kingsbridge Armory
XRF Survey Data

Date	Shot #	Room	Component	Wall	Substrate	Color	Condition	XRF Reading	Classification	Sample ID
7/25	82	RB13	Cabinet door case	3	Wood	Green	Poor	0.2		
7/25	83	RB17	Door	1	Metal	Green	Poor	0.5		
7/25	84	RB17	Door case	1	Metal	Green	Poor	2.1	Positive	
7/25	85	RB17	Wall	1	Brick	Green	Poor	-0.1		
7/25	86	RB17	Wall	2	Brick	White	Poor	3.5	Positive	
7/25	87	RB17	Wall	3	Brick	Green	Poor	0.1		
7/25	88	RB17	Wall	4	Brick	White	Poor	0.2		
7/25	89	RB17	Column I-beam	6	Metal	White	Poor	>9.9	Positive	
7/25	90	RB17	Window sill	4	Wood	Green	Poor	0.1		
7/25	91	RB17	Window case	1	Wood	Green	Poor	0.1		
7/25	92	RB17	Window apron	1	Wood	Green	Poor	-0.0		
7/25	93	RB17	Window sash	1	Wood	Green	Poor	0.0		
7/25	94	RB17	Radiator	1	Metal	Silver	Poor	4.8	Positive	
7/25	95	RB17	Pipe riser	6	Metal	Grey	Poor	0.4		
7/25	96	RB17	Floor	6	Concrete	Grey	Poor	0.3		
7/25	97	RB20	Door	1	Metal	Grey	Poor	0.4		
7/25	98	RB20	Door case	1	Metal	Grey	Poor	>9.9	Positive	
7/25	99	RB20	Wall	1	Brick	White	Poor	>9.9	Positive	
7/25	100	RB20	Wall	2	Brick	Grey	Poor	>9.9	Positive	
7/25	101	RB20	Wall	3	Brick	White	Poor	>9.9	Positive	
7/25	102	RB20	Wall	4	Brick	Grey	Poor	>9.9	Positive	
7/25	103	RB20	I-beam	6	Metal	Grey	Poor	>9.9	Positive	
7/25	104	RB20	Shelf	2	Wood	Grey	Poor	0.2		
7/25	105	RB20	Shelf support	2	Wood	Grey	Poor	0.4		

Table
Kingsbridge Armory
XRF Survey Data

Date	Shot #	Room	Component	Wall	Substrate	Color	Condition	XRF Reading	Classification	Sample ID
7/25	106	RB20	Floor	6	Concrete	Grey	Poor	0.5		
7/25	107	Bay #2	Wall	1	Plaster	Grey	Poor	0.0		
7/25	108	Bay #2	Wall	2	Brick	Grey	Poor	0.1		
7/25	109	Bay #2	Wall	3	Concrete	Grey	Poor	0.2		
7/25	110	Bay #2	Wall	4	Plaster	Grey	Poor	0.2		
7/25	111	Bay #2	I-beam	6	Metal	Grey	Poor	-0.1		
7/25	112	Bay #2	Pipe riser	3	Metal	Grey	Poor	2.9	Positive	
7/25	113	Bay #2	Radiator	3	Metal	Grey	Poor	0.1		
7/25	114	Gym	Door	1	Metal	Grey	Poor	2.1	Positive	
7/25	115	Gym	Door case	1	Metal	Grey	Poor	>9.9	Positive	
7/25	116	Gym	Wall	1	Brick	White	Poor	>9.9	Positive	
7/25	117	Gym	Wall	2	Brick	White	Poor	>9.9	Positive	
7/25	118	Gym	Wall	3	Concrete	White	Poor	>9.9	Positive	
7/25	119	Gym	Wall	4	Brick	White	Poor	>9.9	Positive	
7/25	120	Gym	I-beam	6	Metal	White	Poor	>9.9	Positive	
7/25	121	Gym	Pipe riser	3	Metal	White	Poor	0.6		
7/25	122	Gym	Hand rail	1	Metal	White	Poor	1.9	Positive	
7/25	123	Gym	Stair tread	1	Metal	White	Poor	3.5	Positive	
7/25	124	Gym	Newel post	1	Metal	White	Poor	>9.9	Positive	
7/25	125	Gym	Stringer	1	Metal	White	Poor	>9.9	Positive	
7/25	126	RB12	Door	1	Metal	Beige	Poor	0.2		
7/25	127	RB12	Door case	1	Metal	Beige	Poor	2.3	Positive	
7/25	128	RB12	Wall	1	Brick	White	Poor	>9.9	Positive	
7/25	129	RB12	Wall	2	Brick	White	Poor	0.2		

Table 1
Kingsbridge Armory
XRF Survey Data

Date	Shot #	Room	Component	Wall	Substrate	Color	Condition	XRF Reading	Classification	Sample ID
7/25	130	RB12	Wall	4	Brick	White	Poor	>9.9	Positive	
7/25	131	RB12	Radiator	1	Metal	White	Poor	0.2		
7/25	132	RB12	Grate column	2	Concrete	White	Poor	0.0		
7/25	133	RB12	Guard rail	3	Metal	White	Poor	3.9	Positive	
7/25	134	RB12	Found floor	6	Concrete	Grey	Poor	0.5		
7/25	135	Gym	Door	1	Wood	Brown	Poor	0.3		
7/25	136	Office	Door case	1	Wood	Brown	Poor	0.1		
7/25	137	Area #2	Wall	1	Plaster	Blue	Poor	>9.9	Positive	
7/25	138	Area #2	Wall	2	Plaster	Blue	Poor	>9.9	Positive	
7/25	139	Area #2	Wall	3	Plaster	Blue	Poor	>9.9	Positive	
7/25	140	Area #2	Wall	4	Plaster	Blue	Poor	>9.9	Positive	
7/25	141	Area #2	Pipe riser	2	Plaster	White	Poor	>9.9	Positive	
7/25	142	Area #2	Pillar	2	Metal	Blue	Poor	>9.9	Positive	
7/25	143	Area #2	Window case	4	Wood	Red	Poor	7.8	Positive	
7/25	144	Area #2	Window apron	4	Wood	Red	Poor	6.5	Positive	
7/25	145	Gym	Wall	1	Brick	White	Poor	0.3		
7/25	146	Foyer area	Wall	2	Brick	Grey	Poor	-0.0		
7/25	147	Foyer area	Wall	3	Brick	White	Poor	-0.1		
7/25	148	Foyer area	Wall	4	Brick	Grey	Poor	-0.0		
7/26	149	Gym	Greate column	2	Concrete	Grey	Poor	>9.9	Positive	
7/26	150	Foyer	I-beam	6	Metal	White	Poor	>9.9	Positive	
7/26	151	Firing range	Door	1	Metal	Beige	Poor	0.3		
7/26	152	Firing range	Door case	1	Metal	Beige	Poor	3.3	Positive	
7/26	153	Firing range	Wall	1	Brick	White	Poor	>9.9	Positive	

Table 1
Kingsbridge Armory
XRF Survey Data

Date	Shot #	Room	Component	Wall	Substrate	Color	Condition	XRF Reading	Classification	Sample ID
7/26	154	Firing range	Wall	2	Brick	Brown	Poor	0.1	Negative	
7/26	155	Firing range	Wall	3	Metal	White	Poor	1.8	Positive	
7/26	156	Firing range	Wall	4	Brick	Brown	Poor	-0.0		
7/26	157	Firing range	Duct	5	Metal	Beige	Poor	0.2		
7/26	158	Firing range	Horizontal pipe	5	Metal	Beige	Poor	-0.2		
7/26	159	Firing range	Partition wall	6	Brick	Beige	Poor	0.2		
7/26	160	Firing range	I-beam	6	Metal	Beige	Poor	-0.1		
7/26	161	Firing range	Beam	5	Metal	Beige	Poor	1.5	Positive	
7/26	162	Firing range	Gate	2	Metal	Grey	Poor	-0.1		
7/26	163	Firing range	Compressor	2	Metal	Green	Poor	0.6		
7/26	164	Firing range	Ceiling	5	Concrete	Beige	Fair	-0.0		
7/26	165	Calibrate						1.8		
7/26	166	Calibrate						1.7	Avg. 1.8	
7/26	167	Calibrate						1.8		
7/26	168	Calibrate						1.7		
7/26	169	Calibrate						1.6	Avg. 1.8	
7/26	170	Calibrate						1.7		
7/26	171	Basement	Wall	1	Plaster	Grey/blue	Poor	>9.9	Positive	
7/26	172	Lobby	Wall	2	Plaster	Grey/blue	Poor	0.1		
7/26	173	Mezzanine Area	Wall	3	Plaster	Grey/blue	Poor	>9.9	Positive	
7/26	174	Mezzanine Area	Wall	4	Plaster	Grey/grey	Poor	-0.0		
7/26	175	Mezzanine Area	Ceiling	5	Plaster	Grey/blue	Poor	>9.9	Positive	
7/26	176	Mezzanine Area	Pipe riser	4	Metal	Grey/blue	Poor	>9.9	Positive	
7/26	177	Mezzanine Area	Horizontal pipe	5	Metal	Grey/blue	Poor	1.4	Positive	

Table 1
Kingsbridge Armory
XRF Survey Data

Date	Shot #	Room	Component	Wall	Substrate	Color	Condition	XRF Reading	Classification	Sample ID
7/26	178	Mezzanine Area	Column	6	Plaster	Grey/grey	Poor	>9.9	Positive	
7/26	179	Mezzanine Area	Baseboard	3	Wood	Grey/grey	Poor	1.5	Positive	
7/26	180	Mezzanine Area	Door	1	Wood	Grey/green	Poor	1.6	Positive	
7/26	181	Mezzanine Area	Door case	1	Wood	Grey/green	Poor	1.5	Positive	
7/26	182	Mezzanine Area	Floor	6	Concrete	Grey/grey	Poor	2.1	Positive	
7/26	183	Mezzanine Area	Hand rail	2	Metal	Grey/grey	Poor	7.8	Positive	
7/26	184	Mezzanine Area	Newel post	2	Metal	Grey/grey	Poor	7.6	Positive	
7/26	185	Mezzanine Area	Stair tread	2	Metal	Grey/grey	Poor	3.3	Positive	
7/26	186	Basement	Stair riser	6	Metal	Grey	Poor	5.5	Positive	
7/26	187	Mezzanine lobby	stringer	6	Metal	Grey	Poor	8.0	Positive	
7/26	188	Mezzanine lobby	Beam	1	Metal	Grey	Poor	>9.9	Positive	
7/26	189	RA1	Door	1	Wood	Brown	Poor	0.1		
7/26	190	RA1	Door case	1	Wood	Grey	Poor	1.3	Positive	
7/26	191	RA1	Wall	1	Plaster	Green	Poor	>9.9	Positive	
7/26	192	RA1	Wall	2	Plaster	Green	Poor	>9.9	Positive	
7/26	193	RA1	Wall	3	Plaster	Green	Poor	>9.9	Positive	
7/26	194	RA1	Wall	4	Plaster	Green	Poor	9.5	Positive	
7/26	195	RA1	Column	6	Plaster	Green	Poor	>9.9	Positive	
7/26	195	RA1	Baseboard	1	Wood	Grey	Poor	-0.1		
7/26	196	RA1	Radiator	3	Metal	Beige	Poor	0.1		
7/26	197	RA1	Window sill	3	Wood	Green	Poor	0.1		
7/26	198	RA1	Window case	3	Wood	Green	Poor	0.0		
7/26	199	RA1	Window apron	3	Wood	Green	Poor	0.0		
7/26	200	RA1	Window sash	3	Wood	Green	Poor	0.2		

Table 1
Kingsbridge Armory
XRF Survey Data

Date	Shot #	Room	Component	Wall	Substrate	Color	Condition	XRF Reading	Classification	Sample ID
7/26	201	RA1	Beam	5	Plaster	Green	Poor	>9.9	Positive	
7/26	202	RA1	Ceiling	5	Plaster	Green	Poor	>9.9	Positive	
7/26	203	Bsmnt, Staircase A	Door	1	Metal	Green	Poor	1.8	Positive	
7/26	204	Bsmnt, Staircase A	Door case	1	Metal	Green	Poor	1.6	Positive	
7/26	205	Bsmnt, Staircase A	Wall	1	Plaster	Green	Poor	0.1		
7/26	206	Bsmnt, Staircase A	Wall	2	Plaster	Grey	Poor	>9.9	Positive	
7/26	207	Bsmnt, Staircase A	Wall	3	Plaster	Green	Poor	>9.9	Positive	
7/26	208	Bsmnt, Staircase A	Wall	4	Plaster	Grey	Poor	>9.9	Positive	
7/26	209	Bsmnt, Staircase A	Radiator cover	2	Metal	Grey	Poor	0.3		
7/26	210	Bsmnt, Staircase A	Radiator	2	Metal	Grey	Poor	1.7	Positive	
7/26	211	Bsmnt, Staircase A	Baseboard	4	Plaster	Grey	Poor	6.6	Positive	
7/26	212	Bsmnt, Staircase A	Ceiling	5	Plaster	Green	Poor	>9.9	Positive	
7/26	213	Bsmnt, Staircase A	Floor	6	Concrete	Grey	Poor	1.0	Positive	
7/26	214	Mezzanine	Wall	1	Brick	White	Poor	3.6	Positive	
7/26	215	Bsmnt, Staircase B	Wall	2	Brick	Grey	Poor	3.9	Positive	
7/26	216	Bsmnt, Staircase B	Wall	3	Brick	White	Poor	2.5	Positive	
7/26	217	Bsmnt, Staircase B	Wall	4	Brick	Grey	Poor	3.9	Positive	
7/26	218	Bsmnt, Staircase B	Hand rail	4	Metal	Grey	Poor	1.6	Positive	
7/26	219	Bsmnt, Staircase B	Stair tread	4	Concrete	Grey	Poor	0		
7/26	220	Bsmnt, Staircase B	Stair riser	4	Concrete	Grey	Poor	0.1		
7/26	221	Bsmnt, Staircase B	Stringer	4	Concrete	Grey	Poor	0.1		
7/26	222	Bsmt, mezzanine staircase B	Floor	6	Concrete	Grey	Poor	-0.0		

Table 1
Kingsbridge Armory
XRF Survey Data

Date	Shot #	Room	Component	Wall	Substrate	Color	Condition	XRF Reading	Classification	Sample ID
7/26	223	Bsmt, mezzanine staircase B	Radiator cover	3	Metal	Grey	Poor	0.2		
7/26	224	Bsmt, mezzanine staircase B	Radiator	3	Metal	Grey	Poor	0.5		
7/26	225	RC'6	Door	1	Metal	Green	Poor	-0.1		
7/26	226	RC'6	Door case	1	Metal	Green	Poor	0.6		
7/26	227	RC'6	Wall	1	Brick	White	Poor	3.7	Positive	
7/26	228	RC'6	Wall	2	Brick	White	Poor	4.1	Positive	
7/26	229	RC'6	Wall	3	Brick	White	Poor	-0.2		
7/26	230	RC'6	Wall	4	Brick	White	Poor	4.8	Positive	
7/26	231	RC'6	Hand rail	6	Metal	Grey	Poor	-0.1		
7/26	232	RC'6	Newel post	6	Metal	Grey	Poor	1.4	Positive	
7/26	233	RC'6	Stair tread	6	Wood	Grey	Poor	-0.1		
7/26	234	RC'6	Stringer	6	Metal	Grey	Poor	0.2		
7/26	235	RC'6	Locker door	2	Metal	Grey	Poor	0.5		
7/26	236	RC'6	Beam	5	Metal	Grey	Poor	6.4	Positive	
7/26	237	RC'6	Floor	6	Wood	Grey	Poor	0.3		
7/26	238	RC'6	Floor	6	Concrete	Grey	Poor	3.4	Positive	
7/26	239	RC16A	Door	1	Wood	Stained	Poor	-0.1		
7/26	240	RC16A	Door case	1	Wood	Red	Poor	3.9	Positive	
7/26	241	RC16A	Wall	1	Brick	Blue	Poor	>9.9	Positive	
7/26	242	RC16A	Wall	2	Brick	Green	Poor	>9.9	Positive	
7/26	243	RC16A	Wall	3	Concrete	Beige	Poor	2.8	Positive	
7/26	244	RC16A	Wall	4	Brick	Beige	Poor	>9.9	Positive	

Table 1
Kingsbridge Armory
XRF Survey Data

Date	Shot #	Room	Component	Wall	Substrate	Color	Condition	XRF Reading	Classification	Sample ID
7/26	245	RC16A	Pipe riser	3	Metal	Blue	Poor	1.8	Positive	
7/26	246	RC16A	Duct	5	Metal	Blue	Poor	0.2		
7/26	247	RC14	Door	1	Metal	Green	Poor	-0.0		
7/26	248	RC14	Door case	1	Metal	Green	Poor	2.4	Positive	
7/26	249	RC14	Wall	1	Brick	Blue	Poor	3.5	Positive	
7/26	250	RC14	Wall	2	Brick	Blue	Poor	3.2	Positive	
7/26	251	RC14	Wall	3	Brick	Blue	Poor	4.1	Positive	
7/26	252	RC14	Wall	4	Brick	Blue	Poor	4.0	Positive	
7/26	253	RC14	Hand rail	6	Metal	Grey	Poor	0.5		
7/26	254	RC14	Newel post	6	Metal	Grey	Poor	0.2		
7/26	255	RC14	Stair tread	6	Wood	Grey	Poor	0.1		
7/26	256	RC14	Stringer	6	Metal	Grey	Poor	0.2		
7/26	257	RC14	Locker door	2	Metal	Blue	Poor	0.4		
7/26	258	RC14	Beam	5	Metal	Grey	Poor	3.6	Positive	
7/26	259	RC14A	Door	1	Wood	Blue	Poor	0.4		
7/26	260	RC14A	Door case	1	Wood	Blue	Poor	0.3		
7/26	261	RC14A	Wall	1	Brick	White	Poor	6.7	Positive	
7/26	262	RC14A	Wall	2	Brick	White	Poor	>9.9	Positive	
7/26	263	RC14A	Wall	3	Concrete	White	Poor	4.8	Positive	
7/26	264	RC14A	Wall	4	Brick	White	Poor	>9.9	Positive	
7/26	265	RC14A	Pipe riser	3	Metal	White	Poor	0.3		
7/26	266	RC14A	Duct	5	Metal	White	Poor	0.1		
7/26	267	R1-15	Door	1	Metal	Green	Poor	0.2		
7/26	268	R1-15	Door case	1	Metal	Green	Poor	-0.0		

Table 1
Kingsbridge Armory
XRF Survey Data

Date	Shot #	Room	Component	Wall	Substrate	Color	Condition	XRF Reading	Classification	Sample ID
7/26	269	R1-15	Wall	1	Plaster	Beige	Poor	-0.1		
7/26	270	R1-15	Wall	2	Plaster	Beige	Poor	>9.9	Positive	
7/26	271	R1-15	Wall	3	Plaster	Beige	Poor	4.6	Positive	
7/26	272	R1-15	Wall	4	Plaster	Beige	Poor	3.4	Positive	
7/26	273	R1-15	Baseboard	2	Wood	Grey	Poor	-0.1		
7/26	274	R1-15	Chair rail	4	Wood	Beige	Poor	0.6		
7/26	275	R1-15	Wall molding	3	Wood	Beige	Poor	0.5		
7/26	276	R1-15	Radiator cover	2	Metal	White	Poor	9.1	Positive	
7/26	277	R1-15	Window sill	3	Wood	White	Poor	0.3		
7/26	278	R1-15	Window case	3	Wood	White	Poor	0.3		
7/26	279	R1-15	Window apron	3	Wood	White	Poor	0.3		
7/26	280	R1-15	Partition wall		Wood	Beige	Poor	-0.0		
7/26	281	R1-15	Ceiling	5	Plaster	Blue	Poor	5.3	Positive	
7/26	282	R1-15-A	Locker door	2	Metal	Grey	Poor	1.7	Positive	
7/26	283	R1-15-A	Door	1	Wood	Grey	Poor	3.4	Positive	
7/26	284	R1-15-A	Door case	1	Wood	Grey	Poor	0.4		
7/26	285	R1-15-A	Wall	1	Plaster	Blue	Poor	4.5	Positive	
7/26	286	R1-15-A	Wall	2	Plaster	Blue	Poor	3.8	Positive	
7/26	287	R1-15-A	Wall	3	Plaster	Blue	Poor	5.4	Positive	
7/26	288	R1-15-A	Wall	4	Plaster	Blue	Poor	1.2	Positive	
7/26	289	R1-15-A	Baseboard	2	Wood	Blue	Poor	0.8		
7/26	290	R1-15-A	Chair rail	3	Wood	Blue	Poor	2.5	Positive	
7/26	291	R1-15-A	Ceiling	5	Plaster	Blue	Poor	3.5	Positive	
7/26	292	R1-15-A	Horizontal pipe	5	Metal	Blue	Poor	0.5		

Table 1
Kingsbridge Armory
XRF Survey Data

Date	Shot #	Room	Component	Wall	Substrate	Color	Condition	XRF Reading	Classification	Sample ID
7/26	293	RM1-15	Door	1	Wood	Green	Poor	1.5	Positive	
7/26	294	RM1-15	Door case	1	Wood	Green	Poor	2.1	Positive	
7/26	295	RM1-15	Wall	1	Concrete	White	Poor	2.4	Positive	
7/26	296	RM1-15	Wall	2	Concrete	White	Poor	2.9	Positive	
7/26	297	RM1-15	Wall	3	Concrete	White	Poor	0.2		
7/26	298	RM1-15	Wall	4	Concrete	Peach	Poor	3.3	Positive	
7/26	299	RM1-15	Baseboard	3	Wood	White	Poor	2.5	Positive	
7/26	300	RM1-15	Chair rail	2	Wood	White	Poor	2.2	Positive	
7/26	301	RM1-15	Radiator cover	2	Metal	White	Poor	0.3		
7/26	302	RM1-15	Radiator	2	Metal	White	Poor	0.1		
7/26	303	RM1-15	Window sill	3	Wood	White	Poor	2.2	Positive	
7/26	304	RM1-15	Window case	3	Wood	White	Poor	1.9	Positive	
7/26	305	RM1-15	Window sash	3	Wood	White	Poor	3.1	Positive	
7/26	306	RM1-15	Ceiling	5	Plaster	White	Poor	0.5		
7/26	307	RM1-15	Door	1	Wood	Beige	Poor	1.7	Positive	
7/26	308	RM1-15/Bath	Door case	1	Wood	Beige	Poor	5.2	Positive	
7/26	309	RM1-15/Bath	Wall	1	Plaster	Beige	Poor	4.9	Positive	
7/26	310	RM1-15/Bath	Wall	2	Plaster	Beige	Poor	4.5	Positive	
7/26	311	RM1-15/Bath	Wall	3	Plaster	Beige	Poor	4.7	Positive	
7/26	312	RM1-15/Bath	Wall	4	Plaster	Beige	Poor	0.4		
7/26	313	RM1-15/Bath	Radiator	1	Metal	Beige	Poor	0.7		
7/26	314	RM1-15/Bath	Cabinet door	3	Metal	Beige	Poor	7.3	Positive	
7/26	315	RM1-15/Bath	Horizontal pipe	5	Metal	Beige	Poor	0.5		
7/26	316	RM1-15/Bath	Window sill	4	Wood	Beige	Poor	3.5	Positive	

Table 1
Kingsbridge Armory
XRF Survey Data

Date	Shot #	Room	Component	Wall	Substrate	Color	Condition	XRF Reading	Classification	Sample ID
7/26	317	RM1-15/Bath	Window case	4	Wood	Beige	Poor	2.8	Positive	
7/26	318	RM1-15/Bath	Window frame	4	Wood	Beige	Poor	2.8	Positive	
7/26	319	RM1-15/Bath	Ceiling	5	Plaster	Beige	Poor	3.8	Positive	
7/26	320	R1-12	Door	1	Metal	Green	Poor	0.2		
7/26	321	R1-12	Door case	1	Metal	Green	Poor	0.1		
7/26	322	R1-12	Wall	1	Plaster	Beige	Poor	5.0	Positive	
7/26	323	R1-12	Wall	2	Plaster	Beige	Poor	4.9	Positive	
7/26	324	R1-12	Wall	3	Plaster	Beige	Poor	6.3	Positive	
7/26	325	R1-12	Wall	4	Plaster	Beige	Poor	5.0	Positive	
7/26	326	R1-12	Baseboard	4	Wood	Grey	Poor	0.6		
7/26	327	R1-12	Wall molding	2	Wood	Grey	Poor	0.7		
7/26	328	R1-12	Radiator cover	2	Metal	Grey	Poor	1.6	Positive	
7/26	329	R1-12	Radiator	2	Metal	Black	Poor	0.6		
7/26	330	R1-12	Window sill	3	Wood	Grey	Poor	1.0	Positive	
7/26	331	R1-12	Window case	3	Wood	Grey	Poor	0.7		
7/26	332	R1-12	Window apron	3	Wood	Grey	Poor	0.2		
7/26	333	R1-12A	Door	1	Wood	Grey	Poor	2.3	Positive	
7/26	334	R1-12A	Door case	1	Wood	Grey	Poor	2.1	Positive	
7/26	335	R1-12A	Wall	1	Plaster	Beige	Poor	6.8	Positive	
7/26	336	R1-12A	Wall	2	Plaster	Beige	Poor	8.3	Positive	
7/26	337	R1-12A	Wall	3	Plaster	Beige	Poor	8.4	Positive	
7/26	338	R1-12A	Wall	4	Plaster	Beige	Poor	5.8	Positive	
7/26	339	R1-12A	Baseboard	1	Wood	Beige	Poor	7.3	Positive	
7/26	340	R1-12A	Pipe riser	2	Metal	Beige	Poor	7.9	Positive	

Table 1
Kingsbridge Armory
XRF Survey Data

Date	Shot #	Room	Component	Wall	Substrate	Color	Condition	XRF Reading	Classification	Sample ID
7/26	341	R1-12A	Window case	4	Wood	Beige	Poor	0.6		
7/26	342	R1-12A	Window sash	4	Wood	Beige	Poor	2.5	Positive	
7/26	343	R1-12A	Ceiling	5	Plaster	Beige	Poor	3.2	Positive	
7/26	344	R1-12A	Shelf support	2	Wood	Beige	Poor	0.0		
7/26	345	Calibrate						1.9		
7/26	346	Calibrate						1.8	Avg. 1.9	
7/26	347	Calibrate						1.9		
7/26	348	R1-1	Door	1	Metal	Green	Poor	0.2		
7/26	349	R1-1	Door case	1	Metal	Green	Poor	-0.0		
7/26	350	R1-1	Wall	1	Plaster	Beige	Poor	1.0	Positive	
7/26	351	R1-1	Wall	2	Plaster	Beige	Poor	3.4	Positive	
7/26	352	R1-1	Wall	3	Plaster	Beige	Poor	3.4	Positive	
7/26	353	R1-1	Wall	4	Plaster	Beige	Poor	4.3	Positive	
7/26	354	R1-1	Baseboard	2	Wood	Black	Poor	0.5		
7/26	355	R1-1	Wall molding	3	Wood	Beige	Poor	1.0	Positive	
7/26	356	R1-1	Radiator	2	Metal	Beige	Poor	1.5		
7/26	357	R1-1	Window sill	3	Wood	Beige	Poor	0.2		
7/26	358	R1-1	Window case	3	Wood	Beige	Poor	-0.1		
7/26	359	R1-1	Window sash	3	Wood	Beige	Poor	0.2		
7/26	360	R1-1	Ceiling	5	Plaster	Beige	Poor	0.2		
7/26	361	R1-1A	Door	1	Wood	Varnish	Poor	0.1		
7/26	362	R1-1A	Door case	1	Wood	Varnish	Poor	1.0	Positive	
7/26	363	R1-1A	Wall	1	Plaster	Beige	Poor	>9.9	Positive	
7/26	364	R1-1A	Wall	2	Plaster	Beige	Poor	>9.9	Positive	

Table 1
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XRF Survey Data

Date	Shot #	Room	Component	Wall	Substrate	Color	Condition	XRF Reading	Classification	Sample ID
7/26	365	R1-1A	Wall	3	Plaster	Beige	Poor	>9.9	Positive	
7/26	366	R1-1A	Wall	4	Plaster	Beige	Poor	>9.9	Positive	
7/26	367	R1-1A	Baseboard	3	Wood	Black	Poor	0.3		
7/26	368	R1-1A	Pipe riser	1	Metal	Beige	Poor	3.6	Positive	
7/26	369	R1-1A	Ceiling	5	Plaster	Beige	Poor	5.1	Positive	
7/26	370	RM1-1	Door	1	Wood	White	Poor	-0.1		
7/26	371	RM1-1	Door case	1	Wood	Green	Poor	-0.1		
7/26	372	RM1-1	Wall	1	Plaster	Beige	Poor	9.5	Positive	
7/26	373	RM1-1	Wall	2	Plaster	Beige	Poor	8.9	Positive	
7/26	374	RM1-1	Wall	3	Plaster	Beige	Poor	8.0	Positive	
7/26	375	RM1-1	Wall	4	Plaster	Beige	Poor	6.8	Positive	
7/26	376	RM1-1	Baseboard	4	Wood	Beige	Poor	1.4	Positive	
7/26	377	RM1-1	Window sill	3	Wood	Green	Poor	0.2		
7/26	378	RM1-1	Window case	3	Wood	Green	Poor	1.0	Positive	
7/26	379	RM1-1	Window sash	3	Wood	Varnish	Poor	5.2	Positive	
7/26	380	RM1-1	Radiator	2	Metal	Green	Poor	0.5		
7/26	381	RM1-1	Ceiling	5	Plaster	Beige	Poor	3.7	Positive	
7/26	382	RM1-1	Pipe riser	1	Metal	Beige	Poor	0.7		
7/26	383	RM1-1	Door	1	Wood	White	Poor	5.9	Positive	
7/26	384	RM1-1/Bath	Door case	1	Wood	Green	Poor	5.2	Positive	
7/26	385	RM1-1/Bath	Wall	1	Plaster	Beige	Poor	9.4	Positive	
7/26	386	RM1-1/Bath	Wall	2	Plaster	Beige	Poor	>9.9	Positive	
7/26	387	RM1-1/Bath	Wall	3	Plaster	Beige	Poor	9.1	Positive	
7/26	388	RM1-1/Bath	Wall	4	Plaster	Beige	Poor	>9.9	Positive	

Table 1
Kingsbridge Armory
XRF Survey Data

Date	Shot #	Room	Component	Wall	Substrate	Color	Condition	XRF Reading	Classification	Sample ID
7/26	389	RM1-1/Bath	Radiator	1	Metal	So;ver	Poor	-0.0		
7/26	390	RM1-1/Bath	Cabinet door	3	Metal	Beige	Poor	>9.9	Positive	
7/26	391	RM1-1/Bath	Pipe riser	4	Metal	Black	Poor	1.4	Positive	
7/26	392	RM1-1/Bath	Ceiling	5	Plaster	Beige	Poor	2.2	Positive	
7/26	393	R1-4	Door	1	Metal	Green	Poor	-0.0		
7/26	394	R1-4	Door case	1	Metal	Green	Poor	-0.1		
7/26	395	R1-4	Wall	1	Plaster	Green	Poor	1.6	Positive	
7/26	396	R1-4	Wall	2	Plaster	Beige	Poor	5.0	Positive	
7/26	397	R1-4	Wall	3	Plaster	Beige	Poor	4.6	Positive	
7/26	398	R1-4	Wall	4	Plaster	Beige	Poor	4.1	Positive	
7/26	399	R1-4	Wall	2	Plaster	White	Poor	4.1	Positive	
7/26	400	R1-4	Radiator cover	2	Metal	Silver	Poor	0.4		
7/26	401	R1-4	Radiator	2	Metal	Silver	Poor	0.5		
7/26	402	R1-4	Window sill	3	mw	Black	Poor	2.1	Positive	
7/26	403	R1-4	Window case	3	Wood	Black	Poor	0.1		
7/26	404	R1-4	Window apron	3	Wood	Black	Poor	1.7	Positive	
7/26	405	R1-4	Baseboard	2	Wood	Black	Poor	0.4		
7/26	406	R1-4	Ceiling	5	Plaster	Beige	Poor	0.0		
7/26	407	R1-4B	Door	1	Wood	White	Poor	1.0	Positive	
7/26	408	R1-4B	Door case	1	Wood	White	Poor	1.0	Positive	
7/26	409	R1-4B	Wall	1	Plaster	White	Poor	1.0	Positive	
7/26	410	R1-4B	Wall	2	Plaster	White	Poor	0.3		
7/26	411	R1-4B	Wall	3	Plaster	White	Poor	1.6	Positive	
7/26	412	R1-4B	Wall	4	Plaster	White	Poor	1.4	Positive	

Table 1
Kingsbridge Armory
XRF Survey Data

Date	Shot #	Room	Component	Wall	Substrate	Color	Condition	XRF Reading	Classification	Sample ID
7/26	413	R1-4B	Baseboard	3	Wood	White	Poor	1.0	Positive	
7/26	414	R1-4B	Window sill	2	Wood	White	Poor	0.5		
7/26	415	R1-4B	Window case	2	Wood	White	Poor	0.5		
7/26	416	R1-4B	Window sash	2	Wood	White	Poor	0.5		
7/26	417	R1-4B	Ceiling	5	Plaster	White	Poor	0.6		
7/26	418	R1-4A	Door	1	Wood	Brown	Poor	1.3	Positive	
7/26	419	R1-4A	Door case	1	Wood	Green	Poor	1.0	Positive	
7/26	420	R1-4A	Wall	1	Plaster	Red	Poor	1.6	Positive	
7/26	421	R1-4A	Wall	2	Plaster	Red	Poor	2.0	Positive	
7/26	422	R1-4A	Wall	3	Plaster	Red	Poor	2.1	Positive	
7/26	423	R1-4A	Wall	4	Plaster	Red	Poor	0.1		
7/26	424	R1-4A	Baseboard	3	Wood	Red	Poor	2.0	Positive	
7/26	425	R1-4A	Chair rail	2	Wood	Red	Poor	0.6		
7/26	426	R1-4A	Window case	4	Wood	Brown	Poor	0.6		
7/26	427	R1-4A	Window sash	4	Wood	Brown	Poor	0.6		
7/26	428	R1-4A	Horizontal pipe	5	Metal	White	Poor	1.5	Positive	
7/26	429	R1-4A	Ceiling	5	Plaster	White	Poor	0.4		
7/26	430	R1-9	Door	1	Wood	Beige	Poor	0.2		
7/26	431	Ladies room	Door case	1	Wood	Green	Poor	0.0		
7/26	432	Ladies room	Wall	1	Concrete	Beige	Poor	-0.0		
7/26	433	Ladies room	Wall	2	Concrete	Beige	Poor	0.3		
7/26	434	Ladies room	Wall	3	Concrete	Beige	Poor	0.0		
7/26	435	Ladies room	Wall	4	Concrete	Beige	Poor	0.0		
7/26	436	Ladies room	Radiator	3	Metal	Beige	Poor	-0.0		

Table 1
Kingsbridge Armory
XRF Survey Data

Date	Shot #	Room	Component	Wall	Substrate	Color	Condition	XRF Reading	Classification	Sample ID
7/26	437	Ladies room	Door case	3	Metal	Beige	Poor	-0.0		
7/26	438	Ladies room	Radiator cover	1	Metal	Beige	Poor	-0.1		
7/26	439	Ladies room	Pipe riser	3	Metal	Beige	Poor	6.8	Positive	
7/26	440	Ladies room	Wall	3	Brick	Beige	Poor	-0.0		
7/26	441	Calibrate						1.9		
7/26	442	Calibrate						1.8	Avg 1.9	
7/26	443	Calibrate						1.8		
7/27	444	Calibrate						1.8		
7/27	445	Calibrate						1.8		
7/27	446	Calibrate						1.8		
7/27	447	East tower office	Door	1	Wood	Brown	Poor	0.1		
7/27	448	East tower office	Door case	1	Wood	Brown	Poor	0.1		
7/27	449	East tower office	Upper wall	1	Plaster	Lylac	Poor	>9.9	Positive	
7/27	450	East tower office	Upper wall	2	Plaster	Lylac	Poor	>9.9	Positive	
7/27	451	East tower office	Upper wall	3	Plaster	Lylac	Poor	>9.9	Positive	
7/27	452	East tower office	Upper wall	4	Plaster	Lylac	Poor	>9.9	Positive	
7/27	453	East tower office	Lower wall	1	Plaster	Brown	Poor	>9.9	Positive	
7/27	454	East tower office	Lower wall	2	Plaster	Brown	Poor	>9.9	Positive	
7/27	455	East tower office	Lower wall	3	Plaster	Brown	Poor	>9.9	Positive	
7/27	456	East tower office	Lower wall	4	Plaster	Brown	Poor	>9.9	Positive	
7/27	457	East tower office	Baseboard	3	Wood	Brown	Poor	3.2	Positive	
7/27	458	East tower office	Chair rail	2	Wood	Brown	Poor	0.1		
7/27	459	East tower office	Radiator cover	2	Metal	Brown	Poor	>9.9	Positive	
7/27	460	East tower office	Radiator	2	Metal	Brown	Poor	0.2		

Table 1
Kingsbridge Armory
XRF Survey Data

Date	Shot #	Room	Component	Wall	Substrate	Color	Condition	XRF Reading	Classification	Sample ID
7/27	461	East tower office	Horizontal pipe	3	Metal	Brown	Poor	0.2		
7/27	462	East tower office	Window sill	3	Wood	Brown	Poor	0.3		
7/27	463	East tower office	Window case	3	Wood	Brown	Poor	0.2		
7/27	464	East tower office	Window apron	3	Wood	Brown	Poor	0.0		
7/27	465	East tower office	Ceiling	5	Plaster	White	Poor	5.7	Positive	
7/27	466	Corridor to east tower office	Door	1	Wood	Varnish	Poor	0.0		
7/27	467	Corridor to east tower office	Door case	1	Wood	Blue	Poor	0.6		
7/27	468	Corridor to east tower office	Wall	1	Brick	Blue	Poor	-0.1		
7/27	469	Corridor to east tower office	Wall	2	Brick	White	Poor	-0.0		
7/27	470	Corridor to east tower office	Wall	3	Brick	Blue	Poor	0.0		
7/27	471	Corridor to east tower office	Wall	4	Brick	Blue	Poor	-0.0		
7/27	472	Corridor to east tower office	Pipe riser	2	Metal	Blue	Poor	0.6		
7/27	473	Corridor to east tower office	Shelf	3	Wood	Blue	Poor	3.8	Positive	
7/27	474	Corridor to east tower office	Shelf support	2	Wood	Blue	Poor	3.8	Positive	

Table 1
Kingsbridge Armory
XRF Survey Data

Date	Shot #	Room	Component	Wall	Substrate	Color	Condition	XRF Reading	Classification	Sample ID
7/27	475	Corridor to east tower office	Window sill	4	Wood	Black	Poor	0.4		
7/27	476	Corridor to east tower office	Window case	4	Wood	Black	Poor	-0.1		
7/27	477	Corridor to east tower office	Window apron	4	Wood	Black	Poor	0.2		
7/27	478	Corridor to east tower office	Wall	2	Plaster	Green	Poor	>9.9	Positive	
7/27	479	Corridor to east tower office	Wall	3	Plaster	Green	Poor	>9.9	Positive	
7/27	480	Corridor to east tower office	Wall	4	Plaster	Green	Poor	>9.9	Positive	
7/27	481	Corridor to east tower office	Baseboard	4	Wood	Grey	Poor	4.2	Positive	
7/27	482	Corridor to east tower office	Ceiling	5	Plaster	Grey	Poor	>9.9	Positive	
7/27	483	West tower office	Door	1	Wood	Black	Poor	0.2		
7/27	484	West tower office	Door case	1	Wood	Black	Poor	5.2	Positive	
7/27	485	West tower office	Wall	1	Plaster	Beige	Poor	>9.9	Positive	
7/27	486	West tower office	Wall	2	Plaster	Beige	Poor	>9.9	Positive	
7/27	487	West tower office	Wall	3	Plaster	Beige	Poor	>9.9	Positive	
7/27	488	West tower office	Wall	4	Plaster	Beige	Poor	>9.9	Positive	
7/27	489	West tower office	Baseboard	2	Wood	Black	Poor	2.4	Positive	
7/27	490	West tower office	Radiator cover	4	Wood	Black	Poor	0.3		

Table 1
Kingsbridge Armory
XRF Survey Data

Date	Shot #	Room	Component	Wall	Substrate	Color	Condition	XRF Reading	Classification	Sample ID
7/27	491	West tower office	Radiator	1	Metal	Silver	Poor	2.0	Positive	
7/27	492	West tower office	Window sill	1	Wood	Beige	Poor	3.1	Positive	
7/27	493	West tower office	Window case	1	Wood	Beige	Poor	2.1	Positive	
7/27	494	West tower office	Window sash	1	Wood	Beige	Poor	2.6	Positive	
7/27	495	West tower office	Window apron	1	Wood	Beige	Poor	2.7	Positive	
7/27	496	West tower office	Wall molding	1	Wood	Beige	Poor	>9.9	Positive	
7/27	497	Office	Door	1	Wood	Grey	Poor	>9.9	Positive	
7/27	498	Office/Bath	Door case	1	Wood	Black	Poor	>9.9	Positive	
7/27	499	Main lobby	Wall	1	Concrete	Beige	Fair	>9.9	Positive	
7/27	500	Main lobby	Wall	2	Concrete	Beige	Fair	>9.9	Positive	
7/27	501	Main lobby	Wall	3	Concrete	Beige	Fair	>9.9	Positive	
7/27	502	Main lobby	Wall	4	Concrete	Beige	Fair	>9.9	Positive	
7/27	503	Main lobby	Column	6	Concrete	Beige	Fair	>9.9	Positive	
7/27	504	Main lobby	Door	1	Metal	Grey	Fair	0.2		
7/27	505	Main lobby	Door case	1	Metal	Grey	Fair	-0.1		
7/27	506	Main lobby	Baseboard	3	Concrete	Grey	Fair	0.7		
7/27	507	Main lobby	Radiator cover	3	Metal	Black	Fair	-0.1		
7/27	508	Main lobby	Radiator	3	Metal	Silver	Fair	0.6		
7/27	509	Main lobby	Window case	3	Wood	Black	Fair	0.0		
7/27	510	Main lobby	Window sash	3	Wood	Black	Fair	-0.1		
7/27	511	Main lobby	Gate	4	Metal	Grey	Fair	>9.9	Positive	
7/27	512	Main lobby	Ceiling	5	Concrete	Beige	Fair	0.1		
7/27	513	Lobby	Column	6	Concrete	White	Fair	>9.9	Positive	
7/27	514	2nd floor corridor	Door	3	Wood	Stained	Fair	-0.0		

Table 1
Kingsbridge Armory
XRF Survey Data

Date	Shot #	Room	Component	Wall	Substrate	Color	Condition	XRF Reading	Classification	Sample ID
7/27	515	2nd floor corridor	Door case	3	Wood	Stained	Fair	0.2		
7/27	516	2nd floor corridor	Gate	1	Metal	Grey	Poor	0.4		
7/27	517	2nd floor corridor	Gate case	1	Metal	Grey	Poor	-0.1		
7/27	518	2nd floor corridor	Upper wall	2	Plaster	Beige	Poor	>9.9	Positive	
7/27	519	2nd floor corridor	Upper wall	4	Plaster	Beige	Poor	>9.9	Positive	
7/27	520	2nd floor corridor	Lower wall	2	Plaster	Grey	Poor	>9.9	Positive	
7/27	521	2nd floor corridor	Lower wall	4	Plaster	Grey	Poor	>9.9	Positive	
7/27	522	2nd floor corridor	Upper wall	1	Plaster	Beige	Poor	>9.9	Positive	
7/27	523	2nd floor corridor	Upper wall	3	Plaster	Beige	Poor	>9.9	Positive	
7/27	524	2nd floor corridor	Lower wall	1	Plaster	Grey	Poor	>9.9	Positive	
7/27	525	2nd floor corridor	Lower wall	3	Plaster	Grey	Poor	>9.9	Positive	
7/27	526	2nd floor corridor	Ceiling	5	Plaster	Beige	Poor	>9.9	Positive	
7/27	527	2nd floor corridor	Radiator cover	2	Metal	Grey	Poor	0.3		
7/27	528	2nd floor corridor	Radiator	2	Metal	Silver	Poor	0.3		
7/27	529	2nd floor corridor	Pipe riser	2	Metal	Silver	Poor	0.2		
7/27	530	2nd floor corridor	Baseboard	4	Concrete	Grey	Poor	1.7	Positive	
7/27	531	East officers club	Door	1	Wood	Stained	Fair	-0.2		
7/27	532	East officers club	Door case	1	Wood	Stained	Fair	-0.1		
7/27	533	East officers club	Upper wall	1	Plaster	Beige	Poor	>9.9	Positive	
7/27	534	East officers club	Upper wall	2	Plaster	Beige	Poor	>9.9	Positive	
7/27	535	East officers club	Upper wall	3	Plaster	Beige	Poor	>9.9	Positive	
7/27	536	East officers club	Upper wall	4	Plaster	Beige	Poor	>9.9	Positive	
7/27	537	East officers club	Lower wall	1	Wood	Stained	Poor	-0.1		
7/27	538	East officers club	Lower wall	2	Wood	Stained	Poor	-0.1		

Table 1
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XRF Survey Data

Date	Shot #	Room	Component	Wall	Substrate	Color	Condition	XRF Reading	Classification	Sample ID
7/27	539	East officers club	Lower wall	3	Wood	Stained	Poor	0.0		
7/27	540	East officers club	Lower wall	4	Wood	Stained	Poor	-0.0		
7/27	541	East officers club	Column	3	Plaster	Beige	Poor	>9.9	Positive	
7/27	542	East officers club	Wall molding	1	Wood	Beige	Poor	9.3	Positive	
7/27	543	East officers club	Ceiling	5	Plaster	White	Poor	>9.9	Positive	
7/27	544	East officers club	Beam ceiling	5	Plaster	Beige	Poor	>9.9	Positive	
7/27	545	2nd fl., office 2-2-6	Door	1	Wood	Stained	Poor	-0.1		
7/27	546	2nd fl., office 2-2-6	Door case	1	Wood	Stained	Poor	-0.0		
7/27	547	2nd fl., office 2-2-6	Wall	1	Plaster	Beige	Poor	>9.9	Positive	
7/27	548	2nd fl., office 2-2-6	Wall	2	Plaster	Beige	Poor	>9.9	Positive	
7/27	549	2nd fl., office 2-2-6	Wall	3	Plaster	Beige	Poor	>9.9	Positive	
7/27	550	2nd fl., office 2-2-6	Wall	4	Plaster	Beige	Poor	>9.9	Positive	
7/27	551	2nd fl., office 2-2-6	Baseboard	3	Wood	Beige	Poor	0.2		
7/27	552	2nd fl., office 2-2-6	Radiator cover	3	Metal	Beige	Poor	0.2		
7/27	553	2nd fl., office 2-2-6	Radiator	3	Metal	Beige	Poor	0.0		
7/27	554	2nd fl., office 2-2-6	Window sill	3	Wood	Beige	Poor	0.7		
7/27	555	2nd fl., office 2-2-6	Window case	3	Wood	Beige	Poor	0.6		
7/27	556	2nd fl., office 2-2-6	Window apron	3	Wood	Beige	Poor	-0.1		
7/27	557	2nd fl., office 2-2-6	Ceiling	5	Plaster	Beige	Poor	>9.9	Positive	
7/27	558	2nd fl., office 2-2-6	Door	1	Plaster	Green	Poor	>9.9	Positive	
7/27	559	2nd fl., bath 2-2-6	Door case	1	Wood	Green	Poor	>9.9	Positive	
7/27	560	2nd fl., bath 2-2-6	Wall	1	Wood	Green	Poor	>9.9	Positive	
7/27	561	2nd fl., bath 2-2-6	Wall	2	Plaster	Green	Poor	>9.9	Positive	
7/27	562	2nd fl., bath 2-2-6	Wall	3	Plaster	Green	Poor	>9.9	Positive	

Table 1
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XRF Survey Data

Date	Shot #	Room	Component	Wall	Substrate	Color	Condition	XRF Reading	Classification	Sample ID
7/27	563	2nd fl., bath 2-2-6	Wall	4	Plaster	Green	Poor	>9.9	Positive	
7/27	564	2nd fl., bath 2-2-6	Window case	4	Wood	Green	Poor	>9.9	Positive	
7/27	565	2nd fl., bath 2-2-6	Window sash	4	Wood	Green	Poor	>9.9	Positive	
7/27	566	2nd fl., closet 2-2-6	Door	1	Wood	Grey	Poor	>9.9	Positive	
7/27	567	2nd fl., closet 2-2-6	Door case	1	Wood	Grey	Poor	>9.9	Positive	
7/27	568	2nd fl., closet 2-2-6	Wall	1	Plaster	Grey	Poor	>9.9	Positive	
7/27	569	2nd fl., closet 2-2-6	Wall	2	Plaster	Grey	Poor	>9.9	Positive	
7/27	570	2nd fl., closet 2-2-6	Wall	3	Plaster	Grey	Poor	>9.9	Positive	
7/27	571	2nd fl., closet 2-2-6	Wall	4	Plaster	Grey	Poor	>9.9	Positive	
7/27	572	2nd fl., closet 2-2-6	Pipe riser	3	Metal	Grey	Poor	>9.9	Positive	
7/27	573	2nd fl., closet 2-2-6	Shelf	3	Wood	Grey	Poor	>9.9	Positive	
7/27	574	2nd fl., closet 2-2-6	Shelf support	3	Wood	Grey	Poor	>9.9	Positive	
7/27	575	2-2-5	Door	1	Wood	Stained	Poor	-0.2		
7/27	576	2-2-5	Door case	1	Wood	Black	Poor	1.0	Positive	
7/27	577	2-2-5	Baseboard	3	Wood	Black	Poor	-0.1		
7/27	578	2-2-5	Radiator	3	Metal	Black	Poor	0.4		
7/27	579	2-2-5	Window sill	3	Wood	Black	Poor	0.3		
7/27	580	2-2-5	Window case	3	Wood	Black	Poor	0.1		
7/27	581	2-2-5	Window apron	3	Wood	Black	Poor	0.4		
7/27	582	2-2-5	Wall	4	Plaster	Beige	Poor	>9.9	Positive	
7/27	583	2-2-5	Pipe riser	3	Metal	Black	Poor	1.5	Positive	
7/27	584	2-2-5	Molding ceiling	5	Wood	Beige	Poor	0.1		
7/27	585	2-2-5	Ceiling	5	Plaster	Beige	Poor	>9.9	Positive	
7/27	586	2nd fl., corridor	Floor	6	Concrete	Grey	Poor	1.5	Positive	

Table 1
Kingsbridge Armory
XRF Survey Data

Date	Shot #	Room	Component	Wall	Substrate	Color	Condition	XRF Reading	Classification	Sample ID
7/27	587	West officers club	Door case	1	Wood	Black	Poor	0.1		
7/27	588	West officers club	Wall	1	Plaster	Green	Poor	>9.9	Positive	
7/27	589	West officers club	Wall	2	Plaster	Green	Poor	>9.9	Positive	
7/27	590	West officers club	Wall	3	Plaster	Green	Poor	>9.9	Positive	
7/27	591	West officers club	Wall	4	Plaster	Green	Poor	>9.9	Positive	
7/27	592	West officers club	Wall molding	1	Wood	White	Poor	>9.9	Positive	
7/27	593	West officers club	Fire place	2	Brick	Beige	Fair	-0.0		
7/27	594	West officers club	Ceiling	5	Plaster	White	Fair	>9.9	Positive	
7/27	595	West officers club	Door	1	Wood	White	Fair	>9.9	Positive	
7/27	596	East stairs to 3rd fl.	Hand rail	1	Metal	Green/black	Poor	>9.9	Positive	
7/27	597	East stairs to 3rd fl.	Newel post	1	Metal	Green/black	Poor	>9.9	Positive	
7/27	598	East stairs to 3rd fl.	Ballust	1	Metal	Green/black	Poor	>9.9	Positive	
7/27	599	East stairs to 3rd fl.	Wall	1	Plaster	Beige	Poor	>9.9	Positive	
7/27	600	East stairs to 3rd fl.	Wall	2	Plaster	Beige	Poor	>9.9	Positive	
7/27	601	East stairs to 3rd fl.	Wall	3	Plaster	Beige	Poor	>9.9	Positive	
7/27	602	East stairs to 3rd fl.	Wall	4	Plaster	Beige	Poor	5.9	Positive	
7/27	603	East stairs to 3rd fl.	Ceiling	5	Plaster	Grey	Poor	>9.9	Positive	
7/27	604	East stairs to 3rd fl.	Baseboard	2	Wood	Beige	Poor	>9.9	Positive	
7/27	605	East stairs to 3rd fl.	Door	4	Metal	Beige	Poor	>9.9	Positive	
7/27	606	East stairs to 3rd fl.	Door case	4	Metal	Beige	Poor	>9.9	Positive	
7/27	607	3rd fl., officers lounge	Door case	1	Wood	Blue	Poor	>9.9	Positive	
7/27	608	3rd fl., officers lounge	Wall	1	Plaster	Blue	Poor	>9.9	Positive	
7/27	609	3rd fl., officers lounge	Wall	2	Plaster	Blue	Poor	>9.9	Positive	
7/27	610	3rd fl., officers lounge	Wall	3	Plaster	Blue	Poor	>9.9	Positive	

Table 1
Kingsbridge Armory
XRF Survey Data

Date	Shot #	Room	Component	Wall	Substrate	Color	Condition	XRF Reading	Classification	Sample ID
7/27	611	3rd fl., officers lounge	Wall	4	Plaster	Blue	Poor	>9.9	Positive	
7/27	612	3rd fl., officers lounge	Baseboard	2	Wood	Black	Poor	>9.9	Positive	
7/27	613	3rd fl., officers lounge	Radiator	4	Metal	Blue	Poor	1.9	Positive	
7/27	614	3rd fl., officers lounge	Window sill	4	Wood	Blue	Poor	>9.9	Positive	
7/27	615	3rd fl., officers lounge	Window apron	4	Wood	Blue	Poor	>9.9	Positive	
7/27	616	3rd fl., officers lounge	Ceiling	5	Plaster	Blue/white	Poor	>9.9	Positive	
7/27	617	3rd fl., officers lounge	Pipe riser	4	Metal	Blue/blue	Poor	>9.9	Positive	
7/27	618	3rd fl., officers lounge	Bar	4	Wood	Varnish	Poor	-0.1		
7/27	619	3rd fl., officers lounge	Wall	1	Plaster	Dark green	Poor	>9.9	Positive	
7/27	620	West stairs to 3rd fl.	Wall	2	Plaster	Dark green	Poor	>9.9	Positive	
7/27	621	West stairs to 3rd fl.	Wall	3	Plaster	Dark green	Poor	>9.9	Positive	
7/27	622	West stairs to 3rd fl.	Wall	4	Plaster	Dark green	Poor	>9.9	Positive	
7/27	623	West stairs to 3rd fl.	Electrical panel	1	Wood	Dark green	Poor	>9.9	Positive	
7/27	624	West stairs to 3rd fl.	Ceiling	5	Plaster	Dark green	Poor	8.3	Positive	
7/27	625	West stairs to 3rd fl.	Baseboard	3	Wood	Dark green	Poor	>9.9	Positive	
7/27	626	West stairs to 3rd fl.	Hand rail	1	Metal	Dark green	Poor	8.0	Positive	
7/27	627	West stairs to 3rd fl.	Newel post	1	Metal	Dark green	Poor	6.3	Positive	
7/27	628	West stairs to 3rd fl.	Baluster	1	Metal	Dark green	Poor	>9.9	Positive	
7/27	629	West Turret	Wall	1	Plaster	Brown	Poor	>9.9	Positive	
7/27	630	West Turret	Wall	2	Plaster	Brown	Poor	>9.9	Positive	
7/27	631	West Turret	Wall	3	Plaster	Brown	Poor	>9.9	Positive	
7/27	632	West Turret	Wall	4	Plaster	Brown	Poor	>9.9	Positive	
7/27	633	West Turret	Ceiling	5	Plaster	Brown	Poor	>9.9	Positive	
7/27	634	West Turret	Pipe riser	4	Metal	Brown	Poor	>9.9	Positive	

Table 1
Kingsbridge Armory
XRF Survey Data

Date	Shot #	Room	Component	Wall	Substrate	Color	Condition	XRF Reading	Classification	Sample ID
7/27	635	West Turret	Radiator	4	Metal	Silver	Poor	6.4	Positive	
7/27	636	West Turret	Hand rail	1	Metal	Grey	Poor	>9.9	Positive	
7/27	637	West Turret	Stair tread	1	Metal	Grey	Poor	>9.9	Positive	
7/27	638	West Turret	Stair riser	1	Metal	Grey	Poor	>9.9	Positive	
7/27	639	West Turret	Stringer	1	Metal	Grey	Poor	>9.9	Positive	
7/27	640	Calibrate						1.8		
7/27	641	Calibrate						1.7	Avg. 1.8	
7/27	642	Calibrate						1.8		
7/27	643	East 2, tower apt. living room	Door	1	Wood	Stained	Fair	-0.0		
7/27	644	East 2, tower apt. living room	Door case	1	Wood	Stained	Fair	0.1		
7/27	645	East 2, tower apt. living room	Wall	1	Plaster	Yellow	Poor	>9.9	Positive	
7/27	646	East 2, tower apt. living room	Wall	2	Plaster	Yellow	Poor	1.7	Positive	
7/27	647	East 2, tower apt. living room	Wall	3	Plaster	Yellow	Poor	3.9	Positive	
7/27	648	East 2, tower apt. living room	Wall	4	Plaster	Yellow	Poor	>9.9	Positive	
7/27	649	East 2, tower apt. living room	Baseboard	1	Wood	Grey	Poor	-0.0		
7/27	650	East 2, tower apt. living room	Radiator	3	Metal	Silver	Poor	1.4	Positive	

Table 1
Kingsbridge Armory
XRF Survey Data

Date	Shot #	Room	Component	Wall	Substrate	Color	Condition	XRF Reading	Classification	Sample ID
7/27	651	East 2, tower apt. living room	Window sill	4	Wood	Black	Poor	0.2		
7/27	652	East 2, tower apt. living room	Wall molding	2	Wood	Yellow	Poor	>9.9	Positive	
7/27	653	East 2, tower apt. living room	Shelf	4	Wood	Blue	Poor	1.3	Positive	
7/27	654	East 2, tower apt. living room	Shelf support	4	Wood	Blue	Poor	0.4		
7/27	655	East 2, tower apt. living room	Pipe riser	3	Metal	Silver	Poor	2.5	Positive	
7/27	656	Office	Door	1	Wood	Grey	Poor	>9.9	Positive	
7/27	657	Office	Door case	1	Wood	Grey	Poor	>9.9	Positive	
7/27	658	Office	Wall	1	Plaster	Grey	Poor	>9.9	Positive	
7/27	659	Office	Wall	2	Plaster	Grey	Poor	>9.9	Positive	
7/27	660	Office	Wall	3	Plaster	Grey	Poor	>9.9	Positive	
7/27	661	Office	Wall	4	Plaster	Grey	Poor	>9.9	Positive	
7/27	662	Office	Baseboard	3	Wood	Grey	Poor	>9.9	Positive	
7/27	663	Office	Radiator	4	Metal	Silver	Poor	>9.9	Positive	
7/27	664	Office	Wall	4	Brick	Grey	Poor	-0.0		
7/27	665	Office	Ceiling	5	Plaster	Grey	Poor	>9.9	Positive	
7/27	666	East Turret	living room ceiling	5	Plaster	White	Poor	>9.9	Positive	
7/27	667	East Turret	Wall	1	Plaster	Blue	Poor	>9.9	Positive	
7/27	668	East Turret	Wall	3	Plaster	Blue	Poor	>9.9	Positive	
7/27	669	East Turret	Wall	3	Plaster	Grey	Poor	>9.9	Positive	

Tab. .
Kingsbridge Armory
XRF Survey Data

Date	Shot #	Room	Component	Wall	Substrate	Color	Condition	XRF Reading	Classification	Sample ID
7/27	670	East Turret	Pipe riser	3	Metal	Grey	Poor	2.0	Positive	
7/27	671	East Turret	Window sill	3	Wood	Black	Poor	0.1		
7/27	672	East Turret	Window case	3	Wood	Black	Poor	0.2		
7/27	673	East Turret	Ceiling	5	Plaster	Beige	Poor	>9.9	Positive	
7/27	674	Staircase	Hand rail	3	Metal	Yellow	Poor	>9.9	Positive	
7/27	675	Drill floor	Upper wall	1	Plaster	Beige	Poor	0.1		
7/27	676	Southwest corner	Lower wall	1	Plaster	Green	Poor	1.0	Positive	
7/27	677	Southwest corner	Lower wall	1	Plaster	Brown	Poor	1.5	Positive	
7/27	678	Southwest corner	Window frame	1	Wood	Beige	Poor	3.2	Positive	
7/27	679	Southwest corner	Door	1	Wood	Green	Poor	>9.9	Positive	
7/27	680	Southwest corner	Door case	1	Wood	Green	Poor	>9.9	Positive	
7/27	681	Southwest corner	Window apron	1	Concrete	Green	Poor	1.8	Positive	
7/27	682	Southwest corner	Steel structure upper	1	Metal	Beige	Poor	>9.9	Positive	
7/27	683	Southwest corner	Steel structure lower	1	Metal	Green	Poor	>9.9	Positive	
7/27	684	Southwest corner	Radiator cover	1	Metal	Green	Poor	5.2	Positive	
7/27	685	Southwest corner	Radiator	1	Metal	Silver	Poor	2.8	Positive	
7/27	686	Southwest corner	Upper wall	1	Brick	Beige	Poor	0.2		
7/27	687	Southwest corner	Lower wall	1	Brick	Green	Poor	5.2	Positive	
7/27	688	Southwest corner	Door case	1	Wood	Green	Poor	-0.0		
7/27	689	Southwest corner	Door case	1	Metal	Dark green	Poor	-0.1		
7/27	690	Southwest corner	Pipe riser	1	Metal	White	Poor	5.4	Positive	
7/27	691	Southwest corner	Pipe riser	1	Metal	Green	Poor	>9.9	Positive	
7/27	692	Southwest corner	Upper wall	1	Brick	Red	Poor	-0.0		
7/27	693	Southwest corner	Steel structure	1	Metal	White	Poor	7.0	Positive	

Table 1
Kingsbridge Armory
XRF Survey Data

Date	Shot #	Room	Component	Wall	Substrate	Color	Condition	XRF Reading	Classification	Sample ID
7/27	694	Southwest corner	Steel structure	1	Metal	Green	Poor	>9.9	Positive	
7/27	695	Southwest corner	Lower wall	1	Brick	Brown	Poor	5.7	Positive	
7/27	696	Southwest corner	Pipe riser	1	Metal	Brown	Poor	7.9	Positive	
7/27	697	Southwest corner	Radiator cover	1	Metal	Brown	Poor	4.2	Positive	
7/27	698	Southwest corner	Steel structure	1	Metal	Yellow	Poor	>9.9	Positive	
7/27	699	Southwest corner	Steel structure	1	Metal	Brown	Poor	>9.9	Positive	
7/27	700	Southwest corner	Lower wall	1	Brick	Grey	Poor	>9.9	Positive	
7/27	701	Southwest corner	Pipe riser	1	Metal	Grey	Poor	>9.9	Positive	
7/27	702	Southwest corner	Steel structure	1	Metal	Grey	Poor	>9.9	Positive	
7/27	703	Drill floor	Radaitor	1	Metal	Grey	Poor	1.9	Positive	
7/27	704	Drill floor	Steel structure	1	Metal	White	Poor	5.8	Positive	
7/27	705	Drill floor	Upper wall	1	Concrete	White	Poor	-0.0		
7/27	706	Drill floor	Lower wall	1	Concrete	Brown	Poor	0.2		
7/27	707	Garage	Door case	2	Metal	Yellow	Fair	0.7		
7/27	708	Drill floor	Safety post	2	Metal	Yellow	Fair	5.3		
7/27	709	Drill floor	Door	3	Wood	Brown	Poor	3.5	Positive	
7/27	710	Drill floor	Door case	3	Wood	Brown	Poor	3.1	Positive	
7/27	711	Drill floor	Upper wall	3	Brick	Grey	Poor	5.7	Positive	
7/27	712	Drill floor	Lower wall	3	Brick	Brown	Poor	4.0	Positive	
7/27	713	Drill floor	Radiator cover	3	Metal	Brown	Poor	3.4	Positive	
7/27	714	Drill floor	Radiator	3	Metal	Brown	Poor	4.3	Positive	
7/27	715	Drill floor	Steel structure	3	Metal	Grey	Poor	>9.9	Positive	
7/27	716	Drill floor	Steel structure	3	Metal	Brown	Poor	>9.9	Positive	
7/27	717	Drill floor	Steel structure	3	Metal	Green	Poor	>9.9	Positive	

Table 1
Kingsbridge Armory
XRF Survey Data

Date	Shot #	Room	Component	Wall	Substrate	Color	Condition	XRF Reading	Classification	Sample ID
7/27	718	Drill floor	Upper wall	3	Concrete	White	Poor	0.4		
7/27	719	Drill floor	Lower wall	3	Concrete	Brown	Poor	-0.0		
7/27	720	Drill floor	Door	3	Metal	Brown	Poor	0.2		
7/27	721	Drill floor	Door case	3	Metal	Brown	Poor	0.4		
7/27	722	Drill floor	Wall	3	Wood	Blue	Poor	3.6	Positive	
7/27	723	Drill floor	Wall	3	Wood	Red	Poor	0.1		
7/27	724	Drill floor	Upper wall	3	Wood	White	Poor	-0.1		
7/27	725	Drill floor	Lower wall	3	Wood	Brown	Poor	0.0		
7/27	726	Drill floor	Upper wall	3	Brick	Lt. Grey	Poor	3.6	Positive	
7/27	727	Drill floor	Lower wall	3	Brick	Grey	Poor	>9.9	Positive	
7/27	728	Drill floor	Floor	6	Concrete	Grey	Poor	1.0	Positive	
7/28	729	Calibrate						1.7		
7/28	730	Calibrate						1.9	Avg. 1.7	
7/28	731	Calibrate						1.8		
7/28	732	Calibrate						1.8		
7/28	733	Calibrate						1.9	Avg. 1.8	
7/28	734	Calibrate						1.8		
7/28	735	Drill floor	Gate	4	Metal	Green	Poor	0.0		
7/28	736	Drill floor	Gate case	4	Metal	Green	Poor	2.1	Positive	
7/28	737	Drill floor	Upper wall	4	Brick	White	Poor	0.0		
7/28	738	Drill floor	Lower	1	Brick	Brown	Poor	>9.9	Positive	
7/28	739	By office 1-W2	Hand rail	1	Metal	Grey	Poor	0.3		
7/28	740	By office 1-W2	Newel post	1	Metal	Grey	Poor	0.3		
7/28	741	Drill floor	Stringer	1	Metal	Grey	Poor	9.3	Positive	

Table 1
Kingsbridge Armory
XRF Survey Data

Date	Shot #	Room	Component	Wall	Substrate	Color	Condition	XRF Reading	Classification	Sample ID
7/28	742	Drill floor	Side of mezz. deck	1	Metal	Green	Poor	8.4	Positive	
7/28	743	Drill floor	Side of mezz. deck	1	Metal	White	Poor	5.7	Positive	
7/28	744	Drill floor	Hand rail	1	Metal	Grey	Poor	3.0	Positive	
7/28	745	Drill floor	Newel post	1	Metal	Grey	Poor	>9.9	Positive	
7/28	746	Drill floor	Stringer	1	Metal	Grey	Poor	9.6	Positive	
7/28	747	Drill floor	Hand rail	3	Metal	Grey	Poor	2.1	Positive	
7/28	748	Drill floor	Newel post	3	Metal	Grey	Poor	>9.9	Positive	
7/28	749	Drill floor	Stringer	3	Metal	Grey	Poor	9.0	Positive	
7/28	750	Drill floor balcony	Window sill	3	Wood	White	Poor	2.7	Positive	
7/28	751	Drill floor balcony	Window apron	3	Wood	Grate	Poor	0.7		
7/28	752	Drill floor balcony	Metal structure	3	Metal	Green	Poor	>9.9	Positive	
7/28	753	Drill floor balcony	Radiator	3	Metal	Green	Poor	>9.9	Positive	
7/28	754	Drill floor balcony	Metal structure	3	Metal	Green	Poor	9.7	Positive	
7/28	755	Drill floor balcony	Fence	3	Metal	Green	Poor	1.7	Positive	
7/28	756	Drill floor balcony	Chair	3	Metal	Black	Poor	-0.1		
7/28	757	Drill floor balcony	Chair	1	Metal	Black	Poor	5.0	Positive	
7/28	758	Drill floor balcony	Metal structure	3	Metal	Green	Poor	5.4	Positive	
7/28	759	Drill floor balcony	Chair	1	Metal	Black	Poor	0.1		
7/28	760	Drill floor balcony	Fence	3	Metal	Green	Poor	3.8	Positive	
7/28	761	Drill floor balcony	Metal structure	1	Metal	Green	Poor	7.6	Positive	
7/28	762	Drill floor balcony	Fence	1	Metal	Green	Poor	2.0	Positive	
7/28	763	Drill floor balcony	Chair	1	Wood	Black	Poor	-0.0		
7/28	764	Drill floor balcony	Chair	1	Metal	Black	Poor	0.5		
7/28	765	Drill floor balcony	Wall	1	Brick	White	Poor	2.7	Positive	

Table 1
Kingsbridge Armory
XRF Survey Data

Date	Shot #	Room	Component	Wall	Substrate	Color	Condition	XRF Reading	Classification	Sample ID
7/28	766	Drill floor balcony	Steel structure	1	Metal	Green	Poor	>9.9	Positive	
7/28	767	Drill floor balcony	Chair	1	Wood	Black	Poor	0.1		
7/28	768	Drill floor balcony	Chair	1	Metal	Black	Poor	0.5		
7/28	769	Drill floor balcony	Wall	1	Brick	White	Poor	0.0		
7/28	770	Drill floor balcony	Steel structure	1	Metal	Green	Poor	>9.9	Positive	
7/28	771	Drill floor balcony	Fence	1	Metal	Green	Poor	2.5	Positive	
7/28	772	Drill floor balcony	Wall	1	Brick	White	Poor	-0.1		
7/28	773	Homeless shelter corridor	Door	1	Metal	Purple	Fair	-0.0		
7/28	774	Homeless shelter corridor	Door case	1	Metal	Purple	Fair	0.1		
7/28	775	Homeless shelter corridor	Upper wall	1	Sheetrock	Pink	Fair	0.2		
7/28	776	Homeless shelter corridor	Upper wall	6	Sheetrock	Pink	Fair	0.1		
7/28	777	Homeless shelter corridor	Upper wall	3	Sheetrock	Pink	Fair	0.1		
7/28	778	Homeless shelter corridor	Upper wall	4	Sheetrock	Pink	Fair	-0.1		
7/28	779	Homeless shelter corridor	Lower wall	1	Sheetrock	Purple	Fair	-0.0		
7/28	780	Homeless shelter corridor	Lower wall	2	Sheetrock	Purple	Fair	-0.1		

Table 1
Kingsbridge Armory
XRF Survey Data

Date	Shot #	Room	Component	Wall	Substrate	Color	Condition	XRF Reading	Classification	Sample ID
7/28	781	Homeless shelter corridor	Lower wall	3	Sheetrock	Purple	Fair	-0.2		
7/28	782	Homeless shelter corridor	Lower wall	4	Sheetrock	Purple	Fair	-0.1		
7/28	783	Homeless shelter corridor	Door	4	Metal	Red	Fair	-0.1		
7/28	784	Homeless shelter corridor	Door case	4	Metal	Red	Fair	-0.0		
7/28	785	E dorm	Door	1	Metal	Blue	Fair	-0.0		
7/28	786	E dorm	Door case	1	Metal	Blue	Fair	-0.0		
7/28	787	E dorm	Upper wall	1	Sheetrock	Lt. Blue	Fair	-0.0		
7/28	788	E dorm	Upper wall	2	Sheetrock	Lt. Blue	Fair	-0.2		
7/28	788	E dorm	Upper wall	3	Plaster	Lt. Blue	Fair	-0.1		
7/28	789	E dorm	Upper wall	4	Plaster	Lt. Blue	Fair	>9.9	Positive	
7/28	790	E dorm	Lower wall	1	Sheetrock	Dark blue	Fair	-0.2		
7/28	791	E dorm	Lower wall	2	Sheetrock	Dark blue	Fair	-0.1		
7/28	792	E dorm	Lower wall	3	Plaster	Dark blue	Fair	>9.9	Positive	
7/28	793	E dorm	Lower wall	4	Plaster	Dark blue	Fair	>9.9	Positive	
7/28	794	E dorm	Window sill	3	Wood	Blue	Fair	>9.9	Positive	
7/28	795	E dorm	Window case	3	Wood	Blue	Fair	>9.9	Positive	
7/28	796	E dorm	Window sash	3	Wood	Blue	Fair	>9.9	Positive	
7/28	797	E dorm	Window apron	3	Wood	Blue	Fair	-0.1		
7/28	798	E dorm	Radiator	3	Metal	Blue	Fair	0.5		
7/28	799	E dorm	Hand rail	4	Metal	Black	Fair	0.5		

Table 1
Kingsbridge Armory
XRF Survey Data

Date	Shot #	Room	Component	Wall	Substrate	Color	Condition	XRF Reading	Classification	Sample ID
7/28	800	E dorm	Stair tread	4	Concrete	Brown	Fair	0.0		
7/28	801	E dorm	Stair riser	4	Concrete	Brown	Fair	0.1		
7/28	802	E dorm	Pipe riser	3	Metal	Blue	Fair	>9.9	Positive	
7/28	803	E dorm	Partition	6	Wood	Blue	Fair	-0.0		
7/28	804	E dorm	Ceiling	5	Concrete	White	Fair	>9.9	Positive	
7/28	805	E dorm	Dujct	5	Metal	Beige	Fair	0.7		
7/28	806	D dorm	Door	1	Metal	Pink	Fair	-0.1		
7/28	807	D dorm	Door case	1	Metal	Pink	Fair	-0.0		
7/28	808	D dorm	Upper wall	1	Sheetrock	Beige	Fair	-0.1		
7/28	809	D dorm	Upper wall	2	Sheetrock	Beige	Fair	-0.1		
7/28	810	D dorm	Upper wall	3	Sheetrock	Beige	Fair	-0.3		
7/28	811	D dorm	Upper wall	4	Sheetrock	Beige	Fair	-0.0		
7/28	812	D dorm	Lower wall	1	Sheetrock	Pink	Fair	-0.1		
7/28	813	D dorm	Lower wall	2	Sheetrock	Pink	Fair	-0.1		
7/28	814	D dorm	Lower wall	3	Sheetrock	Pink	Fair	-0.0		
7/28	815	D dorm	Lower wall	4	Sheetrock	Pink	Fair	-0.1		
7/28	816	D dorm	Window sill	3	Wood	Pink	Fair	>9.9	Positive	
7/28	817	D dorm	Window case	3	Wood	Pink	Fair	>9.9	Positive	
7/28	818	D dorm	Window sash	3	Wood	Pink	Fair	>9.9	Positive	
7/28	819	D dorm	Window apron	3	Wood	Pink	Fair	-0.1		
7/28	820	D dorm	Radiator	3	Metal	Pink	Poor	3.2	Positive	
7/28	821	D dorm	Partition	3	Wood	Pink	Poor	-0.1		
7/28	822	D dorm	Duct	5	Metal	Beige	Fair	0.5		
7/28	823	D dorm	Ceiling	5	Concrete	Beige	Fair	>9.9	Positive	

Table 1
Kingsbridge Armory
XRF Survey Data

Date	Shot #	Room	Component	Wall	Substrate	Color	Condition	XRF Reading	Classification	Sample ID
7/28	824	B dorm	Door	1	Metal	Brown	Fair	-0.2		
7/28	825	B dorm	Door case	1	Metal	Purple	Fair	-0.1		
7/28	826	B dorm	Upper wall	1	Sheetrock	Beige	Fair	-0.2		
7/28	827	B dorm	Upper wall	2	Sheetrock	Beige	Fair	-0.1		
7/28	828	B dorm	Upper wall	3	Plaster	Beige	Fair	>9.9	Positive	
7/28	829	B dorm	Upper wall	4	Sheetrock	Beige	Fair	-0.2		
7/28	830	B dorm	Lower wall	1	Sheetrock	Yellow	Fair	0.0		
7/28	831	B dorm	Lower wall	2	Sheetrock	Yellow	Fair	-0.0		
7/28	832	B dorm	Lower wall	3	Plaster	Yellow	Fair	>9.9	Positive	
7/28	833	B dorm	Lower wall	4	Sheetrock	Yellow	Fair	-0.1		
7/28	834	B dorm	Window sill	3	Wood	Yellow	Fair	-0.1		
7/28	835	B dorm	Window case	3	Wood	Yellow	Fair	8.9	Positive	
7/28	836	B dorm	Window sash	3	Wood	Yellow	Fair	6.3	Positive	
7/28	837	B dorm	Window apron	3	Wood	Yellow	Fair	0.2		
7/28	838	B dorm	Radiator	3	Metal	Yellow	Fair	0.2		
7/28	839	B dorm	Duct	5	Metal	Beige	Fair	0.7		
7/28	840	B dorm	Ceiling	5	Concrete	Beige	Fair	9.7	Positive	
7/28	841	A dorm	Door	1	Metal	Peach	Fair	-0.1		
7/28	842	A dorm	Door case	1	Metal	Peach	Fair	-0.1		
7/28	843	A dorm	Upper wall	1	Sheetrock	Pink	Fair	-0.0		
7/28	844	A dorm	Upper wall	2	Plaster	Pink	Fair	>9.9	Positive	
7/28	845	A dorm	Upper wall	3	Plaster	Pink	Fair	>9.9	Positive	
7/28	846	A dorm	Upper wall	4	Sheetrock	Pink	Fair	0.0		
7/28	847	A dorm	Lower wall	1	Sheetrock	Peach	Fair	-0.3		

Table 1
Kingsbridge Armory
XRF Survey Data

Date	Shot #	Room	Component	Wall	Substrate	Color	Condition	XRF Reading	Classification	Sample ID
7/28	848	A dorm	Lower wall	2	Plaster	Peach	Fair	0.0		
7/28	849	A dorm	Lower wall	3	Plaster	Peach	Fair	>9.9	Positive	
7/28	850	A dorm	Lower wall	4	Sheetrock	Peach	Fair	-0.0		
7/28	851	A dorm	Window sill	3	Wood	Peach	Fair	>9.9	Positive	
7/28	852	A dorm	Window case	3	Wood	Peach	Fair	>9.9	Positive	
7/28	853	A dorm	Window sash	3	Wood	Peach	Fair	5.9	Positive	
7/28	854	A dorm	Window apron	3	Wood	Peach	Fair	0.0		
7/28	855	A dorm	Radiator	3	Metal	Peach	Fair	-0.0		
7/28	856	A dorm	Pipe riser	3	Metal	Peach	Fair	0.4		
7/28	857	A dorm	Duct	3	Metal	Pink	Fair	>9.9	Positive	
7/28	858	A dorm	Ceiling	5	Concrete	Beige	Fair	>9.9	Positive	
7/28	859	A dorm	Duct	5	Metal	Beige	Fair	0.7		
7/28	860	A dorm	Partition	6	Wood	Pink	Fair	0.1		
7/28	861	Foyer, exit B	Door	1	Metal	Red	Fair	0.4		
7/28	862	Foyer, exit B	Door case	1	Metal	Red	Fair	1.6	Positive	
7/28	863	Foyer, exit B	Wall	1	Plaster	White	Fair	-0.1		
7/28	864	Foyer, exit B	Wall	2	Sheetrock	White	Fair	-0.1		
7/28	865	Foyer, exit B	Wall	3	Plaster	White	Fair	>9.9	Positive	
7/28	866	Foyer, exit B	Wall	4	Plaster	White	Fair	>9.9	Positive	
7/28	867	Foyer, exit B	Ceiling	5	Concrete	White	Fair	>9.9	Positive	
7/28	868	Foyer, exit B	Floor	6	Concrete	Grey	Poor	0.1		
7/28	869	Foyer, exit B	Hand rail	4	Metal	Black	Poor	0.4		
7/28	870	Foyer, exit B	Stair tread	4	Concrete	Black	Poor	0.4		
7/28	871	Foyer, exit B	Stair riser	4	Concrete	Black	Poor	0.4		

Table
Kingsbridge Armory
XRF Survey Data

Date	Shot #	Room	Component	Wall	Substrate	Color	Condition	XRF Reading	Classification	Sample ID
7/28	872	Foyer, exit B	Stringer	4	Concrete	Black	Fair	1.0	Positive	
7/28	873	National Guard area, entry foyer	Door	1	Metal	Grey	Fair	6.2	Positive	
7/28	874	National Guard area, entry foyer	Door case	1	Metal	Grey	Fair	5.2	Positive	
7/28	875	National Guard area, entry foyer	Door screen	1	Metal	Black	Fair	0.6		
7/28	876	National Guard area, entry foyer	Wndow case	4	Metal	Beige	Fair	2.7	Positive	
7/28	877	National Guard area, entry foyer	Window sash	4	Metal	Beige	Fair	3.7	Positive	
7/28	878	1st floor, corridor	Door case	1	Metal	Grey	Fair	0.1		
7/28	879	1st floor, corridor	Upper wall	1	Concrete	Ivory	Fair	1.3	Positive	
7/28	880	1st floor, corridor	Upper wall	2	Concrete	Ivory	Fair	1.0	Positive	
7/28	881	1st floor, corridor	Upper wall	3	Concrete	Ivory	Fair	1.3	Positive	
7/28	882	1st floor, corridor	Upper wall	4	Concrete	Ivory	Fair	-0.1		
7/28	883	1st floor, corridor	Lower wall	1	Concrete	Grey	Fair	0.4		
7/28	884	1st floor, corridor	Lower wall	2	Concrete	Grey	Fair	1.0	Positive	
7/28	885	1st floor, corridor	Lower wall	3	Concrete	Grey	Fair	1.4	Positive	
7/28	886	1st floor, corridor	Lower wall	4	Concrete	Grey	Fair	1.0	Positive	
7/28	887	1st floor, corridor	Radiator	3	Metal	Grey	Fair	0.6		
7/28	888	1st floor, corridor	Window sill	1	Concrete	Ivory	Fair	1.0	Positive	
7/28	889	1st floor, corridor	Window case	1	Metal	Black	Fair	1.6	Positive	
7/28	890	1st floor, corridor	Window sash	1	Metal	Black	Fair	2.5	Positive	

Table 7
Kingsbridge Armory
XRF Survey Data

Date	Shot #	Room	Component	Wall	Substrate	Color	Condition	XRF Reading	Classification	Sample ID
7/28	891	1st floor, corridor	Ceiling	5	Sheetrock	Ivory	Fair	-0.0		
7/28	892	1st floor, corridor	Floor	6	Concrete	Grey	Fair	-0.2		
7/28	893	1st floor, corridor	Door	2	Metal	Red	Fair	-0.1		
7/28	894	1st floor, corridor	Door case	2	Metal	Red	Fair	-0.0		
7/28	895	2nd floor, corridor	Door	2	Wood	Stained	Fair	0.7		
7/28	896	2nd floor, corridor	Door case	2	Metal	Grey	Fair	1.4	Positive	
7/28	897	Office 2-14	Door	1	Wood	Grey	Fair	-0.3		
7/28	898	Office 2-14	Door case	1	Metal	Grey	Fair	1.6	Positive	
7/28	899	Office 2-14	Wall	1	Concrete	Ivory	Fair	1.4	Positive	
7/28	900	Office 2-14	Wall	2	Concrete	Ivory	Fair	1.7	Positive	
7/28	901	Office 2-14	Wall	3	Concrete	Ivory	Fair	1.3	Positive	
7/28	902	Office 2-14	Window sill	3	Concrete	Black	Fair	1.9	Positive	
7/28	903	Office 2-14	Window case	3	Metal	Black	Fair	4.0	Positive	
7/28	904	Office 2-14	Window sash	3	Metal	Black	Fair	2.8	Positive	
7/28	905	Office 2-14	Radiator	3	Metal	Black	Fair	0.6		
7/28	906	Office 24, staircase	Door	1	Metal	Brown	Fair	1.7	Positive	
7/28	907	Office 24, staircase	Upper wall	1	Concrete	Ivory	Fair	0.3		
7/28	908	Office 24, staircase	Upper wall	2	Concrete	Ivory	Fair	2.1	Positive	
7/28	909	Office 24, staircase	Upper wall	3	Concrete	Ivory	Fair	0.3		
7/28	910	Office 24, staircase	Upper wall	4	Concrete	Ivory	Fair	0.5		
7/28	911	Office 24, staircase	Lower wall	1	Metal	Grey	Fair	0.5		
7/28	912	Office 24, staircase	Lower wall	2	Metal	Grey	Fair	0.5		
7/28	913	Office 24, staircase	Lower wall	3	Metal	Grey	Fair	0.5		
7/28	914	Office 24, staircase	Lower wall	4	Metal	Grey	Fair	0.5		

Table 1
Kingsbridge Armory
XRF Survey Data

Date	Shot #	Room	Component	Wall	Substrate	Color	Condition	XRF Reading	Classification	Sample ID
7/28	915	Office 24, staircase	Window case	3	Metal	Ivory	Fair	1.6	Positive	
7/28	916	Office 24, staircase	Window sash	3	Metal	Ivory	Fair	2.6	Positive	
7/28	917	Office 24, staircase	Hand rail	3	Metal	Black	Fair	5.2	Positive	
7/28	918	Office 24, staircase	Newel post	3	Metal	Black	Fair	1.9	Positive	
7/28	919	Office 24, staircase	Stair tread	3	Concrete	Grey	Fair	-0.1		
7/28	920	Office 24, staircase	Stair riser	3	Metal	Black	Fair	1.6	Positive	
7/28	921	Office 24, staircase	Stringer	3	Metal	Black	Fair	4.8	Positive	
7/28	922	Basement	Wall	1	Concrete	Blue	Fair	-0.1		
7/28	923	Basement	Wall	2	Concrete	Blue	Fair	-0.1		
7/28	924	Basement	Wall	3	Concrete	Blue	Fair	-0.1		
7/28	925	Basement	Wall	4	Concrete	Blue	Fair	-0.2		
7/28	926	Basement	Ceiling	5	Concrete	Blue	Fair	-0.0		
7/28	927	Basement	Door case	1	Metal	Red	Fair	0.3		
7/28	928	Basement	Duct	5	Metal	Blue	Fair	0.3		
7/28	929	Basement	Pipe riser	4	Metal	Blue	Fair	0.4		
7/28	930	Office 1-1	Door	1	Wood	Grey	Fair	-0.0		
7/28	931	Office 1-1	Door case	1	Metal	Grey	Fair	0.2		
7/28	932	Office 1-1	Wall	1	Concrete	Ivory	Fair	0.2		
7/28	933	Office 1-1	Wall	2	Concrete	Ivory	Fair	0.2		
7/28	934	Office 1-1	Wall	3	Concrete	Ivory	Fair	0.4		
7/28	935	Office 1-1	Wall	4	Concrete	Ivory	Fair	0.0		
7/28	936	Office 1-1	Baseboard	4	Concrete	Grey	Fair	0.4		
7/28	937	Office 1-1	Pipe riser	2	Metal	Ivory	Fair	0.5		
7/28	938	Office 1-1	Window case	2	Metal	Blue	Fair	3.3	Positive	

Table 1
Kingsbridge Armory
XRF Survey Data

Date	Shot #	Room	Component	Wall	Substrate	Color	Condition	XRF Reading	Classification	Sample ID
7/28	939	Office 1-1	Window sash	2	Metal	Blue	Fair	4.6	Positive	
7/28	940	Office 1-1	Ceiling	5	Sheetrock	White	Fair	0.0		
7/28	941	Office 1-1	Floor	6	Concrete	Grey	Fair	0.3		
7/28	942	National Guard garage	Door	1	Metal	Grey	Fair	1.8	Positive	
7/28	943	National Guard garage	Door case	1	Metal	Grey	Fair	0.2		
7/28	944	National Guard garage	Upper wall	2	Concrete	Lt. grey	Fair	0.1		
7/28	945	National Guard garage	Lower wall	2	Concrete	Dark grey	Fair	0.2		
7/28	946	National Guard garage	Upper wall	3	Concrete	Lt. grey	Fair	2.0	Positive	
7/28	947	National Guard garage	Lower wall	3	Concrete	Dark grey	Fair	2.0	Positive	
7/28	948	National Guard garage	Upper wall	4	Concrete	Lt. grey	Fair	-0.1		
7/28	949	National Guard garage	Lower wall	4	Concrete	Dark grey	Fair	0.0		
7/28	950	National Guard garage	Partition wall	4	Wood	Pink	Fair	-0.1		
7/28	951	National Guard garage	Upper wall	1	Concrete	Lt. grey	Fair	0.1		
7/28	952	National Guard garage	Lower wall	1	Concrete	Dark grey	Fair	0.1		
7/28	953	National Guard garage	Lower wall	1	Concrete	Red	Fair	-0.1		
7/28	954	National Guard garage	Window case	2	Metal	Grey	Poor	1.9	Positive	
7/28	955	National Guard garage	Floor	6	Concrete	Grey	Fair	-0.2		
7/28	956	National Guard garage	Ceiling	5	Concrete	Grey	Fair	-0.1		
7/28	957	National Guard garage	Beam	5	Metal	Grey	Fair	3.5	Positive	
7/28	958	National Guard garage	Floor	6	Concrete	Yellow	Fair	>9.9	Positive	
7/28	959	National Guard garage	Safety cover	2	Metal	Green	Fair	3.5	Positive	
7/28	960	National Guard garage	Control panel	4	Metal	Blue	Fair	0.0		
7/28	961	Calibrate						1.7		
7/28	962	Calibrate						1.9	Avg. 1.8	

Table 1
Kingsbridge Armory
XRF Survey Data

Date	Shot #	Room	Component	Wall	Substrate	Color	Condition	XRF Reading	Classification	Sample ID
7/28	963	Calibrate						1.8		
7/28	964	Basement, auditorium	Door	1	Wood	Green	Poor	0.4		
7/28	965	Basement, auditorium	Door case	1	Wood	Green	Poor	0.5		
7/28	966	Basement, auditorium	Upper wall	1	Plaster	Grey	Poor	-0.1		
7/28	967	Basement, auditorium	Upper wall	2	Plaster	Grey	Poor	-0.0		
7/28	968	Basement, auditorium	Upper wall	4	Plaster	Grey	Poor	-0.1		
7/28	969	Basement, auditorium	Lower wall	1	Plaster	Beige	Poor	-0.0		
7/28	970	Basement, auditorium	Lower wall	2	Plaster	Beige	Poor	0.2		
7/28	971	Basement, auditorium	Lower wall	4	Plaster	Beige	Poor	-0.1		
7/28	972	Basement, auditorium	Baseboard	1	Concrete	Grey	Poor	0.5		
7/28	973	Basement, auditorium	Column upper	6	Concrete	Grey	Poor	0.1		
7/28	974	Basement, auditorium	Column lower	6	Concrete	Beige	Poor	-0.0		
7/28	975	Basement, auditorium	Floor	6	Concrete	Grey	Poor	0.3		
7/28	976	Basement, auditorium	Ceiling	5	Concrete	Grey	Poor	-0.0		
7/28	977	Basement, auditorium	Stringer	1	Metal	Beige	Poor	>9.9	Positive	
7/28	978	Bsmnt, corridor stairs	Hand rail	6	Metal	Grey	Poor	7.9	Positive	
7/28	979	Bsmnt, corridor stairs	Newel post	6	Metal	Grey	Poor	4.9	Positive	
7/28	980	Bsmnt, corridor stairs	Stringer	6	Metal	Grey	Poor	>9.9	Positive	
7/28	981	Bsmnt, corridor stairs	Hand rail	6	Metal	Grey	Poor	5.8	Positive	
7/28	982	Bsmnt, corridor stairs	Newel post	6	Concrete	Grey	Poor	6.4	Positive	
7/28	983	Bsmnt, corridor stairs	Stringer	6	Concrete	Grey	Poor	4.5	Positive	
7/28	984	Bsmnt, corridor stairs	Ceiling	5	Concrete	White	Poor	0.3		
7/28	985	Lock RC3	Ceiling	5	Concrete	White	Poor	7.2	Positive	
7/28	986	Lock RC17	Ceiling	5	Concrete	White	Poor	0.0		

Table 1
Kingsbridge Armory
XRF Survey Data

Date	Shot #	Room	Component	Wall	Substrate	Color	Condition	XRF Reading	Classification	Sample ID
7/28	987	Gym	Ceiling	5	Concrete	Grey	Poor	-0.1		
7/28	988	Boiler R	Ceiling	5	Concrete	Grey	Poor	7.3	Positive	
7/28	989	Boiler R#1	Ceiling	5	Concrete	Grey	Poor	>9.9	Positive	
7/28	990	Boiler R#2	Ceiling	1	Concrete	Grey	Poor	0.3		
7/28	991	B40	Door case	1	Metal	Blue	Poor	1.7	Positive	
7/28	992	B40	Wall	1	Plaster	Yellow	Poor	-0.1		
7/28	993	B40	Wall	2	Plaster	Yellow	Poor	>9.9	Positive	
7/28	994	B40	Wall	3	Plaster	Yellow	Poor	>9.9	Positive	
7/28	995	B40	Wall	4	Plaster	Yellow	Poor	>9.9	Positive	
7/28	996	B40	Radiator	1	Metal	Silver	Poor	0.3		
7/28	997	B40	Window sill	3	Wood	Blue	Poor	0.2		
7/28	998	B40	Window case	3	Wood	Blue	Poor	0.3		
7/28	999	B40	Window sash	3	Wood	Blue	Poor	0.2		
7/28	1	B40	Window apron	3	Wood	Blue	Poor	0.2		
7/28	2	B40	Ceiling	5	Concrete	White	Poor	>9.9	Positive	
7/28	3	B40	Pipe riser	3	Metal	Blue	Poor	1.5	Positive	
7/28	4	B48	Door	1	Metal	Grey	Poor	4.5	Positive	
7/28	5	B48	Door case	1	Metal	Grey	Poor	7.8	Positive	
7/28	6	B48	Wall	1	Concrete	Yellow	Poor	-0.1		
7/28	7	B48	Wall	2	Concrete	Yellow	Poor	0.1		
7/28	8	B48	Wall	3	Brick	Yellow	Poor	0.1		
7/28	9	B48	Wall	4	Concrete	Green	Poor	0.0		
7/28	10	B48	Ceiling	5	Concrete	Green	Poor	0.0		
7/28	11	B48	Shelf	4	Wood	Grey	Poor	0.6		

Table 1
Kingsbridge Armory
XRF Survey Data

Date	Shot #	Room	Component	Wall	Substrate	Color	Condition	XRF Reading	Classification	Sample ID
7/28	12	B48	Shelf support	4	Wood	Grey	Poor	0.7		
7/28	13	Bsmnt, near RB3 stairs outside ext. of Kingsbridge Ave.	Hand rail	1	Metal	Grey	Poor	>9.9	Positive	
7/28	14	Bsmnt, near RB3 stairs outside ext. of Kingsbridge Ave.	Newel post	1	Metal	Grey	Poor	7.0	Positive	
7/28	15	Bsmnt, near RB3 stairs outside ext. of Kingsbridge Ave.	Stringer	1	Metal	Grey	Poor	8.8	Positive	
7/28	16	Bsmnt, near RB3 stairs outside ext. of Kingsbridge Ave.	Flag pole	1	Metal	Ivory	Poor	1.7	Positive	
7/28	17	Bsmnt, near RB3 stairs outside ext. of Kingsbridge Ave.	Flag pole base	1	Metal	Ivory	Poor	0.4		
7/28	18	Bsmnt, near RB3 stairs outside ext. of Kingsbridge Ave.	Artelery deco.	1	Metal	Ivory	Poor	1.5	Positive	
7/28	19	Bsmnt, near RB3 stairs outside ext. of Kingsbridge Ave.	Hand rail	1	Metal	Black	Poor	4.2	Positive	

Tab
Kingsbridge Armory
XRF Survey Data

Date	Shot #	Room	Component	Wall	Substrate	Color	Condition	XRF Reading	Classification	Sample ID
7/28	20	Bsmnt, near RB3 stairs outside ext. of Kingsbridge Ave.	Door	1	Metal	Black	Poor	1.6	Positive	
7/28	21	Bsmnt, near RB3 stairs outside ext. of Kingsbridge Ave.	Guard railing	1	Metal	Black	Poor	1.5	Positive	
7/28	22	Bsmnt, near RB3 stairs outside ext. of Kingsbridge Ave.	Fence	1	Metal	Black	Poor	2.8	Positive	
7/28	23	Bsmnt, near RB3 stairs outside ext. of Kingsbridge Ave.	Gate	1	Metal	Black	Poor	0.2		
7/28	24	Ext. Jerome Avenue.	Door	4	Metal	Black	Poor	-0.0		
7/28	25	Ext. Jerome Avenue.	Door case	4	Metal	Black	Poor	1.5	Positive	
7/28	26	Ext. Jerome Avenue.	Door guard	4	Metal	Black	Poor	0.2		
7/28	27	Ext. Jerome Avenue.	Window apron	4	Concrete	Black	Poor	0.1		
7/28	28	Ext. Jerome Avenue.	Vent	4	Metal	Black	Poor	5.7	Positive	
7/28	29	Ext. Jerome Avenue.	Window guard	4	Metal	Black	Poor	1.4	Positive	
7/28	30	National Guard office building	Wall	1	Brick	Green	Poor	-0.0		
7/28	30	National Guard office building	Gate	1	Metal	Black	Poor	4.1	Positive	
7/28	31	National Guard office building	Fence	1	Metal	Black	Poor	5.4	Positive	

Table 1
Kingsbridge Armory
XRF Survey Data

Date	Shot #	Room	Component	Wall	Substrate	Color	Condition	XRF Reading	Classification	Sample ID
7/28	32	National Guard office building	Hand rail	1	Metal	Grey	Poor	2.7	Positive	
7/28	33	National Guard office building	Door	1	Metal	Grey	Poor	5.4	Positive	
7/28	34	National Guard office building	Door case	1	Metal	Grey	Poor	3.9	Positive	
7/28	35	Exit	Gas guage	4	Metal	Yellow	Fair	1.8	Positive	
7/28	36	Exit	Gas guage	4	Metal	Grey	Fair	0.5		
7/28	37	Exit	Door	4	Metal	Grey	Fair	1.9	Positive	
7/28	38	Exit	Door case	4	Metal	Grey	Fair	5.3	Positive	
7/28	39	Exit	Hand rail	4	Metal	Grey	Fair	0.7		
7/28	40	Garage exit	Door case	1	Metal	Green	Fair	4.1	Positive	
7/28	41	Garage exit	Gate	1	Metal	Green	Fair	0.3		
7/28	42	Garage exit	Fence	1	Metal	Blak	Fair	3.1	Positive	
7/28	43	Garage exit	Door	2	Metal	Green	Fair	0.1		
7/28	44	Garage exit	Door case	2	Metal	Green	Fair	1.4	Positive	
7/28	45	Garage exit	Pipe riser	2	Metal	Green	Fair	1.7	Positive	
7/28	46	Garage exit	Window gate	1	Metal	Green	Fair	3.1	Positive	
7/28	47	Garage exit	Smoke stack door	2	Metal	Green	Fair	-0.0		
7/28	48	Garage exit	Storage cont. wall	1	Metal	Green	Fair	-0.0		
7/28	49	Garage exit	Storage cont. wall	2	Metal	Green	Fair	0.4		
7/28	50	Garage exit	Storage cont. wall	4	Metal	Green	Fair	0.4		
7/28	51	Garage exit	Fence	4	Metal	Black	Fair	>9.9	Positive	
7/28	52	Garage exit	Door	4	Metal	Green	Fair	3.5	Positive	

Table 1
Kingsbridge Armory
XRF Survey Data

Date	Shot #	Room	Component	Wall	Substrate	Color	Condition	XRF Reading	Classification	Sample ID
7/28	53	Garage exit	Door	4	Metal	Yellow	Fair	1.7	Positive	
7/28	54	Garage exit	Safety corner	4	Metal	Yellow	Fair	7.0	Positive	
7/28	55	Garage exit	Safety corner	4	Metal	Green	Fair	5.7	Positive	
7/28	56	Garage exit	Door	4	Metal	Green	Fair	1.7	Positive	
7/28	57	Garage exit	Door case	4	Metal	Green	Fair	>9.9	Positive	
7/28	58	Garage exit	Window guard	4	Metal	Green	Fair	2.4	Positive	
7/28	59	Garage exit	Drain pipe	4	Metal	Green	Fair	0.1		
7/28	60	Garage exit	Pipe riser	4	Metal	Green	Fair	0.6		
7/28	61	Calibrate						1.8		
7/28	62	Calibrate						1.7	Avg. 1.8	
7/28	63	Calibrate						1.9		

ATC ASSOCIATES, INC
104 E 25th Street, 10th Floor
New York, NY 10010
Tel. 212-353-8280
Fax 212-353-8306

REPORT DATE: 08-14-00

CLIENT: ET Environmetal

PROJECT No: 75018.0001

SAMPLED BY: F. Burkhardt

SAMPLE DATE: 08-11-00
DATE RECEIVED: 08-13-00
DATE ANALYZED: 08-13-00

SAMPLE MEDIA: Paint Chips
ANALYSIS REQUIRED: Method EPA 3050/7420

ANALYSIS RESULTS

SAMPLE ID	BATCH NO.	SAMPLE DESCRIPTION	LEAD CONCENTRATION (% by weight)	DETECTION LIMIT
1	8583	Rifle. R. - Aband.	0.07	0.01
2	8583	Rifle R. - Active	0.04	0.01
3	8583	Pistol 1-4	1.17	0.01
4	8583	Pistol 9-12	56.67	0.01
C-1	8583	Steel Truss	32.21	0.01
C-2	8583	Steel Truss	39.68	0.01
C-3	8583	Steel Truss	16.56	0.01
C-4	8583	Steel Truss	21.66	0.01
C-5	8583	Steel Truss	8.92	0.01
C-6	8583	Steel Truss	0.46	0.01

NOTE 1:
THE REPORTING LIMIT (RL) IS 0.01%

NOTE 2:
HUD defines lead-based paint as paint having a lead concentration equal to or above 0.5% by weight.
Results preceded by "<" are below the detectable levels by this analysis method.

ATC ASSOCIATES, INC
104 E 25th Street, 10th Floor
New York, NY 10010
Tel. 212-353-8280
Fax 212-353-8306

CERTIFICATION AND SIGNATURES

ANALYSIS PERFORMED BY: Tc

REPORT PREPARED BY: [signature]

ATC certifies that this report is an accurate and authentic report of results obtained from the laboratory analysis.

QUALITY ASSURANCE COORDINATOR: [signature]

LABORATORY DIRECTOR: [signature]

ATC is accredited by the New York State Department of Health Environmental Laboratory Approval Program (NYS DOH ELAP) to perform analysis of lead in paint and dust wipes (ELAP #10879).

ATC ASSOCIATES INC.

104 EAST 25TH STREET
NEW YORK, NY 10010
PHONE: 212-353-8280 FAX: 212-979-8447

8582

CHAIN OF CUSTODY

CLIENT NAME: ET ENVIRONMENTAL

SITE ADDRESS: KINGSBRIDGE ARMORY

JOB #: 75018.0001

SAMPLE TYPE (Paint Chip, Dust Wipe, etc...): CHIP / GRAB

OF SAMPLES: 10

SAMPLED BY: F. BURICHARDT

ANALYSIS REQUIRED (AAS-mg/sq.cm, etc...): PB-AAS 0/0 WT

TURN AROUND TI: SAME DAY

	SAMPLE I.D.	DATE	SAMPLE DESCRIPTION/LOCATION	AREA (in x in)	D.L.	RESULT OF ANAL
1	1	8/11	RIFLE RANGE - ABANDONED	N/A		
2	2	"	" - ACTIVE	"		
3	3	"	PISTOL 1-4	"		
4	4	"	PISTOL 9-12	"		
5	C-1	"	STEEL TRUSS	"		
6	C-2	"	"	"		
7	C-3	"	"	"		
8	C-4	"	"	"		
9	C-5	"	"	"		
10	C-6	8/11	"	"		
	--			N/A		

RELINQUISHED BY (SIGNATURE BELOW)

PRINT NAME: (BELOW) BURICH ARDT

DATE/TIME 8/14

RECEIVED BY: (SIGNATURE BELOW)

PRINT NAME: (BELOW)

DATE/TIME

RELINQUISHED BY (SIGNATURE BELOW)

PRINT NAME: (BELOW)

DATE/TIME

RECEIVED BY: (SIGNATURE BELOW)

PRINT NAME: (BELOW)

DATE/TIME 8/15/00 10 am

RESULTING PROVIDED BY:

LABORATORY DIRECTOR (SIGNATURE)

AIHA NLLAP #

PRINT NAME: (BELOW)

DATE/TIME

ATC ASSOCIATES, INC
104 E 25th Street, 10th Floor
New York, NY 10010
Tel. 212-353-8280
Fax 212-353-8306

REPORT DATE: 07-31-00

CLIENT: ET

PROJECT ADDRESS: Kingsbridge Armory

SAMPLE BY: M. Medinets

SAMPLE DATE: 07-24-00
DATE RECEIVED: 07-28-00
DATE ANALYZED: 07-28-00

SAMPLE MEDIA: Paint Chips
ANALYSIS REQUIRED: Method EPA 3050/7420

ANALYSIS RESULTS

SAMPLE ID	BATCH NO.	SAMPLE DESCRIPTION	LEAD CONCENTRATION (% by weight)	DETECTION LIMIT
01	8553	Stair Tread Sub. Bsmt. (Boiler Room)	0.13	0.01
02	8553	Control Panel Rm #3 Boiler Room	0.01	0.01
03	8553	Rm 4 Basment C16 Mez. Door	1.38	0.01

NOTE 1:
THE REPORTING LIMIT (RL) IS 0.01%

NOTE 2:
HUD defines lead-based paint as paint having a lead concentration equal to or above 0.5% by weight.
Results preceded by "<" are below the detectable levels by this analysis method.

CERTIFICATION AND SIGNATURES

ANALYSIS PERFORMED BY: _____

REPORT PREPARED BY: _____

ATC certifies that this report is an accurate and authentic report of results obtained from the laboratory analysis.

QUALITY ASSURANCE COORDINATOR: _____

LABORATORY DIRECTOR: _____

ATC is accredited by the New York State Department of Health Environmental Laboratory Approval Program (NYS DOH ELAP) to perform analysis of lead in paint and dust wipes (ELAP #10879).

ATC ASSOCIATES INC.
PAINT CHIP SAMPLING - CHAIN OF CUSTODY
104 EAST 25TH STREET, 10TH FLOOR
NEW YORK, NEW YORK 10010
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5553

PAGE___OF___
TOTAL # OF SAMPLES:___

ient Name: ET
Client Number: _____
Date: 7.24.00
oject Address: Kingsbridge Armory
Project Manager: F. Burkhardt
Turnaround Time: 24h
vestigator: _____
Room Number: _____
Required: % by weight

Sample Number	Component & Location	Condition of Paint Surface	Substrate	Surface Paint Color	Type of Structure	Detection Limit	Pb % by Weight
01	Stair tread Sub BSM (Boiler Room)	Intact / Fair / ✓ Poor	Sheetrock / Wood / ✓ Metal / Masonry / Plaster___Other	gray	Steel Structure / ✓ Commercial / Industrial / Residential	0.01	0.13
02	control panel R#3 boiler room	Intact / Fair / ✓ Poor	Sheetrock / Wood / ✓ Metal / Masonry / Plaster___Other	gray	Steel Structure / ✓ Commercial / Industrial / Residential	0.01	0.01
03	R#4 BSM C 16 Mez Door	Intact / Fair / ✓ Poor	Sheetrock / Wood / ✓ Metal / Masonry / Plaster___Other	gray	Steel Structure / Commercial / Industrial / Residential	0.01	1.38
		Intact / Fair / Poor	Sheetrock / Wood / Metal / Masonry / Plaster___Other		Steel Structure / Commercial / Industrial / Residential		
		Intact / Fair / Poor	Sheetrock / Wood / Metal / Masonry / Plaster___Other		Steel Structure / Commercial / Industrial / Residential		

OMMENTS: _____

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CHAIN OF CUSTODY RECORD

WORK ORDER NO. _____

SCILAB

SCILAB BOSTON, INC.

8 School Street Weymouth, MA 02189-8951
781 337-9334 / FAX 781 337-7642

DUE DATE _____

COMPANY: ATC ASSOCIATES
104 EAST 25TH ST - 10TH FL
NY, NY 10010

PHONE: 212-353-8780 FAX #: 212-353-8306

P.O.#: 75010-1

CLIENT CONTACT: _____

PROJECT #: KINGSBRIDGE ARMORY

SAMPLE TYPE
1. WATER 6. WIPES
2. SOIL 7. AIR CASSETTE
3. SLUDGE 8. OTHER
4. OIL
5. CHIPS

CONTAINER TYPE
P - PLASTIC
G - GLASS
V - VOA

SCILAB SAMPLE #	CLIENT SAMPLE IDENTIFICATION	SAMPLE TYPE	CONTAINER SIZE	CONTAINER TYPE	CONTAINER #	SAMPLING INFORMATION DATE	TIME	TECH	PRESERVATIVES	TCLP LEAD	SAMPLE pH at Login
	1	2		P						X	
	2	2		P						X	
	3	2		P						X	
	4	2		P						X	

REPORT PACKAGES
- MWRA ☐
- MA DEP ☐
- RDR ☐
- ASP A ☐
- ASP B ☐
- QC LEVEL 1 ☐
- QC LEVEL 2 ☐

SAMPLED BY: J. Burns

RELINQUISHED BY: FEDEX 8198 2057 4640 — DATE: 8/11/00 TIME: 1700

RELINQUISHED BY: J. Burns — DATE: 8/11/00 TIME: 1100

RELINQUISHED BY: _____ DATE: _____ TIME: _____

RECEIVED BY _____ DATE: _____ TIME: _____

RECEIVED BY _____ DATE: _____ TIME: _____

RECEIVED BY _____ DATE: _____ TIME: _____

Temperature upon receipt _____

SPECIAL INSTRUCTIONS

☐ 24 HOUR TAT ☐ 72 HOUR TAT

☒ 48 HOUR TAT ☐ 5 DAY TAT

TOTAL P.02

Shade areas for ___ ory use only.
Gold copy - Or ___ Retains
Pink copy - Ship ___

Canary, White and Yellow copies to the laboratory

ATC ASSOCIATES INC.

PAINT CHIP SAMPLING - CHAIN OF CUSTODY

104 EAST 25TH STREET, [illegible] FLOOR
NEW YORK, NEW YORK 10010
PHONE: 212-353-8280 FAX: 212-979-8447

PAGE 1 OF 1

TOTAL # OF SAMPLES: 3

Name: ET

Client Number:

Date: 7.24.00

Address: Kingsbridge Armory

Project Manager: F. Burkhardt

Turnaround Time: 24h

gator:

Room Number:

Required: % by weight

Sample Number	Component & Location	Condition of Paint Surface	Substrate	Surface Paint Color	Type of Structure	Detection Limit	Pb % by Weight
1	Stair tread Sub BSM (Boiler Room)	Intact / Fair / Poor ✓	Sheetrock / Wood / Metal ✓ / Masonry / Plaster___ Other	gray	Steel Structure / Commercial ✓ / Industrial / Residential		
2	control panel R#3 boiler room	Intact / Fair / Poor ✓	Sheetrock / Wood / Metal ✓ / Masonry / Plaster___ Other	gray	Steel Structure / Commercial ✓ / Industrial / Residential		
3	R#4 BSM C 16 Mez Door	Intact / Fair / Poor ✓	Sheetrock / Wood / Metal ✓ / Masonry / Plaster___ Other	gray	Steel Structure / Commercial ✓ / Industrial / Residential		
		Intact / Fair / Poor	Sheetrock / Wood / Metal / Masonry / Plaster___ Other		Steel Structure / Commercial / Industrial / Residential		
		Intact / Fair / Poor	Sheetrock / Wood / Metal / Masonry / Plaster___ Other		Steel Structure / Commercial / Industrial / Residential		

ITS:

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wpchip.xls

PHASE I
ENVIRONMENTAL SITE ASSESSMENT

KINGSBRIDGE ARMORY
29 WEST KINGSBRIDGE ROAD
BOROUGH OF THE BRONX – CITY OF NEW YORK

Prepared for



NEW YORK CITY
ECONOMIC DEVELOPMENT CORPORATION
110 WILLIAM STREET
NEW YORK, NEW YORK 10038

Prepared by

METCALF & EDDY | AECOM

METCALF & EDDY, INC.
1140 ROUTE 22 EAST, SUITE 101
BRIDGEWATER, NEW JERSEY 08807

PROJECT NO. 60013075.01

SEPTEMBER 2006

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EXECUTIVE SUMMARY

Metcalf & Eddy of New York, Inc. ("M&E") was retained by the New York City Economic Development Corporation ("EDC") to conduct a Phase I Environmental Site Assessment ("ESA") of a property identified as the Kingsbridge Armory (the "Armory") and located at 29 West Kingsbridge Road (the "Site") in the Borough of the Bronx, New York. The Site is identified by the New York City Department of Finance as Block 3247, Lot 2 and is located on five (5) acres and encompasses four (4) city blocks. The Armory is situated north of West Kingsbridge Road, south of West 195th Street, east of Reservoir Avenue and west of Jerome Avenue in the Kingsbridge Heights section of the Borough of the Bronx in the City of New York (the "City"). The Armory was designed by architects Pilcher and Tachau as a medieval, Romanesque-style fortress with towers and parapets and built between 1913 and 1917. The Armory is comprised of over 475,000 square feet of space and was formerly used as a staging area for military operations and training in the Bronx. Two (2) annex buildings are located north of the Armory along West 195th Street. The building located at 10 West 195th Street is a two (2) story concrete and brick structure and currently houses the State Armory National Guard Recruiting office and the 258th Field Artillery Unit. A one (1) story building located near the intersection of Reservoir Avenue and West 195th Street is used for vehicle storage by the National Guard. Major renovations to the Armory were conducted by Turner Construction between 2000 and 2005. The renovations included the roof above the drill floor, the company rooms and towers south of the drill floor, and asbestos abatement of the roofing material and piping insulation on the mezzanine level of the drill floor. The Site which is owned by the City, was designated a New York City landmark in September 1974 and was placed on the National Register of Historic Places in 1982.

An environmental database provided by Environmental Data Resources ("EDR") identified sites within the search radii where documented environmental impacts have occurred. Although the EDR database information did not include any documentation from which it could be concluded that the sites identified within the search radii have impacted the Site, it is possible that groundwater under the site has been impacted due to the industrial/commercial use of the surrounding area, and by potential contamination in on-site fill materials. However, it should be noted that the groundwater in this area is not used as a potable source.

During the Phase I ESA, a visual inspection of the Site was performed. The visual inspection identified three (3) 275 gallon above ground fuel oil tanks ("ASTs"). One (1) tank is located in the northeast corner of the building on the drill hall floor; the two (2) remaining tanks are located two (2) levels below the drill hall in the southwestern portion of the building, east of the former

bowling alley. None of the tanks appeared to contain significant amounts of product. A petroleum odor was detected in room B-20 located on the first level below the drill floor in the western portion of the building; however, no source for the odor could be located. Several 5-gallon pails of Esguard LubraKote Black, a flashing cement, were observed in several of the rooms on the second level below the drill hall in the western portion of the building. Cans of motor oil, brake fluid and other petroleum-based lubricants as well as empty gasoline cans were observed in the motor pool workshops located along the northern portion of the company rooms on the mezzanine of the second level below the drill floor. Ten (10) 55-gallon steel drums were observed in the parking/vehicle storage area located three (3) levels below the drill hall floor. The drums are beginning to show signs of deterioration with rust and holes present in several of the drums. The content of the drums is unknown, although most appear to be free of liquids. In addition, possible oil staining of the concrete near the center of the parking/vehicle storage area was observed as well as an area where the concrete floor was saw cut and backfilled with sand. This area may have once contained a UST.

Three (3) earthen floored rifle and pistol ranges were observed on the Site and are suspected to contain elevated concentrations of lead from spent munitions. The first pistol range is located on the second level below the motor pool workshops. Spent munitions were observed embedded in the wooden walls of pistol range. The other pistol/rifle ranges are located on the third level below the drill floor in the eastern portion of the building near Jerome Avenue. No spent munitions were observed at these ranges.

Deteriorating equipment such as the boiler located in the southwestern portion of the basement of the company rooms and air conditioning units located in the northeastern portion of the Armory, one (1) level beneath the drill hall may contain asbestos, lubricating oils and refrigerants. Peeling paint that may contain lead, light ballasts possibly containing polychlorinated biphenyls ("PCBs"), potential asbestos containing materials ("ACM") including pipe wrap and floor tiles and extensive mold growth was present in the majority of the company rooms located along the southern portion of the Armory and the company rooms beneath the drill hall. In addition, water damage to the walls, ceilings and floors of the upper level company rooms and turret rooms is prevalent.

In September 2000, ET Environmental submitted an Environmental Survey Report to the EDC prior to the roofing renovations to determine the presence of asbestos, lead-based paint ("LBP") and bird droppings. Samples collected in the vicinity of the work areas indicated non-friable asbestos and LBP were present on the Site. Additional sampling for PACM, LBP and a light ballast survey are recommended for the company rooms and the levels beneath the drill hall. A

survey of the 55 gallon drums should be conducted to include an inventory of the drums and a determination of the contents of the drums. Once completed, the drums and their contents should be properly disposed. It is also recommended that the three (3) ASTs be removed as well as the petroleum products in the motor pool workshops and the lower levels beneath the drill hall. Deteriorating equipment should also be properly removed from the site. In addition, the earthen floors of the pistol and rifle ranges and the spent rounds from the walls of the second level pistol range should be removed due to the potential presence of lead.

Additional recommendations could be warranted should potential environmental issues be identified by outstanding FOIL/Information requests submitted to the New York City Department of Environmental Protection, the New York City Department of Health, and the New York State Department of Health.

1.0 INTRODUCTION

Metcalf & Eddy of New York, Inc. ("M&E") was retained by the New York City Economic Development Corporation ("EDC") to conduct a Phase I Environmental Site Assessment ("ESA") of a property identified as the Kingsbridge Armory (the "Armory") and located at 29 West Kingsbridge Road (the "Site")in the Borough of the Bronx, New York. The Site is identified by the New York City Department of Finance as Block 3247, Lot 2 and is located on five (5) acres and encompasses four (4) city blocks. The Armory is situated north of West Kingsbridge Road, south of West 195th Street, east of Reservoir Avenue and west of Jerome Avenue in the Kingsbridge Heights section of the Borough of the Bronx in the City of New York (the "City"). The Armory was designed by architects Pilcher and Tachau as a medieval, Romanesque-style fortress with towers and parapets and built between 1913 and 1917. The Armory is comprised of over 475,000 square feet of space and was formerly used as a staging area for military operations and training in the Bronx. Two (2) annex buildings are located north of the Armory along West 195th Street. The building located at 10 West 195th Street is a two (2) story concrete and brick structure and currently houses the State Armory National Guard Recruiting office and the 258th Field Artillery Unit. A one (1) story building located near the intersection of Reservoir Avenue and West 195th Street is used for vehicle storage by the National Guard. Major renovations to the Armory were conducted by Turner Construction between 2000 and 2005. The renovations included the roof above the drill floor, the company rooms and towers south of the drill floor, and asbestos abatement of the roofing material and piping insulation on the mezzanine level of the drill floor. The Site which is owned by the City, was designated a New York City landmark in September 1974 and was placed on the National Register of Historical Places in 1982.

1.1 Purpose

The ESA was performed to determine if any potential environmental impacts occurred at or in the vicinity of the Site.

1.2 Report Outline

The report is divided into twelve (12) sections:

- Section 1 presents the introduction to the report;
- Section 2 details M&E's scope of work for this project;
- Section 3 provides information on the site background, setting, and operations;
- Section 4 provides details on the historical use and development of the site;

- Section 5 presents the results of the regulatory agency review;
- Section 6 presents the results of contacts with local agencies;
- Section 7 presents information provided by the client;
- Section 8 provides observations made during the site reconnaissance;
- Section 9 identifies facility personnel who were interviewed;
- Section 10 presents M&E's findings and conclusions;
- Section 11 presents a statement of limitations; and,
- Section 12 contains a list of references.

2.0 SCOPE OF WORK

2.1 Scope of Assessment

The purpose of the ESA was to evaluate the Site conditions with respect to potential impacts to soil or groundwater from petroleum products or hazardous substances. The scope of the ESA consisted of the performance of a site walk-through and visual site inspection with respect to environmental issues, interviews with key personnel, and requesting/reviewing local governmental files relating to environmental issues at the Site. An environmental database search (Appendix B), historical aerial photographs (Appendix C), Sanborn Fire Insurance Maps (Appendix D), historical topographic maps (Appendix E), a city directory search (Appendix F), and an Environmental Lien search (Appendix G) were obtained from Environmental Data Resources, Inc. ("EDR") in Southport, Connecticut.

2.2 Significant Assumptions

This Phase I ESA was prepared using information obtained from/provided by the following sources:

- Information provided by the client;
- Visual inspection of the subject site;
- Available published information;
- EDR database searches;
- Local/State government officials; and,
- Site/Owner representatives.

It is assumed that the information obtained through the above methods is valid and accurate as provided. The passage of time, manifestation of latent conditions, and occurrence of future events or changes to existing codes/regulations may alter the conclusions and recommendations of this report.

2.3 Limitations and Exceptions

Performance of the Phase I ESA was limited to a visual assessment of the Site.

2.4 Reliance

This report has been prepared on behalf of and for the exclusive use of the EDC and is subject to

and issued in connection with the Agreement and provisions thereof.

3.0 SITE BACKGROUND

3.1 Location

The Site is located at 29 West Kingsbridge Road on five (5) acres and encompassing four (4) city blocks in the Kingsbridge Heights section of the Borough of the Bronx (Figure 1). The geographic coordinates for the Site are 40° 52' 3.0" N, 73° 53' 51.0" W. The Site is identified by the City of New York Department of Finance as Block 3247, Lot 2.

The Site is comprised of an approximate 900,000 square foot building formerly used as a staging area for military operations and training in the Bronx. Two (2) annex buildings are located north of the Armory along West 195th Street. The building located at 10 West 195th Street is a two (2) story concrete and brick structure and currently houses the State Armory National Guard Recruiting office and the 258th Field Artillery Unit. A one (1) story building located near the intersection of Reservoir Avenue and West 195th Street is used for vehicle storage by the National Guard. The Site is approximately 130-140 feet above mean sea level ("msl"), based upon United States Geological Survey ("USGS") Central Park NY-NJ 7.5 Minute Quadrangle and EDR mapping obtained for the Site. A Site Plan is provided as Figure 2.

3.2 Geology/Hydrogeology

The area containing the Site lies within the glaciated Highlands physiographic province of New York. The bedrock geology in the area, described in a report titled Geology and Engineering Geology of the New York Metropolitan Area, Field Trip Guidebook T361 (Baskerville 1989) prepared for the 28th International Geological Congress, consists of the Fordham Gneiss of Proterozoic age. Surficial deposits in the region are mapped as glacial till (Cadwell et al 1986). Depending upon the specific location in the region the overburden material could also include fluvial, marine-tidal marsh, and recent fill deposits. Many low-lying areas have been historically filled to accommodate development. The bedrock surface is reportedly greater than 20 feet below grade near the Site, but large outcrops are visible east of Third Avenue. The outcrop appears to be associated with the Fordham Gneiss, member C, which consists of a fine-grained schist with biotite-muscovite-quartz interlayers.

Soils in New York City are typically classified as "Urban Land", a generic description of soils that have been buried, re-worked, or otherwise altered as a result of human activities. The buried, native soils in the general area of the Site are believed to be composed of loamy sand, silt loam, sandy loam and fine sandy loam. The deeper soil types are believed to consist of very gravelly-loamy sand, and stratified sandy loam. It is likely that the original soils at the Site developed on

glacial material.

3.3 Description of Facilities

The Armory was designed by architects Pilcher and Tachau as a medieval, Romanesque-style fortress with towers and parapets and built between 1913 and 1917. The Armory is located on five (5) acres encompassing four (4) city blocks and was formerly used as a staging area for military operations and training in the Bronx. Two (2) annex buildings are located north of the Armory along West 195th Street. The building located at 10 West 195th Street is a two (2) story concrete and brick structure and currently houses the State Armory National Guard Recruiting office and the 258th Field Artillery Unit. A one (1) story building located near the intersection of Reservoir Avenue and West 195th Street is used for vehicle storage by the National Guard. Major roof renovations to the metal and glass roof spanning the drill hall and to the flat roof behind the parapets above the company rooms located south of the drill hall were conducted between 2000 and 2005.

Three (3) levels exist beneath the drill hall floor. These levels include additional company rooms and work shops, a theater and lecture hall, a former gymnasium and basketball court, a former bowling alley, rifle and pistol ranges, and a subterranean parking/vehicle storage space. The company rooms on the upper levels are largely comprised of living quarters, office/administrative space, dining and entertainment rooms (including a library, bar and sitting rooms). Below the drill floor level, the company rooms consist of work shops, nurses' aid stations, locker rooms and the boiler room.

3.4 Facility Operations

The Site is managed by Apple Industrial who currently employs two (2) full–time workers to maintain the Site. The eastern portion of the drill hall of the Armory is occupied by the City of New York Community Assistance Unit, Anti-Graffiti Task Force. The task force parks vehicles on the Site and occupies several offices. Turner Construction maintains office space in the Armory but does not have any employees currently on Site.

The Armory was home to the New York National Guards 258th Field Artillery Unit until 1984 when the unit relocated to the smaller 2-story building located at 10 West 195th Street. The New York City Department of Homeless Services operated a woman's shelter at 2727 Jerome Avenue; in the northeastern portion of the Site until mid-2000.

3.5 Adjacent Properties

The buildings and land use types surrounding the site are as follows:

- North: West 195th Street, Public School 86 and Walton High School.
- South: Retail, commercial and residential properties located south of West Kingsbridge Road.
- East: Jerome Avenue and the New York City Transit elevated rail lines west of retail, commercial and residential properties along eastbound Jerome.
- West: Fordham Manor Reformed Church and Apartment buildings further west.

4.0 SITE HISTORY

4.1 General Site History

The Site is located in Kingsbridge Heights section of The Bronx, in an area that was developed in the middle to late 1800s. The area has since included residential, commercial, and small industrial facilities. Historical site information was obtained from historical aerial photographs, Sanborn Fire Insurance Maps, historical topographic maps and a City Directory Search. A review of these sources indicates that the Site was originally below water along the southern portion of the Jerome Park Reservoir in the late 1800s. Construction of Armory began in 1913 and was completed in 1917. A detailed description of the documents reviewed is presented below.

4.2 Historical Aerial Photographs

Historical black and white aerial photographs were reviewed for the years 1954, 1966, 1974, 1984, and 1994. The scale of the photographs prevents detailed analysis; however, the photographs do provide an overall view of history of urbanization of the Site and surrounding area. A description of each photograph is presented below. Aerial photographs are included as Appendix C.

1954 Aerial Photograph (1 inch = 750 feet)

The 1954 aerial photograph shows the Site as completely developed, but fine details cannot be identified. The surrounding areas are also completely developed.

1966, 1974, and 1984 Aerial Photographs (1-inch = 750 feet)

There are no significant changes visible at the Site or surrounding areas since the 1954 Aerial Photograph.

1994 Aerial Photograph (1-inch = 833 feet)

No significant on-site or off-site changes are visible from the previous aerial photographs.

4.3 Sanborn Fire Insurance Maps

The Sanborn Fire Insurance Map database was searched by EDR. Sanborn Maps were reviewed for the years 1896, 1901, 1914, 1950, 1978, 1981, 1984, 1989, 1991, 1992, 1993, 1995, and 1996 (Appendix D). The Sanborn Map findings are summarized below.

1896-1901 Sanborn Maps

The Site is shown to be part of the southern portion of a surface water body identified as the Jerome Park Reservoir (the reservoir was not completed until 1906). The surrounding parcels to the east, west and south are undeveloped.

1914 Sanborn Map

The Site is shown as the Armory, 8th Coast Artillery, District N. G. N. Y. (National Guard New York) in the midst of construction. The Sanborn map notes the roof over the drill room as a steel truss with asbestos on wood planking. A gate house to the Armory is depicted at the northeast corner of Reservoir Avenue and West Kingsbridge Road. The Jerome Park Reservoir, with a notation stating "not yet constructed", is shown to the north of the Site (though the reservoir was completed in 1906). No other surrounding structures are depicted on the Sanborn map.

1950 Sanborn Map

The majority of the Site remains unchanged from the previous Sanborn map; however, the gate house depicted on the 1914 Sanborn map is no longer present and a small outbuilding is present off the northeast corner of the Armory. West 195th Street, Public School 86 and Walton High School are shown in the area previously depicted as the site of the Jerome Park Reservoir. The elevated train station at the corner of West Kingsbridge Road and Jerome Avenue is shown as under construction. Properties located east, west and south of the Armory are not depicted on the 1950 Sanborn map.

1978 Sanborn Map

The 1978 Sanborn map shows the 2-story building located at 10 West 195th Street and states that it was constructed in 1958. The map indicates that the building was used as lockers (first floor) and classrooms (second floor). This building currently houses the New York National Guards 258th Field Artillery Unit. The Armory garage located to the west of this building is also shown. However, no construction date for the garage is provided. There are no visible changes to the properties north of the Site.

1981-1984 Sanborn Maps

There are no visible changes to the Site or adjacent lots on the Sanborn Maps for this period.

1989 Sanborn Map

There are no visible changes to the Site from the previous Sanborn maps. The map identifies an iron structure containing additional classrooms (likely a prefabricated building) was constructed east of Public School 86, north of the Site.

1991-1993 Sanborn Maps

There are no visible changes to the Site or adjacent lots on the Sanborn maps for this period.

1995-1996 Sanborn Maps

There are no visible changes to the Site from the Sanborn maps. An Air Balloon Gym is shown on these maps east of the Public School 86 addition first depicted on the 1989 Sanborn map.

4.4 Historical Topographic Maps

Historical topographic maps (USGS 7.5 minute Quadrangle sections) were obtained from EDR, and were reviewed for the years 1897, 1947, 1966, 1979 and 1995. A brief description of each map and the scale is presented below. The maps are included as Appendix E.

1897 Topographic Map (1:62,500)

The Site is shown to be within a surface water identified as the Jerome Park Reservoir (which was completed in 1906). The land surrounding the reservoir is shown as mostly undeveloped.

1947 Topographic Map (1:25,000)

The southern portion of the Jerome Park Reservoir appears to have been filled in and the Site is shown on this map and depicted as the 27th Tank Company Armory. The surrounding areas are shown as completely urbanized and Public School 86 and Walton High School are depicted to the north of the Site.

1966-1995 Topographic Maps (1:24,000)

No significant changes are visible at the Site on any of these maps. The garage building appears on the 1966 and subsequent maps; however, the 2-story building at 10 West 195th Street is not shown on any of these maps. No changes to the properties surrounding the Site are shown on these maps.

4.5 City Directory Search

A City Directory Search was conducted for the years 1927 - 2000, using 1 West Kingsbridge Road as the center point of the search (Appendix E). The Site address was not listed in the research sources. A search of the neighboring properties identifies retail and commercial businesses at addresses located along East and West Kingsbridge Roads and Jerome Avenue.

4.6 Environmental Lien Search

The EDR Environmental Lien Search Report (Appendix F) is intended to assist in the search for environmental liens filed in land title records. The environmental lien search indicates that there are no liens on the Site.

4.7 Historical Information Concerning Adjacent Properties

Limited site-specific information on the history of the adjoining properties was available through the Sanborn maps, aerial photographs, the city directory search, and historical topographic maps. The majority of the area surrounding the Site since the turn of the twentieth century has been and remains residential, retail and commercial in character.

5.0 REGULATORY AGENCY DATABASE REVIEW

EDR conducted a regulatory file review for the Site and surrounding areas. The search radius for the database review was centered on a point located at 29 West Kingsbridge Road at the coordinates 40° 52' 3.0" N, 73° 53' 51.0" W. A copy of the EDR report is provided in Appendix B. The Phase I ESA discusses only those facilities identified by EDR in the databases searched as of the last agency contact date, and at the distances from the property boundary noted below. The databases were searched and selected by EDR based on the requirements of ASTM E1527-05.

Federal Database Records

- National Priority List ("NPL") for both existing and deleted facilities within a 1-mile boundary of the Site as of April 19, 2006.

- Proposed NPL, sites proposed for inclusion on the NPL as of April 19, 2006.

- The NPL Deletions database for sites approximately 1 mile of the Site as of April 19, 2006. The NPL Deletions database identifies sites meeting the EPA's criteria to delete sites from the NPL per the National Oil and Hazardous Substances Pollution Contingency Plan.

- NPL Recovery database as of October 15, 1991. The NPL Liens database lists those sites where the USEPA has filed liens against real property in order to recover remedial action expenditures. The database search is for only the Site.

- Comprehensive Environmental Response, Compensation, and Liability Information System ("CERCLIS") sites located within approximately 1/2 mile of the boundary of the Site as of February 1, 2006.

- No Further Remedial Action Proposed ("NFRAP") sites located within 1/2 mile of the boundary of the Site as of February 1, 2006.

- RCRA Corrective Action Activity ("CORRACTS") of the subject property within 1 mile of the Site as of March 15, 2006. CORRACTS identifies RCRA facilities under corrective action activity.

- Resource Conservation and Recovery Information System ("RCRIS") Facilities Lists including large and small quantity generators and treatment facilities located within approximately 1/4 mile and storage, transportation, and disposal facilities located within approximately 1/2 mile of the boundary of the Site as of February 21, 2006.

- Emergency Response Notification System ("ERNS") listings for the Site as of December 31, 2005.

- The Hazardous Materials Information Reporting System ("HMIRS") as of December 31, 2005. The HMIRS database contains hazardous materials spill incidents reported to the DOT. The database search is for only the Site.

- US ENG Control as of March 21, 2006 is a listing of sites with engineering controls in place including various forms of caps, building foundations, liners and treatment methods to create pathway elimination for regulated substances to enter environmental media or affect human health.

- US INST Control as of March 21, 2006 is a listing of sites with institutional controls in place including administrative measures such as groundwater use, construction and property use restrictions, and post remediation care requirements intended to prevent exposure to contaminant remaining on site.

- Department of Defense ("DOD") database include federally owned or lands administered by the DOD that have any area greater than 640 acres. This data set was last updated December 31, 2004.

- Formerly Used Defense Site ("FUDS") database as of December 5, 2005 includes properties where the US Army Corps of Engineers is actively working and will take necessary cleanup measures.

- US Brownfields database as of November 29, 2005 includes sites addressed by Targeted Brownfield Assessments ("TBA") and EPA Cooperative Agreement Recipients.

- The Superfund Consent Decrees ("CONSENT") are major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites including settlements within approximately 1 mile of the boundary of the Site. This data set was last updated December 14, 2004.

- The Record of Decision ("ROD") for sites approximately 1 mile of the Site as of December 7, 2005. The ROD documents mandate a permanent remedy at an NPL site containing technical and health information to aid in the cleanup.

- The Toxic Release Inventory System ("TRIS") Database searches for the Site as of December 31, 2003. The TRIS sites are required to complete a Toxic Chemical Release Form (Form R) for specified chemicals.

- The Toxic Substances Control Act ("TSCA") database as of December 31, 2002. The TSCA database identifies facilities that manufacture or chemical substances included on the TSCA Chemical Substance Inventory list. The database search is for only the Site.

- The FIFRA/TSCA Tracking System ("FTTS") database as of January 17, 2006. The FTTS database tracks administrative cases and pesticide enforcement actions related to the Federal Insecticide, Fungicide, and Rodenticide Act ("FIFRA"), TSCA, and Emergency Planning and Right to Know ("EPCRA") Act. The database search is for only the Site.

- SSTS database as of December 31, 2003 is the Section Seven Tracking Systems database of the FTTS, which requires all pesticide producing establishments to submit an annual report to the EPA by March 1 of each year.

- The PCB Activity Database System ("PADS") as of December 27, 2005. PADS is maintained by EPA and identifies generators, transporters, commercial storers and /or brokers and disposers of PCB's. The database search is for only the subject site.

- The Material Licensing Tracking System ("MLTS") as of February 10, 2006. MLTS is maintained by the NRC and contains a list of approximately 8,100 sites that possess or use radioactive materials and which are subject to NRC licensing requirements. The database search is for only the Site.

- The Mines Master Index File ("MINES") for sites within 1/4 mile of the Site as of November 8, 2005. MINES is maintained by the Department of Labor, Mine Safety and Health Administration to identify mining issues.

- The Facility Index System/Facility Identification Initiative Program Summary Report ("FINDS") as of January 9, 2006. The FINDS database contains both facility information and "pointers" to other sources that contain more detail. The database search is for only the Site.

- The RCRA Administrative Action Tracking System ("RAATS") database has been discontinued; however the EPA has retained a copy for historical records.

- The Biennial Reporting System ("BRS") as of December 31, 2003. The BRS is a system administered by EPA that collects data on the generation and management of hazardous wastes.

State of New York ASTM Standard Records

- The Hazardous Substance Waste Disposal Site Inventory ("HSWDS") database contains a listing of any known or suspected hazardous waste disposal sites that are within 1/2 mile of the Site. Also included are sites delisted from the Registry of Inactive Hazardous Waste Disposal Sites and non-registry sites that USEPA Preliminary Assessment ("PA") reports or Site Investigation ("SI") reports were prepared. This database is no longer maintained as a separate entity. The last update to the database was made September 1, 2002, and the last EDR contact was February 27, 2006.

- The Inactive Hazardous Waste Disposal Sites ("SHWS") database contains site records within 1 mile of the Site that are the State's equivalent to CERCLIS. The date of the last EDR contact was March 17, 2006.

- DEL SHWS is a database of sites delisted from the Registry of Inactive Hazardous Waste Disposal Sites. The latest update was made December 30, 2005.

- The Solid Waste Facilities/Landfill Sites ("SWF/LF") database contains an inventory of solid waste disposal facilities or landfills in the state within 1/2 mile of the Site. The latest update to the database was May 3, 2006.

- The Registered Recycling Facility List ("SWRCY") as of May 3, 2006. The database lists facilities that are within 1/2 mile of the Site.

- The Registered Waste Tire Storage Facility List ("SWTIRE") as of April 1, 2004. The database identifies if the Site is on the list.

- LTANKS is the Spills Information Database which includes Leaking Storage Tank Incident Reports and contains an inventory as of April 5, 2006 of reported leaking storage tanks

(above or under ground) within 1/2 mile of the Site. The causes include tank test failures, tank failures, or tank overfills. HIST LTANKS is a listing of leaking underground and above ground storage tanks. In 2002 the DEC stopped providing updates to its original Spills Information Database. The date of the last EDR contact was April 6, 2006.

- The Petroleum Bulk Storage database ("PBS UST") identifies underground storage tanks ("UST") sites with capacities ranging from 1,100 gallons to 400,000 gallons that are located within 1/4 mile of the Site. The date of the last EDR contact was May 17, 2006.

- The Chemical Bulk Storage Database ("CBS") identifies facilities within 1/4 mile of the Site that store regulated hazardous substances in USTs of any size. The date of the last EDR contact was October 24, 2005.

- The Major Oil Storage Facilities Database UST ("MOSF") identifies facilities within 1/2 mile of the Site that may be onshore facilities, or vessels, with petroleum storage capacities of 400,000 gallons or greater. The date of the last EDR contact was July 25, 2005.

- The Petroleum Bulk Storage ("PBS AST") database identifies registered aboveground storage tanks ("AST") located at the Site. The date of the last EDR contact was May 17, 2006.

- The Chemical Bulk Storage Database, AST ("CBS AST") identifies facilities within 1/4 mile of the Site that store regulated hazardous substances in ASTs with capacities of 185 gallons or greater, and/or in USTs of any size. The date of the last EDR contact was July 25, 2005.

- The Major Oil Storage Facilities Database AST ("MOSF-AST") identifies AST facilities within 1/2 mile of the Site that may be onshore facilities or vessels, with petroleum storage capacities of 400,000 gallons or greater. The date of the last EDR contact was July 25, 2005.

- NY MANIFEST as of March 1, 2006 is a database that tracks facility and manifest data.

- The Spills Information Database ("SPILLS") identifies data collected on spills within 1/8 mile of the Site that were reported to NYSDEC as required by one or more of the following: Article 12 of the Navigation Law, 6 NYCRR Section 613.8 (from PBS regs), or 6 NYCRR Section 595.2 (from CBS regs). It includes spills active as of April 1, 1986, as well as spills occurring since this date. The latest update to the database was April 5, 2006. HIST SPILLS is a listing of leaking USTs and ASTs. In 2002 the DEC stopped providing updates to its original Spills Information Database. The date of the last EDR contact was July 7, 2005.

- ENG CONTROL as of December 30, 2005 is a listing of sites with engineering controls in place including various forms of caps, building foundations, liners and treatment methods to create pathway elimination for regulated substances to enter environmental media or affect human health.

- INST CONTROL as of December 30, 2005 is a listing of sites with institutional controls in place including administrative measures such as groundwater use, construction and property use restrictions, and post remediation care requirements intended to prevent exposure to contaminant remaining on site.

- The Voluntary Cleanup Agreements ("VCP") identifies sites within 1/2 mile of the Site where private monies are being used to remediate contaminated sites to levels allowing for the sites' productive use. The program covers virtually any kind of site and contamination. The date of the last EDR contact was March 12, 2006.

- DRYCLEANERS as of June 15, 2004 is a listing of registered dry cleaning facilities.

- BROWNFIELDS as of December 30, 2005 is the New York State Brownfields site list.

- The State Pollutant Discharge Elimination System ("SPDES") for the control of wastewater and stormwater discharges in accordance with the Clean Water Act. SPDES also controls point source discharges to groundwater as well as surface waters. The last EDR contact was May 9, 2006.

- The Aerometric Information Retrieval System ("AIRS") as of December 31, 2002 includes air emissions data.

The following sections discuss EDR's findings. Only databases for which information was found are presented below.

5.1 Results of Database Search

The Site was identified by street address on the RCRIS-SQG, RCRIS-LQG, FINDS, LTANKS, HIST LTANKS and NY MANIFEST databases searched by EDR. The Site was also identified by street address as NYS DMNA OMS#31 and listed on the RCRIS-SQG and NY MANIFEST databases; however, the Site was not identified as the target property by EDR. In addition, the

annex building located at 10 West 195th Street was identified on the UST and AST databases searched by EDR. The results of the database search are presented below:

Site Name	Address	Database(s)	Comments
Kingsbridge Armory	29 West Kingsbridge Road	RCRIS-SQG FINDS NY MANIFEST	RCRIS-SQG; no violations reported. FINDS indicated that the site has other pertinent environmental activity listed on the RCRIS database; however, no additional information was presented. NY MANIFEST has an additional fifteen (19) records on file.
Kingsbridge Armory	29 West Kingsbridge Road	LTANKS HIST LTANKS	Spill No. 8802461 reported 6/17/88. No. 2 fuel oil tank failed tightness test. Report states that the last of seven tanks was scheduled for removal in 8/04. Spill closed 8/10/04. Spill No. 9211568 reported 1/7/93. Soil contamination from piping detected during tank pull. Spill closed 3/28/05. Spill No. 9308016 reported 10/1/93. Diesel tank failure reported during tank removal. 100 yards of soil stockpiled on site. Spill remains open.
NYC EDC Kingsbridge Armory	29 West Kingsbridge Road-Roof	RCRIS-LQG NY MANIFEST	RCRIS-LQG; no violations reported. NY MANIFEST has an additional seven (7) records on file.
NYS DMNA OMS #31*	29 West Kingsbridge Road	RCRIS-SQG NY MANIFEST	RCRIS-SQG; no violations reported. NY MANIFEST has an additional one (1) record on file.
NYS Armory	10 West 195th Street	UST AST	One (1) 3,000 gallon diesel and one (1) 2,000 gallon unleaded gasoline USTs reported closed-removed on 9/1/93. One (1) 2,000 gallon fuel oil UST reported in service. One (1) 8,000 gallon fuel oil UST reported closed-removed 1/1/99 and one (1) 225 gallon unleaded gasoline UST reported closed-removed on 5/1/95. One (1) 225 gallon diesel fuel AST and one (1) 275 gallon AST with "other" contents reported on site.

* - Not reported by EDR as the target property

5.2 Nearby Sites

EDR identified one hundred sixty (160) sites within the search radii of the Site. The following

identifies the sites that are within 1/4 mile of the Site and have assumed groundwater elevations equal to or higher than the Site (based upon the assumed flow direction of groundwater to the north-northeast). Sites located downgradient of the Site are not included since the potential for these sites to impact the subject property is low. Each of these is identified below with respect to the database in which they appear and the same site may be listed on more than one database.

5.2.1 RCRIS-SQG Sites

EDR identified a total of three (3) listed Small Quantity Generator ("SQG") sites within 1/4 mile of the subject Site. Of these, one (1) is listed as an alias for the Site and described in Section 5.1 and one (1) was located at an elevation equal to or higher and hydrogeologically upgradient or sidegradient to the Site with respect to the assumed groundwater flow direction. This SQG is summarized below:

Site Name	Address	Distance / Direction [1]	Comments
MTA NYCT – Kingsbridge Road Sta.	Jerome Avenue and Kingsbridge Road	0-1/8 mile E/sidegradient	No violations found.

1. Upgradient/sidegradient direction based on assumed groundwater flow direction.

5.2.2 LTANKS Sites

EDR identified forty-one (41) sites on the LTANKS database within 1/2 mile of the site. Of these, one (1) was located at an elevation equal to or higher and hydrogeologically upgradient or sidegradient to the Site with respect to the assumed groundwater flow direction and within 1/4 mile of the Site. A summary of the LTANK site is provided below:

Site Name	Address	Distance / Direction [1]	Comments
55 E. 196th Street	55 E. 196th Street	1/8-1/4 mile E/upgradient	Spill No. 9408807 reported 10/3/94. Twenty (20) gallons of #4 fuel oil reported spilled from tank overfill, spill closed 10/30/94.

1. Upgradient/sidegradient direction based on assumed groundwater flow direction.

5.2.3 UST Sites

EDR identified twenty-four (24) sites on the UST database. Of these, seven (7) were within 1/4 mile of the Site and hydrogeologically upgradient or sidegradient with respect to the assumed groundwater flow direction. One (1) of the sites is listed as an alias for the Site and described in Section 5.1. A summary of the remaining six (6) UST sites is provided below:

Site Name	Address	Distance / Direction (1)	Comments
2683 Morris Av Assoc.	2683 Morris Avenue	0-1/8 mile E/sidegradient	One (1) 4,000 gallon vaulted steel fuel oil UST reported in service. Date of installation is not reported.
2690 Morris Ave. Assoc.	2690 Morris Avenue	0-1/8 mile E/sidegradient	One (1) 5,000 gallon vaulted steel fuel oil UST reported in service. Date of installation is not reported.
Neiler Associates, LLC	2771 Morris Avenue	1/8-1/4 mile NE/upgradient	One (1) 3,500 gallon steel fuel oil UST reported in service. Date of installation is not reported.
2754 Grand Concourse	2754 Grand Concourse (2501 40th Avenue)	1/8-1/4 mile E/sidegradient	One (1) 7,000 gallon vaulted steel fuel oil UST reported in service. Date of installation is not reported.
Roban Mgmt	2784 Morris Avenue	1/8-1/4 mile NE/upgradient	One (1) 5,000 gallon vaulted steel fuel oil UST reported in service. Date of installation is not reported.
2786 Jerome Avenue	2786 Jerome Avenue	1/8-1/4 mile NNE/upgradient	One (1) 4,000 gallon vaulted steel fuel oil UST reported in service. Date of installation is not reported.

1. Upgradient/sidegradient direction based on assumed groundwater flow direction.

5.2.4 NYSPILLS Sites

EDR identified one (1) site on the Spills Information database that was within 1/8 mile of the Site. This site is located hydrogeologically upgradient or sidegradient to the Site with respect to groundwater flow. A summary of the NYSPILLS site is provided below:

Site Name	Address	Distance / Direction (1)	Comments
2683 Morris Av Assoc.	2683 Morris Avenue	0-1/8 mile E/sidegradient	Spill No. 0005691 reported on 8/11/00 and closed 8/25/05. Con Ed reported fuel oil contaminated soil found during gas line replacement. The site was reported to have recently had the fill line replaced.

1. Upgradient/sidegradient direction based on assumed groundwater flow direction.

5.2.5 Orphan Sites

Orphan sites are those having limited address information that precludes mapping the site. One hundred forty six (146) unmapped sites were identified by EDR. Orphan sites are listed in the EDR report found in Appendix B. One (1) orphan site found on the NY MANIFEST database

was listed as United States Military-Kings Bridge and may be associated with the Site. One (1) additional orphan site, NYC BOE-Walton HS is located approximately 1/8 mile north of the Site. This site was identified on the NY MANIFEST, FINDS and RCRA-SQG databases. However, the database report did not provide any specific information each of the sites. No additional orphan sites were identified during the site reconnaissance.

6.0 AGENCY REVIEW

M&E contacted several city, borough, and state officials to determine whether they had any knowledge of the Site or environmental concerns in the vicinity of the Site. A brief summary of M&E's correspondence is presented in the following sections, with copies of FOIL requests included in Appendix H and downloaded New York City Department of Buildings ("DOB") information included in Appendix I.

6.1 City/Borough Agencies

The following is a summary of information obtained from several local regulatory agencies.

Fire Department of the City of New York

A Records Search Request was submitted to the Fire Department of the City of New York ("FDNY") for any records related to heating oil tanks and USTs. No response from the FDNY has been received to date.

New York City Department of Buildings

M&E performed a search on the Buildings Information Search ("BIS") on the DOB website on August 3 and 14, 2006. The BIS indicated that there are two Building Information Numbers ("BINs") for the Site at Block 3247 Lot 2. BIN 2098782 corresponds to the 2 West 195th Street address and lists five (5) active DOB violations. BIN 2098784 corresponds to the 29 West Kingsbridge Road address and lists forty-five (45) total Actions at the site. These actions include building notices, miscellaneous, curb cut, elevator, fire protection plans, public assembly, permit, Special Reports and plumbing repair slips. In addition, there are six (6) complaints, eighteen (18) DOB violations, and three (3) ECB violations. All six (6) complaints are reported to be resolved. Of the eighteen (18) DOB violations, seventeen (17) are for boiler violations, and one (1) for a construction violation. All DOB violations remain active. Two (2) of the three (3) ECB violations remain open, failure to maintain exterior building wall has been resolved.

New York City Department of Health and Mental Hygiene

A FOIL letter was submitted to the Records Access Officer of the New York City Department of Health and Mental Hygiene ("NYCDHMH") by M&E on July 20, 2006 requesting a file search for the Site. No response from the NYCDHMH has been received to date. M&E will immediately notify the EDC should the NYCDHMH provide information indicating the presence of additional environmental concerns at the Site.

New York City Department of Environmental Protection

A FOIL letter dated July 20, 2006 was submitted to Mr. Frank Schiano, legal advisor to the New York City Department of Environmental Protection ("NYCDEP") and the New York City Department of Environmental Health ("NYCDEH"). To date, no response has been received from the NYCDEP or the NYCDEH. M&E will notify EDC if additional site information is provided by this agency.

6.2 State Agencies

New York State Department of Environmental Conservation

A FOIL letter was submitted to the Records Access Officer of the New York State Department of Environmental Conservation ("NYSDEC") by M&E on July 20, 2006 requesting a file search for the Site. NYSDEC has not yet replied to M&E. Should any environmental concerns be noted by the NYSDEC in their reply, M&E will immediately notify the EDC.

7.0 CLIENT PROVIDED INFORMATION

M&E requested that the EDC provide copies of all available information related to the subject site or surrounding area. Mr. Daniel Bruen of Turner Construction was contacted and provided a copy of the ET Environmental Corporation (September 15, 2000) *Kingsbridge Armory Roof Rehabilitation Project Environmental Survey Report*. The report consisted of an asbestos survey report and removal specifications, a LBP survey report and removal specifications and a survey of biological contamination (bird droppings). The findings of the report were used to determine the environmental conditions and potential impacts to scheduled roof renovation activities.

8.0 SITE RECONNAISSANCE

Mr. Ronald Kantor of M&E accompanied by Mr. Carl Gregg of Apple Industrial (an EDC subcontractor) conducted the site reconnaissance on June 30, 2006. A photographic log is located in Appendix J.

8.1 Methodology and Limiting Conditions

Performance of the Phase I ESA was limited to visual inspection of the Site. The Site was completely accessible with the exception of certain rooms in the towers where the floors were compromised from water damage and the floor of the theater and the basement boiler room, both of which were flooded at the time of the site visit.

8.2 Site Conditions

The Site is accessible from a gated entrance off Reservoir Avenue. Entrance to the Armory is monitored by a security guard stationed in a guard shack located at the Reservoir Avenue entrance. All remaining entrances to the Armory are locked and the Armory is surrounded by chain-link security fence. Access to the 2-story annex building is along West 195th Street, and the National Guard garage building west of the annex is also fenced. Grassy areas are present along the northern, southern and western perimeters of the Site; however, the western portion is mostly paved and utilized for parking and access to the Armory drill floor. The eastern portion of the Armory abuts the sidewalk of northbound Jerome Avenue.

Major roof renovations to the metal and glass roof spanning the drill hall and to the flat roof behind the parapets above the company rooms located south of the drill hall were conducted between 2000 and 2005.

Three (3) levels exist beneath the poured concrete drill hall floor, which was originally an earthen floor. These levels include additional company rooms and work shops; a theater and lecture hall; a former gymnasium and basketball court; a former bowling alley; rifle and pistol ranges; and, subterranean parking/vehicle storage space. Peeling paint and mold were prevalent throughout the subterranean levels. Trash and debris is also present in many of the smaller company rooms as well as used clothing left by the former Woman's Shelter. Standing water is present on the former theater/lecture hall floor and is currently pumped to the sanitary sewer. Standing water is also present in the lower level parking/vehicle storage area.

Two (2) 275 gallon fuel oil ASTs located two (2) levels below the drill hall in the southwestern portion of the Armory, east of the former bowling alley. The tanks did not appear to contain significant amounts of product. An additional 275 gallon fuel oil AST was observed on the drill hall floor in the northeastern portion of the Armory and also did not appear to contain a significant amount of product. A petroleum odor was detected in room B-20 located on the first level below the drill floor in the western portion of the building; however, no source for the odor could be located. Several 5-gallon pails of Esguard LubraKote Black, a flashing cement, were observed in several of the rooms on the second level below the drill hall in the western portion of the Armory. Cans of motor oil, brake fluid and other petroleum-based lubricants as well as empty gasoline cans were observed in the motor pool workshops located along the northern portion of the company rooms on the mezzanine of the second level below the drill floor. Ten (10) 55-gallon steel drums were observed in the lower level parking/vehicle storage area. The drums show signs of deterioration with rust and holes in several of the drums. The content of the drums is unknown, although most appear to be empty.

Three (3) earthen floored rifle and pistol ranges were observed on the Site and are suspected to contain elevated concentrations of lead from spent munitions. The first pistol range is located on the second level below the motor pool workshops. Spent munitions were observed embedded in the wooden walls of pistol range. The other pistol/rifle ranges are located on the third level below the drill floor in the eastern portion of the building near Jerome Avenue. No spent munitions were observed at these ranges.

On-site equipment such as the boiler located in the southwestern portion of the basement of the company rooms and air conditioning units located in the northeastern portion of the Armory, one (1) level beneath the drill hall are deteriorating and appear to be no longer functional.

The company rooms and tower rooms in the southern portion of the Site are largely comprised of living quarters, office/administrative space, dining and entertainment rooms (including a library, bar and sitting rooms). The upper floors of the company rooms are significantly water damaged with walls, floors and ceilings beginning to or already collapsing. Peeling paint, mold and trash and debris are prevalent throughout the company rooms. The boiler room, located in the lowest level in southwestern portion of the company rooms, is flooded. The boiler is no longer operational. An electrical panel was reported to have fallen into a large puddle of water on the boiler room floor. Con Ed responded by taking the electrical panel off-line and ran emergency lighting in the boiler room.

8.3 Site Utilities

The Armory is served in a limited electrical service. The National Guard building is served by electric, natural gas, sewer and water. Public utility features observed in the street and sidewalk areas indicate that the area is served by Con Edison (electricity), Keyspan Energy (natural gas), the NYCDEP (sewer, water), and Verizon (telephone).

8.4 Site Drainage

The site is located within the City's Ward's Island Drainage Area, and is served by the water pollution control plant of the same name. Under normal conditions, drainage from the Site is collected in the surrounding combined sewers, and treated at the plant prior to discharging to the East River.

8.5 Underground and Aboveground Storage Tanks

Three (3) 275 gallon fuel oil ASTs were observed at the Site during the site reconnaissance. The ASTs appear to be in fair to good condition with some surface oxidation and peeling paint observed on the two (2) tanks located in the vicinity of the former bowling alley. The ASTs did not appear to contain significant amounts of product. In addition, the center of the parking/vehicle storage area was observed to have been saw cut and backfilled with sand. This area may have once contained a UST.

8.6 Oil-Filled Equipment

The boiler and air conditioning units located in the northeastern portion of the Armory, one (1) level beneath the drill hall units may contain residual fuel oil and lubricating oils.

8.7 Hazardous Materials and Petroleum Storage

Peeling lead-based paint ("LBP"), light ballasts possibly containing polychlorinated biphenyls ("PCBs"), and potential asbestos containing materials ("ACM") including pipe wrap and floor tiles are most likely present. Residual fuel oil may be present in the three (3) ASTs. Cans of motor oil, brake fluid and other petroleum-based lubricants as well as empty gasoline cans were observed in the motor pool workshops located along the northern portion of the company rooms on the mezzanine of the second level below the drill floor.

8.8 Waste Generation

Solid wastes generated at the Site are collected by the New York City Department of Sanitation.

8.9 Neighboring Properties

Neighboring properties include PS 86 and Walton High School to the north; retail, commercial and residential properties east along Jerome Avenue and south along West Kingsbridge Road; and, the Fordham Manor Reformed Church and Apartment buildings west of the Site.

9.0 INTERVIEWS WITH FACILITY PERSONNEL

Charles Braswell and Carl Gregg of Apple Industrial provided information regarding the current operations of the Site and additional background information regarding the basement boiler room flooding and electrical panel failure for this Phase I ESA.

10.0 FINDINGS AND CONCLUSIONS

An environmental database provided by EDR identified sites within the search radii where documented environmental impacts have occurred. Although the EDR database information did not include any documentation from which it could be concluded that the sites identified within the search radii have impacted the Site, it is possible that groundwater under the Site has been impacted due to the industrial/commercial use of the surrounding area, and by potential contamination in on-site fill materials. However, it should be noted that the groundwater in this area is not used as a potable source.

During the Phase I ESA, a visual inspection of the Site was performed. The visual inspection identified three (3) 275 gallon fuel oil ASTs. One (1) tank is located in the northeast corner of the building on the drill hall floor; the two (2) remaining tanks are located two (2) levels below the drill hall in the southwestern portion of the building, east of the former bowling alley. None of the tanks appeared to contain significant amounts of product. A petroleum odor was detected in room B-20 located on the first level below the drill floor in the western portion of the building; however, no source for the odor could be located. Several 5-gallon pails of Esguard LubraKote Black, a flashing cement, were observed in several of the rooms on the second level below the drill hall in the western portion of the building. Cans of motor oil, brake fluid and other petroleum-based lubricants as well as empty gasoline cans were observed in the motor pool workshops located along the northern portion of the company rooms on the mezzanine of the second level below the drill floor. Ten (10) 55-gallon steel drums were observed in the parking/vehicle storage area located three (3) levels below the drill hall floor. The drums are beginning to show signs of deterioration with rust and holes present in several of the drums. The content of the drums is unknown, although most appear to be empty. In addition, possible oil staining of the concrete near the center of the parking/vehicle storage area was observed as well as an area where the concrete floor was saw cut and backfilled with sand. This area may have once contained a UST.

Three (3) earthen floored rifle and pistol ranges were observed on the Site and are suspected to contain elevated concentrations of lead from spent munitions. The first pistol range is located on the second level below the motor pool workshops. Spent munitions were observed embedded in the wooden walls of pistol range. The other pistol/rifle ranges are located on the third level below the drill floor in the eastern portion of the building near Jerome Avenue. No spent munitions were observed at these ranges.

Deteriorating equipment such as the boiler located in the southwestern portion of the basement of

the company rooms and air conditioning units located in the northeastern portion of the Armory, one (1) level beneath the drill hall may contain asbestos, lubricating oils and refrigerants. Peeling paint that may contain lead, light ballasts possibly containing PCBs, potential ACM including pipe wrap and floor tiles and extensive mold growth was present in the majority of the company rooms located along the southern portion of the Armory and the company rooms beneath the drill hall. In addition, water damage to the walls, ceilings and floors of the upper level company rooms and turret rooms is prevalent.

In September 2000, ET Environmental submitted an Environmental Survey Report to the EDC prior to the roofing renovations to determine the presence of ACM, LBP and bird droppings. Samples collected in the vicinity of the work areas indicated non-friable asbestos and LBP were present on the Site. Additional sampling for ACM, LBP and a light ballast survey are recommended for the company rooms and the levels beneath the drill hall. A survey of the 55 gallon drums should be conducted to include an inventory of the drums and a determination of the contents of the drums. Once completed, the drums and their contents should be properly disposed. It is also recommended that the three (3) ASTs be removed as well as the petroleum products in the motor pool workshops and the lower levels beneath the drill hall. Deteriorating equipment should also be properly removed from the site. In addition, the earthen floors of the pistol and rifle ranges should be remediated and the spent rounds from the walls of the second level pistol range should be removed due to the potential presence of lead.

Additional recommendations could be warranted should potential environmental issues be identified by outstanding FOIL/Information requests submitted to the New York City Department of Environmental Protection, the New York City Department of Health, and the New York State Department of Health.

Ronald W. Kantor
Senior Scientist

Nelson J. Abrams, P.G.
Project Manager

11.0 STATEMENT OF LIMITATIONS

The data presented and the opinions expressed in this report are qualified as follows:

1. The sole purpose of the investigation and of this report is to assess the physical characteristics of the Site with respect to the presence or absence in the environment of oil or hazardous materials and substances as defined in the applicable state and federal environmental laws and regulations and to gather information regarding current and past environmental conditions at the Site.

2. Metcalf & Eddy (M&E) derived the data in this report primarily from visual inspections, examination of records in the public domain, and interviews with individuals with information about the Site. The passage of time, manifestation of latent conditions or occurrence of future events may require further exploration at the Site, analysis of the data, and reevaluation of the findings, observations, and conclusions expressed in the report.

3. In preparing this report, M&E has relied upon and presumed accurate certain information (or the absence thereof) about the Site and adjacent properties provided by governmental officials and agencies, the Client, and others identified herein. Except as otherwise stated in the report, M&E has not attempted to verify the accuracy or completeness of any such information.

4. The data reported and the findings, observations, and conclusions expressed in the report are limited by the Scope of Services. The Scope of Services was defined by the requests of the Client, the time and budgetary constraints imposed by the Client, and the availability of access to the Site.

5. Because of the limitations stated above, the findings, observations, and conclusions expressed by M&E in this report are not, and should not be considered, an opinion concerning the compliance of any past or present owner or operator of the site with any federal, state or local law or regulation. No warranty or guarantee, whether express or implied, is made with respect to the data reported or findings, observations, and conclusions expressed in this report. Further, such data, findings observations, and conclusions are based solely upon site conditions in existence at the time of investigation.

6. This report has been prepared on behalf of and for the exclusive use of the Client, and is subject to and issued in connection with the Agreement and the provisions thereof.

7. The Phase I ESA was performed using standard engineering practices, with the understanding that environmental professionals can and should use their professional judgment in carrying out environmental site assessments.

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PHASE II ENVIRONMENTAL SITE ASSESSMENT REPORT

Kingsbridge Armory
Block 3247, Lot 2
Bronx, New York 10468

TRC Project Number: 113429.0120.0000

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September 19, 2007

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1.0 INTRODUCTION

This Phase II Environmental Site Assessment (Phase II ESA) Work Plan details the investigation activities and methodologies implemented at the Kingsbridge Armory Site (refer to Site Description below). This Work Plan was prepared by TRC Environmental Corporation (TRC) on behalf of the New York City Economic Development Corporation (NYCEDC). As documented by previous environmental reports and a site visit by TRC, there are recognized environmental conditions (RECs) and environmental concerns associated with the Site that were evaluated under the Phase II ESA. The overall objective of the Phase II Environmental Site Assessment (Phase II ESA) was to assess the potential presence and nature of Site contamination not including lead based paint, asbestos containing materials, mold, or hazardous building materials (e.g., fluorescent bulbs, ballasts) associated with the property.

1.1 Site Description

The Site is an approximately 5-acre parcel encompassing four city blocks and consisting of a Romanesque-style fortress (the "Armory"), two smaller annex buildings located to the north of the Armory, and paved parking area at the west end of the Site. The legal description for the Site is Block 3247, Lot 2. The Site is bounded by West 195th Street to the north, Jerome Avenue to the east, Kingsbridge Road to the South, and Reservoir Avenue to the west.

The Armory is comprised of over 475,000 square feet of space, with a main drill hall occupying most of the ground floor and three levels below the drill hall. The lower levels of the Armory include rifle and pistol ranges, subterranean parking, and open storage space. A one-story brick Annex building is located to the north of the Armory, near the intersection of Reservoir Avenue and West 195th Street, and is used for vehicle storage (the "Maintenance Building") by the National Guard. A two-story brick Annex Building is located to the north of the Armory, at 10 West 195th Street, and is used as a recruiting office for the National Guard.

Figure 1 shows the general location of the Site. Figure 2 shows site layout and the boundaries of property.

1.2 Site History

The Phase I ESA Sanborn fire insurance maps from 1914 to 1996 indicate that the Site was developed since at least 1914 and occupied by the 8th Coast Artillery, District N.G.N.Y. (National Guard of New York). According to the Phase I Environmental Site Assessment (Phase I ESA) report dated September

2006 and prepared by Metcalf and Eddy, Inc. (M&E) for EDC, construction of the Armory began in 1913 and was completed in 1917. A 1978 Sanborn map presented in the Phase I ESA indicates that the adjacent two-story Annex building was constructed in 1958. The adjacent Annex garage building is also shown on this Sanborn map; however, there is no construction date indicated on the map for the building.

1.3 Future Use of the Site

The planned redevelopment of the Site includes a mixed-use of community space, schools, department store, movie theatre, parking garage, and a YMCA. The proposed future development plans will require extensive renovation of the existing Armory and Annex Buildings currently located at the Site.

2.0 PREVIOUS STUDIES

As previously indicated, M&E prepared a Phase I ESA report for the Kingsbridge Armory dated September 2006 on behalf of NYCEDC. The Phase I ESA made no conclusions with regards to the presence or absence of RECs at the Site. However, the following findings in the Phase I ESA report can be interpreted as representing RECs or environmental concerns for the Site:

- An area of the concrete floor on the lowest level of the Armory appeared to be saw cut and backfilled with sand. The Phase I ESA concluded that this area represent a possible location where an underground storage tank (UST) had been removed. The former presence of a UST at this location represents an REC; however, TRC was unable to find this location and any records concerning the prior presence of an UST at this location.
- The three earthen floor indoor shooting ranges within the Armory potentially have spent lead-containing shells. The presence of lead-containing shells within the Armory represents an environmental concern.
- Three 275-gallon fuel oil aboveground storage tanks (ASTs) were identified in the Armory. One tank is located in the northeast corner of the drill hall floor and the other two are located two levels below the drill hall floor in the southwestern portion of the building, east of the former bowling alley. TRC observed the one AST located on the drill hall floor during our site visit. This tank still contained diesel fuel for an emergency generator that was no longer operable. The tank appeared to be in good condition with no signs of leaks. The other two tanks were observed to be in the subbasement and appeared empty with no signs of leaks; however, access to the tanks was limited due to the presence of surrounding debris and standing water.
- Ten 55-gallon steel drums were reported in the parking/vehicle storage area located three levels below the drill hall floor. The drum's contents were reported as unknown and most free of liquids. During TRC's site visit, several empty drums were observed in this area with no signs of potential releases.
- Suspected peeling lead based paint, potential polychlorinated biphenyl (PCB) containing light ballasts, potential asbestos containing materials (ACM) including pipe wrap and floor tiles, and extensive mold growth were noted present in portions of the Armory.

Naeva Geophysics Inc. (Naeva) prepared a geophysical survey report on behalf of ATC Associates, Inc., dated August 18, 2000. The geophysical survey report identified the following current and former locations of USTs that represent RECs:

- An abandoned fill port and vent pipe were located along the western exterior of the Armory, and the geophysical survey traced the lines associated with the vent pipe and fill port to a nearby 12-foot by 15-foot area where the asphalt pavement had been removed. The geophysical survey found no evidence of buried metal at this location, and the report interpreted the area to represent a former UST location.
- A 30-foot by 30-foot area of reinforced pavement is located along the western exterior of the Armory and to the south of the aforementioned former UST location. The geophysical survey detected elevated electromagnetic (EM) response at this location, and the report interpreted the geophysical anomaly to represent a potential UST location.
- Two vent pipes were observed along the western perimeter of the Maintenance Building to the north of the Armory. The geophysical survey traced the lines associated with the vent pipes to two areas where the concrete pavement had been patched. Although the findings of the geophysical survey were inconclusive regarding USTs at these locations due to interference from metal objects on the surface (i.e., cars and metal dumpsters), the geophysical survey report interpreted each of the patched areas to represent a potential UST location.

3.0 SCOPE AND METHODOLOGY

From July 18, 2007 to August 6, 2007, TRC conducted a Phase II ESA at the Site. The overall scope and methodologies of TRC's Phase II ESA is consistent with the Phase II ESA Work Plan dated July 2007. Photographs documenting implementation of the Phase II ESA are presented in Appendix B.

3.1 Scope of Phase II ESA

TRC's Phase II Environmental Site Assessment included the following:

- Geophysical survey at suspected historic underground storage tank (UST) locations and planned drilling locations (buried utility clearance),
- Test pit excavations at two of the three historic tank locations,
- Completion of 13 soil borings around historic UST locations,
- Installation of 4 permanent groundwater monitoring wells around historic UST locations,
- Collection of 18 soil samples from 15 locations at the indoor shooting ranges, and
- Collection of 14 soil boring samples and 4 groundwater samples for laboratory analysis in response to the aforementioned recognized environmental conditions,

The scope of each of these elements is described in the subsections below.

3.2 Geophysical Survey

The results of the prior Naeva geophysical investigation and TRC's site visits indicated evidence of several potential USTs along the western perimeter of the Armory and Maintenance Building. In addition, the Phase I ESA identified a potential UST location within the lowest level of the Armory. However, this location was not evident in the field and therefore could not be investigated further.

The primary objective of the geophysical survey was to identify the presence of historic USTs and to assess planned subsurface sampling locations for underground utilities. Enviroprobe conducted a subsurface geophysical investigation at the subject property at the suspect UST locations under the direction of TRC. The investigation utilized a Mala Geoscience Ramac X3M cart-mounted Ground Penetrating Radar (GPR) unit, a Radiodetection PDL2-4M multi-frequency receiver and transmitter (Radiodetection), and a Fischer Scientific TW-6 metal detector.

The penetration depth of the GPR unit varies from several inches to tens of feet according to site-specific conditions. The penetration depth decreases with increased soil conductivity. The penetration depth is the greatest in ice, dry sands and fine gravels. Clayey, highly saline or saturated soils, areas covered by steel reinforced concrete, foundry slag, of other highly conductive materials greatly reduced GPR penetration. The Radiodetection receiver and transmitter are commonly used for pipe and cable locating. These instruments were used to identify suspect USTs, buried pipelines and other potential subsurface structures of concern.

The two historic UST locations at Kingsbridge Armory west of the Maintenance Building are covered by reinforced concrete, thereby limiting the effectiveness of the geophysical survey equipment to locate the USTs. At a third suspect UST location that corresponds with an area that Naeva had previously indicated where asphalt pavement had been removed and a fill and vent pipe were present, and the geophysical survey found no evidence of buried metal. A small guard booth for the Armory is currently present at this location. The guard booth was installed by NYCEDC at this location in the Summer of 2003 and is constructed of metal frame and siding on a concrete slab. The previously identified flush-mounted steel fill pipe for this location is still present in the asphalt just south of the Guard Booth and inscribed with the words GASOLINE along its rim. At the 30-foot by 30-foot area of reinforced concrete pavement previously identified by Naeva and located along the western exterior of the Armory to the south of the aforementioned former UST location, there are no signs of potential USTs (e.g., fill pipe, vent pipe, manway) and no known historic USTs at this location associated with the Armory. Furthermore, TRC believes that this slab may be related to a former below-grade pump house reported in this area for the Jerome Reservoir previously located on the Armory site.

Numerous utilities including water, sewer, gas, and electric are also located near the UST locations and planned soil boring/well locations. Some soil boring and well locations were adjusted to avoid buried utilities to assure safe working conditions.

3.3 Test Pits

Following the completion of the geophysical surveys, test pit excavations were completed at two of the three historic UST locations by American Environmental under contract to TRC to assess the presence of an UST. Based on the test pitting findings at the two locations, TRC was able to confirm the presence of two abandoned USTs west of the Maintenance Building. Concrete slabs over the tank locations were marked with the numbers "94" along with several individual names likely indicative of the date that the slabs were poured (i.e., tanks closed) and the persons that did the work. After removing a portion of the slab and underlying soils to expose the tanks, it was determined that the top of each steel UST had been cut open and filled with a gravel/sand mixture. The gravel/sand in the tanks appears to have settled and

as a result a void space in the top of each tank appears to have filled with rain water that had penetrated cracks in the surface concrete and collected in the void space inside the tanks. The water, sand and gravel were visually observed and field screened with a PID and there were no signs of any petroleum impacts. TRC did not collect soil or water samples from the test pit locations. The test pits were backfilled with removed material and the removed overlying concrete slab area was filled to grade with recycled concrete/aggregate material brought to the site by American Environmental. The concrete slab debris from each test pit location was removed from the site and disposed of offsite.

3.4 Soil Sampling and Analysis/UST Investigation

The primary objective of the soil sampling was to assess overall soil conditions at the three known historic UST locations. As shown on Figure 4, TRC advanced thirteen soil borings, corresponding to four borings at each of the known existing and former UST locations and one additional boring (SB-13) near one boring location (SB-12) where an elevated PID soil reading was measured at the bottom of boring and the boring was terminated due to refusal.

A vehicle-mounted, hydraulically-powered machine (Geoprobe® Model 6600) using static force and percussion advanced small-diameter tools into the subsurface to collect soil samples at each soil boring location. At each location, an attempt was made to advance a soil boring to the water table utilizing the direct push unit. At several boring locations, shallow refusal was encountered before groundwater. At least one boring location per UST location was completed to groundwater. All soil boring samples were continuously collected at 5-foot intervals and field screened for volatile organic compounds (VOCs) and signs of potential petroleum contamination to the water table, utilizing a PID and field observations (e.g., staining, odors, etc.). Geologic descriptions of the soil and field screening results were recorded in field logs. Appendix C contains the soil boring logs prepared by TRC.

At a minimum, one sample was selected from each boring for laboratory analysis from depths exhibiting evidence of potential contamination (e.g., odors, staining, PID readings). If there were no indications of potential contamination, the soil samples for analysis were either collected from the sampling interval above the inferred depth of the water table or the deepest interval prior to refusal. Selected discrete soil samples were analyzed for the following parameters:

- Target Compound List Volatile Organic Compounds (TCL VOCs),
- Target Compound List Semivolatile Organic Compounds (TCL SVOCs),
- Target Compound List Pesticides/Polychlorinated Biphenyls (TCL pesticides/PCBs) and
- Target Analyte List Metals (TAL Metals)

Samples were containerized in accordance with EPA analytical protocols. Each container was properly labeled and placed in an iced cooler for transport to the laboratory. A chain-of-custody was completed in the field and accompanied the samples to the laboratory.

3.5 Groundwater Sampling and Analysis

A conventional hollow-stem auger rig was used to install four, two-inch diameter permanent groundwater monitoring wells at the Site. The initial scope of work called for 5 wells to be installed; however, due to the greater than anticipated depth to groundwater and numerous obstructions (cobbles, boulders, etc) that were encountered during the drilling, only four groundwater wells were able to be installed. Groundwater depth ranged from 26.69 feet (ft) below top of well casing (BTOC) to 29.88 ft BTOC in MW-1. The wells are flush-mounted wells with the top of casing located slightly below the adjacent grade. Groundwater flow direction is to the south west. Figure 4 shows the surveyed groundwater depth as well as the groundwater flow direction.

Groundwater monitoring wells were constructed of threaded Schedule 40 PVC well casing and 20-slot well screen. The wells were screened approximately 10 feet above the water table and 10 feet below the water table. Clean silica sand, Morie No. 2, or equivalent, was placed in the annular space around the well screen to a minimum of one foot above the top of the well screen, two feet being optimal. A two-foot bentonite seal was placed above the sand pack and hydrated with potable water. A portland cement/bentonite grout (6:1 ratio) was placed the well annulus up to 12 inches below grade only after the underlying bentonite seal was fully hydrated. A concrete ground surface seal or apron was installed 12 inches deep and surrounding the well at least 6 inches wide and sloped flush to surrounding paved surfaces. An 8-inch diameter protective flush-mounted steel surface manhole marked MONITORING WELL with a bolted cover was securely set in the concrete with a 12-inch steel skirt over the PVC well casing. A locking well cap with a keyed-alike brass lock was provided for each well. Well construction diagrams were prepared by TRC for each well and are located in Appendix C.

Following development, the wells were allowed to equilibrate for seven days prior to groundwater sampling. The volume of water removed, the well development time, and field instrument readings were recorded. Groundwater development and sample logs are located in Appendix D.

Just prior to sampling the new groundwater monitoring wells, the wells were purged utilizing a low-flow submersible stainless steel pump and dedicated polyethylene tubing connected to a flow-through cell for monitoring water quality parameters. The submersible pump was decontaminated prior to sampling utilizing a solution of deionized water and Alconox detergent. Low purging rates were used to minimize suspension of particulate matter in the well. Field parameters including temperature, conductivity, pH,

turbidity, and dissolved oxygen (DO) were recorded during purging and before sampling. Prior to sampling, the goal of within ±10 percent for two consecutive readings for the field parameters was attained at each location. After completing purging, groundwater samples were collected with the low-flow submersible pump and dedicated disposable polyethylene tubing.

The locations and elevations of the tops of casings of all groundwater monitoring wells at the Site were surveyed by a New York State licensed land surveyor under contract to NYCEDC.

The groundwater samples were analyzed for the following parameters:

- TCL VOCs,
- TCL SVOCs, and
- TAL Metals (filtered and unfiltered).

Samples were containerized in accordance with EPA analytical protocols. Each container was properly labeled and placed in an iced cooler for transport to the laboratory. A chain-of-custody was completed in the field and accompanied the samples to the laboratory.

3.6 Surficial Soil Sampling/Shooting Ranges

Soil samples were collected from the three separate rifle/pistol shooting ranges located on the interior lower levels of the Armory. Dedicated, decontaminated stainless steel spoons were utilized to collect the soil samples at each of the shooting ranges, and samples were collected from multiple depths in each area. The soil samples were collected from 0 to 1.5 feet below ground intervals. A total of eighteen (18) soil samples were collected for total lead analysis from the five pistol shooting ranges and one rifle shooting range. Several of the samples were also screened in the field with a No. 5 sieve (4 mm or 0.157 inch opening to remove large pieces of lead shot. Based on the total lead sample results, eleven (11) of these soil samples were analyzed for TCLP leachable lead for waste disposal characterization. The locations of the soil sampling associated with the shooting ranges are shown on Figure 5.

Additional lead impacted material disposal will be necessary in the pistol range containing SB-I/9, SB-J/10, and SB-P/16. The wall on the west end of this firing rang is composed of wood (approximately 840 cubic ft) containing lead shot. The location of the wooden wall is shown on Figure 5.

3.7 Waste Management

Investigation derived wastes (IDW) are waste materials that was generated during the Phase II site investigation. The IDW included boring soil, well development and purge groundwater,

decontamination liquids, and personal protective equipment (PPE). Following groundwater well installation, six drums were properly labeled and stored on site. Three drums containing soil, two drums containing groundwater from well development and purging/sampling and decontamination water, and one drum containing soiled PPE was accumulated during the soil and groundwater investigation and are currently staged on site.

4.0 OBSERVATIONS AND ANALYTICAL FINDINGS

4.1 Nature of On-Site Materials

TRC completed 13 soil borings to characterize subsurface conditions adjacent to historic UST locations at the Site. Soil borings exposed urban fill materials to depths of approximately 5- to 10-feet below grade (ftbg). The urban fill appears to consist mainly of brown fine to coarse sand with some gravel and silt and contains construction debris including brick and concrete. Native glacial deposits below the urban fill consist of brown fine to coarse sand with some fine gravel and cobbles. Shallow refusal was encountered at several locations and was believed to be caused by large cobles or boulders. Boring logs describing subsurface conditions at the Site are presented in Appendix C.

4.2 Geophysical Survey

On July 16, 2007, a geophysical survey was performed by Enviroprobe for the purpose of locating underground storage tanks (USTs) and clearing proposed boring locations of buried utilities. The GPR penetration depth varied throughout the survey area and ranged from approximately 2 to 5 ftbg. Due to the presence of reinforced concrete, the GPR range was limited and could not confirm whether or not USTs were present at the two locations near the Maintenance Building. For each proposed boring location, an area measuring approximately 10 feet by 10 feet around the borings, were surveyed for underground utility pipes using Radiodetection instruments, metal detector and GPR. Located buried utilities were marked on the ground surface with spray paint to aid in locating borings away from these utilities.

4.3 Soil Boring/UST Investigation

TRC completed 13 soil borings and collected 14 soil samples from these borings for laboratory analysis to assess the soil conditions near the historic UST locations. The soil boring sample analytical results are summarized in Tables 1 through 5. Laboratory sample data summary reports are presented in Appendix D. Figure 3 shows the soil sampling boring locations. Soil contaminant levels were evaluated by comparison with the NYSDEC's 6 NYCRR Part 375 Brownfield Cleanup Program (BCP) Unrestricted Residential Use and Restricted Residential Use Soil Cleanup Objectives (SCOs). The SCO values used for comparison are the lower of the Protection of Public Health SCO or Protection of Groundwater SCO. These SCOs are the most recent published risk- and use-based levels that became effective December 14, 2006. Additionally, soil contaminant levels were compared to NYSDEC's Technical and Administrative Guidance Memorandum 4046 (TAGM 4046) recommended soil cleanup objectives (RSCOs) for inactive hazardous waste sites. The TAGM 4046 soil guidelines are still used by the NYSDEC to assess soil levels at sites outside of the BCP, Environmental Restoration Program, or

inactive hazardous waste disposal site remedial program. Therefore, comparison to the TAGM 4046 criteria is included because some NYSDEC Departments and the New York City Department of Environmental Protection (NYCDEP) continue to use these guidelines to evaluate sites in NYC. Significant findings of the soil boring sample analyses are summarized below:

- Slightly elevated PID readings and petroleum-like odors were observed in the field at boring locations SB-8 and SB-12.
- No VOCs were detected in the soil samples at concentrations exceeding NYSDEC Unrestricted or Restricted Residential Use SCOs or TAGM 4046 RSCOs. The 1,2-Dichloroethane presence in several of the soil samples was due to laboratory contamination. The laboratory has provided documentation confirming that the analysis for this compound is artificially elevated.
- SVOCs were detected at concentrations exceeding NYSDEC Unrestricted and Restricted Residential Use SCOs and TAGM 4046 RSCOs in 3 samples (SB-1 (13-15), SB-3 (12-14) and SB-7 (18-20)) of the 14 soil boring samples. The reporting limits for some SVOCs reported as undetected are slightly above the respective SCO; however, TRC was informed by the laboratory that the reporting limits are the lowest that could be achieved by the analytical method. The SVOCs detected above the comparison criteria consist primarily of carcinogenic polycyclic aromatic hydrocarbons (PAHs). While PAHs are associated with petroleum contamination, they are also commonly detected in urban fill due to fill characteristics and site conditions (e.g., asphalt fragments, urban atmospheric deposition). The highest concentrations of total SVOCs were detected at sample locations SB-1 (13-15). This soil sample was characterized as brown sand, clay and gravel with no PID readings, staining or odors. Soil sample SB-8 (18-20) and SB-12 (11-12) that had the highest observed PID levels and signs of potential petroleum impacts had nondetectable SVOC levels with similar reporting limits.
- No pesticides or PCBs were detected in the soil samples at concentrations exceeding NYSDEC's Unrestricted or Restricted Residential Use SCOs or TAGM 4046 RSCOs. The reporting limits for some pesticide compounds reported as undetected are slightly above the respective SCO; however, TRC was informed by the laboratory that the reporting limits are the lowest that could be achieved by the analytical standard method.
- Metals were not detected at concentrations exceeding NYSDEC Restricted Residential Use SCOs in the 13 samples collected. Several metals, were detected in the soil boring samples at levels above Unrestricted Residential Use SCOs including mercury in five samples, lead in three of the samples, nickel in two samples, and copper and zinc in one sample. Sample SB-6 (15-17) had three metals exceeding Unrestricted Residential Use SCOs and this sample consisted of sand and weathered rock with no signs of potential contamination. Several metals were detected in

the soil boring samples at levels above TAGM NYS background levels including beryllium in all eighteen samples, chromium in all eighteen samples, copper in seven samples, iron in all eighteen samples, nickel in seventeen samples, and zinc in all eighteen samples. Soil sample SB-8 (18-20) that had the highest observed PID level and signs of potential petroleum impacts (staining, odor) had no metals detected above SCOs. Based on the absence of any signs or potential sources of metals contamination related to the Site, these findings are likely indicative of site-specific background metals soil levels related to the native soils and/or urban fill conditions.

4.4 Groundwater Quality

TRC collected groundwater samples at four groundwater monitoring wells installed near historic UST locations at the western end of the Site to assess the presence of any groundwater impacts related to the former known UST operations. The analytical results are summarized on Tables 6 through 9. Groundwater contaminant levels were evaluated by comparison with the State's Ambient Water Quality Standards and Guidance Values for Class GA groundwater, as presented in the Division of Water Technical and Operational Guidance Series (TOGS) Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations (TOGS 1.1.1). Class GA groundwater represents a source of Drinking Water, and represents the groundwater classification that the NYSDEC would likely assign to the Site. Laboratory summary reports for the groundwater samples are presented in Appendix D. Figure 3 shows the groundwater sample locations. Significant findings of the groundwater sample analyses for this Phase 11 ESA are summarized below.

- One VOC was detected in the groundwater samples and it was detected a concentration just above the respective Class GA drinking water standard. Hexachlorobutadiene was detected at 0.63ug/L, slightly exceeding the Class GA standard of 0.5 ug/L. According to the federal Agency for Toxic Substances and Disease Registry (ATSDR) toxicological profile for this substance, Hexachlorobutadiene does not occur naturally in the environment. It is formed during the processing of other chemicals such as tetrachloroethylene, trichloroethylene, and carbon tetrachloride. Hexachlorobutadiene is an intermediate in the manufacture of rubber compounds and lubricants. It is used as a fluid for gyroscopes, a heat transfer liquid, or a hydraulic fluid. Therefore, TRC does not believe that this finding is related to the former historic UST operations on the Site.
- No SVOCs were detected in the groundwater samples.
- Several metals were detected at concentrations exceeding Class GA standards in each groundwater sample including iron, magnesium, manganese and sodium. Both the total and

dissolved (filtered) metals levels exceeded these standards. All of these metals are naturally occurring metals that are likely related to background soil and bedrock conditions in the area. Other metals detected in at least one of the groundwater samples but at levels below Class GA standards include calcium, copper, and chromium. Calcium was detected in each sample; however, there is no NYS groundwater standard or guidance value for calcium. Copper and chromium were only detected in sample MW-1 located just upgradient of the former gasoline UST along the western side of the Armory building.

- There were no signs of potential petroleum impacts (e.g., sheen, odor, free product) in the groundwater during the development, purging, or sampling of the wells.

4.5 Surficial Soil Quality/Shooting Ranges

TRC collected 18 soil samples from fifteen (15) surficial soil sampling locations for laboratory analysis to characterize total lead conditions at the indoor shooting ranges on the Site. One surficial soil sample was collected from within the 0 to 6 inches below grade at each location, In addition, at three of the locations, collocated samples were collected from multiple depths including TRC-SB-J/10 (0-3") and TRC-SB-O/16 (6"-1'), TRC-SB-K/11 and TRC-SB-Q/17 (screened through sieve), and TRC-SB-E/5 and TRC-SB-R/18 (screened through sieve). All of these samples were analyzed for total lead to assess the lead levels in the soils related to the prior shooting range operations. Of the 18 samples collected, 11 surficial soil samples were also analyzed for TCLP lead to assess leachable lead levels in representative samples from these areas. The surficial soil sample analytical results are summarized in Tables 6 and 7. Laboratory sample data summary reports are presented in Appendix D. Figure 5 shows the indoor shooting range soil sample locations. Soil contaminant levels were evaluated by comparison with the NYSDEC's 6 NYCRR Part 375 Unrestricted Residential Use and Restricted Residential Use Soil Cleanup Objectives SCOs and NYSDEC's TAGM 4046 RSCOs. Significant findings of the soil sample analyses are summarized below:

- The total lead levels of all but one of the soil samples (SB-O/15(0-3")) from the shooting ranges exceed the Unrestricted Residential Use SCO for lead (63 ppm). Of the remaining 17 soil samples, 12 samples had total lead levels that exceeded the Restricted Residential Use SCO (400 ppm) and the TAGM typical urban background upper range (500 ppm). Samples SB-K/11 and SB-E/5 were screened through a sieve in the field to remove large pieces of lead shot from the samples to produce samples SB-Q/17 and SB-R/18, respectively. The total lead concentrations between the sieved and non-sieved samples revealed little to no differences in concentrations. However, the shallow and deep analysis total lead comparison in samples TRC-SB-J/10 (0-3") (2,400 mg/kg) and TRC-SB-P/16 (6"-1') (180 mg/kg) from the same location showed significant differences in total lead concentrations. Also, there was a significant difference in concentration levels with regards to the distance of the sample location from the metal backstop or soil berm.

Generally, the samples collected closer to the metal backstop or soil berm backstop contained a higher concentration of total lead. The exceptions to this finding are samples SB-G/7 (3,200 mg/kg, collected from soil berm backstop) and SB-H/8 (5,500 mg/kg, collected from midway between firing area and berm), which were collected from the same shooting range. This finding may be due to the presence of more lead shot being present in the H/8 sample than the G/7 sample and not necessarily representative of the overall conditions in that range.

- TCLP lead was detected in 10 of the 11 soil samples submitted for this analysis. Representative samples were selected for TCLP testing based on the total lead sample results and consideration of various sample locations and depths in the shooting ranges. Leachable lead concentrations ranged from 1.6 mg/kg in TRC-SB-L/12 (3"-6") to 1,900 mg/kg in TRC-SB-A/1 (3-6"). Eight of these samples had TCLP lead levels that exceed the hazardous waste criterion for characterizing waste. The sieve screened samples TRC-SB-Q/17 and TRC-SB-R/18 showed a minor decrease in leachable concentrations from sieving samples SB-K/11 and SB-E/5. Whereas, a comparison of the leachable lead levels in the shallow and deep samples from the same location, TRC-SB-J/10 (0-3") (100 mg/L) and TRC-SB-P/16 (6"-1') (4.2 mg/L), showed significant differences in leachable lead concentrations.

5.0 CONCLUSIONS AND RECOMMENDATIONS

Three inactive suspect petroleum ASTs are present in the building. One inactive AST located on the drill floor still contains diesel fuel and must be emptied and removed. Two other former ASTs on the subbasement level appeared to be empty; however, they were not completely accessible due to surrounding debris and could not be opened. These tanks must be emptied of any remaining or residual contents and removed. The drums that remain on the site are empty and should be collected and disposed of off site. Any other abandoned containers of unused products (e.g., paints, roofing cement) should also be collected and appropriately disposed of off site.

The test pit investigation confirmed the presence of two former petroleum USTs at the Site that had been closed in place by filling with gravel/sand mixture. The two tanks are located below two concrete covered areas in the parking lot directly west of the Maintenance Building. These are likely the two on-site USTs (3,000 gallon diesel, and 2,000 gallon gasoline) noted in the Phase I ESA report that were closed in September 1993. At another former gasoline UST location west of the Armory building, the survey did not detect a remaining UST; however, an existing guard booth over the suspected former UST location made it impossible to survey the actual suspected former UST location. Although a previous geophysical survey at the same location prior to the construction of the guard booth indicated no remaining UST. The Phase I ESA provides a record indicating that one 225-gallon gasoline UST was closed-removed in 1995 at the Site. This may have been the gasoline tank that was at this location but there is insufficient documentation to confirm if this was the same tank. The Phase I ESA also includes records regarding several spill reports associated with leaking tanks at the Site. The spill reports indicate the removal of tanks and soil contamination; however, there is insufficient information to determine the exact locations of the historic tanks and spills. NYSDEC records or other records sources (e.g., National Guard, Phase I ESA FOIL responses) should be researched further for any additional documentation on the tank closures and associated spills at the Site.

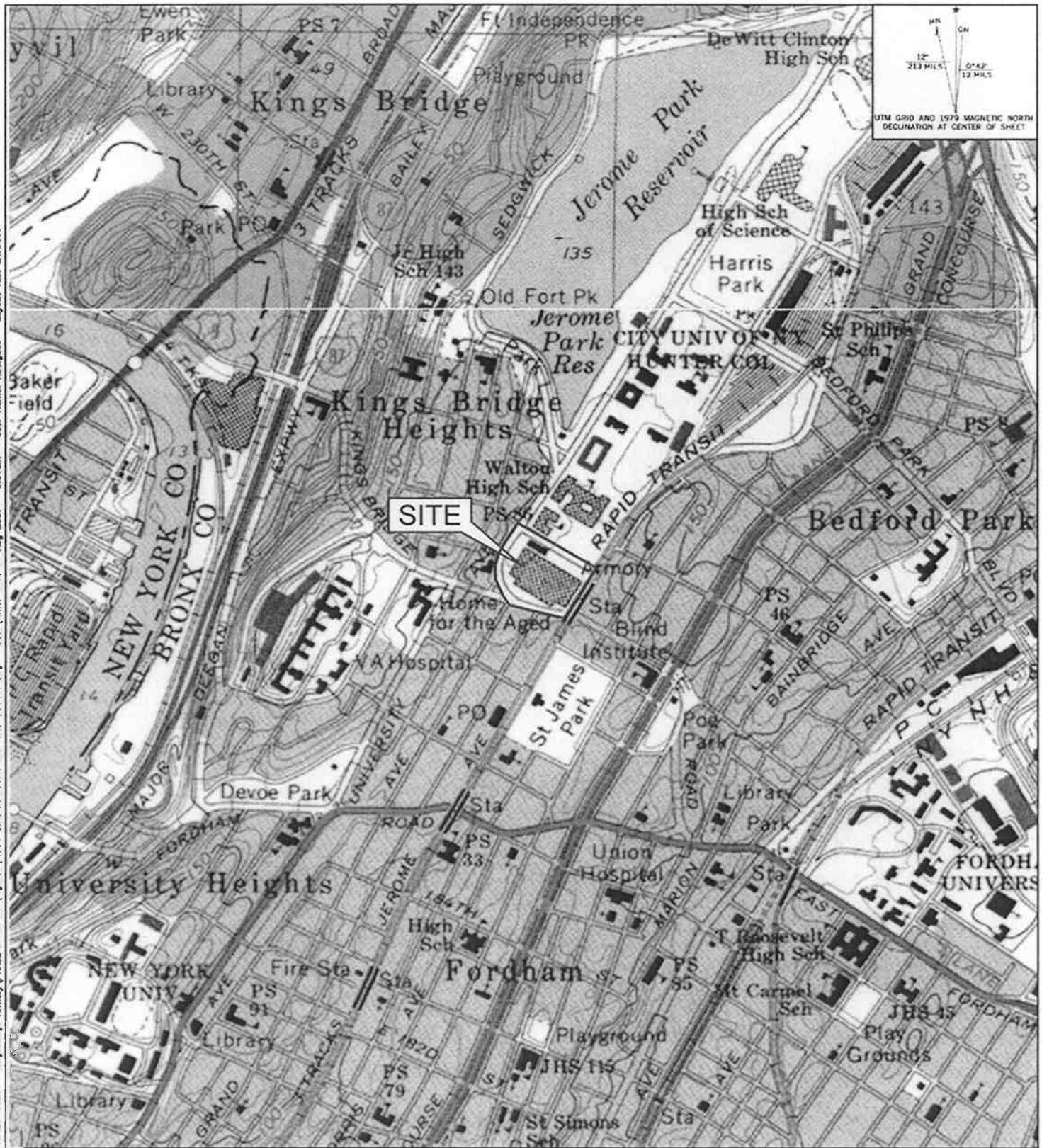
The results of the soil boring investigation around the former petroleum UST location indicate no significant concentrations of VOCs, SVOCs, PCBs, pesticides, or metals in the soils associated with the tanks. Rather, the investigation generally revealed the presence of soils with no signs of petroleum impacts with low levels of SVOCs and metals typically associated with such urban soils. Signs of petroleum impacts (e.g., odors, staining, PID readings) were observed at depths above the groundwater table at two boring locations (SB-8 at 18-20 ftbg, SB-12 at 11-12 ftbg). However, no SVOCs were

detected in either sample and only low levels of VOCs below established soil cleanup objective were detected in soil sample SB-8.

The results of the groundwater sample analysis indicate no detectable concentrations of SVOCs, pesticides, or PCBs in the groundwater near the former petroleum USTs. A low level of one VOC, hexachlorobutadiene, was detected in one well sample (MW-2) and at a concentration (0.63 ppb) slightly above the respective GA drinking water standard (0.5 ppb). The source of this VOC is unknown; however, it is not believed to be related to the former petroleum USTs on the Site. In addition, there were no signs of potential petroleum impacts (e.g., sheen, odor, free product) in the groundwater during the development, purging, or sampling of the wells. Other than calcium, iron, magnesium, manganese, and sodium, which typically reflect regional groundwater quality, no elevated concentrations of metals were detected in the groundwater. Based on the soil boring and groundwater findings, TRC does not recommend any further soil or groundwater investigations at the former UST locations unless such additional information is required by NYSDEC to close out open spill reports associated with the UST closures.

The indoor shooting range soil testing indicates the presence of elevated concentrations of total and TCLP leachable lead in the soils in the range. The highest lead levels were generally detected in the near surface soils and in the soil mounds located at the ends of several of the ranges. Lower lead levels were also generally detected in soils near the front of the ranges away from the ends where the bullets deflected into the soil floor. A majority of the samples tested for leachable lead levels showed lead levels that exceed hazardous waste characteristic criteria. TRC also observed evidence that there are large amounts of gunshot imbedded in the deteriorated wooden timber wall of the one western-most pistol range. Based on these findings, these soils and wooden timber wall should be removed and properly disposed off site with much of these soils having to be appropriately managed/disposed of as hazardous waste. The physical separation of lead shot from the soils during any removal will likely aid in reducing the soil lead levels, however, the limited screening done under this assessment showed no appreciable reduction.

FIGURES



SCALE 1:24 000

1 0.5 0 KILOMETERS 1 2

1000 0 METERS 1000 2000

1 0.5 0 1

MILES

1000 0 1000 2000 3000 4000 5000 6000 7000 8000 9000 10000

FEET

NEW YORK

QUADRANGLE LOCATION

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40073-G8-TF-024
1966

YONKERS, NY-NJ
1998

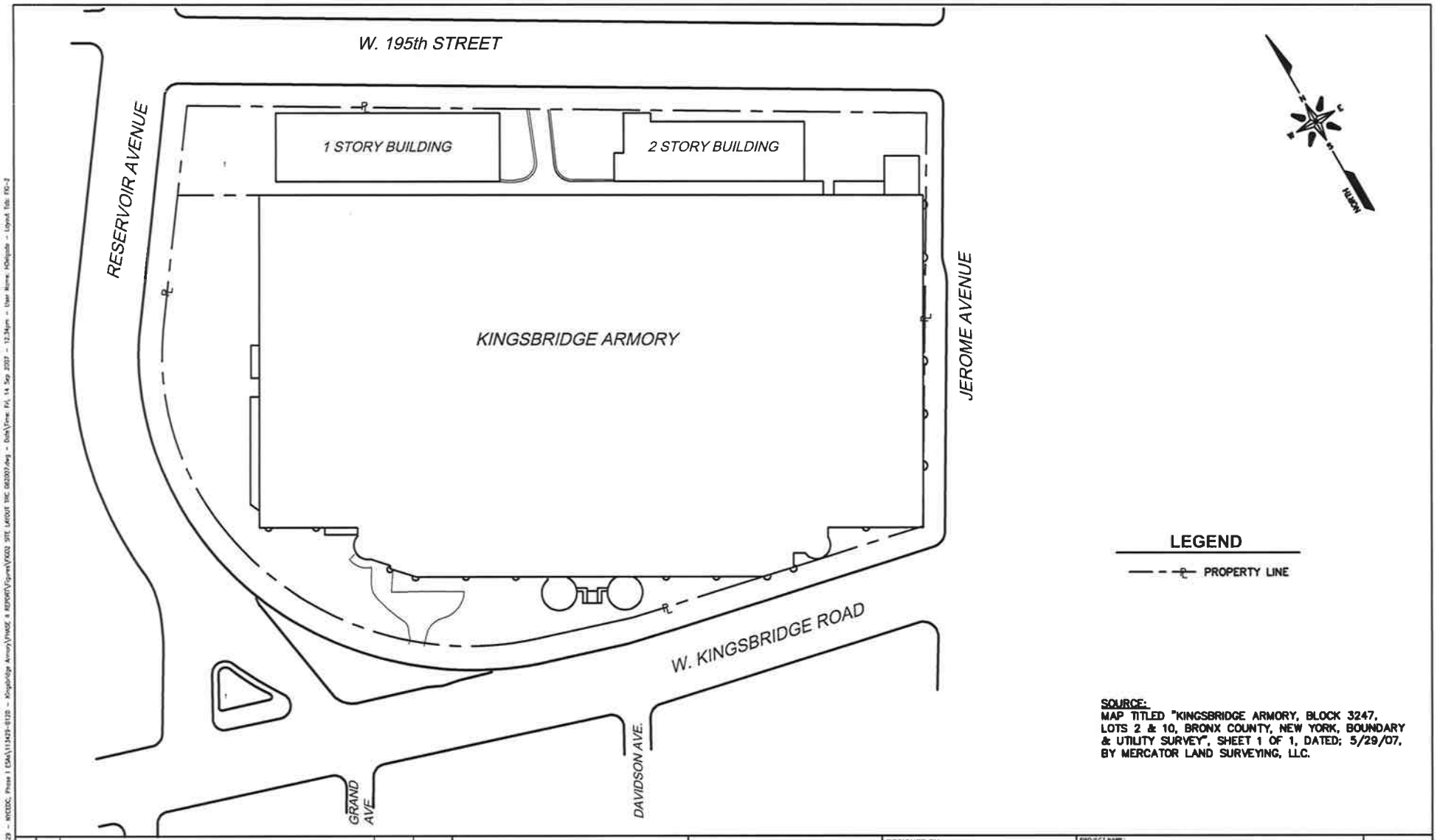
MAP OBTAINED THROUGH USE OF MAPTECH TERRAIN NAVIGATOR PRO SOFTWARE

TRC
1430 BROADWAY, 10TH FLOOR
NEW YORK, NEW YORK 10018
212-221-7822

DESIGNED BY: HD	PROJECT NAME: KINGSBRIDGE ARMORY, BRONX, NEW YORK
DRAWN BY: HD	
CHECKED BY: SM	
DATE: AUGUST 2007	DRAWING TITLE: SITE LOCATION MAP
SCALE: AS SHOWN	
PROJECT NUMBER: 113429.0120.0000	

FIGURE 1

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SOURCE:
MAP TITLED "KINGSBRIDGE ARMORY, BLOCK 3247, LOTS 2 & 10, BRONX COUNTY, NEW YORK, BOUNDARY & UTILITY SURVEY", SHEET 1 OF 1, DATED; 5/29/07, BY MERCATOR LAND SURVEYING, LLC.

REVISIONS NO.	DESCRIPTION	BY	DATE

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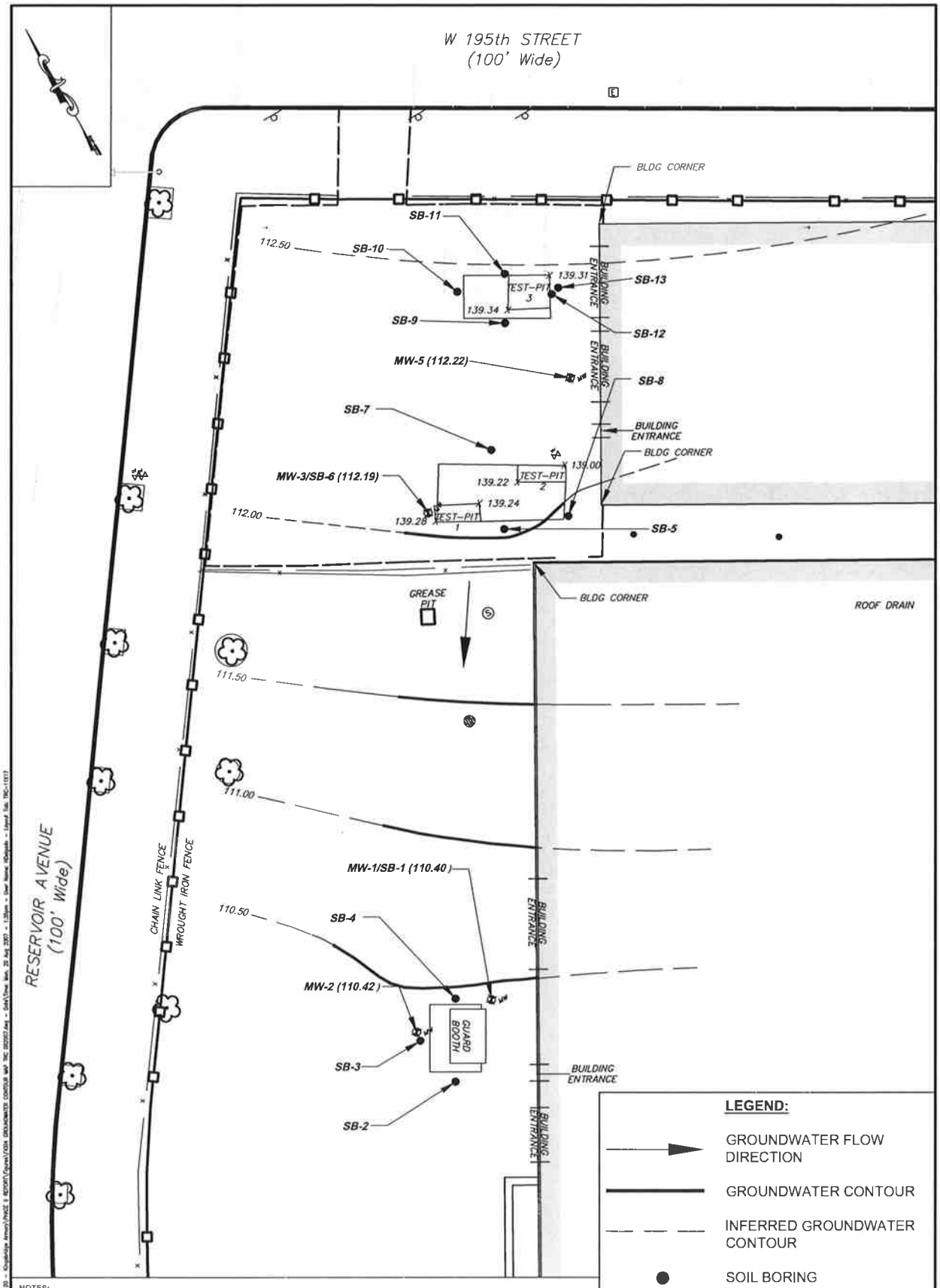
TRC
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NEW YORK, NEW YORK 10018
212-221-7822

DESIGNED BY:	
DRAWN BY: HD	
CHECKED BY: SM	
DATE: AUGUST 2007	
SCALE: AS SHOWN	
PROJECT NUMBER: 113429.0120.0000	

PROJECT NAME:
KINGSBRIDGE ARMORY
BRONX , NEW YORK

DRAWING TITLE:
SITE LAYOUT

FIGURE
2



NOTES:

1. THIS DRAWING IS BASED UPON A COMBINATION OF AERIAL MAPS, FEILD INVESTIGATIONS ANO SURVEYS CONDUCTED BY MERCATOR LAND SURVEYING, LLC ENDING ON APRIL 2007 BY AND/OR UNDER THE DIRECT SUPERVISION OF THE UNDERSIGNED SUVEYOR.
2. THE VERTICAL DATUM BASIS IS BOROUGH OF THE BRONX HIGHWAY DATUM WHICH IS 2.608' ABOVE SEA LEVEL AT SANDY HOOK, NEW JERSEY (NGVD29).

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GRAPHIC SCALE: 1"=20'

PAPER SIZE: 17" x 11"

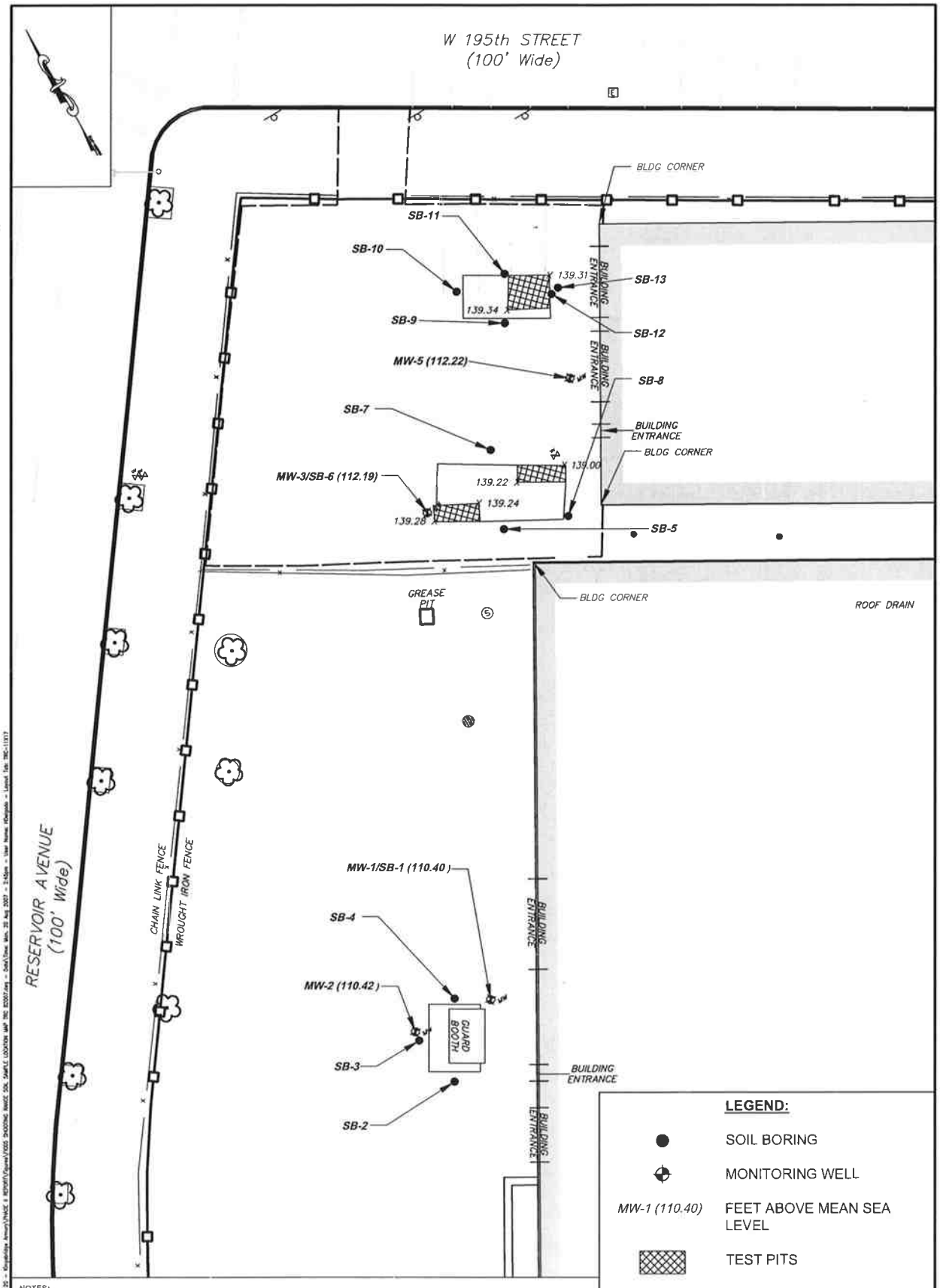
TRC
1430 BROADWAY, 10TH FLOOR
NEW YORK, NEW YORK 10018
212-221-7822

DESIGNED BY:	
DRAWN BY: HD	
CHECKED BY: SM	
DATE: AUGUST 2007	
SCALE: AS SHOWN	
PROJECT NUMBER: 113429.0120.0000	

PROJECT NAME: **KINGSBRIDGE ARMORY BRONX, NEW YORK**

DRAWING TITLE: GROUNDWATER CONTOUR MAP AUGUST 6, 2007

FIGURE 4



NOTES:

1. THIS DRAWING IS BASED UPON A COMBINATION OF AERIAL MAPS, FEILD INVESTIGATIONS AND SURVEYS CONDUCTED BY MERCATOR LAND SURVEYING, LLC ENDING ON APRIL 2007 BY AND/OR UNDER THE DIRECT SUPERVISION OF THE UNDERSIGNED SUVEYOR.
2. THE VERTICAL DATUM BASIS IS BOROUGH OF THE BRONX HIGHWAY DATUM WHICH IS 2.608' ABOVE SEA LEVEL AT SANDY HOOK, NEW JERSEY (NGVD29).

0 20 40 FT.

GRAPHIC SCALE: 1"=20'

PAPER SIZE: 17" x 11"

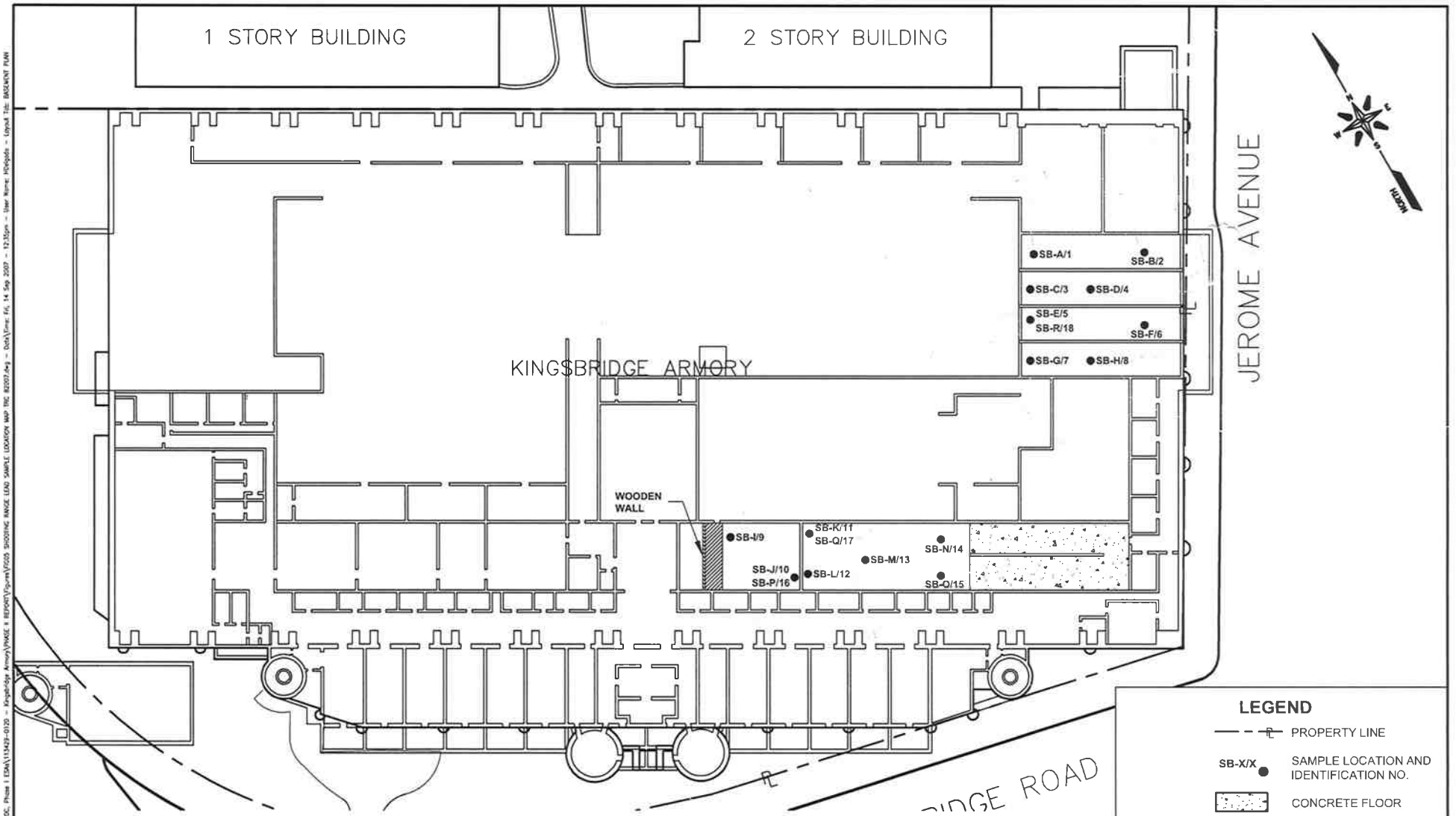
TRC
1430 BROADWAY, 10TH FLOOR
NEW YORK, NEW YORK 10018
212-221-7832

DESIGNED BY:	
DRAWN BY: HD	
CHECKED BY: SM	
DATE: AUGUST 2007	
SCALE: AS SHOWN	
PROJECT NUMBER: 113429.0120.0000	

PROJECT NAME: **KINGSBRIDGE ARMORY BRONX, NEW YORK**

DRAWING TITLE: SOIL AND GROUNDWATER SAMPLE LOCATION MAP

FIGURE 3



REVISIONS

NO.	DESCRIPTION	BY	DATE

0 50' 100'

GRAPHIC SCALE

PAPER SIZE: 11" x 17"

TRC
1430 BROADWAY, 10TH FLOOR
NEW YORK, NEW YORK 10018
212-221-7822

DESIGNED BY:	
DRAWN BY:	HD
CHECKED BY:	SM
DATE:	AUGUST 2007
SCALE:	AS SHOWN
PROJECT NUMBER:	113429.0120.0000

PROJECT NAME:
KINGSBRIDGE ARMORY
BRONX , NEW YORK

DRAWING TITLE:
SHOOTING RANGE SOIL SAMPLE LOCATION MAP

FIGURE
5

Plot/Name: \\Projects\113429 - NYCEDC, Phase I ESA\113429-0120 - Kingsbridge Armory\PHASE II REPORT\Figure\FIG05 SHOOTING RANGE LEAD SAMPLE LOCATION MAP TRC 82007.dwg - Data\Date: Fri, 14 Sep 2007 - 12:35pm - User Name: HDelpido - Layout Title: BASEMENT PLAN

TABLES

Table 1
Kingsbridge Armory
Bronx, New York
Phase II Environmental Site Assessment
Target Compound List - VOCs

LOCATION SAMPLING DATE LAB SAMPLE ID UNITS	TAGM 4046 Rec. Soil Cleanup Obj. mg/kg	Restricted Residential Use Soil Cleanup Objectives mg/kg	Unrestricted Residential Use Soil Cleanup Objectives mg/kg	TRC-SB-1 (13-15) 7/19/2007 L0710362-01 mg/kg	Qual	TRC-SB-2 (13-15) 7/19/2007 L0710362-02 mg/kg	Qual	TRC-SB-3 (12-14) 7/19/2007 L0710362-03 mg/kg	Qual	TRC-SB-4 (7-9) 7/19/2007 L0710362-04 mg/kg	Qual
Volatile Organics by EPA 8260B											
1,1,1,2-Tetrachloroethane	NC	NC	NC	0.0029	U	0.0029	U	0.0029	U	0.0028	U
1,1,1-Trichloroethane	0.8	100	0.68	0.0029	U	0.0029	U	0.0029	U	0.0028	U
1,1,2,2-Tetrachloroethane	0.6	NC	NC	0.0029	U	0.0029	U	0.0029	U	0.0028	U
1,1,2-Trichloro-1,2,2-Trifluoroethane	6	NC	NC	0.057	U	0.058	U	0.057	U	0.056	U
1,1,2-Trichloroethane	NC	NC	NC	0.0043	U	0.0044	U	0.0043	U	0.0042	U
1,1-Dichloroethane	0.2	19	0.27	0.0043	U	0.0044	U	0.0043	U	0.0042	U
1,1-Dichloroethene	0.4	100	0.33	0.0029	U	0.0029	U	0.0029	U	0.0028	U
1,1-Dichloropropene	NC	NC	NC	0.014	U	0.014	U	0.014	U	0.014	U
1,2,3-Trichlorobenzene	NC	NC	NC	0.014	U	0.014	U	0.014	U	0.014	U
1,2,4,5-Tetramethylbenzene	NC	NC	NC	0.0029	U	0.0029	U	0.0029	U	0.0028	U
1,2,4-Trichlorobenzene	3.4	NC	NC	0.014	U	0.014	U	0.014	U	0.014	U
1,2,4-Trimethylbenzene	10	47	3.6	0.014	U	0.014	U	0.014	U	0.014	U
1,2-Dibromo-3-chloropropane	NC	NC	NC	0.014	U	0.014	U	0.014	U	0.014	U
1,2-Dibromoethane	NC	NC	NC	0.011	U	0.012	U	0.011	U	0.011	U
1,2-Dichlorobenzene	7.9	100	1.1	0.014	U	0.014	U	0.014	U	0.014	U
1,2-Dichloroethane	0.1	2.3	0.02	0.014		**0.022**		**0.038**		0.03	
1,2-Dichloropropane	NC	NC	NC	0.01	U	0.01	U	0.01	U	0.0097	U
1,3,5-Trimethylbenzene	3.3	47	8.4	0.014	U	0.014	U	0.014	U	0.014	U
1,3-Dichlorobenzene	1.6	17	2.4	0.014	U	0.014	U	0.014	U	0.014	U
1,3-Dichloropropane	0.3	NC	NC	0.014	U	0.014	U	0.014	U	0.014	U
1,4-Dichlorobenzene	8.5	9.8	1.8	0.014	U	0.014	U	0.014	U	0.014	U
1,4-Diethylbenzene	NC	NC	NC	0.0029	U	0.0029	U	0.0029	U	0.0028	U
2,2-Dichloropropane	NC	NC	NC	0.014	U	0.014	U	0.014	U	0.014	U
2-Butanone	0.3	100	0.12	0.029	U	0.029	U	0.029	U	0.028	U
2-Hexanone	NC	NC	NC	0.029	U	0.029	U	0.029	U	0.028	U
4-Ethyltoluene	NC	NC	NC	0.0029	U	0.0029	U	0.0029	U	0.0028	U
4-Methyl-2-pentanone	1	NC	NC	0.029	U	0.029	U	0.029	U	0.028	U
Acetone	0.2	100	0.05	0.029	U	0.029	U	0.029	U	0.028	U

TAGM = New York State Department of Environmental Conservation Technical and Administrative Guidance Memorandums
Represents restricted residential use prohibits use of single family housing and vegetable gardens. Includes active recreational uses, which are public uses with a reasonable potential for soil contact. Restrictions on the use of groundwater are allowed
U - Concentration less than the minimum laboratory detection limit
NC - No guidance criteria estabilsed for this compound
Bold values exceed unrestricted residential use
Shaded values exceed restricted residential use

Table 1
Kingsbridge Armory
Bronx, New York
Phase II Environmental Site Assessment
Target Compound List - VOCs

LOCATION	TAGM 4046	Restricted Residential Use	Unrestricted Residential Use	TRC-SB-1 (13-15)		TRC-SB-2 (13-15)		TRC-SB-3 (12-14)		TRC-SB-4 (7-9)	
SAMPLING DATE	Rec. Soil	Soil Cleanup	Soil Cleanup	7/19/2007		7/19/2007		7/19/2007		7/19/2007	
LAB SAMPLE ID	Cleanup Obj.	Objectives	Objectives	L0710362-01		L0710362-02		L0710362-03		L0710362-04	
UNITS	mg/kg	mg/kg	mg/kg	mg/kg	Qual	mg/kg	Qual	mg/kg	Qual	mg/kg	Qual
Benzene	0.06	2.9	0.06	0.0029	U	0.0029	U	0.0029	U	0.0028	U
Bromobenzene	NC	NC	NC	0.014	U	0.014	U	0.014	U	0.014	U
Bromochloromethane	NC	NC	NC	0.014	U	0.014	U	0.014	U	0.014	U
Bromodichloromethane	NC	NC	NC	0.0029	U	0.0029	U	0.0029	U	0.0028	U
Bromoform	NC	NC	NC	0.011	U	0.012	U	0.011	U	0.011	U
Bromomethane	NC	NC	NC	0.0057	U	0.0058	U	0.0057	U	0.0056	U
Carbon disulfide	2.7	NC	NC	0.029	U	0.029	U	0.029	U	0.028	U
Carbon tetrachloride	0.6	1.4	0.76	0.0029	U	0.0029	U	0.0029	U	0.0028	U
Chlorobenzene	1.7	100	1.1	0.0029	U	0.0029	U	0.0029	U	0.0028	U
Chloroethane	1.9	NC	NC	0.0057	U	0.0058	U	0.0057	U	0.0056	U
Chloroform	0.3	10	0.37	0.0043	U	0.0044	U	0.0043	U	0.0042	U
Chloromethane	NC	NC	NC	0.014	U	0.014	U	0.014	U	0.014	U
cis-1,2-Dichloroethene	NC	59	0.25	0.0029	U	0.0029	U	0.0029	U	0.0028	U
cis-1,3-Dichloropropene	NC	NC	NC	0.0029	U	0.0029	U	0.0029	U	0.0028	U
Dibromochloromethane	NC	NC	NC	0.0029	U	0.0029	U	0.0029	U	0.0028	U
Dibromomethane	NC	NC	NC	0.029	U	0.029	U	0.029	U	0.028	U
Dichlorodifluoromethane	NC	NC	NC	0.029	U	0.029	U	0.029	U	0.028	U
Ethylbenzene	5.5	30	1	0.0029	U	0.0029	U	0.0029	U	0.0028	U
Hexachlorobutadiene	NC	NC	NC	0.014	U	0.014	U	0.014	U	0.014	U
Isopropylbenzene	2.3	NC	NC	0.0029	U	0.0029	U	0.0029	U	0.0028	U
Methyl tert butyl ether	0.12	62	0.93	0.0057	U	0.0058	U	0.0057	U	0.0056	U
Methylene chloride	0.1	51	0.05	0.029	U	0.029	U	0.029	U	0.028	U
n-Butylbenzene	10	100	12	0.0029	U	0.0029	U	0.0029	U	0.0028	U
n-Propylbenzene	3.7	100	3.9	0.0029	U	0.0029	U	0.0029	U	0.0028	U
Naphthalene	13	100	12	0.014	U	0.014	U	0.014	U	0.014	U
o-Chlorotoluene	NC	NC	NC	0.014	U	0.014	U	0.014	U	0.014	U
o-Xylene	NC	NC	NC	0.0057	U	0.0058	U	0.0057	U	0.0056	U
p-Chlorotoluene	NC	NC	NC	0.014	U	0.014	U	0.014	U	0.014	U
p-Isopropyltoluene	10	NC	NC	0.0029	U	0.0029	U	0.0029	U	0.0028	U
p/m-Xylene	NC	NC	NC	0.0057	U	0.0058	U	0.0057	U	0.0056	U
sec-Butylbenzene	10	100	11	0.0029	U	0.0029	U	0.0029	U	0.0028	U
Styrene	NC	NC	NC	0.0057	U	0.0058	U	0.0057	U	0.0056	U
tert-Butylbenzene	10	100	5.9	0.014	U	0.014	U	0.014	U	0.014	U
Tetrachloroethene	1.4	5.5	1.3	0.0029	U	0.0029	U	0.0029	U	0.0028	U
Toluene	1.5	100	0.7	0.0043	U	0.0044	U	0.0043	U	0.0042	U
trans-1,2-Dichloroethene	0.3	100	0.19	0.0043	U	0.0044	U	0.0043	U	0.0042	U
trans-1,3-Dichloropropene	NC	NC	NC	0.0029	U	0.0029	U	0.0029	U	0.0028	U
Trichloroethene	0.7	10	0.47	0.0029	U	0.0029	U	0.0029	U	0.0028	U
Trichlorofluoromethane	NC	NC	NC	0.014	U	0.014	U	0.014	U	0.014	U
Vinyl acetate	NC	NC	NC	0.029	U	0.029	U	0.029	U	0.028	U
Vinyl chloride	0.2	0.21	0.02	0.0057	U	0.0058	U	0.0057	U	0.0056	U

TAGM = New York State Department of Environmental Conservation Technical and Administrative Guidance Memorandums

Represents restricted residential use prohibits use of single family housing and vegetable gardens. Includes active recreational uses, which are public uses with a reasonable potential for soil contact. Restrictions on the use of groundwater are allowed

U - Concentration less than the minimum laboratory detection limit.

NC - No guidance criteria established for this compound

Bold values exceed unrestricted residential use.

Shaded values exceed restricted residential use.

Table 1
Kingsbridge Armory
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Phase II Environmental Site Assessment
Target Compound List - VOCs

LOCATION SAMPLING DATE LAB SAMPLE ID UNITS	TAGM 4046 Rec. Soil Cleanup Obj. mg/kg	Restricted Residential Use Soil Cleanup Objectives mg/kg	Unrestricted Residential Use Soil Cleanup Objectives mg/kg	TRC-SB-5 (23-25) 7/19/2007 L0710362-05 mg/kg	Qual	TRC-SB-6 (35-17) 7/19/2007 L0710362-06 mg/kg	Qual	TRC-SB-7 (18-20) 7/19/2007 L0710362-07 mg/kg	Qual	TRC-SB-8 (18-20) 7/19/2007 L0710362-08 mg/kg	Qual
Volatile Organics by EPA 8260B											
1,1,1,2-Tetrachloroethane	NC	NC	NC	0.0029	U	0.0028	U	0.0027	U	0.0029	U
1,1,1-Trichloroethane	0.8	100	0.68	0.0029	U	0.0028	U	0.0027	U	0.0029	U
1,1,2,2-Tetrachloroethane	0.6	NC	NC	0.0029	U	0.0028	U	0.0027	U	0.0029	U
1,1,2-Trichloro-1,2,2-Trifluoroethane	6	NC	NC	0.059	U	0.056	U	0.055	U	0.059	U
1,1,2-Trichloroethane	NC	NC	NC	0.0044	U	0.0042	U	0.0041	U	0.0044	U
1,1-Dichloroethane	0.2	19	0.27	0.0044	U	0.0042	U	0.0041	U	0.0044	U
1,1-Dichloroethene	0.4	100	0.33	0.0029	U	0.0028	U	0.0027	U	0.0029	U
1,1-Dichloropropene	NC	NC	NC	0.015	U	0.014	U	0.014	U	0.015	U
1,2,3-Trichlorobenzene	NC	NC	NC	0.015	U	0.014	U	0.014	U	0.015	U
1,2,4,5-Tetramethylbenzene	NC	NC	NC	0.0029	U	0.0028	U	0.0027	U	0.032	
1,2,4-Trichlorobenzene	3.4	NC	NC	0.015	U	0.014	U	0.014	U	0.015	U
1,2,4-Trimethylbenzene	10	47	3.6	0.015	U	0.014	U	0.014	U	0.015	U
1,2-Dibromo-3-chloropropane	NC	NC	NC	0.015	U	0.014	U	0.014	U	0.015	U
1,2-Dibromoethane	NC	NC	NC	0.012	U	0.011	U	0.011	U	0.012	U
1,2-Dichlorobenzene	7.9	100	1.1	0.015	U	0.014	U	0.014	U	0.015	U
1,2-Dichloroethane	0.1	2.3	0.02	0.039		0.017		0.023		0.01	
1,2-Dichloropropane	NC	NC	NC	0.01	U	0.0097	U	0.0096	U	0.01	U
1,3,5-Trimethylbenzene	3.3	47	8.4	0.015	U	0.014	U	0.014	U	0.015	U
1,3-Dichlorobenzene	1.6	17	2.4	0.015	U	0.014	U	0.014	U	0.015	U
1,3-Dichloropropane	0.3	NC	NC	0.015	U	0.014	U	0.014	U	0.015	U
1,4-Dichlorobenzene	8.5	9.8	1.8	0.015	U	0.014	U	0.014	U	0.015	U
1,4-Diethylbenzene	NC	NC	NC	0.0029	U	0.0028	U	0.0027	U	0.0042	
2,2-Dichloropropane	NC	NC	NC	0.015	U	0.014	U	0.014	U	0.015	U
2-Butanone	0.3	100	0.12	0.029	U	0.028	U	0.027	U	0.029	U
2-Hexanone	NC	NC	NC	0.029	U	0.028	U	0.027	U	0.029	U
4-Ethyltoluene	NC	NC	NC	0.0029	U	0.0028	U	0.0027	U	0.0029	U
4-Methyl-2-pentanone	1	NC	NC	0.029	U	0.028	U	0.027	U	0.029	U
Acetone	0.2	100	0.05	0.029	U	0.028	U	0.027	U	0.038	

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Shaded values exceed restricted residential use.

Table 1
Kingsbridge Armory
Bronx, New York
Phase II Environmental Site Assessment
Target Compound List - VOCs

LOCATION SAMPLING DATE LAB SAMPLE ID UNITS	TAGM 4046 Rec. Soil Cleanup Obj. mg/kg	Restricted Residential Use Soil Cleanup Objectives mg/kg	Unrestricted Residential Use Soil Cleanup Objectives mg/kg	TRC-SB-5 (23-25) 7/19/2007 L0710362-05 mg/kg	Qual	TRC-SB-6 (15-17) 7/19/2007 L0710362-06 mg/kg	Qual	TRC-SB-7 (18-20) 7/19/2007 L0710362-07 mg/kg	Qual	TRC-SB-8 (18-20) 7/19/2007 L0710362-08 mg/kg	Qual
Benzene	0.06	2.9	0.06	0.0029	U	0.0028	U	0.0027	U	0.0029	U
Bromobenzene	NC	NC	NC	0.015	U	0.014	U	0.014	U	0.015	U
Bromochloromethane	NC	NC	NC	0.015	U	0.014	U	0.014	U	0.015	U
Bromodichloromethane	NC	NC	NC	0.0029	U	0.0028	U	0.0027	U	0.0029	U
Bromoform	NC	NC	NC	0.012	U	0.011	U	0.011	U	0.012	U
Bromomethane	NC	NC	NC	0.0059	U	0.0056	U	0.0055	U	0.0059	U
Carbon disulfide	2.7	NC	NC	0.029	U	0.028	U	0.027	U	0.029	U
Carbon tetrachloride	0.6	1.4	0.76	0.0029	U	0.0028	U	0.0027	U	0.0029	U
Chlorobenzene	1.7	100	1.1	0.0029	U	0.0028	U	0.0027	U	0.0029	U
Chloroethane	1.9	NC	NC	0.0059	U	0.0056	U	0.0055	U	0.0059	U
Chloroform	0.3	10	0.37	0.0044	U	0.0042	U	0.0041	U	0.0044	U
Chloromethane	NC	NC	NC	0.015	U	0.014	U	0.014	U	0.015	U
cis-1,2-Dichloroethene	NC	59	0.25	0.0029	U	0.0028	U	0.0027	U	0.0029	U
cis-1,3-Dichloropropene	NC	NC	NC	0.0029	U	0.0028	U	0.0027	U	0.0029	U
Dibromochloromethane	NC	NC	NC	0.0029	U	0.0028	U	0.0027	U	0.0029	U
Dibromomethane	NC	NC	NC	0.029	U	0.028	U	0.027	U	0.029	U
Dichlorodifluoromethane	NC	NC	NC	0.029	U	0.028	U	0.027	U	0.029	U
Ethylbenzene	5.5	30	1	0.0029	U	0.0028	U	0.0027	U	0.0029	U
Hexachlorobutadiene	NC	NC	NC	0.015	U	0.014	U	0.014	U	0.015	U
Isopropylbenzene	2.3	NC	NC	0.0029	U	0.0028	U	0.0027	U	0.0029	U
Methyl tert butyl ether	0.12	62	0.93	0.0059	U	0.0056	U	0.0055	U	0.0059	U
Methylene chloride	0.1	51	0.05	0.029	U	0.028	U	0.027	U	0.029	U
n-Butylbenzene	10	100	12	0.0029	U	0.0028	U	0.0027	U	0.0029	U
n-Propylbenzene	3.7	100	3.9	0.0029	U	0.0028	U	0.0027	U	0.0029	U
Naphthalene	13	100	12	0.015	U	0.014	U	0.014	U	0.015	U
o-Chlorotoluene	NC	NC	NC	0.015	U	0.014	U	0.014	U	0.015	U
o-Xylene	NC	NC	NC	0.0059	U	0.0056	U	0.0055	U	0.0059	U
p-Chlorotoluene	NC	NC	NC	0.015	U	0.014	U	0.014	U	0.015	U
p-Isopropyltoluene	10	NC	NC	0.0029	U	0.0028	U	0.0027	U	0.0029	U
p/m-Xylene	NC	NC	NC	0.0059	U	0.0056	U	0.0055	U	0.0059	U
sec-Butylbenzene	10	100	11	0.0029	U	0.0028	U	0.0027	U	0.0029	U
Styrene	NC	NC	NC	0.0059	U	0.0056	U	0.0055	U	0.0059	U
tert-Butylbenzene	10	100	5.9	0.015	U	0.014	U	0.014	U	0.015	U
Tetrachloroethene	1.4	5.5	1.3	0.0029	U	0.0028	U	0.0027	U	0.0029	U
Toluene	1.5	100	0.7	0.0044	U	0.0042	U	0.0041	U	0.0044	U
trans-1,2-Dichloroethene	0.3	100	0.19	0.0044	U	0.0042	U	0.0041	U	0.0044	U
trans-1,3-Dichloropropene	NC	NC	NC	0.0029	U	0.0028	U	0.0027	U	0.0029	U
Trichloroethene	0.7	10	0.47	0.0029	U	0.0028	U	0.0027	U	0.0029	U
Trichlorofluoromethane	NC	NC	NC	0.015	U	0.014	U	0.014	U	0.015	U
Vinyl acetate	NC	NC	NC	0.029	U	0.028	U	0.027	U	0.029	U
Vinyl chloride	0.2	0.21	0.02	0.0059	U	0.0056	U	0.0055	U	0.0059	U

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Kingsbridge Armory
Bronx, New York
Phase II Environmental Site Assessment
Target Compound List - VOCs

LOCATION SAMPLING DATE LAB SAMPLE ID UNITS	TAGM 4046 Rec. Soil Cleanup Obj. mg/kg	Restricted Residential Use Soil Cleanup Objectives mg/kg	Unrestricted Residential Use Soil Cleanup Objectives mg/kg	TRC-SB-8 (23-25) 7/19/2007 L0710362-09 mg/kg	Qual	TRC-SB-9 (24-26) 7/19/2007 L0710362-10 mg/kg	Qual	TRC-SB-10 (16-18) 7/19/2007 L0710362-11 mg/kg	Qual	TRC-SB-11 (10-12) 7/19/2007 L0710362-12 mg/kg	Qual
Volatile Organics by EPA 8260B											
1,1,1,2-Tetrachloroethane	NC	NC	NC	0.0029	U	0.0026	U	0.0027	U	0.0026	U
1,1,1-Trichloroethane	0.8	100	0.68	0.0029	U	0.0026	U	0.0027	U	0.0026	U
1,1,2,2-Tetrachloroethane	0.6	NC	NC	0.0029	U	0.0026	U	0.0027	U	0.0026	U
1,1,2-Trichloro-1,2,2-Trifluoroethane	6	NC	NC	0.059	U	0.053	U	0.054	U	0.053	U
1,1,2-Trichloroethane	NC	NC	NC	0.0044	U	0.004	U	0.0041	U	0.004	U
1,1-Dichloroethane	0.2	19	0.27	0.0044	U	0.004	U	0.0041	U	0.004	U
1,1-Dichloroethene	0.4	100	0.33	0.0029	U	0.0026	U	0.0027	U	0.0026	U
1,1-Dichloropropene	NC	NC	NC	0.015	U	0.013	U	0.014	U	0.013	U
1,2,3-Trichlorobenzene	NC	NC	NC	0.015	U	0.013	U	0.014	U	0.013	U
1,2,4,5-Tetramethylbenzene	NC	NC	NC	0.0068		0.0026	U	0.0027	U	0.0026	U
1,2,4-Trichlorobenzene	3.4	NC	NC	0.015	U	0.013	U	0.014	U	0.013	U
1,2,4-Trimethylbenzene	10	47	3.6	0.015	U	0.013	U	0.014	U	0.013	U
1,2-Dibromo-3-chloropropane	NC	NC	NC	0.015	U	0.013	U	0.014	U	0.013	U
1,2-Dibromoethane	NC	NC	NC	0.012	U	0.011	U	0.011	U	0.011	U
1,2-Dichlorobenzene	7.9	100	1.1	0.015	U	0.013	U	0.014	U	0.013	U
1,2-Dichloroethane	0.1	2.3	0.02	0.043		0.051		0.047		0.035	
1,2-Dichloropropane	NC	NC	NC	0.01	U	0.0093	U	0.0095	U	0.0093	U
1,3,5-Trimethylbenzene	3.3	47	8.4	0.015	U	0.013	U	0.014	U	0.013	U
1,3-Dichlorobenzene	1.6	17	2.4	0.015	U	0.013	U	0.014	U	0.013	U
1,3-Dichloropropane	0.3	NC	NC	0.015	U	0.013	U	0.014	U	0.013	U
1,4-Dichlorobenzene	8.5	9.8	1.8	0.015	U	0.013	U	0.014	U	0.013	U
1,4-Diethylbenzene	NC	NC	NC	0.0029	U	0.0026	U	0.0027	U	0.0026	U
2,2-Dichloropropane	NC	NC	NC	0.015	U	0.013	U	0.014	U	0.013	U
2-Butanone	0.3	100	0.12	0.029	U	0.026	U	0.027	U	0.026	U
2-Hexanone	NC	NC	NC	0.029	U	0.026	U	0.027	U	0.026	U
4-Ethyltoluene	NC	NC	NC	0.0029	U	0.0026	U	0.0027	U	0.0026	U
4-Methyl-2-pentanone	1	NC	NC	0.029	U	0.026	U	0.027	U	0.026	U
Acetone	0.2	100	0.05	0.029	U	0.026	U	0.027	U	0.026	U

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Shaded values exceed restricted residential use

Table 1
Kingsbridge Armory
Bronx, New York
Phase II Environmental Site Assessment
Target Compound List - VOCs

LOCATION SAMPLING DATE LAB SAMPLE ID UNITS	TAGM 4046 Rec. Soil Cleanup Obj. mg/kg	Restricted Residential Use Soil Cleanup Objectives mg/kg	Unrestricted Residential Use Soil Cleanup Objectives mg/kg	TRC-SB-8 (23-25) 7/19/2007 L0710362-09 mg/kg	Qual	TRC-SB-9 (24-26) 7/19/2007 L0710362-10 mg/kg	Qual	TRC-SB-10 (16-18) 7/19/2007 L0710362-11 mg/kg	Qual	TRC-SB-11 (10-12) 7/19/2007 L0710362-12 mg/kg	Qual
Benzene	0.06	2.9	0.06	0.0029	U	0.0026	U	0.0027	U	0.0026	U
Bromobenzene	NC	NC	NC	0.015	U	0.013	U	0.014	U	0.013	U
Bromochloromethane	NC	NC	NC	0.015	U	0.013	U	0.014	U	0.013	U
Bromodichloromethane	NC	NC	NC	0.0029	U	0.0026	U	0.0027	U	0.0026	U
Bromoform	NC	NC	NC	0.012	U	0.011	U	0.011	U	0.011	U
Bromomethane	NC	NC	NC	0.0059	U	0.0053	U	0.0054	U	0.0053	U
Carbon disulfide	2.7	NC	NC	0.029	U	0.026	U	0.027	U	0.026	U
Carbon tetrachloride	0.6	1.4	0.76	0.0029	U	0.0026	U	0.0027	U	0.0026	U
Chlorobenzene	1.7	100	1.1	0.0029	U	0.0026	U	0.0027	U	0.0026	U
Chloroethane	1.9	NC	NC	0.0059	U	0.0053	U	0.0054	U	0.0053	U
Chloroform	0.3	10	0.37	0.0044	U	0.004	U	0.0041	U	0.004	U
Chloromethane	NC	NC	NC	0.015	U	0.013	U	0.014	U	0.013	U
cis-1,2-Dichloroethene	NC	59	0.25	0.0029	U	0.0026	U	0.0027	U	0.0026	U
cis-1,3-Dichloropropene	NC	NC	NC	0.0029	U	0.0026	U	0.0027	U	0.0026	U
Dibromochloromethane	NC	NC	NC	0.0029	U	0.0026	U	0.0027	U	0.0026	U
Dibromomethane	NC	NC	NC	0.029	U	0.026	U	0.027	U	0.026	U
Dichlorodifluoromethane	NC	NC	NC	0.029	U	0.026	U	0.027	U	0.026	U
Ethylbenzene	5.5	30	1	0.0029	U	0.0026	U	0.0027	U	0.0026	U
Hexachlorobutadiene	NC	NC	NC	0.015	U	0.013	U	0.014	U	0.013	U
Isopropylbenzene	2.3	NC	NC	0.0029	U	0.0026	U	0.0027	U	0.0026	U
Methyl tert butyl ether	0.12	62	0.93	0.0059	U	0.0053	U	0.0054	U	0.0053	U
Methylene chloride	0.1	51	0.05	0.029	U	0.026	U	0.027	U	0.026	U
n-Butylbenzene	10	100	12	0.0029	U	0.0026	U	0.0027	U	0.0026	U
n-Propylbenzene	3.7	100	3.9	0.0029	U	0.0026	U	0.0027	U	0.0026	U
Naphthalene	13	100	12	0.015	U	0.013	U	0.014	U	0.013	U
o-Chlorotoluene	NC	NC	NC	0.015	U	0.013	U	0.014	U	0.013	U
o-Xylene	NC	NC	NC	0.0059	U	0.0053	U	0.0054	U	0.0053	U
p-Chlorotoluene	NC	NC	NC	0.015	U	0.013	U	0.014	U	0.013	U
p-Isopropyltoluene	10	NC	NC	0.0029	U	0.0026	U	0.0027	U	0.0026	U
p/m-Xylene	NC	NC	NC	0.0059	U	0.0053	U	0.0054	U	0.0053	U
sec-Butylbenzene	10	100	11	0.0029	U	0.0026	U	0.0027	U	0.0026	U
Styrene	NC	NC	NC	0.0059	U	0.0053	U	0.0054	U	0.0053	U
tert-Butylbenzene	10	100	5.9	0.015	U	0.013	U	0.014	U	0.013	U
Tetrachloroethene	1.4	5.5	1.3	0.0029	U	0.0026	U	0.0027	U	0.0026	U
Toluene	1.5	100	0.7	0.0044	U	0.004	U	0.0041	U	0.004	U
trans-1,2-Dichloroethene	0.3	100	0.19	0.0044	U	0.004	U	0.0041	U	0.004	U
trans-1,3-Dichloropropene	NC	NC	NC	0.0029	U	0.0026	U	0.0027	U	0.0026	U
Trichloroethene	0.7	10	0.47	0.0029	U	0.0026	U	0.0027	U	0.0026	U
Trichlorofluoromethane	NC	NC	NC	0.015	U	0.013	U	0.014	U	0.013	U
Vinyl acetate	NC	NC	NC	0.029	U	0.026	U	0.027	U	0.026	U
Vinyl chloride	0.2	0.21	0.02	0.0059	U	0.0053	U	0.0054	U	0.0053	U

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Volatile Organics by EPA 8260B							
1,1,1,2-Tetrachloroethane	NC	NC	NC	0.0026	U	0.0027	U
1,1,1-Trichloroethane	0.8	100	0.68	0.0026	U	0.0027	U
1,1,2,2-Tetrachloroethane	0.6	NC	NC	0.0026	U	0.0027	U
1,1,2-Trichloro-1,2,2-Trifluoroethane	6	NC	NC	0.053	U	0.054	U
1,1,2-Trichloroethane	NC	NC	NC	0.004	U	0.0041	U
1,1-Dichloroethane	0.2	19	0.27	0.004	U	0.0041	U
1,1-Dichloroethene	0.4	100	0.33	0.0026	U	0.0027	U
1,1-Dichloropropene	NC	NC	NC	0.013	U	0.014	U
1,2,3-Trichlorobenzene	NC	NC	NC	0.013	U	0.014	U
1,2,4,5-Tetramethylbenzene	NC	NC	NC	0.0026	U	0.0027	U
1,2,4-Trichlorobenzene	3.4	NC	NC	0.013	U	0.014	U
1,2,4-Trimethylbenzene	10	47	3.6	0.013	U	0.014	U
1,2-Dibromo-3-chloropropane	NC	NC	NC	0.013	U	0.014	U
1,2-Dibromoethane	NC	NC	NC	0.011	U	0.011	U
1,2-Dichlorobenzene	7.9	100	1.1	0.013	U	0.014	U
1,2-Dichloroethane	0.1	2.3	0.02	0.082		0.0027	U
1,2-Dichloropropane	NC	NC	NC	0.0093	U	0.0095	U
1,3,5-Trimethylbenzene	3.3	47	8.4	0.013	U	0.014	U
1,3-Dichlorobenzene	1.6	17	2.4	0.013	U	0.014	U
1,3-Dichloropropane	0.3	NC	NC	0.013	U	0.014	U
1,4-Dichlorobenzene	8.5	9.8	1.8	0.013	U	0.014	U
1,4-Diethylbenzene	NC	NC	NC	0.0026	U	0.0027	U
2,2-Dichloropropane	NC	NC	NC	0.013	U	0.014	U
2-Butanone	0.3	100	0.12	0.026	U	0.027	U
2-Hexanone	NC	NC	NC	0.026	U	0.027	U
4-Ethyltoluene	NC	NC	NC	0.0026	U	0.0027	U
4-Methyl-2-pentanone	1	NC	NC	0.026	U	0.027	U
Acetone	0.2	100	0.05	0.026	U	0.027	U

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Benzene	0.06	2.9	0.86	0.0026	U	0.0027	U
Bromobenzene	NC	NC	NC	0.013	U	0.014	U
Bromochloromethane	NC	NC	NC	0.013	U	0.014	U
Bromodichloromethane	NC	NC	NC	0.0026	U	0.0027	U
Bromoform	NC	NC	NC	0.011	U	0.011	U
Bromomethane	NC	NC	NC	0.0053	U	0.0054	U
Carbon disulfide	2.7	NC	NC	0.026	U	0.027	U
Carbon tetrachloride	0.6	1.4	0.76	0.0026	U	0.0027	U
Chlorobenzene	1.7	100	1.1	0.0026	U	0.0027	U
Chloroethane	1.9	NC	NC	0.0053	U	0.0054	U
Chloroform	0.3	10	0.37	0.004	U	0.0041	U
Chloromethane	NC	NC	NC	0.013	U	0.014	U
cis-1,2-Dichloroethene	NC	59	0.25	0.0026	U	0.0027	U
cis-1,3-Dichloropropene	NC	NC	NC	0.0026	U	0.0027	U
Dibromochloromethane	NC	NC	NC	0.0026	U	0.0027	U
Dibromomethane	NC	NC	NC	0.026	U	0.027	U
Dichlorodifluoromethane	NC	NC	NC	0.026	U	0.027	U
Ethylbenzene	5.5	30	1	0.0026	U	0.0027	U
Hexachlorobutadiene	NC	NC	NC	0.013	U	0.014	U
Isopropylbenzene	2.3	NC	NC	0.0026	U	0.0027	U
Methyl tert butyl ether	0.12	62	0.93	0.0053	U	0.0054	U
Methylene chloride	0.1	51	0.05	0.026	U	0.027	U
n-Butylbenzene	10	100	12	0.0026	U	0.0027	U
n-Propylbenzene	3.7	100	3.9	0.0026	U	0.0027	U
Naphthalene	13	100	12	0.013	U	0.014	U
o-Chlorotoluene	NC	NC	NC	0.013	U	0.014	U
o-Xylene	NC	NC	NC	0.0053	U	0.0054	U
p-Chlorotoluene	NC	NC	NC	0.013	U	0.014	U
p-Isopropyltoluene	10	NC	NC	0.0026	U	0.0027	U
p/m-Xylene	NC	NC	NC	0.0053	U	0.0054	U
sec-Butylbenzene	10	100	11	0.0026	U	0.0027	U
Styrene	NC	NC	NC	0.0053	U	0.0054	U
tert-Butylbenzene	10	100	5.9	0.013	U	0.014	U
Tetrachloroethene	1.4	5.5	1.3	0.0026	U	0.0027	U
Toluene	1.5	100	0.7	0.004	U	0.0041	U
trans-1,2-Dichloroethene	0.3	100	0.19	0.004	U	0.0041	U
trans-1,3-Dichloropropene	NC	NC	NC	0.0026	U	0.0027	U
Trichloroethene	0.7	10	0.47	0.0026	U	0.0027	U
Trichlorofluoromethane	NC	NC	NC	0.013	U	0.014	U
Vinyl acetate	NC	NC	NC	0.026	U	0.027	U
Vinyl chloride	0.2	0.21	0.02	0.0053	U	0.0054	U

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U - Concentration less than the minimum laboratory detection limit.

NC - No guidance criteria estabilised for this compound

Bold values exceed unrestricted residential use.

Shaded values exceed restricted residential use.

Table 2
Kingsbridge Armory
Bronx, New York
Phase II Environmental Site Assessment
Target Compound List - SVOCs

LOCATION SAMPLING DATE LAB SAMPLE ID UNITS	TAGM 4046 Rec. Soil Cleanup Obj. mg/kg	Restricted Residential Use Soil Cleanup Objectives mg/kg	Unrestricted Residential Use Soil Cleanup Objectives mg/kg	TRC-SB-1 (13-15) 7/19/2007 L0710362-01 mg/kg	Qual	TRC-SB-2 (13-15) 7/19/2007 L0710362-02 mg/kg	Qual	TRC-SB-3 (12-14) 7/19/2007 L0710362-03 mg/kg	Qual	TRC-SB-4 (7-9) 7/19/2007 L0710362-04 mg/kg	Qual
Semivolatile Organics by EPA 8270C											
1,2,4,5-Tetrachlorobenzene	NC	NC	NC	7.7	U	1.6	U	1.5	U	15	U
1,2,4-Trichlorobenzene	3.4	NC	NC	1.9	U	0.39	U	0.38	U	3.7	U
1,2-Dichlorobenzene	7.9	100	1.1	1.9	U	0.39	U	0.38	U	3.7	U
1,3-Dichlorobenzene	1.6	17	2.4	1.9	U	0.39	U	0.38	U	3.7	U
1,4-Dichlorobenzene	8.5	9.8	1.8	1.9	U	0.39	U	0.38	U	3.7	U
2,4,5-Trichlorophenol	0.1	NC	NC	1.9	U	0.39	U	0.38	U	3.7	U
2,4,6-Trichlorophenol	NC	NC	NC	1.9	U	0.39	U	0.38	U	3.7	U
2,4-Dichlorophenol	0.4	NC	NC	3.8	U	0.78	U	0.77	U	7.4	U
2,4-Dimethylphenol	NC	NC	NC	1.9	U	0.39	U	0.38	U	3.7	U
2,4-Dinitrophenol	0.2	NC	NC	7.7	U	1.6	U	1.5	U	15	U
2,4-Dinitrotoluene	NC	NC	NC	1.9	U	0.39	U	0.38	U	3.7	U
2,6-Dinitrotoluene	1	NC	NC	1.9	U	0.39	U	0.38	U	3.7	U
2-Chloronaphthalene	NC	NC	NC	2.3	U	0.46	U	0.46	U	4.4	U
2-Chlorophenol	0.8	NC	NC	2.3	U	0.46	U	0.46	U	4.4	U
2-Methylnaphthalene	36.4	NC	NC	8.6		0.39	U	0.38	U	3.7	U
2-Methylphenol	0.1	100	0.33	2.3	U	0.46	U	0.46	U	4.4	U
2-Nitroaniline	0.43	NC	NC	1.9	U	0.39	U	0.38	U	3.7	U
2-Nitrophenol	0.33	NC	NC	7.7	U	1.6	U	1.5	U	15	U
3,3'-Dichlorobenzidine	NC	NC	NC	3.8	U	0.78	U	0.77	U	7.4	U
3-Methylphenol/4-Methylphenol	NC	34	0.33	2.3	U	0.46	U	0.46	U	4.4	U
3-Nitroaniline	0.5	NC	NC	1.9	U	0.39	U	0.38	U	3.7	U
4,6-Dinitro-o-cresol	NC	NC	NC	7.7	U	1.6	U	1.5	U	15	U
4-Bromophenyl phenyl ether	NC	NC	NC	1.9	U	0.39	U	0.38	U	3.7	U
4-Chloroaniline	0.22	NC	NC	1.9	U	0.39	U	0.38	U	3.7	U
4-Chlorophenyl phenyl ether	NC	NC	NC	1.9	U	0.39	U	0.38	U	3.7	U
4-Nitroaniline	NC	NC	NC	2.7	U	0.54	U	0.54	U	5.2	U
4-Nitrophenol	0.1	NC	NC	3.8	U	0.78	U	0.77	U	7.4	U
Acenaphthene	50	100	20	13		0.39	U	0.38	U	3.7	U
Acenaphthylene	41	100	100	1.9	U	0.39	U	0.38	U	3.7	U
Acetophenone	NC	NC	NC	7.7	U	1.6	U	1.5	U	15	U
Anthracene	50	100	100	40		0.39	U	0.38	U	3.7	U

Table 2
Kingsbridge Armory
Bronx, New York
Phase II Environmental Site Assessment
Target Compound List - SVOCs

LOCATION SAMPLING DATE LAB SAMPLE ID UNITS	TAGM 4046 Rec. Soil Cleanup Obj. mg/kg	Restricted Residential Use Soil Cleanup Objectives mg/kg	Unrestricted Residential Use Soil Cleanup Objectives mg/kg	TRC-SB-1 (13-15) 7/19/2007 L0710362-01 mg/kg	Qual	TRC-SB-2 (13-15) 7/19/2007 L0710362-02 mg/kg	Qual	TRC-SB-3 (12-14) 7/19/2007 L0710362-03 mg/kg	Qual	TRC-SB-4 (7-9) 7/19/2007 L0710362-04 mg/kg	Qual
Benzo(a)anthracene	0.224	1	1	*40*		0.39	U	0.84		3.7	U
Benzo(a)pyrene	0.061	1	1	*27*		0.39	U	0.73		3.7	U
Benzo(b)fluoranthene	1.1	1	1	*37*		0.39	U	0.6		3.7	U
Benzo(ghi)perylene	50	100	100	16		0.39	U	0.38		3.7	U
Benzo(k)fluoranthene	1.1	1	0.8	*14*		0.39	U	0.64		3.7	U
Benzoic Acid	2.7	NC	NC	19	U	3.9	U	3.8	U	37	U
Benzyl Alcohol	NC	NC	NC	3.8	U	0.78	U	0.77	U	7.4	U
Biphenyl	NC	NC	NC	1.9	U	0.39	U	0.38	U	3.7	U
Bis(2-chloroethoxy)methane	NC	NC	NC	1.9	U	0.39	U	0.38	U	3.7	U
Bis(2-chloroethyl)ether	NC	NC	NC	1.9	U	0.39	U	0.38	U	3.7	U
Bis(2-chloroisopropyl)ether	NC	NC	NC	1.9	U	0.39	U	0.38	U	3.7	U
Bis(2-Ethylhexyl)phthalate	50	NC	NC	3.8	U	0.78	U	0.77	U	7.4	U
Butyl benzyl phthalate	50	NC	NC	1.9	U	0.39	U	0.38	U	3.7	U
Carbazole	NC	NC	NC	16		0.39	U	0.38	U	3.7	U
Chrysene	0.4	1	1	*34*		0.39	U	0.7		3.7	U
Di-n-butylphthalate	8.1	NC	NC	1.9	U	0.39	U	0.38	U	3.7	U
Di-n-octylphthalate	50	NC	NC	1.9	U	0.39	U	0.38	U	3.7	U
Dibenzo(a,h)anthracene	0.0143	0.33	0.33	*5.2*		0.39	U	0.38	U	3.7	U
Dibenzofuran	6.2	14	7	*22*		0.39	U	0.38	U	3.7	U
Diethyl phthalate	7.1	NC	NC	1.9	U	0.39	U	0.38	U	3.7	U
Dimethyl phthalate	2	NC	NC	1.9	U	0.39	U	0.38	U	3.7	U
Fluoranthene	50	100	100	*110*		0.39	U	1.3		3.7	U
Fluorene	50	100	30	18		0.39	U	0.38	U	3.7	U
Hexachlorobenzene	0.41	0.33	0.33	1.9	U	0.39	U	0.38	U	3.7	U
Hexachlorobutadiene	NC	NC	NC	3.8	U	0.78	U	0.77	U	7.4	U
Hexachlorocyclopentadiene	NC	NC	NC	3.8	U	0.78	U	0.77	U	7.4	U
Hexachloroethane	NC	NC	NC	1.9	U	0.39	U	0.38	U	3.7	U
Indeno(1,2,3-cd)Pyrene	3.2	0.5	0.5	*19*		0.39	U	**0.58**		3.7	U
Isophorone	4.4	NC	NC	1.9	U	0.39	U	0.38	U	3.7	U
n-Nitrosodi-n-propylamine	NC	NC	NC	1.9	U	0.39	U	0.38	U	3.7	U
Naphthalene	13	100	12	*15*		0.39	U	0.38	U	3.7	U
Nitrobenzene	0.2	NC	NC	1.9	U	0.39	U	0.38	U	3.7	U
NitrosoDiPhenylAmine(NDPA)/DPA	NC	NC	NC	5.7	U	1.2	U	1.1	U	11	U
P-Chloro-M-Cresol	0.24	NC	NC	1.9	U	0.39	U	0.38	U	3.7	U
Pentachlorophenol	1	2.4	0.8	7.7	U	1.6	U	1.5	U	15	U
Phenanthrene	50	100	100	*140*		0.39	U	0.38		3.7	U
Phenol	0.03	100	0.33	2.7	U	0.54	U	0.54	U	5.2	U
Pyrene	50	100	100	75		0.39	U	1.1		3.7	U

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Italicized values exceed TAGM criteria

Table 2
Kingsbridge Armory
Bronx, New York
Phase II Environmental Site Assessment
Target Compound List - SVOCs

LOCATION SAMPLING DATE LAB SAMPLE ID UNITS	TAGM 4046 Rec. Soil Cleanup Obj. mg/kg	Restricted Residential Use Soil Cleanup Objectives mg/kg	Unrestricted Residential Use Soil Cleanup Objectives mg/kg	TRC-SB-5 (23-25) 7/19/2007 L0710362-05 mg/kg	Qual	TRC-SB-6 (15-17) 7/19/2007 L0710362-06 mg/kg	Qual	TRC-SB-7 (18-20) 7/19/2007 L0710362-07 mg/kg	Qual	TRC-SB-8 (18-20) 7/19/2007 L0710362-08 mg/kg	Qual
Semivolatile Organics by EPA 8270C											
1,2,4,5-Tetrachlorobenzene	NC	NC	NC	1.6	U	1.5	U	1.5	U	1.6	U
1,2,4-Trichlorobenzene	3.4	NC	NC	0.39	U	0.37	U	0.37	U	0.39	U
1,2-Dichlorobenzene	7.9	100	1.1	0.39	U	0.37	U	0.37	U	0.39	U
1,3-Dichlorobenzene	1.6	17	2.4	0.39	U	0.37	U	0.37	U	0.39	U
1,4-Dichlorobenzene	8.5	9.8	1.8	0.39	U	0.37	U	0.37	U	0.39	U
2,4,5-Trichlorophenol	0.1	NC	NC	0.39	U	0.37	U	0.37	U	0.39	U
2,4,6-Trichlorophenol	NC	NC	NC	0.39	U	0.37	U	0.37	U	0.39	U
2,4-Dichlorophenol	0.4	NC	NC	0.78	U	0.74	U	0.73	U	0.78	U
2,4-Dimethylphenol	NC	NC	NC	0.39	U	0.37	U	0.37	U	0.39	U
2,4-Dinitrophenol	0.2	NC	NC	1.6	U	1.5	U	1.5	U	1.6	U
2,4-Dinitrotoluene	NC	NC	NC	0.39	U	0.37	U	0.37	U	0.39	U
2,6-Dinitrotoluene	1	NC	NC	0.39	U	0.37	U	0.37	U	0.39	U
2-Chloronaphthalene	NC	NC	NC	0.47	U	0.44	U	0.44	U	0.47	U
2-Chlorophenol	0.8	NC	NC	0.47	U	0.44	U	0.44	U	0.47	U
2-Methylnaphthalene	36.4	NC	NC	0.39	U	0.37	U	0.37	U	0.39	U
2-Methylphenol	0.1	100	0.33	0.47	U	0.44	U	0.44	U	0.47	U
2-Nitroaniline	0.43	NC	NC	0.39	U	0.37	U	0.37	U	0.39	U
2-Nitrophenol	0.33	NC	NC	1.6	U	1.5	U	1.5	U	1.6	U
3,3'-Dichlorobenzidine	NC	NC	NC	0.78	U	0.74	U	0.73	U	0.78	U
3-Methylphenol/4-Methylphenol	NC	34	0.33	0.47	U	0.44	U	0.44	U	0.47	U
3-Nitroaniline	0.5	NC	NC	0.39	U	0.37	U	0.37	U	0.39	U
4,6-Dinitro-o-cresol	NC	NC	NC	1.6	U	1.5	U	1.5	U	1.6	U
4-Bromophenyl phenyl ether	NC	NC	NC	0.39	U	0.37	U	0.37	U	0.39	U
4-Chloroaniline	0.22	NC	NC	0.39	U	0.37	U	0.37	U	0.39	U
4-Chlorophenyl phenyl ether	NC	NC	NC	0.39	U	0.37	U	0.37	U	0.39	U
4-Nitroaniline	NC	NC	NC	0.55	U	0.52	U	0.51	U	0.55	U
4-Nitrophenol	0.1	NC	NC	0.78	U	0.74	U	0.73	U	0.78	U
Acenaphthene	50	100	20	0.39	U	0.37	U	0.37	U	0.39	U
Acenaphthylene	41	100	100	0.39	U	0.37	U	0.37	U	0.39	U
Acetophenone	NC	NC	NC	1.6	U	1.5	U	1.5	U	1.6	U
Anthracene	50	100	100	0.39	U	0.37	U	0.41		0.39	U

Table 2
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Benzo(a)anthracene	0.224	1	1	0.39	U	0.37	U	0.79		0.39	U
Benzo(a)pyrene	0.061	1	1	0.39	U	0.37	U	0.71		0.39	U
Benzo(b)fluoranthene	1.1	1	1	0.39	U	0.37	U	0.67		0.39	U
Benzo(ghi)perylene	50	100	100	0.39	U	0.37	U	0.62		0.39	U
Benzo(k)fluoranthene	1.1	1	0.8	0.39	U	0.37	U	0.58		0.39	U
Benzoic Acid	2.7	NC	NC	3.9	U	3.7	U	3.7	U	3.9	U
Benzyl Alcohol	NC	NC	NC	0.78	U	0.74	U	0.73	U	0.78	U
Biphenyl	NC	NC	NC	0.39	U	0.37	U	0.37	U	0.39	U
Bis(2-chloroethoxy)methane	NC	NC	NC	0.39	U	0.37	U	0.37	U	0.39	U
Bis(2-chloroethyl)ether	NC	NC	NC	0.39	U	0.37	U	0.37	U	0.39	U
Bis(2-chloroisopropyl)ether	NC	NC	NC	0.39	U	0.37	U	0.37	U	0.39	U
Bis(2-Ethylhexyl)phthalate	50	NC	NC	0.78	U	0.74	U	0.73	U	0.78	U
Butyl benzyl phthalate	50	NC	NC	0.39	U	0.37	U	0.37	U	0.39	U
Carbazole	NC	NC	NC	0.39	U	0.37	U	0.37	U	0.39	U
Chrysene	0.4	1	1	0.39	U	0.37	U	0.72		0.39	U
Di-n-butylphthalate	8.1	NC	NC	0.39	U	0.37	U	0.37	U	0.39	U
Di-n-octylphthalate	50	NC	NC	0.39	U	0.37	U	0.37	U	0.39	U
Dibenzo(a,h)anthracene	0.0143	0.33	0.33	0.39	U	0.37	U	0.37	U	0.39	U
Dibenzofuran	6.2	14	7	0.39	U	0.37	U	0.37	U	0.39	U
Diethyl phthalate	7.1	NC	NC	0.39	U	0.37	U	0.37	U	0.39	U
Dimethyl phthalate	2	NC	NC	0.39	U	0.37	U	0.37	U	0.39	U
Fluoranthene	50	100	100	0.39	U	0.37	U	1.6		0.39	U
Fluorene	50	100	30	0.39	U	0.37	U	0.37	U	0.39	U
Hexachlorobenzene	0.41	0.33	0.33	0.39	U	0.37	U	0.37	U	0.39	U
Hexachlorobutadiene	NC	NC	NC	0.78	U	0.74	U	0.73	U	0.78	U
Hexachlorocyclopentadiene	NC	NC	NC	0.78	U	0.74	U	0.73	U	0.78	U
Hexachloroethane	NC	NC	NC	0.39	U	0.37	U	0.37	U	0.39	U
Indeno(1,2,3-cd)Pyrene	3.2	0.5	0.5	0.39	U	0.37	U	0.63		0.39	U
Isophorone	4.4	NC	NC	0.39	U	0.37	U	0.37	U	0.39	U
n-Nitrosodi-n-propylamine	NC	NC	NC	0.39	U	0.37	U	0.37	U	0.39	U
Naphthalene	13	100	12	0.39	U	0.37	U	0.37	U	0.39	U
Nitrobenzene	0.2	NC	NC	0.39	U	0.37	U	0.37	U	0.39	U
NitrosoDiPhenylAmine(NDPA)/DPA	NC	NC	NC	1.2	U	1.1	U	1.1	U	1.2	U
P-Chloro-M-Cresol	0.24	NC	NC	0.39	U	0.37	U	0.37	U	0.39	U
Pentachlorophenol	1	2.4	0.8	1.6	U	1.5	U	1.5	U	1.6	U
Phenanthrene	50	100	100	0.39	U	0.37	U	1.3		0.39	U
Phenol	0.03	100	0.33	0.55	U	0.52	U	0.51	U	0.55	U
Pyrene	50	100	100	0.39	U	0.37	U	1.3		0.39	U

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Phase II Environmental Site Assessment
Target Compound List - SVOCs

LOCATION SAMPLING DATE LAB SAMPLE ID UNITS	TAGM 4046 Rec. Soil Cleanup Obj. mg/kg	Restricted Residential Use Soil Cleanup Objectives mg/kg	Unrestricted Residential Use Soil Cleanup Objectives mg/kg	TRC-SB-8 (23-25) 7/19/2007 L0710362-09 mg/kg	Qual	TRC-SB-9 (24-26) 7/19/2007 L0710362-10 mg/kg	Qual	TRC-SB-10 (16-18) 7/19/2007 L0710362-11 mg/kg	Qual	TRC-SB-11 (10-12) 7/19/2007 L0710362-12 mg/kg	Qual
Semivolatile Organics by EPA 8270C											
1,2,4,5-Tetrachlorobenzene	NC	NC	NC	1.6	U	1.4	U	1.4	U	1.4	U
1,2,4-Trichlorobenzene	3.4	NC	NC	0.39	U	0.35	U	0.36	U	0.35	U
1,2-Dichlorobenzene	7.9	100	1.1	0.39	U	0.35	U	0.36	U	0.35	U
1,3-Dichlorobenzene	1.6	17	2.4	0.39	U	0.35	U	0.36	U	0.35	U
1,4-Dichlorobenzene	8.5	9.8	1.8	0.39	U	0.35	U	0.36	U	0.35	U
2,4,5-Trichlorophenol	0.1	NC	NC	0.39	U	0.35	U	0.36	U	0.35	U
2,4,6-Trichlorophenol	NC	NC	NC	0.39	U	0.35	U	0.36	U	0.35	U
2,4-Dichlorophenol	0.4	NC	NC	0.78	U	0.71	U	0.72	U	0.71	U
2,4-Dimethylphenol	NC	NC	NC	0.39	U	0.35	U	0.36	U	0.35	U
2,4-Dinitrophenol	0.2	NC	NC	1.6	U	1.4	U	1.4	U	1.4	U
2,4-Dinitrotoluene	NC	NC	NC	0.39	U	0.35	U	0.36	U	0.35	U
2,6-Dinitrotoluene	1	NC	NC	0.39	U	0.35	U	0.36	U	0.35	U
2-Chloronaphthalene	NC	NC	NC	0.47	U	0.42	U	0.43	U	0.42	U
2-Chlorophenol	0.8	NC	NC	0.47	U	0.42	U	0.43	U	0.42	U
2-Methylnaphthalene	36.4	NC	NC	0.39	U	0.35	U	0.36	U	0.35	U
2-Methylphenol	0.1	100	0.33	0.47	U	0.42	U	0.43	U	0.42	U
2-Nitroaniline	0.43	NC	NC	0.39	U	0.35	U	0.36	U	0.35	U
2-Nitrophenol	0.33	NC	NC	1.6	U	1.4	U	1.4	U	1.4	U
3,3'-Dichlorobenzidine	NC	NC	NC	0.78	U	0.71	U	0.72	U	0.71	U
3-Methylphenol/4-Methylphenol	NC	34	0.33	0.47	U	0.42	U	0.43	U	0.42	U
3-Nitroaniline	0.5	NC	NC	0.39	U	0.35	U	0.36	U	0.35	U
4,6-Dinitro-o-cresol	NC	NC	NC	1.6	U	1.4	U	1.4	U	1.4	U
4-Bromophenyl phenyl ether	NC	NC	NC	0.39	U	0.35	U	0.36	U	0.35	U
4-Chloroaniline	0.22	NC	NC	0.39	U	0.35	U	0.36	U	0.35	U
4-Chlorophenyl phenyl ether	NC	NC	NC	0.39	U	0.35	U	0.36	U	0.35	U
4-Nitroaniline	NC	NC	NC	0.55	U	0.5	U	0.51	U	0.5	U
4-Nitrophenol	0.1	NC	NC	0.78	U	0.71	U	0.72	U	0.71	U
Acenaphthene	50	100	20	0.39	U	0.35	U	0.36	U	0.35	U
Acenaphthylene	41	100	100	0.39	U	0.35	U	0.36	U	0.35	U
Acetophenone	NC	NC	NC	1.6	U	1.4	U	1.4	U	1.4	U
Anthracene	50	100	100	0.39	U	0.35	U	0.36	U	0.35	U

Table 2
Kingsbridge Armory
Bronx, New York
Phase II Environmental Site Assessment
Target Compound List - SVOCs

LOCATION SAMPLING DATE LAB SAMPLE ID UNITS	TAGM 4046 Rec. Soil Cleanup Obj. mg/kg	Restricted Residential Use Soil Cleanup Objectives mg/kg	Unrestricted Residential Use Soil Cleanup Objectives mg/kg	TRC-SB-8 (23-25) 7/19/2007 L0710362-09 mg/kg	Qual	TRC-SB-9 (24-26) 7/19/2007 L0710362-10 mg/kg	Qual	TRC-SB-10 (16-18) 7/19/2007 L0710362-11 mg/kg	Qual	TRC-SB-11 (10-12) 7/19/2007 L0710362-12 mg/kg	Qual
Benzo(a)anthracene	0.224	1	1	0.39	U	0.35	U	0.36	U	0.35	U
Benzo(a)pyrene	0.061	1	1	0.39	U	0.35	U	0.36	U	0.35	U
Benzo(b)fluoranthene	1.1	1	1	0.39	U	0.35	U	0.36	U	0.35	U
Benzo(ghi)perylene	50	100	100	0.39	U	0.35	U	0.36	U	0.35	U
Benzo(k)fluoranthene	1.1	1	0.8	0.39	U	0.35	U	0.36	U	0.35	U
Benzoic Acid	2.7	NC	NC	3.9	U	3.5	U	3.6	U	3.5	U
Benzyl Alcohol	NC	NC	NC	0.78	U	0.71	U	0.72	U	0.71	U
Biphenyl	NC	NC	NC	0.39	U	0.35	U	0.36	U	0.35	U
Bis(2-chloroethoxy)methane	NC	NC	NC	0.39	U	0.35	U	0.36	U	0.35	U
Bis(2-chloroethyl)ether	NC	NC	NC	0.39	U	0.35	U	0.36	U	0.35	U
Bis(2-chloroisopropyl)ether	NC	NC	NC	0.39	U	0.35	U	0.36	U	0.35	U
Bis(2-Ethylhexyl)phthalate	50	NC	NC	0.78	U	0.71	U	0.72	U	0.71	U
Butyl benzyl phthalate	50	NC	NC	0.39	U	0.35	U	0.36	U	0.35	U
Carbazole	NC	NC	NC	0.39	U	0.35	U	0.36	U	0.35	U
Chrysene	0.4	1	1	0.39	U	0.35	U	0.36	U	0.35	U
Di-n-butylphthalate	8.1	NC	NC	0.39	U	0.35	U	0.36	U	0.35	U
Di-n-octylphthalate	50	NC	NC	0.39	U	0.35	U	0.36	U	0.35	U
Dibenzo(a,h)anthracene	0.0143	0.33	0.33	0.39	U	0.35	U	0.36	U	0.35	U
Dibenzofuran	6.2	14	7	0.39	U	0.35	U	0.36	U	0.35	U
Diethyl phthalate	7.1	NC	NC	0.39	U	0.35	U	0.36	U	0.35	U
Dimethyl phthalate	2	NC	NC	0.39	U	0.35	U	0.36	U	0.35	U
Fluoranthene	50	100	100	0.39	U	0.35	U	0.36	U	0.35	U
Fluorene	50	100	30	0.39	U	0.35	U	0.36	U	0.35	U
Hexachlorobenzene	0.41	0.33	0.33	0.39	U	0.35	U	0.36	U	0.35	U
Hexachlorobutadiene	NC	NC	NC	0.78	U	0.71	U	0.72	U	0.71	U
Hexachlorocyclopentadiene	NC	NC	NC	0.78	U	0.71	U	0.72	U	0.71	U
Hexachloroethane	NC	NC	NC	0.39	U	0.35	U	0.36	U	0.35	U
Indeno(1,2,3-cd)Pyrene	3.2	0.5	0.5	0.39	U	0.35	U	0.36	U	0.35	U
Isophorone	4.4	NC	NC	0.39	U	0.35	U	0.36	U	0.35	U
n-Nitrosodi-n-propylamine	NC	NC	NC	0.39	U	0.35	U	0.36	U	0.35	U
Naphthalene	13	100	12	0.39	U	0.35	U	0.36	U	0.35	U
Nitrobenzene	0.2	NC	NC	0.39	U	0.35	U	0.36	U	0.35	U
NitrosoDiPhenylAmine(NDPA)/DPA	NC	NC	NC	1.2	U	1.1	U	1.1	U	1.1	U
P-Chloro-M-Cresol	0.24	NC	NC	0.39	U	0.35	U	0.36	U	0.35	U
Pentachlorophenol	1	2.4	0.8	1.6	U	1.4	U	1.4	U	1.4	U
Phenanthrene	50	100	100	0.39	U	0.35	U	0.36	U	0.35	U
Phenol	0.03	100	0.33	0.55	U	0.5	U	0.51	U	0.5	U
Pyrene	50	100	100	0.39	U	0.35	U	0.36	U	0.35	U

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Represents restricted residential use prohibits use of single family housing and vegetable gardens. Includes active recreational uses, which are public uses with a reasonable potential for soil contact. Restrictions on the use of groundwater are allowed
U - Concentration less than the minimum laboratory detection limit.
NC - No guidance criteria established for this compound
Bold values exceed unrestricted residential use.
Shaded values exceed restricted residential use.
Italicized values exceed TAGM criteria

Table 2
Kingsbridge Armory
Bronx, New York
Phase II Environmental Site Assessment
Target Compound List - SVOCs

LOCATION SAMPLING DATE LAB SAMPLE ID UNITS	TAGM 4046 Rec. Soil Cleanup Obj. mg/kg	Restricted Residential Use Soil Cleanup Objectives mg/kg	Unrestricted Residential Use Soil Cleanup Objectives mg/kg	TRC-SB-12 (11-12) 7/19/2007 L0710362-13 mg/kg	Qual	TRC-SB-13 (15-17) 7/19/2007 L0710362-15 mg/kg	Qual
Semivolatile Organics by EPA 8270C							
1,2,4,5-Tetrachlorobenzene	NC	NC	NC	1.4	U	1.4	U
1,2,4-Trichlorobenzene	3.4	NC	NC	0.35	U	0.36	U
1,2-Dichlorobenzene	7.9	100	1.1	0.35	U	0.36	U
1,3-Dichlorobenzene	1.6	17	2.4	0.35	U	0.36	U
1,4-Dichlorobenzene	8.5	9.8	1.8	0.35	U	0.36	U
2,4,5-Trichlorophenol	0.1	NC	NC	0.35	U	0.36	U
2,4,6-Trichlorophenol	NC	NC	NC	0.35	U	0.36	U
2,4-Dichlorophenol	0.4	NC	NC	0.71	U	0.72	U
2,4-Dimethylphenol	NC	NC	NC	0.35	U	0.36	U
2,4-Dinitrophenol	0.2	NC	NC	1.4	U	1.4	U
2,4-Dinitrotoluene	NC	NC	NC	0.35	U	0.36	U
2,6-Dinitrotoluene	1	NC	NC	0.35	U	0.36	U
2-Chloronaphthalene	NC	NC	NC	0.42	U	0.43	U
2-Chlorophenol	0.8	NC	NC	0.42	U	0.43	U
2-Methylnaphthalene	36.4	NC	NC	0.35	U	0.36	U
2-Methylphenol	0.1	100	0.33	0.42	U	0.43	U
2-Nitroaniline	0.43	NC	NC	0.35	U	0.36	U
2-Nitrophenol	0.33	NC	NC	1.4	U	1.4	U
3,3'-Dichlorobenzidine	NC	NC	NC	0.71	U	0.72	U
3-Methylphenol/4-Methylphenol	NC	34	0.33	0.42	U	0.43	U
3-Nitroaniline	0.5	NC	NC	0.35	U	0.36	U
4,6-Dinitro-o-cresol	NC	NC	NC	1.4	U	1.4	U
4-Bromophenyl phenyl ether	NC	NC	NC	0.35	U	0.36	U
4-Chloroaniline	0.22	NC	NC	0.35	U	0.36	U
4-Chlorophenyl phenyl ether	NC	NC	NC	0.35	U	0.36	U
4-Nitroaniline	NC	NC	NC	0.5	U	0.51	U
4-Nitrophenol	0.1	NC	NC	0.71	U	0.72	U
Acenaphthene	50	100	20	0.35	U	0.36	U
Acenaphthylene	41	100	100	0.35	U	0.36	U
Acetophenone	NC	NC	NC	1.4	U	1.4	U
Anthracene	50	100	100	0.35	U	0.36	U

Table 2
Kingsbridge Armory
Bronx, New York
Phase II Environmental Site Assessment
Target Compound List - SVOCs

LOCATION SAMPLING DATE LAB SAMPLE ID UNITS	TAGM 4046 Rec. Soil Cleanup Obj. mg/kg	Restricted Residential Use Soil Cleanup Objectives mg/kg	Unrestricted Residential Use Soil Cleanup Objectives mg/kg	TRC-SB-12 (11-12) 7/19/2007 L0710362-13 mg/kg	Qual	TRC-SB-13 (15-17) 7/19/2007 L0710362-15 mg/kg	Qual
Benzo(a)anthracene	0.224	1	1	0.35	U	0.36	U
Benzo(a)pyrene	0.061	1	1	0.35	U	0.36	U
Benzo(b)fluoranthene	1.1	1	1	0.35	U	0.36	U
Benzo(ghi)perylene	50	100	100	0.35	U	0.36	U
Benzo(k)fluoranthene	1.1	1	0.8	0.35	U	0.36	U
Benzoic Acid	2.7	NC	NC	3.5	U	3.6	U
Benzyl Alcohol	NC	NC	NC	0.71	U	0.72	U
Biphenyl	NC	NC	NC	0.35	U	0.36	U
Bis(2-chloroethoxy)methane	NC	NC	NC	0.35	U	0.36	U
Bis(2-chloroethyl)ether	NC	NC	NC	0.35	U	0.36	U
Bis(2-chloroisopropyl)ether	NC	NC	NC	0.35	U	0.36	U
Bis(2-Ethylhexyl)phthalate	50	NC	NC	0.71	U	0.72	U
Butyl benzyl phthalate	50	NC	NC	0.35	U	0.36	U
Carbazole	NC	NC	NC	0.35	U	0.36	U
Chrysene	0.4	1	1	0.35	U	0.36	U
Di-n-butylphthalate	8.1	NC	NC	0.35	U	0.36	U
Di-n-octylphthalate	50	NC	NC	0.35	U	0.36	U
Dibenzo(a,h)anthracene	0.0143	0.33	0.33	0.35	U	0.36	U
Dibenzofuran	6.2	14	7	0.35	U	0.36	U
Diethyl phthalate	7.1	NC	NC	0.35	U	0.36	U
Dimethyl phthalate	2	NC	NC	0.35	U	0.36	U
Fluoranthene	50	100	100	0.35	U	0.36	U
Fluorene	50	100	30	0.35	U	0.36	U
Hexachlorobenzene	0.41	0.33	0.33	0.35	U	0.36	U
Hexachlorobutadiene	NC	NC	NC	0.71	U	0.72	U
Hexachlorocyclopentadiene	NC	NC	NC	0.71	U	0.72	U
Hexachloroethane	NC	NC	NC	0.35	U	0.36	U
Indeno(1,2,3-cd)Pyrene	3.2	0.5	0.5	0.35	U	0.36	U
Isophorone	4.4	NC	NC	0.35	U	0.36	U
n-Nitrosodi-n-propylamine	NC	NC	NC	0.35	U	0.36	U
Naphthalene	13	100	12	0.35	U	0.36	U
Nitrobenzene	0.2	NC	NC	0.35	U	0.36	U
NitrosoDiPhenylAmine(NDPA)/DPA	NC	NC	NC	1.1	U	1.1	U
P-Chloro-M-Cresol	0.24	NC	NC	0.35	U	0.36	U
Pentachlorophenol	1	2.4	0.8	1.4	U	1.4	U
Phenanthrene	50	100	100	0.35	U	0.36	U
Phenol	0.03	100	0.33	0.5	U	0.51	U
Pyrene	50	100	100	0.35	U	0.36	U

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U - Concentration less than the minimum laboratory detection limit.
NC - No guidance criteria established for this compound
Bold values exceed unrestricted residential use.
Shaded values exceed restricted residential use
Italicized vallues exceed TAGM criteria

Table 3
Kingsbridge Armory
Bronx, New York
Phase II Environmental Site Assessment
TCLP - SVOC

LOCATION SAMPLING DATE LAB SAMPLE ID Units	TOGS GA STANDARD ug/L	TRC-SB-8 (18-20) 7/19/2007 L0710362-08 ug/L	Qual
TCLP Semi-Volatile Organics			
2,4,5-Trichlorophenol	**NC**	25	U
2,4,6-Trichlorophenol	**NC**	25	U
2,4-Dinitrotoluene	**5**	30	U
2-Methylphenol	**NC**	30	U
3-Methylphenol/4-Methylphenol	**NC**	30	U
Hexachlorobenzene	**0.04**	25	U
Hexachlorobutadiene	**0.5**	50	U
Hexachloroethane	**5**	25	U
Nitrobenzene	**0.4**	25	U
Pentachlorophenol	**1**	50	U
Pyridine	**50**	250	U

U - Concentration less than the minimum laboratory detection limit.
NC - No guidance criteria established for this compound.

Table 4
Kingsbridge Armory
Bronx, New York
Phase II Environmental Assessment
Target Compound List -
Pesticides and PCBs

LOCATION SAMPLING DATE LAB SAMPLE ID UNITS	TAGM 4046 Rec. Soil Cleanup Obj.	Restricted Residential Use Soil Cleanup Objectives mg/kg	Unrestricted Residential Use Soil Cleanup Objectives mg/kg	TRC-SB-1 (13-15) 7/19/2007 L0710362-01 mg/kg	Qual	TRC-SB-2 (13-15) 7/19/2007 L0710362-02 mg/kg	Qual	TRC-SB-3 (12-14) 7/19/2007 L0710362-03 mg/kg	Qual
Organochlorine Pesticides by EPA 8081A									
4,4'-DDD	2.9	2.6	0.0033	0.153	U	0.0194	U	0.0192	U
4,4'-DDE	2.1	1.8	0.0033	0.153	U	0.0194	U	0.0192	U
4,4'-DDT	2.1	1.7	0.0033	0.153	U	0.0194	U	0.0192	U
Aldrin	0.041	0.019	0.005	0.153	U	0.0194	U	0.0192	U
Alpha-BHC	0.11	0.097	0.02	0.153	U	0.0194	U	0.0192	U
Beta-BHC	0.2	0.072	0.036	0.153	U	0.0194	U	0.0192	U
Chlordane	0.54	NC	NC	0.613	U	0.0775	U	0.0766	U
Delta-BHC	0.3	100	0.04	0.153	U	0.0194	U	0.0192	U
Dieldrin	0.044	0.039	0.005	0.153	U	0.0194	U	0.0192	U
Endosulfan I	0.9	4.8	2.4	0.153	U	0.0194	U	0.0192	U
Endosulfan II	0.9	4.8	2.4	0.153	U	0.0194	U	0.0192	U
Endosulfan sulfate	1	4.8	2.4	0.153	U	0.0194	U	0.0192	U
Endrin	0.1	2.2	0.014	0.153	U	0.0194	U	0.0192	U
Endrin keytone	NC	NC	NC	0.153	U	0.0194	U	0.0192	U
Heptachlor	0.1	0.42	0.042	0.153	U	0.0194	U	0.0192	U
Heptachlor epoxide	0.02	NC	NC	0.153	U	0.0194	U	0.0192	U
Lindane	0.06	0.28	0.1	0.153	U	0.0194	U	0.0192	U
Methoxychlor	10	NC	NC	0.613	U	0.0775	U	0.0766	U
trans-Chlordane	NC	NC	NC	0.153	U	0.0194	U	0.0192	U
Polychlorinated Biphenyls by EPA 8082									
Aroclor 1016	10	1	0.1	0.0766	U	0.0388	U	0.0383	U
Aroclor 1221	10	1	0.1	0.0766	U	0.0388	U	0.0383	U
Aroclor 1232	10	1	0.1	0.0766	U	0.0388	U	0.0383	U
Aroclor 1242	10	1	0.1	0.0766	U	0.0388	U	0.0383	U
Aroclor 1248	10	1	0.1	0.0766	U	0.0388	U	0.0383	U
Aroclor 1254	10	1	0.1	0.0766	U	0.0388	U	0.0383	U
Aroclor 1260	10	1	0.1	0.0766	U	0.0388	U	0.0383	U

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Table 4
Kingsbridge Armory
Bronx, New York
Phase II Environmental Assessment
Target Compound List -
Pesticides and PCBs

LOCATION SAMPLING DATE LAB SAMPLE ID UNITS	TAGM 4046 Rec. Soil Cleanup Obj.	Restricted Residential Use Soil Cleanup Objectives mg/kg	Unrestricted Residential Use Soil Cleanup Objectives mg/kg	TRC-SB-4 (7-9) 7/19/2007 L0710362-04 mg/kg	Qual	TRC-SB-5 (23-25) 7/19/2007 L0710362-05 mg/kg	Qual	TRC-SB-6 (15-17) 7/19/2007 L0710362-06 mg/kg	Qual
Organochlorine Pesticides by EPA 8081A									
4,4'-DDD	2.9	2.6	0.0033	0.148	U	0.00392	U	0.0185	U
4,4'-DDE	2.1	1.8	0.0033	0.148	U	0.00392	U	0.0185	U
4,4'-DDT	2.1	1.7	0.0033	0.148	U	0.00392	U	0.0185	U
Aldrin	0.041	0.019	0.005	0.148	U	0.00392	U	0.0185	U
Alpha-BHC	0.11	0.097	0.02	0.148	U	0.00392	U	0.0185	U
Beta-BHC	0.2	0.072	0.036	0.148	U	0.00392	U	0.0185	U
Chlordane	0.54	NC	NC	0.592	U	0.0157	U	0.0741	U
Delta-BHC	0.3	100	0.04	0.148	U	0.00392	U	0.0185	U
Dieldrin	0.044	0.039	0.005	0.148	U	0.00392	U	0.0185	U
Endosulfan I	0.9	4.8	2.4	0.148	U	0.00392	U	0.0185	U
Endosulfan II	0.9	4.8	2.4	0.148	U	0.00392	U	0.0185	U
Endosulfan sulfate	1	4.8	2.4	0.148	U	0.00392	U	0.0185	U
Endrin	0.1	2.2	0.014	0.148	U	0.00392	U	0.0185	U
Endrin keytone	NC	NC	NC	0.148	U	0.00392	U	0.0185	U
Heptachlor	0.1	0.42	0.042	0.148	U	0.00392	U	0.0185	U
Heptachlor epoxide	0.02	NC	NC	0.148	U	0.00392	U	0.0185	U
Lindane	0.06	0.28	0.1	0.148	U	0.00392	U	0.0185	U
Methoxychlor	10	NC	NC	0.592	U	0.0157	U	0.0741	U
trans-Chlordane	NC	NC	NC	0.148	U	0.00392	U	0.0185	U
Polychlorinated Biphenyls by EPA 8082									
Aroclor 1016	10	1	0.1	0.037	U	0.0392	U	0.037	U
Aroclor 1221	10	1	0.1	0.037	U	0.0392	U	0.037	U
Aroclor 1232	10	1	0.1	0.037	U	0.0392	U	0.037	U
Aroclor 1242	10	1	0.1	0.037	U	0.0392	U	0.037	U
Aroclor 1248	10	1	0.1	0.037	U	0.0392	U	0.037	U
Aroclor 1254	10	1	0.1	0.037	U	0.0392	U	0.037	U
Aroclor 1260	10	1	0.1	0.037	U	0.0392	U	0.037	U

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Table 4
Kingsbridge Armory
Bronx, New York
Phase II Environmental Assessment
Target Compound List -
Pesticides and PCBs

LOCATION SAMPLING DATE LAB SAMPLE ID UNITS	TAGM 4046 Rec. Soil Cleanup Obj.	Restricted Residential Use Soil Cleanup Objectives mg/kg	Unrestricted Residential Use Soil Cleanup Objectives mg/kg	TRC-SB-7 (18-20) 7/19/2007 L0710362-07 mg/kg	Qual	TRC-SB-8 (18-20) 7/19/2007 L0710362-08 mg/kg	Qual	TRC-SB-8 (23-25) 7/19/2007 L0710362-09 mg/kg	Qual
Organochlorine Pesticides by EPA 8081A									
4,4'-DDD	2.9	2.6	0.0033	0.0183	U	0.0196	U	0.00392	U
4,4'-DDE	2.1	1.8	0.0033	0.0183	U	0.0196	U	0.00392	U
4,4'-DDT	2.1	1.7	0.0033	0.0183	U	0.0196	U	0.00392	U
Aldrin	0.041	0.019	0.005	0.0183	U	0.0196	U	0.00392	U
Alpha-BHC	0.11	0.097	0.02	0.0183	U	0.0196	U	0.00392	U
Beta-BHC	0.2	0.072	0.036	0.0183	U	0.0196	U	0.00392	U
Chlordane	0.54	NC	NC	0.0733	U	0.0784	U	0.0157	U
Delta-BHC	0.3	100	0.04	0.0183	U	0.0196	U	0.00392	U
Dieldrin	0.044	0.039	0.005	0.0183	U	0.0196	U	0.00392	U
Endosulfan I	0.9	4.8	2.4	0.0183	U	0.0196	U	0.00392	U
Endosulfan II	0.9	4.8	2.4	0.0183	U	0.0196	U	0.00392	U
Endosulfan sulfate	1	4.8	2.4	0.0183	U	0.0196	U	0.00392	U
Endrin	0.1	2.2	0.014	0.0183	U	0.0196	U	0.00392	U
Endrin keytone	NC	NC	NC	0.0183	U	0.0196	U	0.00392	U
Heptachlor	0.1	0.42	0.042	0.0183	U	0.0196	U	0.00392	U
Heptachlor epoxide	0.02	NC	NC	0.0183	U	0.0196	U	0.00392	U
Lindane	0.06	0.28	0.1	0.0183	U	0.0196	U	0.00392	U
Methoxychlor	10	NC	NC	0.0733	U	0.0784	U	0.0157	U
trans-Chlordane	NC	NC	NC	0.0183	U	0.0196	U	0.00392	U
Polychlorinated Biphenyls by EPA 8082									
Aroclor 1016	10	1	0.1	0.0366	U	0.0392	U	0.0392	U
Aroclor 1221	10	1	0.1	0.0366	U	0.0392	U	0.0392	U
Aroclor 1232	10	1	0.1	0.0366	U	0.0392	U	0.0392	U
Aroclor 1242	10	1	0.1	0.0366	U	0.0392	U	0.0392	U
Aroclor 1248	10	1	0.1	0.0366	U	0.0392	U	0.0392	U
Aroclor 1254	10	1	0.1	0.0366	U	0.0392	U	0.0392	U
Aroclor 1260	10	1	0.1	0.0366	U	0.0392	U	0.0392	U

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Table 4
Kingsbridge Armory
Bronx, New York
Phase II Environmental Assessment
Target Compound List -
Pesticides and PCBs

LOCATION SAMPLING DATE LAB SAMPLE ID UNITS	TAGM 4046 Rec. Soil Cleanup Obj.	Restricted Residential Use Soil Cleanup Objectives mg/kg	Unrestricted Residential Use Soil Cleanup Objectives mg/kg	TRC-SB-9 (24-26) 7/19/2007 L0710362-10 mg/kg	Qual	TRC-SB-10 (16-18) 7/19/2007 L0710362-11 mg/kg	Qual	TRC-SB-11 (10-12) 7/19/2007 L0710362-12 mg/kg	Qual
Organochlorine Pesticides by EPA 8081A									
4,4'-DDD	2.9	2.6	0.0033	0.00355	U	0.00362	U	0.00355	U
4,4'-DDE	2.1	1.8	0.0033	0.00355	U	0.00362	U	0.00355	U
4,4'-DDT	2.1	1.7	0.0033	0.00355	U	0.00362	U	0.00355	U
Aldrin	0.041	0.019	0.005	0.00355	U	0.00362	U	0.00355	U
Alpha-BHC	0.11	0.097	0.02	0.00355	U	0.00362	U	0.00355	U
Beta-BHC	0.2	0.072	0.036	0.00355	U	0.00362	U	0.00355	U
Chlordane	0.54	NC	NC	0.0142	U	0.0145	U	0.0142	U
Delta-BHC	0.3	100	0.04	0.00355	U	0.00362	U	0.00355	U
Dieldrin	0.044	0.039	0.005	0.00355	U	0.00362	U	0.00355	U
Endosulfan I	0.9	4.8	2.4	0.00355	U	0.00362	U	0.00355	U
Endosulfan II	0.9	4.8	2.4	0.00355	U	0.00362	U	0.00355	U
Endosulfan sulfate	1	4.8	2.4	0.00355	U	0.00362	U	0.00355	U
Endrin	0.1	2.2	0.014	0.00355	U	0.00362	U	0.00355	U
Endrin keytone	NC	NC	NC	0.00355	U	0.00362	U	0.00355	U
Heptachlor	0.1	0.42	0.042	0.00355	U	0.00362	U	0.00355	U
Heptachlor epoxide	0.02	NC	NC	0.00355	U	0.00362	U	0.00355	U
Lindane	0.06	0.28	0.1	0.00355	U	0.00362	U	0.00355	U
Methoxychlor	10	NC	NC	0.0142	U	0.0145	U	0.0142	U
trans-Chlordane	NC	NC	NC	0.00355	U	0.00362	U	0.00355	U
Polychlorinated Biphenyls by EPA 8082									
Aroclor 1016	10	1	0.1	0.0355	U	0.0362	U	0.0355	U
Aroclor 1221	10	1	0.1	0.0355	U	0.0362	U	0.0355	U
Aroclor 1232	10	1	0.1	0.0355	U	0.0362	U	0.0355	U
Aroclor 1242	10	1	0.1	0.0355	U	0.0362	U	0.0355	U
Aroclor 1248	10	1	0.1	0.0355	U	0.0362	U	0.0355	U
Aroclor 1254	10	1	0.1	0.0355	U	0.0362	U	0.0355	U
Aroclor 1260	10	1	0.1	0.0355	U	0.0362	U	0.0355	U

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Kingsbridge Armory
Bronx, New York
Phase II Environmental Assessment
Target Compound List -
Pesticides and PCBs

LOCATION SAMPLING DATE LAB SAMPLE ID UNITS	TAGM 4046 Rec. Soil Cleanup Obj.	Restricted Residential Use Soil Cleanup Objectives mg/kg	Unrestricted Residential Use Soil Cleanup Objectives mg/kg	TRC-SB-12 (11-12) 7/19/2007 L0710362-13 mg/kg	Qual	TRC-SB-13 (15-17) 7/19/2007 L0710362-15 mg/kg	Qual
Organochlorine Pesticides by EPA 8081A							
4,4'-DDD	2.9	2.6	0.0033	0.00355	U	0.0181	U
4,4'-DDE	2.1	1.8	0.0033	0.00355	U	0.0181	U
4,4'-DDT	2.1	1.7	0.0033	0.00355	U	0.0181	U
Aldrin	0.041	0.019	0.005	0.00355	U	0.0181	U
Alpha-BHC	0.11	0.097	0.02	0.00355	U	0.0181	U
Beta-BHC	0.2	0.072	0.036	0.00355	U	0.0181	U
Chlordane	0.54	NC	NC	0.0142	U	0.0725	U
Delta-BHC	0.3	100	0.04	0.00355	U	0.0181	U
Dieldrin	0.044	0.039	0.005	0.00355	U	0.0181	U
Endosulfan I	0.9	4.8	2.4	0.00355	U	0.0181	U
Endosulfan II	0.9	4.8	2.4	0.00355	U	0.0181	U
Endosulfan sulfate	1	4.8	2.4	0.00355	U	0.0181	U
Endrin	0.1	2.2	0.014	0.00355	U	0.0181	U
Endrin keytone	NC	NC	NC	0.00355	U	0.0181	U
Heptachlor	0.1	0.42	0.042	0.00355	U	0.0181	U
Heptachlor epoxide	0.02	NC	NC	0.00355	U	0.0181	U
Lindane	0.06	0.28	0.1	0.00355	U	0.0181	U
Methoxychlor	10	NC	NC	0.0142	U	0.0725	U
trans-Chlordane	NC	NC	NC	0.00355	U	0.0181	U
Polychlorinated Biphenyls by EPA 8082							
Aroclor 1016	10	1	0.1	0.0355	U	0.0362	U
Aroclor 1221	10	1	0.1	0.0355	U	0.0362	U
Aroclor 1232	10	1	0.1	0.0355	U	0.0362	U
Aroclor 1242	10	1	0.1	0.0355	U	0.0362	U
Aroclor 1248	10	1	0.1	0.0355	U	0.0362	U
Aroclor 1254	10	1	0.1	0.0355	U	0.0362	U
Aroclor 1260	10	1	0.1	0.0355	U	0.0362	U

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Table 5
Kingsbridge Armory
Bronx, New York
Phase II Environmental Site Assessment
Target Analyte List - Metals

LOCATION SAMPLING DATE LAB SAMPLE ID Units	TAGM 4046 Rec. Soil Cleanup Obj. mg/kg	Restricted Residential Use Soil Cleanup Objectives mg/kg	Unrestricted Residential Use Soil Cleanup Objectives mg/kg	TRC-SB-1 (13-15) 7/19/2007 L0710362-01 mg/kg	Qual	TRC-SB-2 (13-15) 7/19/2007 L0710362-02 mg/kg	Qual	TRC-SB-3 (12-14) 7/19/2007 L0710362-03 mg/kg	Qual
Total Metals									
Aluminum, Total	SB	NC	NC	13000		12000		6800	
Antimony, Total	SB	NC	NC	2.3	U	2.3	U	2.3	U
Arsenic, Total	7.5*	16	13	2.9		2.4		2.3	
Barium, Total	300*	350	350	100		120		67	
Beryllium, Total	0.16	14	7.2	*0.69*		*0.54*		*0.4*	
Cadmium, Total	1*	2.5	2.5	0.46	U	0.46	U	0.46	U
Calcium, Total	SB	NC	NC	6500		3800		5300	
Chromium, Total	10	NC	NC	*26*		*24*		*21*	
Cobalt, Total	30	NC	NC	8.1		8.4		5	
Copper, Total	25	270	50	*46*		20		20	
Iron, Total	2000*	NC	NC	*18000*		*17000*		*13000*	
Lead, Total	200-500	400	63	78		21		140	
Magnesium, Total	SB	NC	NC	6300		7800		3600	
Manganese, Total	SB	2000	1600	240		270		160	
Mercury, Total	0.1	0.81	0.18	0.1	U	0.1		0.19	
Nickel, Total	13	140	30	*16*		*14*		11	
Potassium, Total	SB	NC	NC	3200		3700		1400	
Selenium, Total	2	36	3.9	2.3	U	2.3	U	2.3	U
Silver, Total	SB	36	2	0.46	U	0.46	U	0.46	U
Sodium, Total	SB	NC	NC	360		390		330	
Thallium, Total	SB	NC	NC	2.3	U	2.3	U	2.3	U
Vanadium, Total	150*	NC	NC	41		37		23	
Zinc, Total	20	2200	109	*91*		*61*		*66*	

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Bold values exceed unrestricted residential use.
Italicized values exceed TAGM criteria

Table 5
Kingsbridge Armory
Bronx, New York
Phase II Environmental Site Assessment
Target Analyte List - Metals

LOCATION SAMPLING DATE LAB SAMPLE ID Units	TAGM 4046 Rec. Soil Cleanup Obj. mg/kg	Restricted Residential Use Soil Cleanup Objectives mg/kg	Unrestricted Residential Use Soil Cleanup Objectives mg/kg	TRC-SB-4 (7-9) 7/19/2007 L0710362-04 mg/kg	Qual	TRC-SB-5 (23-25) 7/19/2007 L0710362-05 mg/kg	Qual	TRC-SB-6 (15-17) 7/19/2007 L0710362-06 mg/kg	Qual
Total Metals									
Aluminum, Total	SB	NC	NC	9200		15000		12000	
Antimony, Total	SB	NC	NC	2.2	U	2.3	U	2.2	U
Arsenic, Total	7.5*	16	13	2.3		3.7		3.2	
Barium, Total	300*	350	350	83		71		100	
Beryllium, Total	0.16	14	7.2	*0.48*		*0.68*		*0.95*	
Cadmium, Total	1*	2.5	2.5	0.44	U	0.47	U	0.44	U
Calcium, Total	SB	NC	NC	2700		5100		14000	
Chromium, Total	10	NC	NC	*25*		*35*		*45*	
Cobalt, Total	30	NC	NC	7		9.2		42	
Copper, Total	25	270	50	*28*		20		*120*	
Iron, Total	2000*	NC	NC	*15000*		*20000*		*20000*	
Lead, Total	200-500	400	63	37		14		98	
Magnesium, Total	SB	NC	NC	5100		6500		10000	
Manganese, Total	SB	2000	1600	230		380		460	
Mercury, Total	0.1	0.81	0.18	0.08	U	0.09	U	0.09	U
Nickel, Total	13	140	30	*16*		*24*		*29*	
Potassium, Total	SB	NC	NC	2800		2200		3500	
Selenium, Total	2	36	3.9	2.2	U	2.3	U	2.2	U
Silver, Total	SB	36	2	0.44	U	0.47	U	0.44	U
Sodium, Total	SB	NC	NC	88	U	410		1100	
Thallium, Total	SB	NC	NC	2.2	U	2.3	U	2.2	U
Vanadium, Total	150*	NC	NC	39		40		39	
Zinc, Total	20	2200	109	*57*		*61*		*750*	

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Italicized vallues exceed TAGM criteria

Table 5
Kingsbridge Armory
Bronx, New York
Phase II Environmental Site Assessment
Target Analyte List - Metals

LOCATION SAMPLING DATE LAB SAMPLE ID Units	TAGM 4046 Rec. Soil Cleanup Obj. mg/kg	Restricted Residential Use Soil Cleanup Objectives mg/kg	Unrestricted Residential Use Soil Cleanup Objectives mg/kg	TRC-SB-7 (18-20) 7/19/2007 L0710362-07 mg/kg	Qual	TRC-SB-8 (18-20) 7/19/2007 L0710362-08 mg/kg	Qual	TRC-SB-8 (23-25) 7/19/2007 L0710362-09 mg/kg	Qual
Total Metals									
Aluminum, Total	SB	NC	NC	13000		15000		12000	
Antimony, Total	SB	NC	NC	2.2	U	2.3	U	2.3	U
Arsenic, Total	7.5*	16	13	1.7		3.1		2.5	
Barium, Total	300*	350	350	140		68		82	
Beryllium, Total	0.16	14	7.2	*0.96*		*0.79*		*0.58*	
Cadmium, Total	1*	2.5	2.5	0.44	U	0.46	U	0.47	U
Calcium, Total	SB	NC	NC	6700		1700		2200	
Chromium, Total	10	NC	NC	*36*		*38*		*34*	
Cobalt, Total	30	NC	NC	11		11		8.5	
Copper, Total	25	270	50	*30*		*26*		19	
Iron, Total	2000*	NC	NC	*20000*		*21000*		*18000*	
Lead, Total	200-500	400	63	27		15		26	
Magnesium, Total	SB	NC	NC	8200		7400		5200	
Manganese, Total	SB	2000	1600	240		230		350	
Mercury, Total	0.1	0.81	0.18	**0.22**		0.09	U	0.1	U
Nickel, Total	13	140	30	*25*		*26*		*19*	
Potassium, Total	SB	NC	NC	5100		3100		2000	
Selenium, Total	2	36	3.9	2.2	U	2.3	U	2.3	U
Silver, Total	SB	36	2	0.44	U	0.46	U	0.47	U
Sodium, Total	SB	NC	NC	88	U	93	U	380	
Thallium, Total	SB	NC	NC	2.2	U	2.3	U	2.3	U
Vanadium, Total	150*	NC	NC	44		48		38	
Zinc, Total	20	2200	109	*62*		*57*		*77*	

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Kingsbridge Armory
Bronx, New York
Phase II Environmental Site Assessment
Target Analyte List - Metals

LOCATION SAMPLING DATE LAB SAMPLE ID Units	TAGM 4046 Rec. Soil Cleanup Obj. mg/kg	Restricted Residential Use Soil Cleanup Objectives mg/kg	Unrestricted Residential Use Soil Cleanup Objectives mg/kg	TRC-SB-9 (24-26) 7/19/2007 L0710362-10 mg/kg	Qual	TRC-SB-10 (16-18) 7/19/2007 L0710362-11 mg/kg	Qual	TRC-SB-11 (10-12) 7/19/2007 L0710362-12 mg/kg	Qual
Total Metals									
Aluminum, Total	SB	NC	NC	12000		17000		15000	
Antimony, Total	SB	NC	NC	2.1	U	2.2	U	2.1	U
Arsenic, Total	7.5*	16	13	1.3		0.52		0.42	U
Barium, Total	300*	350	350	150		150		180	
Beryllium, Total	0.16	14	7.2	*1.3*		*2*		*2.3*	
Cadmium, Total	1*	2.5	2.5	0.42	U	0.43	U	0.42	U
Calcium, Total	SB	NC	NC	4400		3400		3100	
Chromium, Total	10	NC	NC	*38*		*31*		*48*	
Cobalt, Total	30	NC	NC	10		15		14	
Copper, Total	25	270	50	*26*		*34*		*36*	
Iron, Total	2000*	NC	NC	*20000*		*32000*		*31000*	
Lead, Total	200-500	400	63	5.1		2.2	U	2.1	U
Magnesium, Total	SB	NC	NC	7800		11000		10000	
Manganese, Total	SB	2000	1600	260		320		340	
Mercury, Total	0.1	0.81	0.18	0.21		0.23		0.29	
Nickel, Total	13	140	30	*20*		*25*		*28*	
Potassium, Total	SB	NC	NC	7300		9200		10000	
Selenium, Total	2	36	3.9	2.1	U	2.2	U	2.1	U
Silver, Total	SB	36	2	0.42	U	0.43	U	0.42	U
Sodium, Total	SB	NC	NC	84	U	86	U	85	U
Thallium, Total	SB	NC	NC	2.1	U	2.2	U	2.1	U
Vanadium, Total	150*	NC	NC	54		79		74	
Zinc, Total	20	2200	109	*48*		*67*		*61*	

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Bronx, New York
Phase II Environmental Site Assessment
Target Analyte List - Metals

LOCATION SAMPLING DATE LAB SAMPLE ID Units	TAGM 4046 Rec. Soil Cleanup Obj. mg/kg	Restricted Residential Use Soil Cleanup Objectives mg/kg	Unrestricted Residential Use Soil Cleanup Objectives mg/kg	TRC-SB-12 (11-12) 7/19/2007 L0710362-13 mg/kg	Qual	TRC-SB-13 (15-17) 7/19/2007 L0710362-15 mg/kg	Qual
Total Metals							
Aluminum, Total	SB	NC	NC	15000		16000	
Antimony, Total	SB	NC	NC	2.1	U	2.2	U
Arsenic, Total	7.5*	16	13	0.43		1.4	
Barium, Total	300*	350	350	220		160	
Beryllium, Total	0.16	14	7.2	*2.2*		*2*	
Cadmium, Total	1*	2.5	2.5	0.42	U	0.43	U
Calcium, Total	SB	NC	NC	3500		2700	
Chromium, Total	10	NC	NC	*27*		*73*	
Cobalt, Total	30	NC	NC	16		12	
Copper, Total	25	270	50	19		23	
Iron, Total	2000*	NC	NC	*25000*		*28000*	
Lead, Total	200-500	400	63	2.1	U	3.1	
Magnesium, Total	SB	NC	NC	11000		10000	
Manganese, Total	SB	2000	1600	260		330	
Mercury, Total	0.1	0.81	0.18	0.09	U	0.08	U
Nickel, Total	13	140	30	*32*		*34*	
Potassium, Total	SB	NC	NC	8800		8500	
Selenium, Total	2	36	3.9	2.1	U	2.2	U
Silver, Total	SB	36	2	0.42	U	0.43	U
Sodium, Total	SB	NC	NC	84	U	86	U
Thallium, Total	SB	NC	NC	2.1	U	2.2	U
Vanadium, Total	150*	NC	NC	51		62	
Zinc, Total	20	2200	109	*56*		*64*	

TAGM = New York State Department of Environmental Conservation Technical and Administrative Guidance Memorandums

Represents restricted residential use prohibits use of single family housing and vegetable gardens. Includes active recreational uses, which are public uses with a reasonable potential for soil contact. Restrictions on the use of groundwater are allowed
U - Concentration less than the minimum laboratory detection limit.
NC - No guidance criteria established for this compound
SB - Site background
* - given value or site background
Bold values exceed unrestricted residential use
Italicized values exceed TAGM criteria

Table 6
Kingsbridge Armory
Bronx, New York
Phase II Environmental Site Assessment
Total Lead

LOCATION SAMPLING DATE LAB SAMPLE ID UNITS	TAGM 4046 Rec. Soil Cleanup Obj. mg/kg	Restricted Residential Use Soil Cleanup Objectives mg/kg	Unrestricted Residential Use Soil Cleanup Objectives mg/kg	TRC-SB-A/1 (3-6") 23-JUL-07 L0710597-01 mg/kg	Qual	TRC-SB-B/2 (0-3") 23-JUL-07 L0710597-02 mg/kg	Qual	TRC-SB-C/3 (3-6") 23-JUL-07 L0710597-03 mg/kg	Qual
Metals									
Lead, Total	200-500	400	63	*23000*		300		*7700*	

Sample Results Comparison with New York Restricted and New York Unrestricted Use, Residential Criteria.

TAGM = New York State Department of Environmental Conservation Technical and Administrative Guidance Memorandum s

SB - Criteia is Site Background

* - Sample interval screened through metal sieve to remove all large pieces of lead and debris.

NC = No Criteria

TCLP = Toxicity Characteristic Leaching Procedure

Bold values exceed NY Restricted Use criteria

Shaded values exceed NY Unrestricted Use criteria

Italicized vallues exceed TAGM 500 mg/kg criteria

Table 6
Kingsbridge Armory
Bronx, New York
Phase II Environmental Site Assessment
Total Lead

LOCATION SAMPLING DATE LAB SAMPLE ID UNITS	TAGM 4046 Rec. Soil Cleanup Obj. mg/kg	Restricted Residential Use Soil Cleanup Objectives mg/kg	Unrestricted Residential Use Soil Cleanup Objectives mg/kg	TRC-SB-D/4 (0-3") 23-JUL-07 L0710597-04 mg/kg	Qual	TRC-SB-E/5 (6"-1") 23-JUL-07 L0710597-05 mg/kg	Qual	TRC-SB-R/18 (6"-1')* 23-JUL-07 L0710597-18 mg/kg	Qual
Metals									
Lead, Total	200-500	400	63	*3600*		*10000*		*10000*	

Sample Results Comparison with New York Restricted and New York Unrestricted Use, Residential Criteria.

TAGM = New York State Department of Environmental Conservation Technical and Administrative Guidance Memorandun

SB - Criteia is Site Background

* - Sample interval screened through metal sieve to remove all large pieces of lead and debris.

NC = No Criteria

TCLP = Toxicity Characteristic Leaching Procedure

Bold values exceed NY Restricted Use criteria

Shaded values exceed NY Unrestricted Use criteria

Italicized vallues exceed TAGM 500 mg/kg criteria

Table 6
Kingsbridge Armory
Bronx, New York
Phase II Environmental Site Assessment
Total Lead

LOCATION SAMPLING DATE LAB SAMPLE ID UNITS	TAGM 4046 Rec. Soil Cleanup Obj. mg/kg	Restricted Residential Use Soil Cleanup Objectives mg/kg	Unrestricted Residential Use Soil Cleanup Objectives mg/kg	TRC-SB-F/6 (0-3") 23-JUL-07 L0710597-06 mg/kg	Qual	TRC-SB-G/7 (6"-1') 23-JUL-07 L0710597-07 mg/kg	Qual	TRC-SB-H/8 (0-3") 23-JUL-07 L0710597-08 mg/kg	Qual
Metals									
Lead, Total	200-500	400	63	*2300*		*3200*		*5500*	

Sample Results Comparison with New York Restricted and New York Unrestricted Use, Residential Criteria.

TAGM = New York State Department of Environmental Conservation Technical and Administrative Guidance Memorandun

SB - Criteia is Site Background

* - Sample interval screened through metal sieve to remove all large pieces of lead and debris.

NC = No Criteria

TCLP = Toxicity Characteristic Leaching Procedure

Bold values exceed NY Restricted Use criteria

Shaded values exceed NY Unrestricted Use criteria

Italicized vallues exceed TAGM 500 mg/kg criteria

Table 6
Kingsbridge Armory
Bronx, New York
Phase II Environmental Site Assessment
Total Lead

LOCATION SAMPLING DATE LAB SAMPLE ID UNITS	TAGM 4046 Rec. Soil Cleanup Obj. mg/kg	Restricted Residential Use Soil Cleanup Objectives mg/kg	Unrestricted Residential Use Soil Cleanup Objectives mg/kg	TRC-SB-I/9 (0-3") 23-JUL-07 L0710597-09 mg/kg	Qual	TRC-SB-J/10 (0-3") 23-JUL-07 L0710597-10 mg/kg	Qual	TRC-SB-P/16 (6"-1') 23-JUL-07 L0710597-16 mg/kg	Qual
Metals Lead, Total	200-500	400	63	170		*2400*		180	

Sample Results Comparison with New York Restricted and New York Unrestricted Use, Residential Criteria.

TAGM = New York State Department of Environmental Conservation Technical and Administrative Guidance Memorandun

SB - Criteia is Site Background

* - Sample interval screened through metal sieve to remove all large pieces of lead and debris.

NC = No Criteria

TCLP = Toxicity Characteristic Leaching Procedure

Bold values exceed NY Restricted Use criteria

Shaded values exceed NY Unrestricted Use criteria

Italicized vallues exceed TAGM 500 mg/kg criteria

Table 6
Kingsbridge Armory
Bronx, New York
Phase II Environmental Site Assessment
Total Lead

LOCATION SAMPLING DATE LAB SAMPLE ID UNITS	TAGM 4046 Rec. Soil Cleanup Obj. mg/kg	Restricted Residential Use Soil Cleanup Objectives mg/kg	Unrestricted Residential Use Soil Cleanup Objectives mg/kg	TRC-SB-K/11 (0-3") 23-JUL-07 L0710597-11 mg/kg	Qual	TRC-SB-Q/17 (0-3")* 23-JUL-07 L0710597-17 mg/kg	Qual	TRC-SB-L/12 (3"-6") 23-JUL-07 L0710597-12 mg/kg	Qual
Metals									
Lead, Total	200-500	400	63	*3400*		*2900*		*5100*	

Sample Results Comparison with New York Restricted and New York Unrestricted Use, Residential Criteria.

TAGM = New York State Department of Environmental Conservation Technical and Administrative Guidance Memorandun

SB - Criteia is Site Background

* - Sample interval screened through metal sieve to remove all large pieces of lead and debris.

NC = No Criteria

TCLP = Toxicity Characteristic Leaching Procedure

Bold values exceed NY Restricted Use criteria

Shaded values exceed NY Unrestricted Use criteria

Italicized vallues exceed TAGM 500 mg/kg criteria

Table 6
Kingsbridge Armory
Bronx, New York
Phase II Environmental Site Assessment
Total Lead

LOCATION SAMPLING DATE LAB SAMPLE ID UNITS	TAGM 4046 Rec. Soil Cleanup Obj. mg/kg	Restricted Residential Use Soil Cleanup Objectives mg/kg	Unrestricted Residential Use Soil Cleanup Objectives mg/kg	TRC-SB-M/13 (0-3") 23-JUL-07 L0710597-13 mg/kg	Qual	TRC-SB-N/14 (0-3") 23-JUL-07 L0710597-14 mg/kg	Qual	TRC-SB-O/15 (0-3") 23-JUL-07 L0710597-15 mg/kg	Qual
Metals									
Lead, Total	200-500	400	63	260		81		48	

Sample Results Comparison with New York Restricted and New York Unrestricted Use, Residential Criteria.

TAGM = New York State Department of Environmental Conservation Technical and Administrative Guidance Memorandun

SB - Criteia is Site Background

* - Sample interval screened through metal sieve to remove all large pieces of lead and debris.

NC = No Criteria

TCLP = Toxicity Characteristic Leaching Procedure

Bold values exceed NY Restricted Use criteria

Shaded values exceed NY Unrestricted Use criteria

Italicized vallues exceed TAGM 500 mg/kg criteria

Table 7
Kingsbridge Armory
Bronx, New York
Phase II Environmental Site Assessment
TCLP Lead

LOCATION SAMPLING DATE LAB SAMPLE ID UNITS	Hazardous Waste Criteria mg/l	TRC-SB-A/1 (3-6") 23-JUL-07 L0710597-01 mg/l	Qual	TRC-SB-B/2 (0-3") 23-JUL-07 L0710597-02 mg/l	Qual	TRC-SB-C/3 (3-6") 23-JUL-07 L0710597-03 mg/l	Qual
Metals Lead, TCLP	5	**1900**		**45**		NS	

Hazardous Waste Criteria - EPA 40 CFR Part 261 and 6NYCRR

* - Sample interval screened through metal sieve to remove all large pieces of lead and debris.

mg/l - milligrams per liter
NC = No Criteria
TCLP = Toxicity Characteristic Leaching Procedure
NS - Not sampled
Bold values exceed Hazardous Waste Criteria

Table 7
Kingsbridge Armory
Bronx, New York
Phase II Environmental Site Assessment
TCLP Lead

LOCATION SAMPLING DATE LAB SAMPLE ID UNITS	Hazardous Waste Criteria mg/l	TRC-SB-D/4 (0-3") 23-JUL-07 L0710597-04 mg/l	Qual	TRC-SB-E/5 (6"-1") 23-JUL-07 L0710597-05 mg/l	Qual	TRC-SB-R/18 (6"-1')* 23-JUL-07 L0710597-18 mg/l	Qual
Metals Lead, TCLP	5	NS		**840**		**750**	

Hazardous Waste Criteria - EPA 40 CFR Part 261 and 6NYCRF

* - Sample interval screened through metal sieve to remove all l

mg/l - milligrams per liter
NC = No Criteria
TCLP = Toxicity Characteristic Leaching Procedure
NS - Not sampled
Bold values exceed Hazardous Waste Criteria

Table 7
Kingsbridge Armory
Bronx, New York
Phase II Environmental Site Assessment
TCLP Lead

LOCATION SAMPLING DATE LAB SAMPLE ID UNITS	Hazardous Waste Criteria mg/l	TRC-SB-F/6 (0-3") 23-JUL-07 L0710597-06 mg/l	Qual	TRC-SB-G/7 (6"-1') 23-JUL-07 L0710597-07 mg/l	Qual	TRC-SB-H/8 (0-3") 23-JUL-07 L0710597-08 mg/l	Qual
Metals							
Lead, TCLP	5	NS		NS		99	

Hazardous Waste Criteria - EPA 40 CFR Part 261 and 6NYCRF

* - Sample interval screened through metal sieve to remove all l.

mg/l - milligrams per liter
NC = No Criteria
TCLP = Toxicity Characteristic Leaching Procedure
NS - Not sampled
Bold values exceed Hazardous Waste Criteria

Table 7
Kingsbridge Armory
Bronx, New York
Phase II Environmental Site Assessment
TCLP Lead

LOCATION SAMPLING DATE LAB SAMPLE ID UNITS	Hazardous Waste Criteria mg/l	TRC-SB-I/9 (0-3") 23-JUL-07 L0710597-09 mg/l	Qual	TRC-SB-J/10 (0-3") 23-JUL-07 L0710597-10 mg/l	Qual	TRC-SB-P/16 (6"-1') 23-JUL-07 L0710597-16 mg/l	Qual
Metals							
Lead, TCLP	5	NS		**100**		4.2	

Hazardous Waste Criteria - EPA 40 CFR Part 261 and 6NYCRF

* - Sample interval screened through metal sieve to remove all l

mg/l - milligrams per liter
NC = No Criteria
TCLP = Toxicity Characteristic Leaching Procedure
NS - Not sampled
Bold values exceed Hazardous Waste Criteria

Table 7
Kingsbridge Armory
Bronx, New York
Phase II Environmental Site Assessment
TCLP Lead

LOCATION SAMPLING DATE LAB SAMPLE ID UNITS	Hazardous Waste Criteria mg/l	TRC-SB-K/11 (0-3") 23-JUL-07 L0710597-11 mg/l	Qual	TRC-SB-Q/17 (0-3")* 23-JUL-07 L0710597-17 mg/l	Qual	TRC-SB-L/12 (3"-6") 23-JUL-07 L0710597-12 mg/l	Qual
Metals Lead, TCLP	5	140		94		NS	

Hazardous Waste Criteria - EPA 40 CFR Part 261 and 6NYCRF

* - Sample interval screened through metal sieve to remove all l

mg/l - milligrams per liter
NC = No Criteria
TCLP = Toxicity Characteristic Leaching Procedure
NS - Not sampled
Bold values exceed Hazardous Waste Criteria

Table 7
Kingsbridge Armory
Bronx, New York
Phase II Environmental Site Assessment
TCLP Lead

LOCATION	Hazardous Waste	TRC-SB-M/13 (0-3")		TRC-SB-N/14 (0-3")		TRC-SB-O/15 (0-3")	
SAMPLING DATE	Criteria	23-JUL-07		23-JUL-07		23-JUL-07	
LAB SAMPLE ID		L0710597-13		L0710597-14		L0710597-15	
UNITS	mg/l	mg/l	Qual	mg/l	Qual	mg/l	Qual
Metals							
Lead, TCLP	5	1.6		0.5	U	NS	

Hazardous Waste Criteria - EPA 40 CFR Part 261 and 6NYCRF

* - Sample interval screened through metal sieve to remove all l

mg/l - milligrams per liter
NC = No Criteria
TCLP = Toxicity Characteristic Leaching Procedure
NS - Not sampled
Bold values exceed Hazardous Waste Criteria

Table 8
Kingsbridge Armory
Bronx, New York
Groundwater Sampling Results
VOCs

LOCATION	TOGS	TRC-MW-1		TRC-MW-2		TRC-MW-3		TRC-MW-5		TRC-BLANK		TRIP BLANK	
SAMPLING DATE	GA	06-AUG-07		06-AUG-07		06-AUG-07		06-AUG-07		06-AUG-07		01-AUG-07	
LAB SAMPLE ID	STANDARD	L0711343-01		L0711343-02		L0711343-03		L0711343-04		L0711343-05		L0711343-06	
Units	ug/l	ug/l	Qual	ug/l	Qual	ug/l	Qual	ug/l	Qual	ug/l	Qual	ug/l	Qual
Volatile Organics by EPA 8260B													
1,1,1,2-Tetrachloroethane	5	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,1,1-Trichloroethane	5	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,1,2,2-Tetrachloroethane	5	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,1,2-Trichloroethane	5	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U
1,1-Dichloroethane	5	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U
1,1-Dichloroethene	5	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,1-Dichloropropene	5	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
1,2,3-Trichlorobenzene	5	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
1,2,3-Trichloropropane	0.04	5	U	5	U	5	U	5	U	5	U	5	U
1,2,4,5-Tetramethylbenzene	5	0.5	U	0.5	U	0.5	U	0.51		0.5	U	0.5	U
1,2,4-Trichlorobenzene	5	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
1,2,4-Trimethylbenzene	5	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
1,2-Dibromo-3-chloropropane	0.04	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
1,2-Dibromoethane	5	2	U	2	U	2	U	2	U	2	U	2	U
1,2-Dichlorobenzene	3	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
1,2-Dichloroethane	0.6	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,2-Dichloropropane	1	1.8	U	1.8	U	1.8	U	1.8	U	1.8	U	1.8	U
1,3,5-Trimethylbenzene	5	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
1,3-Dichlorobenzene	3	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
1,3-Dichloropropane	5	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
1,4-Dichlorobenzene	3	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
1,4-Diethylbenzene	NC	0.5	U	0.5	U	0.5	U	0.58		0.5	U	0.5	U
2,2-Dichloropropane	5	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
2-Butanone	50	5	U	5	U	5	U	5	U	5	U	5	U
2-Hexanone	50	5	U	5	U	5	U	5	U	5	U	5	U
4-Ethyltoluene	NC	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
4-Methyl-2-pentanone	NC	5	U	5	U	5	U	5	U	5	U	5	U
Acetone	50	10		5	U	5	U	5	U	5	U	5	U
Benzene	1	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Bromobenzene	5	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Bromochloromethane	5	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Bromodichloromethane	50	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Bromoform	50	2	U	2	U	2	U	2	U	2	U	2	U
Bromomethane	5	1	U	1	U	1	U	1	U	1	U	1	U
Carbon disulfide	60	5	U	5	U	5	U	5	U	5	U	5	U
Carbon tetrachloride	5	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Chlorobenzene	5	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U

Table 8
Kingsbridge Armory
Bronx, New York
Groundwater Sampling Results
VOCs

LOCATION	TOGS	TRC-MW-1		TRC-MW-2		TRC-MW-3		TRC-MW-5		TRC-BLANK		TRIP BLANK	
SAMPLING DATE	GA	06-AUG-07		06-AUG-07		06-AUG-07		06-AUG-07		06-AUG-07		01-AUG-07	
LAB SAMPLE ID	STANDARD	L0711343-01		L0711343-02		L0711343-03		L0711343-04		L0711343-05		L0711343-06	
Units	ug/l	ug/l	Qual	ug/l	Qual	ug/l	Qual	ug/l	Qual	ug/l	Qual	ug/l	Qual
Chloroethane	5	1	U	1	U	1	U	1	U	1	U	1	U
Chloroform	7	0.75	U	0.75	U	0.75	U	0.81		0.75	U	0.75	U
Chloromethane	5	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
cis-1,2-Dichloroethene	5	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
cis-1,3-Dichloropropene	0.4	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Dibromochloromethane	50	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Dibromomethane	5	5	U	5	U	5	U	5	U	5	U	5	U
Dichlorodifluoromethane	5	5	U	5	U	5	U	5	U	5	U	5	U
Ethylbenzene	5	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Hexachlorobutadiene	0.5	0.6	U	0.63		0.6	U	0.6	U	0.6	U	0.6	U
Isopropylbenzene	5	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Methyl tert butyl ether	10	1	U	1	U	1	U	1	U	1	U	1	U
Methylene chloride	5	5	U	5	U	5	U	5	U	5	U	5	U
n-Butylbenzene	5	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
n-Propylbenzene	5	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Naphthalene	10	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
o-Chlorotoluene	5	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
o-Xylene	5	1	U	1	U	1	U	1	U	1	U	1	U
p-Chlorotoluene	5	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
p-Isopropyltoluene	5	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
p/m-Xylene	5	1	U	1	U	1	U	1	U	1	U	1	U
sec-Butylbenzene	5	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Styrene	5	1	U	1	U	1	U	1	U	1	U	1	U
tert-Butylbenzene	5	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Tetrachloroethene	5	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Toluene	5	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U
trans-1,2-Dichloroethene	5	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U
trans-1,3-Dichloropropene	0.4	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Trichloroethene	5	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Trichlorofluoromethane	5	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Vinyl acetate	NC	5	U	5	U	5	U	5	U	5	U	5	U
Vinyl chloride	2	1	U	1	U	1	U	1	U	1	U	1	U

TOGS GA Standard - New York State Division of Water Technical and Operational Guidance Series: Ambient Water Quality Standards and Guidance Values
All results given in micrograms per liter (ug/L)
U - Concentration less than the minimum detection limit
NC - No guidance criteria established for this compound
Bold values exceed TOGS GA Standard criteria

Table 9
Kingsbridge Armory
Bronx, New York
Groundwater Sampling Results
SVOCs

LOCATION	TOGS	TRC-MW-1		TRC-MW-2		TRC-MW-3		TRC-MW-5		TRC-BLANK	
SAMPLING DATE	GA	06-AUG-07		06-AUG-07		06-AUG-07		06-AUG-07		06-AUG-07	
LAB SAMPLE ID	STANDARD	L0711343-01		L0711343-02		L0711343-03		L0711343-04		L0711343-05	
Units	ug/l	ug/l	Qual	ug/l	Qual	ug/l	Qual	ug/l	Qual	ug/l	Qual
Semivolatile Organics by EPA 8270C											
1,2,4,5-Tetrachlorobenzene	5	20	U	20	U	19	U	19	U	20	U
1,2,4-Trichlorobenzene	5	4.9	U	5	U	4.8	U	4.8	U	4.9	U
1,2-Dichlorobenzene	3	4.9	U	5	U	4.8	U	4.8	U	4.9	U
1,3-Dichlorobenzene	3	4.9	U	5	U	4.8	U	4.8	U	4.9	U
1,4-Dichlorobenzene	3	4.9	U	5	U	4.8	U	4.8	U	4.9	U
2,4,5-Trichlorophenol	NC	4.9	U	5	U	4.8	U	4.8	U	4.9	U
2,4,6-Trichlorophenol	NC	4.9	U	5	U	4.8	U	4.8	U	4.9	U
2,4-Dichlorophenol	5	9.8	U	10	U	9.6	U	9.6	U	9.9	U
2,4-Dimethylphenol	50	9.8	U	10	U	9.6	U	9.6	U	9.9	U
2,4-Dinitrophenol	10	29	U	30	U	29	U	29	U	30	U
2,4-Dinitrotoluene	5	5.9	U	6	U	5.7	U	5.8	U	5.9	U
2,6-Dinitrotoluene	5	4.9	U	5	U	4.8	U	4.8	U	4.9	U
2-Chloronaphthalene	10	5.9	U	6	U	5.7	U	5.8	U	5.9	U
2-Chlorophenol	NC	5.9	U	6	U	5.7	U	5.8	U	5.9	U
2-Methylnaphthalene	NC	4.9	U	5	U	4.8	U	4.8	U	4.9	U
2-Methylphenol	NC	5.9	U	6	U	5.7	U	5.8	U	5.9	U
2-Nitroaniline	5	4.9	U	5	U	4.8	U	4.8	U	4.9	U
2-Nitrophenol	NC	20	U	20	U	19	U	19	U	20	U
3,3'-Dichlorobenzidine	5	49	U	50	U	48	U	48	U	49	U
3-Methylphenol/4-Methylphenol	NC	5.9	U	6	U	5.7	U	5.8	U	5.9	U
3-Nitroaniline	5	4.9	U	5	U	4.8	U	4.8	U	4.9	U
4,6-Dinitro-o-cresol	NC	20	U	20	U	19	U	19	U	20	U
4-Bromophenyl phenyl ether	NC	4.9	U	5	U	4.8	U	4.8	U	4.9	U
4-Chloroaniline	5	4.9	U	5	U	4.8	U	4.8	U	4.9	U
4-Chlorophenyl phenyl ether	NC	4.9	U	5	U	4.8	U	4.8	U	4.9	U
4-Nitroaniline	5	6.8	U	7	U	6.7	U	6.7	U	6.9	U
4-Nitrophenol	NC	9.8	U	10	U	9.6	U	9.6	U	9.9	U
Acenaphthene	20	4.9	U	5	U	4.8	U	4.8	U	4.9	U
Acenaphthylene	NC	4.9	U	5	U	4.8	U	4.8	U	4.9	U
Acetophenone	NC	20	U	20	U	19	U	19	U	20	U
Anthracene	50	4.9	U	5	U	4.8	U	4.8	U	4.9	U

Table 9
Kingsbridge Armory
Bronx, New York
Groundwater Sampling Results
SVOCs

LOCATION	TOGS	TRC-MW-1		TRC-MW-2		TRC-MW-3		TRC-MW-5		TRC-BLANK	
SAMPLING DATE	GA	06-AUG-07		06-AUG-07		06-AUG-07		06-AUG-07		06-AUG-07	
LAB SAMPLE ID	STANDARD	L0711343-01		L0711343-02		L0711343-03		L0711343-04		L0711343-05	
Units	ug/l	ug/l	Qual	ug/l	Qual	ug/l	Qual	ug/l	Qual	ug/l	Qual
Benzo(a)anthracene	0.002	4.9	U	5	U	4.8	U	4.8	U	4.9	U
Benzo(a)pyrene	NC	4.9	U	5	U	4.8	U	4.8	U	4.9	U
Benzo(b)fluoranthene	0.002	4.9	U	5	U	4.8	U	4.8	U	4.9	U
Benzo(ghi)perylene	NC	4.9	U	5	U	4.8	U	4.8	U	4.9	U
Benzo(k)fluoranthene	0.002	4.9	U	5	U	4.8	U	4.8	U	4.9	U
Benzoic Acid	NC	49	U	50	U	48	U	48	U	49	U
Benzyl Alcohol	NC	9.8	U	10	U	9.6	U	9.6	U	9.9	U
Biphenyl	5	4.9	U	5	U	4.8	U	4.8	U	4.9	U
Bis(2-chloroethoxy)methane	5	4.9	U	5	U	4.8	U	4.8	U	4.9	U
Bis(2-chloroethyl)ether	1	4.9	U	5	U	4.8	U	4.8	U	4.9	U
Bis(2-chloroisopropyl)ether	NC	4.9	U	5	U	4.8	U	4.8	U	4.9	U
Bis(2-Ethylhexyl)phthalate	5	4.9	U	5	U	4.8	U	4.8	U	4.9	U
Butyl benzyl phthalate	50	4.9	U	5	U	4.8	U	4.8	U	4.9	U
Carbazole	NC	4.9	U	5	U	4.8	U	4.8	U	4.9	U
Chrysene	0.002	4.9	U	5	U	4.8	U	4.8	U	4.9	U
Di-n-butylphthalate	50	4.9	U	5	U	4.8	U	4.8	U	4.9	U
Di-n-octylphthalate	50	4.9	U	5	U	4.8	U	4.8	U	4.9	U
Dibenzo(a,h)anthracene	NC	4.9	U	5	U	4.8	U	4.8	U	4.9	U
Dibenzofuran	NC	4.9	U	5	U	4.8	U	4.8	U	4.9	U
Diethyl phthalate	50	4.9	U	5	U	4.8	U	4.8	U	4.9	U
Dimethyl phthalate	50	4.9	U	5	U	4.8	U	4.8	U	4.9	U
Fluoranthene	50	4.9	U	5	U	4.8	U	4.8	U	4.9	U
Fluorene	50	4.9	U	5	U	4.8	U	4.8	U	4.9	U
Hexachlorobenzene	0.04	4.9	U	5	U	4.8	U	4.8	U	4.9	U
Hexachlorobutadiene	0.5	9.8	U	10	U	9.6	U	9.6	U	9.9	U
Hexachlorocyclopentadiene	5	29	U	30	U	29	U	29	U	30	U
Hexachloroethane	5	4.9	U	5	U	4.8	U	4.8	U	4.9	U
Indeno(1,2,3-cd)Pyrene	0.002	6.8	U	7	U	6.7	U	6.7	U	6.9	U
Isophorone	50	4.9	U	5	U	4.8	U	4.8	U	4.9	U
n-Nitrosodi-n-propylamine	NC	4.9	U	5	U	4.8	U	4.8	U	4.9	U
Naphthalene	10	4.9	U	5	U	4.8	U	4.8	U	4.9	U
Nitrobenzene	0.4	4.9	U	5	U	4.8	U	4.8	U	4.9	U
NitrosoDiPhenylAmine(NDPA)/DPA	NC	15	U	15	U	14	U	14	U	15	U
P-Chloro-M-Cresol	NC	4.9	U	5	U	4.8	U	4.8	U	4.9	U
Pentachlorophenol	1	9.8	U	10	U	9.6	U	9.6	U	9.9	U
Phenanthrene	50	4.9	U	5	U	4.8	U	4.8	U	4.9	U
Phenol	1	6.8	U	7	U	6.7	U	6.7	U	6.9	U
Pyrene	50	4.9	U	5	U	4.8	U	4.8	U	4.9	U

TOGS GA Standard - New York State Division of Water Technical and Operational Guidance Series Ambient Water Quality Standards and Guidance Values
All results given in micrograms per liter (ug/L)
U - Concentration less than the minimum detection limit
NC - No guidance criteria estabilsed for this compound

Table 10
Kingsbridge Armory
Bronx, New York
Groundwater Sampling Results
Total Metals

LOCATION	TOGs	TRC-MW-1		TRC-MW-2		TRC-MW-3		TRC-MW-5		TRC-BLANK	
SAMPLING DATE	GA	08/06/07		08/06/07		08/06/07		08/06/07		08/06/07	
LAB SAMPLE ID	STANDARD	L0711343-01		L0711343-02		L0711343-03		L0711343-04		L0711343-05	
Units	ug/l	ug/l	Qual	ug/l	Qual	ug/l	Qual	ug/l	Qual	ug/l	Qual
Total Metals											
Aluminum, Total	NC	2100		310		2000		700		100	U
Antimony, Total	3	50	U	50	U	50	U	50	U	50	U
Arsenic, Total	25	5	U	5	U	5	U	5	U	5	U
Barium, Total	1000	212		94		135		127		10	U
Beryllium, Total	3	5	U	5	U	5	U	5	U	5	U
Cadmium, Total	5	5	U	5	U	5	U	5	U	5	U
Calcium, Total	NC	160000		180000		230000		180000		100	U
Chromium, Total	50	10		10	U	10	U	10	U	10	U
Cobalt, Total	NC	20	U	20	U	20	U	20	U	20	U
Copper, Total	200	65		10	U	10	U	10	U	10	U
Iron, Total	300	**3200**		**380**		**2700**		**1000**		50	U
Lead, Total	25	10	U	10	U	10	U	10	U	10	U
Magnesium, Total	35000	**43000**		**47000**		**64000**		**44000**		100	U
Manganese, Total	300	**632**		**1120**		**473**		**1440**		10	U
Mercury, Total	0.7	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
Nickel, Total	100	25	U	25	U	25	U	25	U	25	U
Potassium, Total	NC	14000		24000		31000		21000		2500	U
Selenium, Total	10	10	U	10	U	10	U	10	U	10	U
Silver, Total	50	7	U	7	U	7	U	7	U	7	U
Sodium, Total	20000	**190000**		**390000**		**840000**		**160000**		2000	U
Thallium, Total	0.5	20	U	20	U	20	U	20	U	20	U
Vanadium, Total	NC	10	U	10	U	10	U	10	U	10	U
Zinc, Total	2000	50	U	50	U	50	U	50	U	50	U

TOGS GA Standard - New York State Division of Water Technical and Operational Guidance Series: Ambient Water Quality Standards and Guidance Value
All results given in micrograms per liter (ug/L)
U - Concentration less than the minimum detection limit.
NC - No guidance criteria estabilised for this compound
Bold values exceed TOGS GA Standard criteria

Table 11
Kingsbridge Armory
Bronx, New York
Groundwater Sampling Results
Dissolved Metals

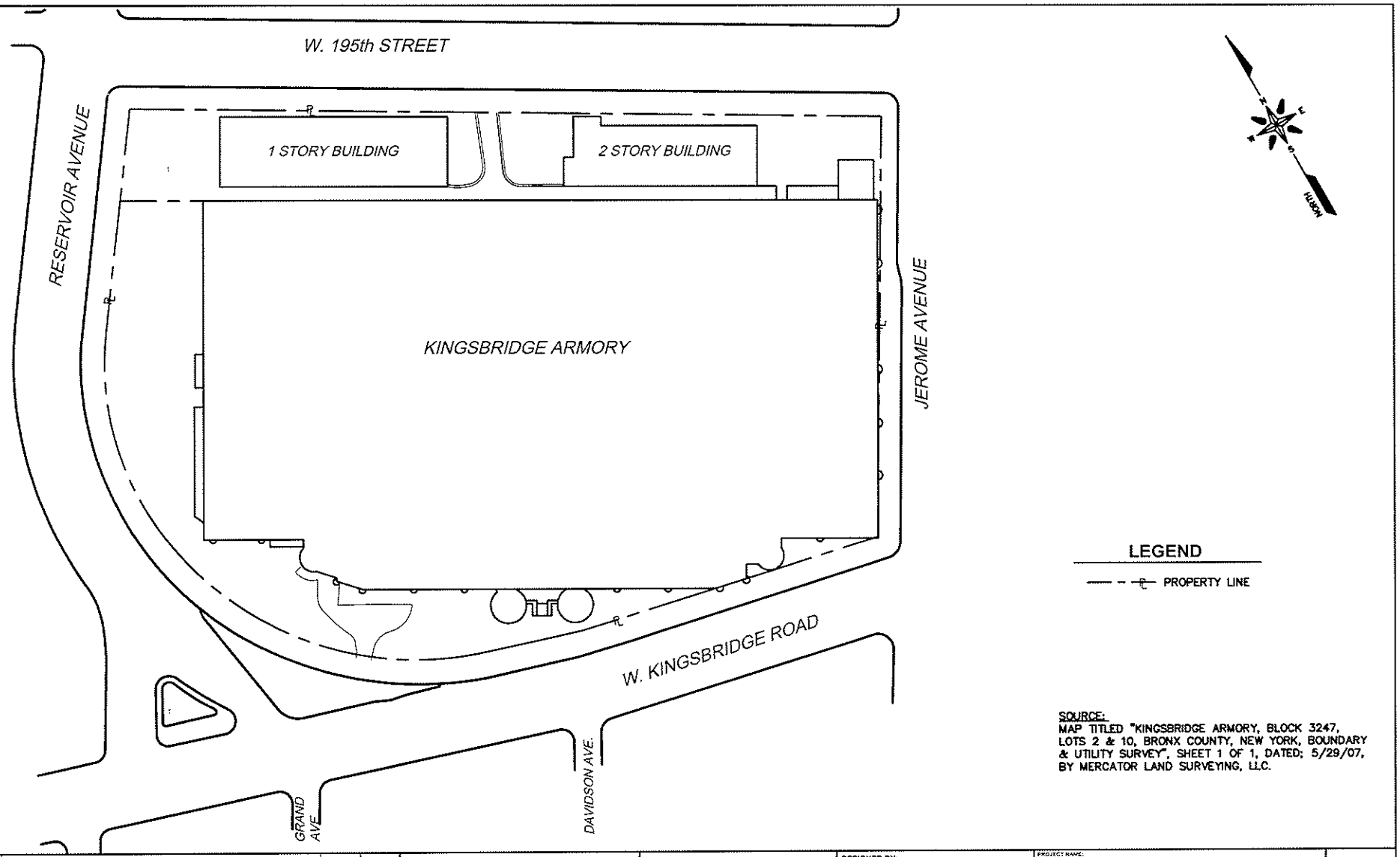
LOCATION	TOGs	TRC-MW-1		TRC-MW-2		TRC-MW-3		TRC-MW-5		TRC-BLANK	
SAMPLING DATE	GA	08/06/07		08/06/07		08/06/07		08/06/07		08/06/07	
LAB SAMPLE ID	STANDARD	L0711343-01		L0711343-02		L0711343-03		L0711343-04		L0711343-05	
Units	ug/l	ug/l	Qual	ug/l	Qual	ug/l	Qual	ug/l	Qual	ug/l	Qual
Dissolved Metals											
Aluminum, Dissolved	NC	100	U	100	U	100	U	100	U	100	U
Antimony, Dissolved	3	50	U	50	U	50	U	50	U	50	U
Arsenic, Dissolved	25	5	U	5	U	5	U	5	U	5	U
Barium, Dissolved	1000	188		87		116		118		10	U
Beryllium, Dissolved	3	5	U	5	U	5	U	5	U	5	U
Cadmium, Dissolved	5	5	U	5	U	5	U	5	U	5	U
Calcium, Dissolved	NC	160000		180000		230000		180000		100	U
Chromium, Dissolved	50	10	U	10	U	10	U	10	U	10	U
Cobalt, Dissolved	NC	20	U	20	U	20	U	20	U	20	U
Copper, Dissolved	200	32		10	U	10	U	10	U	10	U
Iron, Dissolved	300	50	U	50	U	50	U	50	U	50	U
Lead, Dissolved	25	10	U	10	U	10	U	10	U	10	U
Magnesium, Dissolved	35000	40000		45000		61000		42000		100	U
Manganese, Dissolved	300	522		1050		400		1360		10	U
Mercury, Dissolved	0.7	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
Nickel, Dissolved	100	25	U	25	U	25	U	25	U	25	U
Potassium, Dissolved	NC	12000		22000		28000		20000		2500	U
Selenium, Dissolved	10	10	U	10	U	10	U	10		10	U
Silver, Dissolved	50	7	U	7	U	7	U	7	U	7	U
Sodium, Dissolved	20000	180000		370000		820000		150000		2000	U
Thallium, Dissolved	0.5	20	U	20	U	20	U	20	U	20	U
Vanadium, Dissolved	NC	10	U	10	U	10	U	10	U	10	U
Zinc, Dissolved	2000	50	U	50	U	50	U	50	U	50	U

TOGS GA Standard - New York State Division of Water Technical and Operational Guidance Series: Ambient Water Quality Standards and Guidance Values
All results given in micrograms per liter (ug/L)
U - Concentration less than the minimum detection limit.
NC - No guidance criteria estabilised for this compound
Bold values exceed TOGS GA Standard criteria

Table 12
Groundwater Table Elevation Measurements
Kingsbridge Armory, Bronx, New York

Well	Diameter (inches)	Depth of Well (feet)	Surveyed Top of Casing	Depth to Water*	Water Elevation August 2007
MW-1	2	40	140.28	29.88	**110.40**
MW-2	2	39	139.74	29.32	**110.42**
MW-3	2	38	138.91	26.72	**112.19**
MW-5	2	37	138.91	26.69	**112.22**

Notes:
Elevations refer to the Bronx Borough Datum.
* - Measured from top of well casing.



SOURCE:
MAP TITLED "KINGSBRIDGE ARMORY, BLOCK 3247, LOTS 2 & 10, BRONX COUNTY, NEW YORK, BOUNDARY & UTILITY SURVEY", SHEET 1 OF 1, DATED; 5/29/07, BY MERCATOR LAND SURVEYING, LLC.

REVISIONS NO.	DESCRIPTION	BY	DATE

0 80' 160'
GRAPHIC SCALE
PAPER SIZE: 11" x 17"

TRC
1430 BROADWAY, 10TH FLOOR
NEW YORK, NEW YORK 10018
212-221-7522

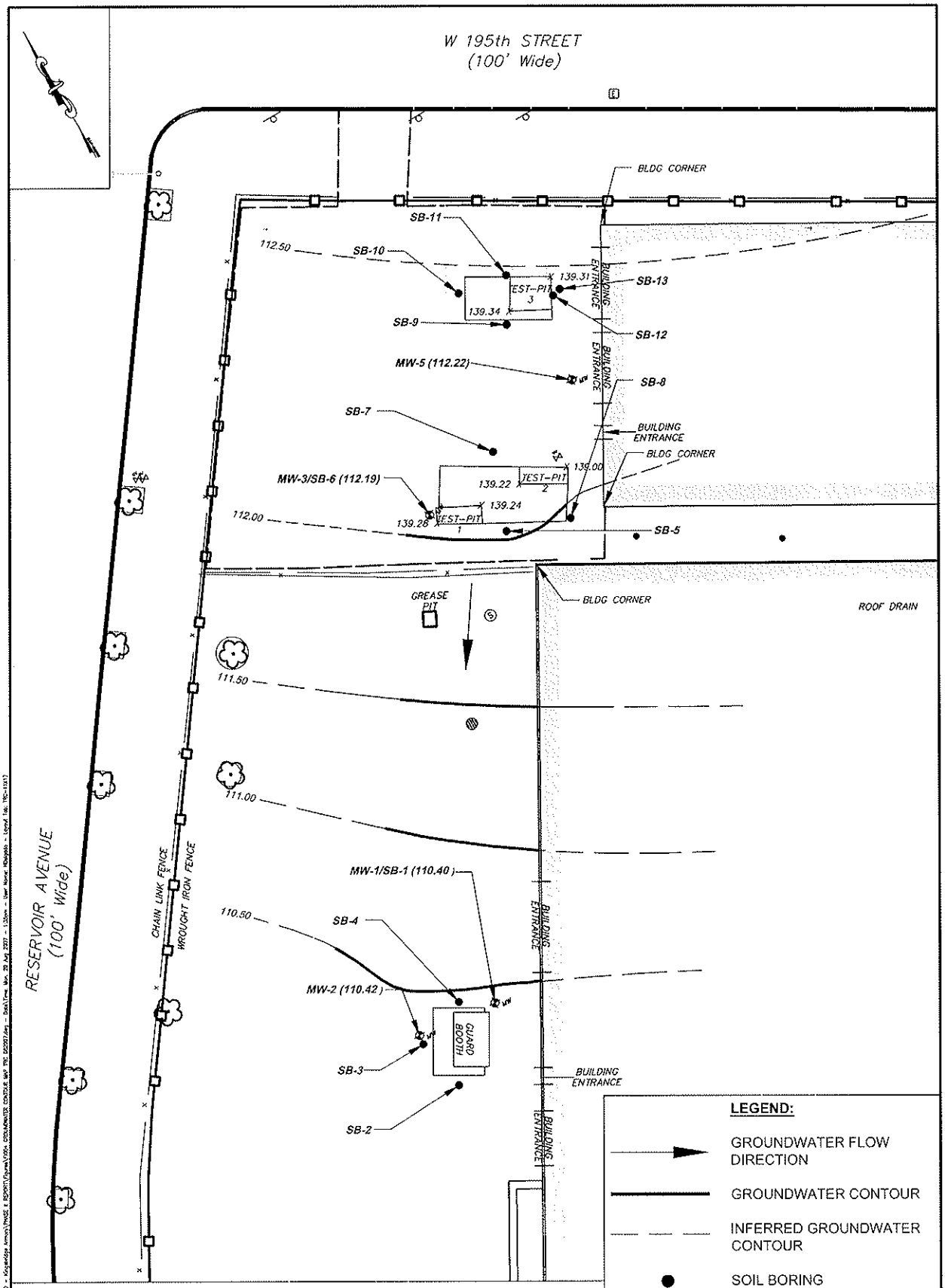
DESIGNED BY:	
DRAWN BY: HD	
CHECKED BY: SM	
DATE: AUGUST 2007	
SCALE: AS SHOWN	
PROJECT NUMBER: 113429.0120.0000	

PROJECT NAME:
KINGSBRIDGE ARMORY
BRONX , NEW YORK

DRAWING TITLE:
SITE LAYOUT

FIGURE
2

Path\Name: I:\Projects\113429 - NYCEDC, Phase I ESA\113429-0120 - Kingsbridge Armory\PHASE II REPORT\Figures\AV0002 SITE LAYOUT 15C (020907.dwg - Dan\Arrow, Fri, 14 Sep 2007 - 12:34pm - User Name: HD\Xplotter - Layout Tab: FIG-2



NOTES:

1. THIS DRAWING IS BASED UPON A COMBINATION OF AERIAL MAPS, FEILD INVESTIGATIONS AND SURVEYS CONDUCTED BY MERCATOR LAND SURVEYING, LLC ENDING ON APRIL 2007 BY AND/OR UNDER THE DIRECT SUPERVISION OF THE UNDERSIGNED SUVEYOR.
2. THE VERTICAL DATUM BASIS IS BOROUGH OF THE BRONX HIGHWAY DATUM WHICH IS 2.608' ABOVE SEA LEVEL AT SANDY HOOK, NEW JERSEY (NGVD29).

0 20 40 FT.

GRAPHIC SCALE: 1"=20'

PAPER SIZE: 17" x 11"

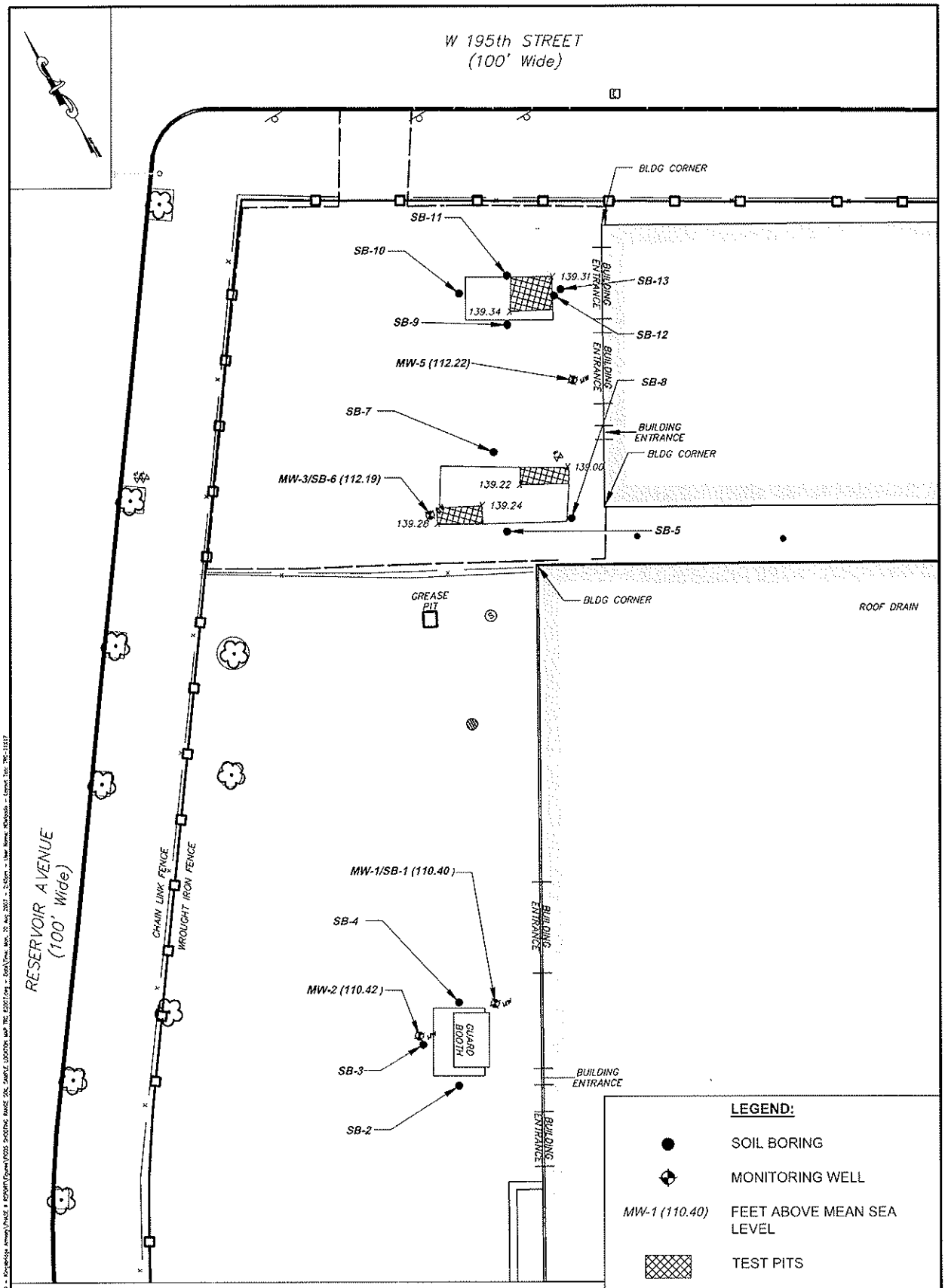
TRC
1430 BROADWAY, 10TH FLOOR
NEW YORK, NEW YORK 10018
212-221-7822

DESIGNED BY:	
DRAWN BY: HD	
CHECKED BY: SM	
DATE: AUGUST 2007	
SCALE: AS SHOWN	
PROJECT NUMBER: 113429.0120.0000	

PROJECT NAME: KINGSBRIDGE ARMORY
BRONX, NEW YORK

DRAWING TITLE: GROUNDWATER CONTOUR MAP
AUGUST 6, 2007

FIGURE 4



NOTES:

1. THIS DRAWING IS BASED UPON A COMBINATION OF AERIAL MAPS, FEILD INVESTIGATIONS AND SURVEYS CONDUCTED BY MERCATOR LAND SURVEYING, LLC ENDING ON APRIL 2007 BY AND/OR UNDER THE DIRECT SUPERVISION OF THE UNDERSIGNED SUVEYOR.
2. THE VERTICAL DATUM BASIS IS BOROUGH OF THE BRONX HIGHWAY DATUM WHICH IS 2.608' ABOVE SEA LEVEL AT SANDY HOOK, NEW JERSEY (NGVD29).

0 20 40 FT.

GRAPHIC SCALE: 1"=20'

PAPER SIZE: 17" x 11"

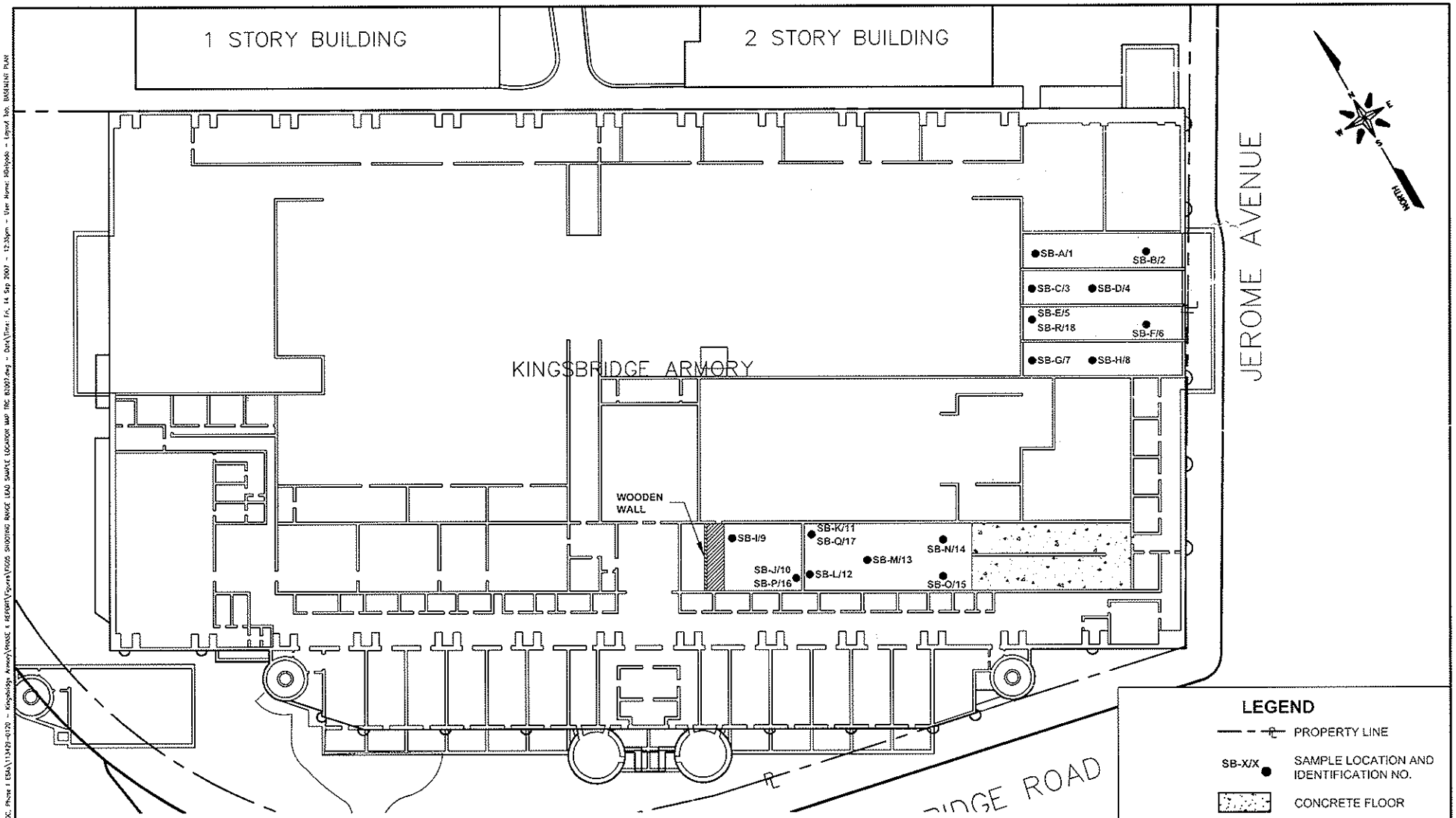
TRC
1430 BROADWAY, 10TH FLOOR
NEW YORK, NEW YORK 10018
212-221-7822

DESIGNED BY:	
DRAWN BY: HD	
CHECKED BY: SM	
DATE: AUGUST 2007	
SCALE: AS SHOWN	
PROJECT NUMBER: 113429.0120.0000	

PROJECT NAME: KINGSBRIDGE ARMORY
BRONX, NEW YORK

DRAWING TITLE: SOIL AND GROUNDWATER SAMPLE LOCATION MAP

FIGURE 3



REVISIONS			
NO.	DESCRIPTION	BY	DATE

0 50' 100'

GRAPHIC SCALE

PAPER SIZE: 11" x 17"

TRC
1430 BROADWAY, 10TH FLOOR
NEW YORK, NEW YORK 10018
212-221-7922

DESIGNED BY:	
DRAWN BY: HD	
CHECKED BY: SM	
DATE: AUGUST 2007	
SCALE: AS SHOWN	
PROJECT NUMBER: 113429.0120.0000	

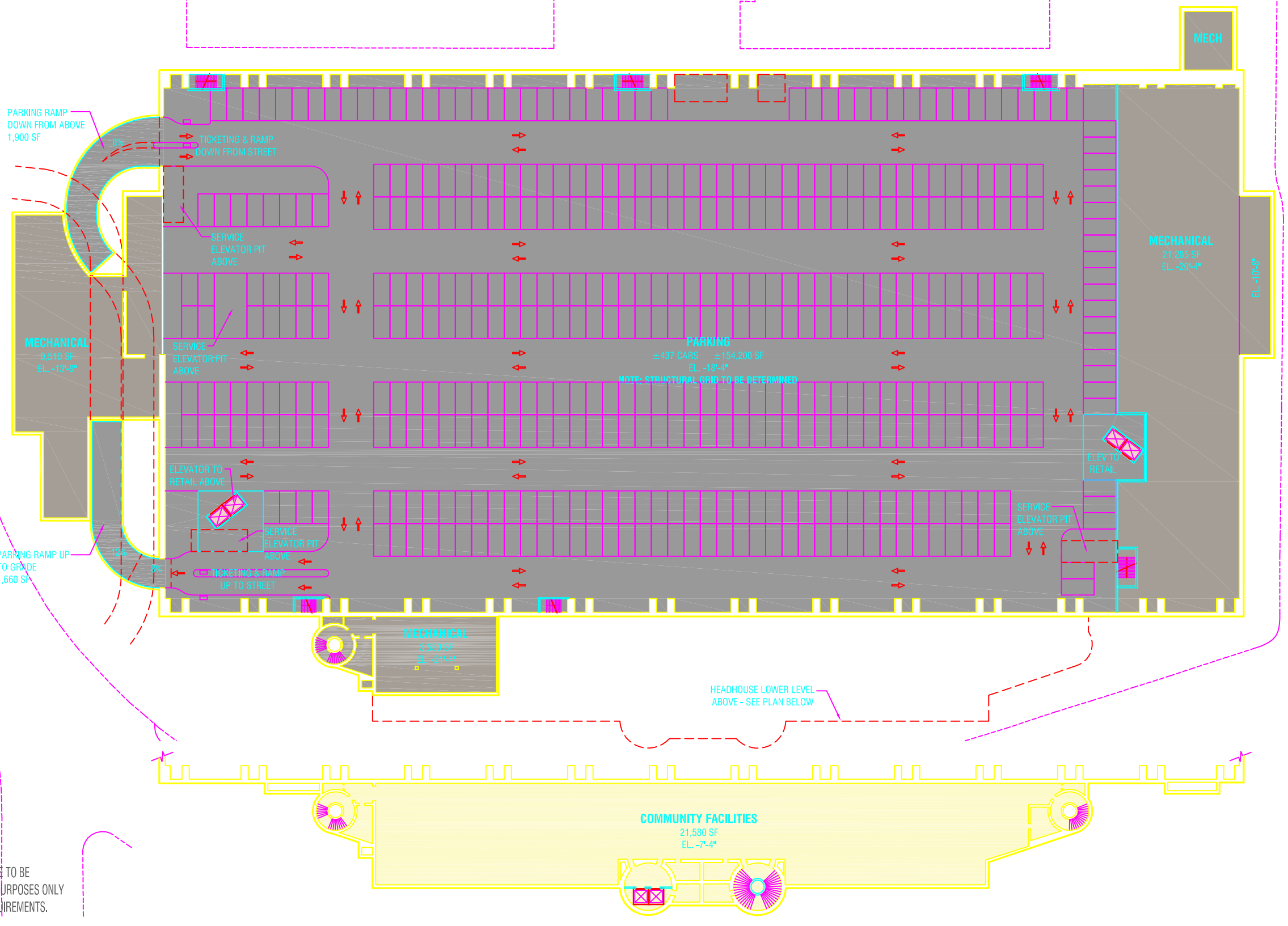
PROJECT NAME: KINGSBRIDGE ARMORY
BRONX , NEW YORK

DRAWING TITLE: SHOOTING RANGE SOIL SAMPLE LOCATION MAP

FIGURE 5

Path\Name: J:\Projects\113429 - NYCEDC, Phase I ESA\113429-0120 - Kingsbridge Armory\Graphics & REPORT\Figures\Fig05 SHOOTING RANGE LEAD SAMPLE LOCATION MAP TRC 082907.dwg - Date\Time: Fri, 14 Sep 2007 - 12:35pm - User Name: HDalgado - Layout Tab: BASEMENT PLAN

APPENDIX I



NOTE: LOCATIONS OF MECHANICAL SHAFTS ARE TO BE DETERMINED. STAIRS ARE FOR ILLUSTRATIVE PURPOSES ONLY AND SHALL BE REVISED TO MEET EGRESS REQUIREMENTS.

GreenbergFarrow
44 West 28th Street, 16th Floor
New York, NY 10001
t: 212 725 9530 f: 212 725 9552

KINGSBRIDGE ARMORY
Bronx, NY
RELATED
20060809.0

CELLAR LEVEL FLOOR PLAN
SCALE 1:60

2008.07.25

LANGAN
ENGINEERING & ENVIRONMENTAL SERVICES

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Beverly R. Williams

October 6, 2008

Dean Vanderwarker
Related Retail
60 Columbus Circle
New York, New York 10004

Re: Asbestos Investigation
Kingsbridge Armory
29 West Kingsbridge Road
Bronx, New York
Langan Project No. 5815101

Dear Mr. Vanderwarker:

Langan Engineering and Environmental Services, P.C. (Langan) completed an asbestos investigation of the above referenced building. The purpose of this investigation was to confirm the presence/absence of asbestos containing materials (ACM) within the subject building. The asbestos investigation was performed on September 4, 5, and 8, 2008, by Langan's New York City Department of Environmental Protection Agency (NYCDEP) certified asbestos investigators, Messrs Miroslaw Baran and Sanjay Patel. Langan's certifications are provided in the Attachments.

Site and Building Description

The project site is at the center of a city block bordered by West 195th Street to the north, West Kingsbridge Road to the south, Jerome Avenue to the east, and Reservoir Avenue to the west (Figure 1). Most of the Site is occupied by the landmark Kingsbridge Armory building (Armory), which was constructed on an approximately 200,000-square-foot (sq-ft) footprint between 1912 and 1917 over the abandoned east basin of the Jerome Park Reservoir. The main drill hall at the center of the Armory measures approximately 300 by 600 feet (ft) and is spanned freely by an arched roof framing that rises 110 ft above the drill hall floor. Beneath the drill floor, two cellar levels formerly housed offices, a garage, a gymnasium, rifle and pistol ranges, and rooms for other military functions. The drill hall volume is flanked to the south by a two-story headhouse with a single cellar floor and four towers that contain offices and residential quarters. The eastern portion of the sub-cellar area underlies the Jerome Avenue sidewalk. The sub-cellar of the Armory building is accessible by a ramp that extends from West 195th Street. The Armory is currently owned and operated by the City of New York, and is used for

storage of City property. The heat and hot water to the building was supplied by oil-fired boilers located in the sub-basement.

Observations and Findings

Prior to conducting the field investigation, we reviewed the Environmental Survey Report dated August 24, 2000, prepared by ET Environmental Corporation (ET). The report documented the following building materials to be asbestos containing materials (ACM): Built-up roofing and flashing materials, Roof shingle, Various colors 9-inch square floor tiles, Air-cell and magnesia pipe and pipe joint insulation, Mud-pack pipe joint insulation associated with fiberglass pipe insulation, Window caulking and glazing putty, and Caulking associated with exterior joints, seams and cracks. The wall and ceiling plaster, boiler breeching and insulation, grey floor coating, various ceiling tiles and panels, wallboard and joint compound were documented to be non-ACM.

During Langan's investigation, suspect materials observed in the building were documented, assessed, quantified, and sampled, as necessary. In addition to the materials identified in ET report, Langan observed the following suspect materials which were not addressed: Baseboard Molding Glue, Pyroblock, Pressboard material, Wire wrap insulation, Electric ebony/Transite switch panel, Safety switch backing material, Vibration dumper cloth, Floor joint fill material, Wall panel glue, Mirror glue, Exterior and interior door caulking, Black and brown linoleum, 9-inch square beige floor tile and associated mastic, Black floor tile and associated mastic under plywood, 12-inch square beige floor tile and associated mastic, 12-inch square tan wood design floor tile and associated mastic, 12-inch square terracotta floor tile and associated mastic, 12-inch square dark brown floor tile and associated mastic, Mastic associated with various 9-ich square floor tiles, Pipe insulation debris mixed with plaster, wood and contaminated construction debris.

A total of sixty-six (66) bulk samples of the observed suspect materials were collected during our investigation. Samples were analyzed by AmeriSci laboratory of New York, New York. AmeriSci is accredited by the Environmental Laboratory Accreditation Program (ELAP) and National Voluntary Laboratory Accreditation Program (NVLAP). A copy of laboratory test results, chain-of–custody documentation, and Laboratory's accreditations is provided in the Attachments.

Findings

According to USEPA, a material with an asbestos content greater than one percent by weight is considered as an asbestos-containing material. Consequently, the following materials in the building were identified to be ACM:

- Pipe and Joint Insulation = 9,048 linear feet
- Wire wrap insulation = 26,500 linear feet

- Electric Transite switch panel= 45 square feet
- Floor joint fill material =1,800 square feet
- Wall panel glue = 1,600 square feet
- Mirror glue = 20 square feet
- Various types of floor tiles/mastic (9-inch square beige floor tile and associated mastic, Black floor tile and associated mastic under plywood, 12-inch square tan wood design floor tile and associated mastic, 12-inch square terracotta floor tile and associated mastic, and Mastic associated with various 9-inch square floor tiles) = 28,100 square feet
- Exterior and interior door caulking = 208 Masonry openings
- Original built-up roofing and flashing materials = 50 square feet
- Pipe insulation debris mixed with plaster, wood and other construction debris = 58,700 square feet plus additional 40 cubic yards

The baseboard molding glue, Pyroblock, pressboard material, safety switch backing material, vibration dumper cloth, black and brown linoleum, 12-inch square beige floor tile and associated mastic, 12-inch square dark brown floor tile and associated mastic were identified to be non-ACM. A summary of the asbestos survey findings is provided in attached Table 1.

The ET report documented the built-up roofing material. Apparently, the building was observed to have fairly new built-up roofing. Based on our field observations and review of the Building Department records, it appears that as part of 2002 exterior restoration project, the built-up roofing materials and several windows in the building were replaced. Any roof cuts would void existing warranty, and therefore, the roofs were not sampled during our investigation.

Conclusions and Recommendations

Asbestos-containing materials were identified in friable and non-friable forms in the subject building. All confirmed and presumed ACM in the building that is to be left in place should be managed in good condition under an Operations and Management (O & M) plan. The purpose and objective of the O & M Plan is to maintain the assumed, presumed or known asbestos containing materials in good condition, prevent future release of asbestos fibers, and minimize exposure of all building occupants to asbestos fibers.

Asbestos containing debris from damaged pipe insulation was observed throughout the building. Access to the building should be restricted until the clean-up work is completed.

ACM that would be impacted by planned renovation must be properly removed prior to performing such activities. Refer to Table 1 for the summary of asbestos inspection findings. The removal and disposal of ACM must be performed by a NYS-DOL licensed asbestos handling contractor in accordance with Federal, state, and local regulations. Proper notifications must be filed with the US-EPA, NYS-DOL, NYC-DEP and other regulatory agencies prior to performing such activities.

Abatement design documents should be prepared to identify the locations of ACM removal and specify removal work practices.

As required by the NYS-DOL and NYC-DEP regulations, the abatement project must be monitored by a NYS-DOL certified project monitor. The project monitor oversees contractor's work practices to ensure regulatory compliance and also performs pre, during, and final clearance post abatement air sampling in accordance with the state and city regulations.

In addition to ACM, lead based paint was observed throughout the building. The paint was flaking, cracking, with debris lying on the floor. Apparently, paint stabilization work was performed in the basement and sub-basement. In addition to LBP, suspect PCB/Mercury containing electrical articles were observed throughout the building.

Estimated Remediation Cost

Budgetary estimates for asbestos abatement are provided in Attachments.

The cost for the removal of visually observed ACM/contaminated debris, removal of PCB/Mercury containing electrical articles, and remediation/stabilization of damaged paint in the building is estimated to be approximately **$ 1,350,000,** including preparation of abatement design documents, project monitoring, air sample analysis, and closeout documentation.

We trust that this report will satisfy your requirements. If you have any questions regarding this report, please call me at 201-794-6900.

Sincerely,
Langan Engineering & Environmental Services, P.C.

Vijay Patel
Associate

Cc: Joel Landes– Langan

Attachments: Table 1 - Summary of Asbestos Survey Findings,
Table 2 - Budgetary Estimate for Asbestos Abatement,
Results of Laboratory Analyses and Chain-of-Custody Documentation, and
Langan certifications and Laboratory accreditations

Table 1 – Summary of Asbestos Survey Findings

TABLE 1
SUMMARY OF ASBESTOS SURVEY FINDINGS
KINGSBRIDGE ARMORY
29 KINGSBRIDGE ROAD
BRONX, NEW YORK

Homogeneous Material	ACM or Non-ACM	Approximate Quantity of ACM	Condition	Comments
Sub-Basement				
Original mud-pack pipe joint insulation associated w/ fiberglass	ACM	3 joints	Fair	—
New mud-pack pipe joint insulation associate w/ fiberglass	Non-ACM	—	Good to fair	Confirmed negative as per ET Environmental Corp. report dated August 24, 2000.
Boiler gasket	Non-ACM	—	Good	—
Boiler edge patch material	Non-ACM	—	Good	—
Breeching insulation	Non-ACM	—	Good	Confirmed negative as per ET Environmental Corp. report dated August 24, 2000.
Wall plaster	Non-ACM	—	Poor	Confirmed negative as per ET Environmental Corp. report dated August 24, 2000.
Basement				
Original mud-pack pipe joint insulation associated w/ fiberglass	ACM	20 joints	Fair to poor	—
Block and air-cell pipe insulation	ACM	4,350 LF	Poor	Confirmed positive as per ET Environmental Corp. report dated August 24, 2000. Pipe gauges, dents, and open ends were observed.
Pipe insulation debris mixed with plaster, wood and other construction debris on the floor.	ACM	39,000 SF	—	The average thickness of the debris layer in majority of the contaminated area was one inch; however, in several locations, thickness of debris layer reached up to two feet.
Pipe insulation debris mixed with plaster, wood and other construction debris in black plastic bags.	ACM	25 CY	—	—

TABLE 1
SUMMARY OF ASBESTOS SURVEY FINDINGS
KINGSBRIDGE ARMORY
29 KINGSBRIDGE ROAD
BRONX, NEW YORK

Homogeneous Material	ACM or Non-ACM	Approximate Quantity of ACM	Condition	Comments
Various types of floor tile and associated mastic	ACM	300 SF	Fair to poor	Most of the identified floor tiles were confirmed positive as per ET Environmental Corp. report dated August 24, 2000 and recent Langan's investigation. Mastic associated with these floor tiles was sampled and analyzed during recent Langan's investigation and was confirmed to be ACM.
Electrical wire insulation	ACM	10,000 LF	Unknown	—
Interior door caulking	ACM	3 door openings	Good	—
Wall and ceiling plaster	Non-ACM	—	Poor	Confirmed negative as per ET Environmental Corp. report dated August 24, 2000.
New mud-pack pipe joint insulation associate w/ fiberglass	Non-ACM	—	Good to fair	Confirmed negative as per ET Environmental Corp. report dated August 24, 2000.
Sheetrock wallboard and joint compound	Non-ACM	—	Good to fair	Confirmed negative as per ET Environmental Corp. report dated August 24, 2000.
Vibration dumper cloth	Non-ACM	—	Good to fair	—
Electric panel board	Non-ACM	—	Good to fair	—
Pressboard material	Non-ACM	—	Good to fair	—
Cove base and associated mastic	Non-ACM	—	Fair	—
Pyroblock	Non-ACM	—	Unknown	—
Basement Mezzanine				
Block and air-cell pipe insulation	ACM	1,125 LF	Poor	Confirmed positive as per ET Environmental Corp. report dated August 24, 2000. Pipe gauges, dents, and open ends were observed.

TABLE 1
SUMMARY OF ASBESTOS SURVEY FINDINGS
KINGSBRIDGE ARMORY
29 KINGSBRIDGE ROAD
BRONX, NEW YORK

Homogeneous Material	ACM or Non-ACM	Approximate Quantity of ACM	Condition	Comments
Pipe insulation debris mixed with plaster, wood and other construction debris on the floor.	ACM	17,500 SF	—	The average thickness of the debris layer in majority of the contaminated area was one inch; however, in several locations, thickness of debris layer reached up to two feet.
Pipe insulation debris mixed with plaster, wood and other construction debris in black plastic bags.	ACM	10 CY	—	—
Various types of floor tile and associated mastic	ACM	5,500 SF	Fair to poor	Most of the identified floor tiles were confirmed positive as per ET Environmental Corp. report dated August 24, 2000 and recent Langan's investigation. Mastic associated with these floor tiles was sampled and analyzed during recent Langan's investigation and was confirmed to be ACM. Up to two layers of floor tile/covering and mastic were observed at isolated locations. At the eastern section of Basement Mezzanine ACM floor tiles and mastic were observed to be covered with layer of plywood and non-ACM floor tiles.
Electrical wire insulation	ACM	3,000 LF	Unknown	—
Wall and ceiling plaster	Non-ACM	—	Poor	Confirmed negative as per ET Environmental Corp. report dated August 24, 2000.
New mud-pack pipe joint insulation associate w/ fiberglass	Non-ACM	—	Good to fair	Confirmed negative as per ET Environmental Corp. report dated August 24, 2000.
Sheetrock wallboard and joint compound	Non-ACM	—	Good to fair	Confirmed negative as per ET Environmental Corp. report dated August 24, 2000.
Vibration dumper cloth	Non-ACM	—	Good to fair	—
Electric panel board	Non-ACM	—	Good to fair	—
Cove base and associated mastic	Non-ACM	—	Fair	—

TABLE 1
SUMMARY OF ASBESTOS SURVEY FINDINGS
KINGSBRIDGE ARMORY
29 KINGSBRIDGE ROAD
BRONX, NEW YORK

Homogeneous Material	ACM or Non-ACM	Approximate Quantity of ACM	Condition	Comments
Pyroblock	Non-ACM	—	Unknown	—
1st Floor				
Block and air-cell pipe insulation	ACM	120 LF	Fair	Confirmed positive as per ET Environmental Corp. report dated August 24, 2000. Pipe open ends were observed.
Pipe insulation debris mixed with plaster on the floor.	ACM	300 SF	—	—
Pipe insulation debris mixed with plaster, wood and other construction debris in black plastic bags.	ACM	5 CY	—	—
Various types of floor tile and associated mastic	ACM	9,500 SF	Fair to poor	Most of the identified floor tiles were confirmed positive as per ET Environmental Corp. report dated August 24, 2000 and recent Langan's investigation. Mastic associated with these floor tiles was sampled and analyzed during recent Langan's investigation and was confirmed to be ACM. Up to two layers of floor tile/covering and mastic were observed at isolated locations. At one location ACM floor tiles and mastic were observed to be covered with layer of plywood.
Ebony/Transite Electric switch panel	ACM	45 SF	Good to fair	—
Electrical wire insulation	ACM	10,000 LF	Unknown	—
Wall and ceiling plaster	Non-ACM	—	Poor	Confirmed negative as per ET Environmental Corp. report dated August 24, 2000.
New mud-pack pipe joint insulation associate w/ fiberglass	Non-ACM	—	Good to fair	Confirmed negative as per ET Environmental Corp. report dated August 24, 2000.
Sheetrock wallboard and joint compound	Non-ACM	—	Good to fair	Confirmed negative as per ET Environmental Corp. report dated August 24, 2000.

TABLE 1
SUMMARY OF ASBESTOS SURVEY FINDINGS
KINGSBRIDGE ARMORY
29 KINGSBRIDGE ROAD
BRONX, NEW YORK

Homogeneous Material	ACM or Non-ACM	Approximate Quantity of ACM	Condition	Comments
Vibration dumper cloth	Non-ACM	—	Good to fair	—
Cove base and associated mastic	Non-ACM	—	Fair	—
1st Floor Mezzanine				
Pipe insulation debris mixed with plaster on the floor.	ACM	500 SF	—	—
Various types of floor tile and associated mastic	ACM	1,600 SF	Fair to poor	Most of the identified floor tiles were confirmed positive as per ET Environmental Corp. report dated August 24, 2000 and recent Langan's investigation. Mastic associated with these floor tiles was sampled and analyzed during recent Langan's investigation and was confirmed to be ACM.
Electrical wire insulation	ACM	1,000 LF	Unknown	—
Wall and ceiling plaster	Non-ACM	—	Poor	Confirmed negative as per ET Environmental Corp. report dated August 24, 2000.
Sheetrock wallboard and joint compound	Non-ACM	—	Good to fair	Confirmed negative as per ET Environmental Corp. report dated August 24, 2000.
Cove base and associated mastic	Non-ACM	—	Fair	—
2nd Floor				
Block and air-cell pipe insulation	ACM	250 LF	Fair	Confirmed positive as per ET Environmental Corp. report dated August 24, 2000. Pipe gauges, dents, and open ends were observed.
Pipe insulation debris on suspended ceiling plaster.	ACM	600 SF	—	—

TABLE 1
SUMMARY OF ASBESTOS SURVEY FINDINGS
KINGSBRIDGE ARMORY
29 KINGSBRIDGE ROAD
BRONX, NEW YORK

Homogeneous Material	ACM or Non-ACM	Approximate Quantity of ACM	Condition	Comments
Various types of floor tile and associated mastic	ACM	7,700 SF	Fair to poor	Most of the identified floor tiles were confirmed positive as per ET Environmental Corp. report dated August 24, 2000 and recent Langan's investigation. Mastic associated with these floor tiles was sampled and analyzed during recent Langan's investigation and was confirmed to be ACM. Up to two layers of floor tile/covering and mastic were observed at isolated locations. Hardwood flooring underneath floor tiles was mouldered and was in poor condition. Hardwood flooring was installed on concrete sub-flooring.
Wall panel glue	ACM	1,600 SF	—	—
Mirror glue	ACM	20 SF	—	—
Electrical wire insulation	ACM	2,000 LF	Unknown	—
Wall and ceiling plaster	Non-ACM	—	Poor	Confirmed negative as per ET Environmental Corp. report dated August 24, 2000.
Sheetrock wallboard and joint compound	Non-ACM	—	Good to fair	Confirmed negative as per ET Environmental Corp. report dated August 24, 2000.
Cove base and associated mastic	Non-ACM	—	Fair	—
3rd Floor and 4th Tower Level				
Block and air-cell pipe insulation	ACM	180 LF	Fair	Confirmed positive as per ET Environmental Corp. report dated August 24, 2000. Pipe gauges, dents, and open ends were observed.
Pipe insulation debris mixed with plaster on the floor.	ACM	1,000 SF	—	—

TABLE 1
SUMMARY OF ASBESTOS SURVEY FINDINGS
KINGSBRIDGE ARMORY
29 KINGSBRIDGE ROAD
BRONX, NEW YORK

Homogeneous Material	ACM or Non-ACM	Approximate Quantity of ACM	Condition	Comments
Various types of floor tile and associated mastic	ACM	3,500 SF	Fair to poor	Most of the identified floor tiles were confirmed positive as per ET Environmental Corp. report dated August 24, 2000 and recent Langan's investigation. Mastic associated with these floor tiles was sampled and analyzed during recent Langan's investigation and was confirmed to be ACM. Up to two layers of floor tile/covering and mastic were observed at isolated locations. Hardwood flooring underneath floor tiles was mouldered and was in poor condition. Hardwood flooring was installed on concrete sub-flooring.
Electrical wire insulation	ACM	500 LF	Unknown	—
Wall and ceiling plaster	Non-ACM	—	Poor	Confirmed negative as per ET Environmental Corp. report dated August 24, 2000.
Sheetrock wallboard and joint compound	Non-ACM	—	Good to fair	Confirmed negative as per ET Environmental Corp. report dated August 24, 2000.
Cove base and associated mastic	Non-ACM	—	Fair	—
Roofs and Exteriors				
Original built-up roofing, flashing and mastic materials	ACM	50 SF	Good	Confirmed positive as per ET Environmental Corp. report dated August 24, 2000. See Note 1.
Window caulking and glazing putty	ACM	200 masonry window openings	Good to fair	Confirmed positive as per ET Environmental Corp. report dated August 24, 2000.
Exterior door caulking	ACM	5 masonry door openings	Good	—
Floor joint fill material along perimeter building walls.	ACM	1,800 LF	Good	—

TABLE 1
SUMMARY OF ASBESTOS SURVEY FINDINGS
KINGSBRIDGE ARMORY
29 KINGSBRIDGE ROAD
BRONX, NEW YORK

Homogeneous Material	ACM or Non-ACM	Approximate Quantity of ACM	Condition	Comments
Caulking on gable ends and clerestory bands	ACM	12,000 SF of surface impacted by caulking presence	—	Confirmed positive as per ET Environmental Corp. report dated August 24, 2000.
Inaccessible areas				
Block and air-cell pipe insulation	ACM	3,000 LF	Unknown	Confirmed positive as per ET Environmental Corp. report dated August 24, 2000. An allowance is provided for the presence of concealed ACM pipe insulation within wall and ceiling cavities.
Pipe insulation debris mixed with plaster on the floor and floor covering.	ACM	1,000 SF	—	An allowance is provided for the presence of concealed ACM pipe insulation within inaccessible building spaces.

Notes:

1. The ET report documented the built-up roofing material. Apparently, the building was observed to have fairly new built-up roofing. Based on our field observations and review of the Building Department records, it appears that as part of 2002 exterior restoration project, the built-up roofing materials and several windows in the building were replaced. Any roof cuts would void existing warranty, and therefore, the roofs were not sampled during our investigation.
2. Any suspect material that is not listed in this report must be presumed ACM until confirmed via laboratory testing.

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Table 2 – Budgetary Estimate for Asbestos Abatement

TABLE 2
BUDGETARY ESTIMATE FOR HAZMAT ABATEMENT
Kingsbridge Armory
29 West Kingsbridge Road
BRONX, NEW YORK

ACM or Presumed ACM	Quantity of ACM or Presumed ACM	Unit Price	Budgetary Estimate
SUB-BASEMENT			
Original mud-pack pipe joint insulation associated w/ fiberglass	3 Joint	$500	$1,500
BASEMENT			
Original mud-pack pipe joint insulation associated w/ fiberglass	20 joint	$15	$300
Block and air-cell pipe insulation	4,350 LF	$18	$78,300
Pipe insulation debris mixed with plaster, wood and other construction debris on the floor.	39,000 SF	$5	$195,000
Pipe insulation debris mixed with plaster, wood and other construction debris in black plastic bags.	25 CY	$300	$7,500
Various types of floor tile and associated mastic	300 SF	$7	$2,100
Electrical wire insulation	10,000 LF	$3	$30,000
Interior door caulking	3 DO	$100	$300
BASEMENT MEZZANINE			
Block and air-cell pipe insulation	1,125 LF	$12	$13,500
Pipe insulation debris mixed with plaster, wood and other construction debris on the floor.	17,500 SF	$5	$87,500
Pipe insulation debris mixed with plaster, wood and other construction debris in black plastic bags.	10 CY	$300	$3,000
Various types of floor tile and associated mastic	5,500 SF	$7	$38,500
Electrical wire insulation	3,000 LF	$3	$9,000
FIRST FLOOR			
Block and air-cell pipe insulation	120 LF	$50	$6,000
Pipe insulation debris mixed with plaster on the floor.	300 SF	$10	$3,000
Pipe insulation debris mixed with plaster, wood and other construction debris in black plastic bags.	5 CY	$300	$1,500
Various types of floor tile and associated mastic	9,500 SF	$7	$66,500
Ebony/Transite Electric switch panel	45 SF	$15	$675
Electrical wire insulation	10,000 LF	$3	$30,000
FIRST FLOOR MEZZANINE			
Pipe insulation debris mixed with plaster on the floor.	500 SF	$5	$2,500
Various types of floor tile and associated mastic	1,600 SF	$7	$11,200
Electrical wire insulation	1,000 LF	$3	$3,000

BUDGETARY ESTIMATE FOR HAZMAT ABATEMENT
Kingsbridge Armory
29 West Kingsbridge Road
BRONX, NEW YORK

ACM or Presumed ACM	Quantity of ACM or Presumed ACM	Unit Price	Budgetary Estimate
SECOND FLOOR			
Block and air-cell pipe insulation	250 LF	$15	$3,750
Pipe insulation debris on suspended ceiling plaster.	600 SF	$5	$3,000
Various types of floor tile and associated mastic	7,700 SF	$7	$53,900
Wall panel glue	1,600 SF	$6	$9,600
Mirror glue	20 SF	$6	$120
Electrical wire insulation	2,000 LF	$3	$6,000
THIRD FLOOR AND FOURTH TOWER LEVEL			
Block and air-cell pipe insulation	180 LF	$30	$5,400
Pipe insulation debris mixed with plaster on the floor.	1,000 SF	$5	$5,000
Various types of floor tile and associated mastic	3,500 SF	$7	$24,500
Electrical wire insulation	500 LF	$3	$1,500
ROOFS AND EXTERIORS			
Original built-up roofing, flashing and mastic materials	50 SF	$50	$2,500
Window caulking and glazing putty	200 WO	$500	$100,000
Exterior door caulking	5 DO	$100	$500
Floor joint fill material along perimeter building walls.	1,800 LF	$5	$9,000
INACCESSIBLE AREAS			
Block and air-cell pipe insulation concealed within wall and ceiling cavities	3,000 LF	$35	$105,000
Pipe insulation debris mixed with plaster on the floor and floor covering.	100 SF	$10	$1,000
TOTAL ASBESTOS ABATEMENT ESTIMATES			**$920,645**
ESTIMATED COST FOR THE MANAGEMENT AND REMEDIATION OF LEAD BASED PAINTED COMPONENTS			**$229,355**
ESTIMATED COST FOR THE REMOVAL OF PCB/MERCURY CONTAINING ELECTRICAL ARTICLES			**$50,000**
ESTIMATED TOTAL FOR PREPARATION OF DESIGN DOCUMENTS, PROJECT MONITORING, AIR SAMPLE ANALYSIS, CLOSURE REPORT, AND SUBMITTAL REVIEW			**$150,000**
ESTIMATED TOTAL FOR THE REMEDIATION OF HAZMAT			**$1,350,000**

Notes:

1. The aforementioned unit prices for asbestos removal are based on the location, size and complexity of the project, and assume that all abatement work will be completed in one phase. These estimates are for budgetary purposes only. Actual removal cost may vary depending upon the market conditions and time of the year ACM are being removed, and work phasing. The estimates include the cost for insurance, overhead, material, labor, disposal permits, OSHA sampling and analysis, and profits. Additionally, the estimated cost is also based on the assumption that union labor wage rate will be used for the workers' and supervisors' wages.

Results of Laboratory/ Chain-of-Custody

LANGAN

AmeriSci New York
117 EAST 30TH ST.
NEW YORK, NY 10016
TEL: (212) 679-8600 • FAX: (212) 679-3114

PLM Bulk Asbestos Report

Langan Engineering & Environmental S
Attn: Vijay Patel
River Drive Center 1

Elmwood Park, NJ 07407

Date Received 09/12/08 **AmeriSci Job #** 208092383
Date Examined 09/15/08 **P.O. #**
ELAP # 11480 **Page** 1 **of** 15
RE: 5815101; Kingsbridge Armory; 29 West Kingsbridge Road, Bronx, New York

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
PYB-1-A	208092383-01	*No*	NAD
1 **Location:** Pyro Blocks; 1st Floor			(by NYS ELAP 198.1) by John P. Koubiadis on 09/15/08
Analyst Description: OffWhite, Homogeneous, Non-Fibrous, Bulk Material			
Asbestos Types:			
Other Material: Non-fibrous 100 %			
PYB-1-B	208092383-02	*No*	NAD
1 **Location:** Pyro Blocks; 1st Floor			(by NYS ELAP 198.1) by John P. Koubiadis on 09/15/08
Analyst Description: OffWhite, Homogeneous, Non-Fibrous, Bulk Material			
Asbestos Types:			
Other Material: Non-fibrous 100 %			
BG-1-A	208092383-03	*No*	NAD
2 **Location:** Boiler Gasket; Boiler Room In Sub Basement			(by NYS ELAP 198.1) by John P. Koubiadis on 09/15/08
Analyst Description: Tan, Homogeneous, Non-Fibrous, Bulk Material			
Asbestos Types:			
Other Material: Fibrous glass 95 %, Non-fibrous 5 %			
BG-1-B	208092383-04	*No*	NAD
2 **Location:** Boiler Gasket; Boiler Room In Sub Basement			(by NYS ELAP 198.1) by John P. Koubiadis on 09/15/08
Analyst Description: Tan/Brown, Heterogeneous, Fibrous, Bulk Material			
Asbestos Types:			
Other Material: Fibrous glass 75 %, Non-fibrous 25 %			
BEP-1-A	208092383-05	*No*	NAD
3 **Location:** Boiler Edge Patch Material; Boiler Room In Sub Basement			(by NYS ELAP 198.1) by John P. Koubiadis on 09/15/08
Analyst Description: Grey, Homogeneous, Fibrous, Bulk Material			
Asbestos Types:			
Other Material: Fibrous glass 20 %, Non-fibrous 80 %			

See Reporting notes on last page

PLM Bulk Asbestos Report

5815101; Kingsbridge Armory; 29 West Kingsbridge Road,
Bronx, New York

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
BEP-1-B 3	208092383-06 **Location:** Boiler Edge Patch Material; Boiler Room In Sub Basement	***No***	NAD (by NYS ELAP 198.1) by John P. Koubiadis on 09/15/08
Analyst Description: Grey, Homogeneous, Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Fibrous glass 20 %, Non-fibrous 80 %			
PB-1-A 4	208092383-07 **Location:** Pressboard Material; Basement	***No***	NAD (by NYS ELAP 198.1) by John P. Koubiadis on 09/15/08
Analyst Description: Grey, Homogeneous, Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Cellulose 95 %, Non-fibrous 5 %			
PB-1-B 4	208092383-08 **Location:** Pressboard Material; Basement	***No***	NAD (by NYS ELAP 198.1) by John P. Koubiadis on 09/15/08
Analyst Description: Grey, Homogeneous, Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Cellulose 95 %, Non-fibrous 5 %			
WI-1-A 5	208092383-09 **Location:** Wire Wrap Insulation; Seating Area	***Yes***	14 % (by NYS ELAP 198.6) by John P. Koubiadis on 09/15/08
Analyst Description: Grey/Black, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** Chrysotile 14.0 % **Other Material:** Non-fibrous 48.9 %			
WI-1-B 5	208092383-10 **Location:** Wire Wrap Insulation; Seating Area		NA/PS
Analyst Description: Bulk Material **Asbestos Types:** **Other Material:**			
EB-1-A 6	208092383-11 **Location:** Electric Panel Board; Basement	***No***	NAD (by NYS ELAP 198.1) by John P. Koubiadis on 09/15/08
Analyst Description: Grey, Homogeneous, Non-Fibrous, Cementitious, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 100 %			

See Reporting notes on last page

PLM Bulk Asbestos Report

5815101; Kingsbridge Armory; 29 West Kingsbridge Road,
Bronx, New York

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
EB-1-B 6	208092383-12 **Location:** Electric Panel Board; Basement	***No***	NAD (by NYS ELAP 198.1) by John P. Koubiadis on 09/15/08
Analyst Description: Grey, Homogeneous, Non-Fibrous, Cementitious, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
SSB-1-A 7	208092383-13 **Location:** Safety Switch Backing Material; Seat Level	***No***	NAD (by NYS ELAP 198.1) by John P. Koubiadis on 09/15/08
Analyst Description: Brown, Homogeneous, Non-Fibrous, Cementitious, Bulk Material **Asbestos Types:** **Other Material:** Cellulose 10 %, Non-fibrous 90 %			
SSB-1-B 7	208092383-14 **Location:** Safety Switch Backing Material; Seat Level	***No***	NAD (by NYS ELAP 198.1) by John P. Koubiadis on 09/15/08
Analyst Description: Brown, Homogeneous, Non-Fibrous, Cementitious, Bulk Material **Asbestos Types:** **Other Material:** Cellulose 10 %, Non-fibrous 90 %			
TR-1-A 8	208092383-15 **Location:** Transite Electrical Panel; 1st Floor	***Yes***	22.2 % (by NYS ELAP 198.1) by John P. Koubiadis on 09/15/08
Analyst Description: Grey, Homogeneous, Fibrous, Cementitious, Bulk Material **Asbestos Types:** Chrysotile 22.2 % **Other Material:** Non-fibrous 77.8 %			
TR-1-B 8	208092383-16 **Location:** Transite Electrical Panel; 1st Floor		NA/PS
Analyst Description: Bulk Material **Asbestos Types:** **Other Material:**			
DB-1-A 9	208092383-17 **Location:** Debris On The Floor Pipe Insulation; Basement	***Yes***	50 % (by NYS ELAP 198.1) by John P. Koubiadis on 09/15/08
Analyst Description: Grey, Homogeneous, Fibrous, Bulk Material **Asbestos Types:** Chrysotile 50.0 % **Other Material:** Non-fibrous 50 %			

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PLM Bulk Asbestos Report

5815101; Kingsbridge Armory; 29 West Kingsbridge Road,
Bronx, New York

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
DB-1-B	208092383-18		NA/PS
9	**Location:** Debris On The Floor Pipe Insulation; Basement		
Analyst Description: Bulk Material **Asbestos Types:** **Other Material:**			
FLEX-1-A	208092383-19	***No***	NAD
10	**Location:** Vibration Damper Cloth; Basement		(by NYS ELAP 198.1) by John P. Koubiadis on 09/15/08
Analyst Description: Grey, Homogeneous, Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Cellulose 90 %, Non-fibrous 10 %			
FLEX-1-B	208092383-20	***No***	NAD
10	**Location:** Vibration Damper Cloth; Basement		(by NYS ELAP 198.1) by John P. Koubiadis on 09/15/08
Analyst Description: Grey, Homogeneous, Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Cellulose 90 %, Non-fibrous 10 %			
MPJ-1-A	208092383-21	***Yes***	44.4 %
11	**Location:** Mud Pack Pipe Joint Attached With Old Fiberglass Pipe Insulation; Center Restroom On South Side- Basement		(by NYS ELAP 198.1) by John P. Koubiadis on 09/15/08
Analyst Description: Grey, Homogeneous, Fibrous, Bulk Material **Asbestos Types:** Chrysotile 44.4 % **Other Material:** Non-fibrous 55.6 %			
FJF-1-A	208092383-22	***Yes***	1.5 %
12	**Location:** Floor Joint Fill Material; Exterior- West Side By Building Wall		(by NYS ELAP 198.6) by John P. Koubiadis on 09/15/08
Analyst Description: Black, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** Chrysotile 1.5 % **Other Material:** Non-fibrous 4.9 %			
FJF-1-B	208092383-23		NA/PS
12	**Location:** Floor Joint Fill Material; Exterior- West Side By Building Wall		
Analyst Description: Bulk Material **Asbestos Types:** **Other Material:**			

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PLM Bulk Asbestos Report

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Bronx, New York

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
WPG-1-A	208092383-24	***Yes***	7.2 %
13	**Location:** Wooden Wall Panel Glue; 2nd Floor		(by NYS ELAP 198.6) by John P. Koubiadis on 09/15/08
Analyst Description: Brown, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** Chrysotile 7.2 % **Other Material:** Non-fibrous 48.7 %			
WPG-1-B	208092383-25		NA/PS
13	**Location:** Wooden Wall Panel Glue; 2nd Floor		
Analyst Description: Bulk Material **Asbestos Types:** **Other Material:**			
WGL-1-A	208092383-26	***No***	NAD
14	**Location:** Glue Attached With Cork Wall Tiles; 1st Floor Mezzanine		(by NYS ELAP 198.6) by John P. Koubiadis on 09/15/08
Analyst Description: Brown, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 45.4 %			
WGL-1-B	208092383-27	***No***	NAD
14	**Location:** Glue Attached With Cork Wall Tiles; 1st Floor Mezzanine		(by NYS ELAP 198.6) by John P. Koubiadis on 09/15/08
Analyst Description: Brown, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 44.4 %			
MG-1-A	208092383-28	***Yes***	3.2 %
15	**Location:** Mastic Attached With Mirrors On The Wall; 2nd Floor		(by NYS ELAP 198.6) by John P. Koubiadis on 09/15/08
Analyst Description: Black, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** Chrysotile 3.2 % **Other Material:** Non-fibrous 55.1 %			
MG-1-B	208092383-29		NA/PS
15	**Location:** Mastic Attached With Mirrors On The Wall; 2nd Floor		
Analyst Description: Bulk Material **Asbestos Types:** **Other Material:**			

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PLM Bulk Asbestos Report

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Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
IDC-1-A 16	208092383-30 **Location:** Interior Door Caulking; Basement	***Yes***	6.1 % (by NYS ELAP 198.6) by John P. Koubiadis on 09/15/08
Analyst Description: Grey, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** Chrysotile 3.0 %, Anthophyllite 3.0 % **Other Material:** Fibrous Talc 10 %, Non-fibrous 34 %			
IDC-1-B 16	208092383-31 **Location:** Interior Door Caulking; Basement		NA/PS
Analyst Description: Bulk Material **Asbestos Types:** **Other Material:**			
DC-1-A 17	208092383-32 **Location:** Door Caulking; Exterior	***Yes***	2.4 % (by NYS ELAP 198.6) by John P. Koubiadis on 09/15/08
Analyst Description: Black, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** Chrysotile 2.4 %, Anthophyllite <1 % pc **Other Material:** Fibrous glass 5 %, Non-fibrous 30.1 %			
DC-1-B 17	208092383-33 **Location:** Door Caulking; Exterior		NA/PS
Analyst Description: Bulk Material **Asbestos Types:** **Other Material:**			
WC-1-A 18	208092383-34 **Location:** Window Caulking; Exterior	***Yes***	3.4 % (by NYS ELAP 198.6) by John P. Koubiadis on 09/15/08
Analyst Description: Grey, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** Chrysotile 1.7 %, Anthophyllite 1.7 % **Other Material:** Fibrous Talc 5 %, Non-fibrous 34.5 %			
WC-1-B 18	208092383-35 **Location:** Window Caulking; Exterior		NA/PS
Analyst Description: Bulk Material **Asbestos Types:** **Other Material:**			

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PLM Bulk Asbestos Report

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Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
BBM-1-A 19	208092383-36L1 **Location:** Covebase; Basement- Mezzanine	***No***	NAD (by NYS ELAP 198.6) by John P. Koubiadis on 09/15/08
Analyst Description: Black, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 27.5 %			
BBM-1-A 19	208092383-36L2 **Location:** Covebase Mastic; Basement- Mezzanine	***No***	NAD (by NYS ELAP 198.6) by John P. Koubiadis on 09/15/08
Analyst Description: Tan, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 0.2 %			
BBM-1-B 19	208092383-37L1 **Location:** Covebase; Basement- Mezzanine	***No***	NAD (by NYS ELAP 198.6) by John P. Koubiadis on 09/15/08
Analyst Description: Black, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 25.9 %			
BBM-1-B 19	208092383-37L2 **Location:** Covebase Mastic; Basement- Mezzanine	***No***	NAD (by NYS ELAP 198.6) by John P. Koubiadis on 09/15/08
Analyst Description: Tan, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 0.9 %			
BBM-2-A 20	208092383-38L1 **Location:** 6" Black Covebase; 2nd Floor	***No***	NAD (by NYS ELAP 198.6) by John P. Koubiadis on 09/15/08
Analyst Description: Black, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 11.8 %			
BBM-2-A 20	208092383-38L2 **Location:** 6" Black Covebase Mastic; 2nd Floor	***No***	NAD (by NYS ELAP 198.6) by John P. Koubiadis on 09/15/08
Analyst Description: Tan, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 0.3 %			

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PLM Bulk Asbestos Report

5815101; Kingsbridge Armory; 29 West Kingsbridge Road,
Bronx, New York

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
BBM-2-B 20	208092383-39L1 **Location:** 6" Black Covebase; 2nd Floor	***No***	NAD (by NYS ELAP 198.6) by John P. Koubiadis on 09/15/08
Analyst Description: Black, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 29.3 %			
BBM-2-B 20	208092383-39L2 **Location:** 6" Black Covebase Mastic; 2nd Floor	***No***	NAD (by NYS ELAP 198.6) by John P. Koubiadis on 09/15/08
Analyst Description: Tan, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 0.6 %			
FC-1-A 21	208092383-40 **Location:** Black Linoleum Floor Covering; Basement Mezzanine	***No***	NAD (by NYS ELAP 198.6) by John P. Koubiadis on 09/15/08
Analyst Description: Brown, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 19.1 %			
FC-1-B 21	208092383-41 **Location:** Black Linoleum Floor Covering; Basement Mezzanine	***No***	NAD (by NYS ELAP 198.6) by John P. Koubiadis on 09/15/08
Analyst Description: Brown, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 18 %			
FC-2-A 22	208092383-42 **Location:** Brown Linoleum Floor Covering; Middle Stair Room Basement Mezzanine	***No***	NAD (by NYS ELAP 198.6) by John P. Koubiadis on 09/15/08
Analyst Description: Brown, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 16.3 %			
FC-2-B 22	208092383-43 **Location:** Brown Linoleum Floor Covering; Middle Stair Room Basement Mezzanine	***No***	NAD (by NYS ELAP 198.6) by John P. Koubiadis on 09/15/08
Analyst Description: Brown, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 16.1 %			

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PLM Bulk Asbestos Report

5815101; Kingsbridge Armory; 29 West Kingsbridge Road,
Bronx, New York

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
FT-1-A	208092383-44	***Yes***	4 %
23	**Location:** 9" Sq. Beige Floor Tiles/ No Mastic; Basement- North Side		(by NYS ELAP 198.6) by John P. Koubiadis on 09/15/08
Analyst Description: Tan, Homogeneous, Non-Fibrous, Bulk Material			
Asbestos Types: Chrysotile 4.0 %			
Other Material: Non-fibrous 17.8 %			
FT-1-B	208092383-45		NA/PS
23	**Location:** 9" Sq. Beige Floor Tiles/ No Mastic; Basement- North Side		
Analyst Description: Bulk Material			
Asbestos Types:			
Other Material:			
FT-2A	208092383-46L1	***No***	NAD
24	**Location:** L1: 12" Sq. White Floor Tile; Basement- Mezzanine		(by NYS ELAP 198.6) by John P. Koubiadis on 09/15/08
Analyst Description: OffWhite, Homogeneous, Non-Fibrous, Bulk Material			
Asbestos Types:			
Other Material: Non-fibrous 0.9 %			
FT-2A	208092383-46L2	***No***	NAD
24	**Location:** L1: 12" Sq. White Floor Tile Mastic; Basement- Mezzanine		(by NYS ELAP 198.6) by John P. Koubiadis on 09/15/08
Analyst Description: Tan, Homogeneous, Non-Fibrous, Bulk Material			
Asbestos Types:			
Other Material: Non-fibrous 1.5 %			
FT-2A	208092383-46L3	***No***	NAD
24	**Location:** L2: 12" Sq. Beige Floor Tile; Basement- Mezzanine		(by NYS ELAP 198.6) by John P. Koubiadis on 09/15/08
Analyst Description: Tan, Homogeneous, Non-Fibrous, Bulk Material			
Asbestos Types:			
Other Material: Non-fibrous 6.4 %			
FT-2A	208092383-46L4	***No***	NAD
24	**Location:** L2: 12" Sq. Beige Floor Tile Mastic; Basement- Mezzanine		(by NYS ELAP 198.6) by John P. Koubiadis on 09/15/08
Analyst Description: Black, Homogeneous, Non-Fibrous, Bulk Material			
Asbestos Types:			
Other Material: Non-fibrous 5.6 %			

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PLM Bulk Asbestos Report

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Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
FT-2-B 24	208092383-47L1 **Location:** L1: 12" Sq. White Floor Tiles; Basement- Mezzanine	***No***	NAD (by NYS ELAP 198.6) by John P. Koubiadis on 09/15/08
Analyst Description: OffWhite, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 1.8 %			
FT-2-B 24	208092383-47L2 **Location:** L1: 12" Sq. White Floor Tiles Mastic; Basement- Mezzanine	***No***	NAD (by NYS ELAP 198.6) by John P. Koubiadis on 09/15/08
Analyst Description: Tan, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 2.7 %			
FT-2-B 24	208092383-47L3 **Location:** L2: 12" Sq. Beige Floor Tiles; Basement- Mezzanine	***No***	NAD (by NYS ELAP 198.6) by John P. Koubiadis on 09/15/08
Analyst Description: Tan, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 3.4 %			
FT-2-B 24	208092383-47L4 **Location:** L2: 12" Sq. Beige Floor Tiles Mastic; Basement- Mezzanine	***No***	NAD (by NYS ELAP 198.6) by John P. Koubiadis on 09/15/08
Analyst Description: Black, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 5.6 %			
FT-2-C 24	208092383-48L1 **Location:** 12" Sq. Beige Floor Tiles - Only 1 Layer; Basement- Mezzanine	***No***	NAD (by NYS ELAP 198.6) by John P. Koubiadis on 09/15/08
Analyst Description: Tan, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 6.9 %			
FT-2-C 24	208092383-48L2 **Location:** 12" Sq. Beige Floor Tiles Mastic- Only 1 Layer; Basement- Mezzanine	***No***	NAD (by NYS ELAP 198.6) by John P. Koubiadis on 09/15/08
Analyst Description: Black, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 7 %			

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PLM Bulk Asbestos Report

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Bronx, New York

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
FT-3-A 25	208092383-49L1 **Location:** Black Floor Tiles; Basement- Mezzanine Under Plywood & FT-2	***Yes***	6.9 % (by NYS ELAP 198.6) by John P. Koubiadis on 09/15/08
Analyst Description: Black, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** Chrysotile 6.9 % **Other Material:** Non-fibrous 34.6 %			
FT-3-A 25	208092383-49L2 **Location:** Black Floor Tile Mastic/ Felt Paper; Basement- Mezzanine Under Plywood & FT-2	***No***	NAD (by NYS ELAP 198.6) by John P. Koubiadis on 09/15/08
Analyst Description: Black, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 10.8 %			
FT-3-B 25	208092383-50L1 **Location:** Black Floor Tiles; Basement- Mezzanine Under Plywood & FT-2		NA/PS
Analyst Description: Bulk Material **Asbestos Types:** **Other Material:**			
FT-3-B 25	208092383-50L2 **Location:** Black Floor Tile Mastic/ Felt Paper; Basement- Mezzanine Under Plywood & FT-2	***Yes***	Trace (<0.25 % pc) (ELAP 198.6; 400pc) by John P. Koubiadis on 09/15/08
Analyst Description: Black, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** Chrysotile <0.25 % pc **Other Material:** Non-fibrous 9.8 %			
FT-4-A 26	208092383-51L1 **Location:** 12" Sq. Tan Wood Design Floor Tiles; 1st Floor- Mezzanine	***Yes***	5.5 % (by NYS ELAP 198.6) by John P. Koubiadis on 09/15/08
Analyst Description: Grey, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** Chrysotile 5.5 % **Other Material:** Non-fibrous 23.5 %			
FT-4-A 26	208092383-51L2 **Location:** 12" Sq. Tan Wood Design Floor Tiles Mastic; 1st Floor- Mezzanine	***No***	NAD (by NYS ELAP 198.6) by John P. Koubiadis on 09/15/08
Analyst Description: Brown/Black, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 19.5 %			

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PLM Bulk Asbestos Report

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Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
FT-4-B 26	208092383-52L1 **Location:** 12" Sq. Tan Wood Design Floor Tiles; 1st Floor- Mezzanine		NA/PS
Analyst Description: Bulk Material **Asbestos Types:** **Other Material:**			
FT-4-B 26	208092383-52L2 **Location:** 12" Sq. Tan Wood Design Floor Tiles Mastic; 1st Floor- Mezzanine	***No***	NAD (by NYS ELAP 198.6) by John P. Koubiadis on 09/15/08
Analyst Description: Brown/Black, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 19.8 %			
FT-5-A 27	208092383-53L1 **Location:** 12" Sq. Terra Cotta Red With Brown Spackles FT; 2nd Floor	***Yes***	3.7 % (by NYS ELAP 198.6) by John P. Koubiadis on 09/15/08
Analyst Description: Red, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** Chrysotile 3.7 % **Other Material:** Non-fibrous 25.7 %			
FT-5-A 27	208092383-53L2 **Location:** 12" Sq. Terra Cotta Red With Brown Spackles FT Mastic; 2nd Floor	***No***	NAD (by NYS ELAP 198.6) by John P. Koubiadis on 09/15/08
Analyst Description: Tan, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 27.1 %			
FT-5-B 27	208092383-54L1 **Location:** 12" Sq. Terra Cotta Red With Brown Spackles FT; 2nd Floor		NA/PS
Analyst Description: Bulk Material **Asbestos Types:** **Other Material:**			
FT-5-B 27	208092383-54L2 **Location:** 12" Sq. Terra Cotta Red With Brown Spackles FT Mastic; 2nd Floor	***No***	NAD (by NYS ELAP 198.6) by John P. Koubiadis on 09/15/08
Analyst Description: Tan, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 29.1 %			

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Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
FT-6-A 28	208092383-55L1 **Location:** 12" Sq. Dark Brown Floor Tile; 2nd Floor	***No***	NAD (by NYS ELAP 198.6) by John P. Koubiadis on 09/15/08
Analyst Description: Grey, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 11.5 %			
FT-6-A 28	208092383-55L2 **Location:** 12" Sq. Dark Brown Floor Tile Mastic; 2nd Floor	***No***	NAD (by NYS ELAP 198.6) by John P. Koubiadis on 09/15/08
Analyst Description: Black, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 19.8 %			
FT-6-B 28	208092383-56L1 **Location:** 12" Sq. Dark Brown Floor Tile; 2nd Floor	***No***	NAD (by NYS ELAP 198.6) by John P. Koubiadis on 09/15/08
Analyst Description: Grey, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 11.3 %			
FT-6-B 28	208092383-56L2 **Location:** 12" Sq. Dark Brown Floor Tile Mastic; 2nd Floor	***No***	NAD (by NYS ELAP 198.6) by John P. Koubiadis on 09/15/08
Analyst Description: Black, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 12.7 %			
MA-1-A 29	208092383-57 **Location:** Mastic Attached With 9" Sq. Red Floor Tiles (No FT); Middle Stair Room Basement- Mezzanine	***No***	NAD (by NYS ELAP 198.6) by John P. Koubiadis on 09/15/08
Analyst Description: Black, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 9.7 %			
MA-1-B 29	208092383-58 **Location:** Mastic Attached With 9" Sq. Red Floor Tiles (No FT); Middle Stair Room Basement- Mezzanine	***No***	NAD (by NYS ELAP 198.6) by John P. Koubiadis on 09/15/08
Analyst Description: Black, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 24.8 %			

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Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
MA-2-A 30	208092383-59 **Location:** Mastic/ Felt Paper Attached With 9" Sq. Brown Floor Tiles; 1st Floor	***No***	NAD (by NYS ELAP 198.6) by John P. Koubiadis on 09/15/08
Analyst Description: Black, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 10.7 %			
MA-2-B 30	208092383-60 **Location:** Mastic/ Felt Paper Attached With 9" Sq. Brown Floor Tiles; 1st Floor	***No***	NAD (by NYS ELAP 198.6) by John P. Koubiadis on 09/15/08
Analyst Description: Black, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 11.8 %			
MA-3-A 31	208092383-61 **Location:** Mastic/ Felt Paper Attached With 9" Sq. Black Floor Tiles; 1st Floor	***No***	NAD (by NYS ELAP 198.6) by John P. Koubiadis on 09/15/08
Analyst Description: Black, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 2.7 %			
MA-3-B 31	208092383-62 **Location:** Mastic/ Felt Paper Attached With 9" Sq. Black Floor Tiles; 1st Floor	***No***	NAD (by NYS ELAP 198.6) by John P. Koubiadis on 09/15/08
Analyst Description: Black, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 1.9 %			
MA-4-A 32	208092383-63 **Location:** Mastic/ Felt Paper Attached With 9" Sq. Blue Floor Tiles; 1st Floor	***No***	NAD (by NYS ELAP 198.6) by John P. Koubiadis on 09/15/08
Analyst Description: Black, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 11.4 %			
MA-4-B 32	208092383-64 **Location:** Mastic/ Felt Paper Attached With 9" Sq. Blue Floor Tiles; 1st Floor	***No***	NAD (by NYS ELAP 198.6) by John P. Koubiadis on 09/15/08
Analyst Description: Black, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 10.7 %			

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PLM Bulk Asbestos Report

5815101; Kingsbridge Armory; 29 West Kingsbridge Road,
Bronx, New York

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
MA-5-A	208092383-65	***No***	NAD
33	**Location:** Mastic Attached With 9" Sq. Wood Design Floor Tiles; 1st Floor- Mezzanine		(by NYS ELAP 198.6) by John P. Koubiadis on 09/15/08
Analyst Description: Black, Homogeneous, Non-Fibrous, Bulk Material			
Asbestos Types:			
Other Material: Non-fibrous 6.8 %			
MA-5-B	208092383-66	***No***	NAD
33	**Location:** Mastic Attached With 9" Sq. Wood Design Floor Tiles; 1st Floor- Mezzanine		(by NYS ELAP 198.6) by John P. Koubiadis on 09/15/08
Analyst Description: Black, Homogeneous, Non-Fibrous, Bulk Material			
Asbestos Types:			
Other Material: Non-fibrous 4.3 %			

Reporting Notes:

Analyzed by: John P. Koubiadis

*NAD/NSD =no asbestos detected; NA =not analyzed; NA/PS=not analyzed/positive stop; PLM Bulk Asbestos Analysis by EPA 600/M4-82-020 per 40 CFR 763 (NVLAP Lab Code 200546-0), ELAP PLM Method 198.1 for NY friable samples or 198.6 for NOB samples (NY ELAP Lab ID11480); Note:PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. NAD or Trace results by PLM are inconclusive, TEM is currently the only method that can be used to determine if this material can be considered or treated as non asbestos-containing in NY State (also see EPA Advisory for floor tile,FR 59,146,38970,8/1/94). National Institute of Standards and Technology Accreditation requirements mandate that this report must not be reproduced except in full without the approval of the lab. This PLM report relates ONLY to the items tested. AIHA Lab # 102843.

Reviewed By:

END OF REPORT

Table I
Summary of Bulk Asbestos Analysis Results
5815101; Kingsbridge Armory; 29 West Kingsbridge Road, Bronx, New York

AmeriSci Sample #	Client Sample#	HG Area	Sample Weight (gram)	Heat Sensitive Organic %	Acid Soluble Inorganic %	Insoluble Non-Asbestos Inorganic %	** Asbestos % by PLM/DS	** Asbestos % by TEM
01	PYB-1-A	1	----	----	----	----	NAD	NA
Location:	Pyro Blocks; 1st Floor							
02	PYB-1-B	1	----	----	----	----	NAD	NA
Location:	Pyro Blocks; 1st Floor							
03	BG-1-A	2	----	----	----	----	NAD	NA
Location:	Boiler Gasket; Boiler Room In Sub Basement							
04	BG-1-B	2	----	----	----	----	NAD	NA
Location:	Boiler Gasket; Boiler Room In Sub Basement							
05	BEP-1-A	3	----	----	----	----	NAD	NA
Location:	Boiler Edge Patch Material; Boiler Room In Sub Basement							
06	BEP-1-B	3	----	----	----	----	NAD	NA
Location:	Boiler Edge Patch Material; Boiler Room In Sub Basement							
07	PB-1-A	4	----	----	----	----	NAD	NA
Location:	Pressboard Material; Basement							
08	PB-1-B	4	----	----	----	----	NAD	NA
Location:	Pressboard Material; Basement							
09	WI-1-A	5	1.276	19.2	17.9	48.9	Chrysotile 14.0	NA
Location:	Wire Wrap Insulation; Seating Area							
10	WI-1-B	5	1.123	21.8	16.9	61.3	NA/PS	NA
Location:	Wire Wrap Insulation; Seating Area							
11	EB-1-A	6	----	----	----	----	NAD	NA
Location:	Electric Panel Board; Basement							
12	EB-1-B	6	----	----	----	----	NAD	NA
Location:	Electric Panel Board; Basement							
13	SSB-1-A	7	----	----	----	----	NAD	NA
Location:	Safety Switch Backing Material; Seat Level							
14	SSB-1-B	7	----	----	----	----	NAD	NA
Location:	Safety Switch Backing Material; Seat Level							
15	TR-1-A	8	----	----	----	----	Chrysotile 22.2	NA
Location:	Transite Electrical Panel; 1st Floor							
16	TR-1-B	8	----	----	----	----	NA/PS	NA
Location:	Transite Electrical Panel; 1st Floor							

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17	DB-1-A	9	----	----	----	----	Chrysotile 50.0	NA
Location:	Debris On The Floor Pipe Insulation; Basement							
18	DB-1-B	9	----	----	----	----	NA/PS	NA
Location:	Debris On The Floor Pipe Insulation; Basement							
19	FLEX-1-A	10	----	----	----	----	NAD	NA
Location:	Vibration Damper Cloth; Basement							
20	FLEX-1-B	10	----	----	----	----	NAD	NA
Location:	Vibration Damper Cloth; Basement							
21	MPJ-1-A	11	----	----	----	----	Chrysotile 44.4	NA
Location:	Mud Pack Pipe Joint Attached With Old Fiberglass Pipe Insulation; Center Restroom On South Side- Basement							
22	FJF-1-A	12	0.172	90.1	3.5	4.9	Chrysotile 1.5	NA
Location:	Floor Joint Fill Material; Exterior- West Side By Building Wall							
23	FJF-1-B	12	0.382	75.9	3.9	20.2	NA/PS	NA
Location:	Floor Joint Fill Material; Exterior- West Side By Building Wall							
24	WPG-1-A	13	1.298	34.9	9.2	48.7	Chrysotile 7.2	NA
Location:	Wooden Wall Panel Glue; 2nd Floor							
25	WPG-1-B	13	0.565	32.2	27.4	40.4	NA/PS	NA
Location:	Wooden Wall Panel Glue; 2nd Floor							
26	WGL-1-A	14	0.425	52.5	2.1	45.4	NAD	NAD
Location:	Glue Attached With Cork Wall Tiles; 1st Floor Mezzanine							
27	WGL-1-B	14	0.432	53.7	1.9	44.4	NAD	NAD
Location:	Glue Attached With Cork Wall Tiles; 1st Floor Mezzanine							
28	MG-1-A	15	0.504	25.2	16.5	55.1	Chrysotile 3.2	NA
Location:	Mastic Attached With Mirrors On The Wall; 2nd Floor							
29	MG-1-B	15	0.361	27.4	17.2	55.4	NA/PS	NA
Location:	Mastic Attached With Mirrors On The Wall; 2nd Floor							
30	IDC-1-A	16	0.795	27.2	22.8	44.0	Chrysotile 3.0	NA
Location:	Interior Door Caulking; Basement						Anthophyllite 3.0	
31	IDC-1-B	16	0.507	28.8	22.1	49.1	NA/PS	NA
Location:	Interior Door Caulking; Basement							
32	DC-1-A	17	0.451	53.4	9.1	35.1	Chrysotile 2.4	NA
Location:	Door Caulking; Exterior						Anthophyllite <1	

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AmeriSci Sample #	Client Sample#	HG Area	Sample Weight (gram)	Heat Sensitive Organic %	Acid Soluble Inorganic %	Insoluble Non-Asbestos Inorganic %	** Asbestos % by PLM/DS	** Asbestos % by TEM
33	DC-1-B	17	0.803	38.1	10.6	51.3	NA/PS	NA
Location:	Door Caulking; Exterior							
34	WC-1-A	18	0.198	41.9	15.2	39.5	Chrysotile 1.7	NA
Location:	Window Caulking; Exterior						Anthophyllite 1.7	
35	WC-1-B	18	0.484	39.3	12.0	48.8	NA/PS	NA
Location:	Window Caulking; Exterior							
36L1	BBM-1-A	19	0.364	40.9	31.6	27.5	NAD	NAD
Location:	Covebase; Basement- Mezzanine							
36L2	BBM-1-A	19	0.416	30.3	69.5	0.2	NAD	NAD
Location:	Covebase Mastic; Basement- Mezzanine							
37L1	BBM-1-B	19	0.482	42.3	31.7	25.9	NAD	NAD
Location:	Covebase; Basement- Mezzanine							
37L2	BBM-1-B	19	0.435	31.0	68.0	0.9	NAD	NAD
Location:	Covebase Mastic; Basement- Mezzanine							
38L1	BBM-2-A	20	0.363	37.2	51.0	11.8	NAD	NAD
Location:	6" Black Covebase; 2nd Floor							
38L2	BBM-2-A	20	0.312	28.8	70.8	0.3	NAD	NAD
Location:	6" Black Covebase Mastic; 2nd Floor							
39L1	BBM-2-B	20	0.559	38.3	32.4	29.3	NAD	NAD
Location:	6" Black Covebase; 2nd Floor							
39L2	BBM-2-B	20	0.344	27.3	72.1	0.6	NAD	NAD
Location:	6" Black Covebase Mastic; 2nd Floor							
40	FC-1-A	21	0.747	71.8	9.1	19.1	NAD	NAD
Location:	Black Linoleum Floor Covering; Basement Mezzanine							
41	FC-1-B	21	0.668	71.1	10.9	18.0	NAD	NAD
Location:	Black Linoleum Floor Covering; Basement Mezzanine							
42	FC-2-A	22	0.719	72.9	10.8	16.3	NAD	NAD
Location:	Brown Linoleum Floor Covering; Middle Stair Room Basement Mezzanine							
43	FC-2-B	22	0.669	72.9	10.9	16.1	NAD	NAD
Location:	Brown Linoleum Floor Covering; Middle Stair Room Basement Mezzanine							
44	FT-1-A	23	0.239	20.1	58.2	17.8	Chrysotile 4.0	NA
Location:	9" Sq. Beige Floor Tiles/ No Mastic; Basement- North Side							

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AmeriSci Sample #	Client Sample#	HG Area	Sample Weight (gram)	Heat Sensitive Organic %	Acid Soluble Inorganic %	Insoluble Non-Asbestos Inorganic %	** Asbestos % by PLM/DS	** Asbestos % by TEM
45	FT-1-B	23	0.604	20.9	47.5	31.6	NA/PS	NA
Location:	9" Sq. Beige Floor Tiles/ No Mastic; Basement- North Side							
46L1	FT-2A	24	0.999	11.5	87.6	0.9	NAD	NAD
Location:	L1: 12" Sq. White Floor Tile; Basement- Mezzanine							
46L2	FT-2A	24	0.067	22.4	76.1	1.5	NAD	NAD
Location:	L1: 12" Sq. White Floor Tile Mastic; Basement- Mezzanine							
46L3	FT-2A	24	0.327	21.7	71.9	6.4	NAD	NAD
Location:	L2: 12" Sq. Beige Floor Tile; Basement- Mezzanine							
46L4	FT-2A	24	0.393	25.7	68.7	5.6	NAD	NAD
Location:	L2: 12" Sq. Beige Floor Tile Mastic; Basement- Mezzanine							
47L1	FT-2-B	24	0.621	11.0	87.3	1.8	NAD	NAD
Location:	L1: 12" Sq. White Floor Tiles; Basement- Mezzanine							
47L2	FT-2-B	24	0.112	22.3	75.0	2.7	NAD	NAD
Location:	L1: 12" Sq. White Floor Tiles Mastic; Basement- Mezzanine							
47L3	FT-2-B	24	0.667	22.6	73.9	3.4	NAD	NAD
Location:	L2: 12" Sq. Beige Floor Tiles; Basement- Mezzanine							
47L4	FT-2-B	24	0.213	39.9	54.5	5.6	NAD	NAD
Location:	L2: 12" Sq. Beige Floor Tiles Mastic; Basement- Mezzanine							
48L1	FT-2-C	24	0.549	21.1	71.9	6.9	NAD	NAD
Location:	12" Sq. Beige Floor Tiles - Only 1 Layer; Basement- Mezzanine							
48L2	FT-2-C	24	0.270	65.6	27.4	7.0	NAD	NAD
Location:	12" Sq. Beige Floor Tiles Mastic- Only 1 Layer; Basement- Mezzanine							
49L1	FT-3-A		0.337	27.6	30.9	41.5	Chrysotile 6.9	NA
Location:	Black Floor Tiles; Basement- Mezzanine Under Plywood & FT-2							
49L2	FT-3-A	25	0.167	80.8	8.4	10.8	NAD	NAD
Location:	Black Floor Tile Mastic/ Felt Paper; Basement- Mezzanine Under Plywood & FT-2							
50L1	FT-3-B		0.414	28.7	27.1	44.2	NA	NA
Location:	Black Floor Tiles; Basement- Mezzanine Under Plywood & FT-2							
50L2	FT-3-B	25	0.214	81.8	8.4	7.8	Chrysotile <0.25	Chrysotile 2.0
Location:	Black Floor Tile Mastic/ Felt Paper; Basement- Mezzanine Under Plywood & FT-2							
51L1	FT-4-A	26	1.003	26.3	44.7	23.5	Chrysotile 5.5	NA
Location:	12" Sq. Tan Wood Design Floor Tiles; 1st Floor- Mezzanine							

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AmeriSci Sample #	Client Sample#	HG Area	Sample Weight (gram)	Heat Sensitive Organic %	Acid Soluble Inorganic %	Insoluble Non-Asbestos Inorganic %	** Asbestos % by PLM/DS	** Asbestos % by TEM
51L2	FT-4-A	26	0.215	54.4	26.0	19.5	NAD	NAD
Location:	12" Sq. Tan Wood Design Floor Tiles Mastic; 1st Floor- Mezzanine							
52L1	FT-4-B	26	0.590	26.8	44.7	28.5	NA/PS	NA
Location:	12" Sq. Tan Wood Design Floor Tiles; 1st Floor- Mezzanine							
52L2	FT-4-B	26	0.177	58.8	21.5	19.8	NAD	NAD
Location:	12" Sq. Tan Wood Design Floor Tiles Mastic; 1st Floor- Mezzanine							
53L1	FT-5-A	27	0.562	23.7	47.0	25.7	Chrysotile 3.7	NA/PS
Location:	12" Sq. Terra Cotta Red With Brown Spackles FT; 2nd Floor							
53L2	FT-5-A	27	0.059	39.0	33.9	21.7	NAD	Chrysotile 5.4
Location:	12" Sq. Terra Cotta Red With Brown Spackles FT Mastic; 2nd Floor							
54L1	FT-5-B	27	0.266	24.4	54.5	21.1	NA/PS	NA/PS
Location:	12" Sq. Terra Cotta Red With Brown Spackles FT; 2nd Floor							
54L2	FT-5-B	27	0.086	50.0	20.9	29.1	NAD	NA/PS
Location:	12" Sq. Terra Cotta Red With Brown Spackles FT Mastic; 2nd Floor							
55L1	FT-6-A	28	0.617	24.8	63.7	11.4	NAD	Chrysotile Trace
Location:	12" Sq. Dark Brown Floor Tile; 2nd Floor							
55L2	FT-6-A	28	0.167	62.3	18.0	19.6	NAD	Chrysotile <1.0
Location:	12" Sq. Dark Brown Floor Tile Mastic; 2nd Floor							
56L1	FT-6-B	28	0.586	24.1	64.7	11.3	NAD	NAD
Location:	12" Sq. Dark Brown Floor Tile; 2nd Floor							
56L2	FT-6-B	28	0.063	57.1	30.2	12.7	NAD	NAD
Location:	12" Sq. Dark Brown Floor Tile Mastic; 2nd Floor							
57	MA-1-A	29	0.093	63.4	26.9	8.2	NAD	Chrysotile 1.5
Location:	Mastic Attached With 9" Sq. Red Floor Tiles (No FT); Middle Stair Room Basement- Mezzanine							
58	MA-1-B	29	0.105	50.5	24.8	24.8	NAD	NA/PS
Location:	Mastic Attached With 9" Sq. Red Floor Tiles (No FT); Middle Stair Room Basement- Mezzanine							
59	MA-2-A	30	0.197	84.8	4.6	10.6	NAD	Chrysotile Trace
Location:	Mastic/ Felt Paper Attached With 9" Sq. Brown Floor Tiles; 1st Floor							
60	MA-2-B	30	0.451	84.0	4.2	11.7	NAD	Chrysotile Trace
Location:	Mastic/ Felt Paper Attached With 9" Sq. Brown Floor Tiles; 1st Floor							
61	MA-3-A	31	0.291	91.4	5.8	2.6	NAD	Chrysotile Trace
Location:	Mastic/ Felt Paper Attached With 9" Sq. Black Floor Tiles; 1st Floor							

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AmeriSci Sample #	Client Sample#	HG Area	Sample Weight (gram)	Heat Sensitive Organic %	Acid Soluble Inorganic %	Insoluble Non-Asbestos Inorganic %	** Asbestos % by PLM/DS	** Asbestos % by TEM
62	MA-3-B	31	0.212	93.4	4.7	1.8	NAD	Chrysotile Trace
Location:	Mastic/ Felt Paper Attached With 9" Sq. Black Floor Tiles; 1st Floor							
63	MA-4-A	32	0.166	84.3	4.2	11.3	NAD	Chrysotile Trace
Location:	Mastic/ Felt Paper Attached With 9" Sq. Blue Floor Tiles; 1st Floor							
64	MA-4-B	32	0.140	85.0	4.3	10.7	NAD	NAD
Location:	Mastic/ Felt Paper Attached With 9" Sq. Blue Floor Tiles; 1st Floor							
65	MA-5-A	33	0.059	84.7	8.5	5.1	NAD	Chrysotile 1.7
Location:	Mastic Attached With 9" Sq. Wood Design Floor Tiles; 1st Floor- Mezzanine							
66	MA-5-B	33	0.138	88.4	7.2	4.3	NAD	NA/PS
Location:	Mastic Attached With 9" Sq. Wood Design Floor Tiles; 1st Floor- Mezzanine							

Analyzed by: Aleksandr Barengolts; Date Analyzed 9/15/2008

**Quantitative Analysis (Semi/Full); Bulk Asbestos Analysis - PLM by EPA 600/M4-82-020 per 40 CFR or ELAP 198.1 for New York friable samples or ELAP 198.6 for New York NOB samples; TEM (Semi/Full) by EPA 600/R-93/116 (not covered by NVLAP Bulk accreditation); or ELAP 198.4 for New York samples; NAD = no asbestos detected during a quantitative analysis; NA = not analyzed; Trace = <1%; Quantitation for beginning weights of <0.1 grams should be considered as qualitative only; Qualitative Analysis: Asbestos analysis results of "Present" or "NVA = No Visible Asbestos" represents results for Qualitative PLM or TEM Analysis only (no accreditation coverage available from any regulatory agency for qualitative analyses); AIHA Lab # 102843, NVLAP Lab Code 200546-0, NYSDOH ELAP LAB ID 11480.

Warning Note: PLM limitation, only TEM will resolve fibers <0.25 micrometers in diameter. TEM bulk analysis is representative of the fine grained matrix material and may not be representative of non-uniformly dispersed debris for which PLM evaluation is recommended (i.e. soils and other heterogenous materials).

Reviewed By:

Langan
Engineering and Environmental Services

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Phone: 203-562-5771
Fax: 203-789-6142

CHAIN OF CUSTODY RECORD / ANALYSIS REQUEST

Project Name:	Kingsbridge Armory	Project. No.:	5815101
Address:	29 West Kingsbridge Road	Auth. By:	Vijay Patel
Site Location:	Bronx, New York	Phone No:	(201) 794-6900
Sampled By:	M. Baran/S. Patel	License #:	103281
Company:	LANGAN		72hrs TAT

ANALYSIS REQUESTED: Asbestos: **XX** Lead:
BULK: **XX**

Sample ID Number	Description of Sample	Location	Sampling Date	PLM	PLM-NOB	TEM	AAS	TCLP
PYB-1-A	pyro-blocks	1st Floor	9/4,5 &8/08	X				
PYB-1-B	↓	↓	↓	X				
BG-1-A	Boiler Gasket	Boiler room in sub basement	↓	X	20809238 3 -			
BG-1-B	↓	↓	↓	X				
BEP-1-A	Boiler edge Patch materials	↓	↓	X				
BEP-1-B	↓	↓	↓	X				
PB-1-A	Pressboard material	Basement	↓	X				
PB-1-B	↓	↓	↓	X				
WI-1-A	Wire wrap insulation	seating area	↓	X				
WI-1-B	↓	↓	↓	X				

Total No. of Samples: 10

Laboratory Instructions/Turnaround Requested: 72hrs TAT

XXX Stop at first positive result for each homogeneous sample; Analyze by layer

Relinquished By: Sanjay Patel	DATE:	Received By:
Sanjay Patel	9/11/08	9/12
Fedex Delivery	TIME:	0937
Company: LANGAN		Company:

Relinquished By:	DATE:	Received By:
	TIME:	
Company: LANGAN		Company:

Laboratory Name & Address: **AmeriSci, NY**

Langan
Engineering and Environmental Services

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CHAIN OF CUSTODY RECORD / ANALYSIS REQUEST

Project Name:	Kingsbridge Armory	Project. No.:	5815101
Address:	29 West Kingsbridge Road	Auth. By:	Vijay Patel
Site Location:	Bronx, New York	Phone No:	(201) 794-6900
Sampled By:	M. Baran/S. Patel	License #:	103281
Company:	LANGAN		72hrs TAT

ANALYSIS REQUESTED: Asbestos: **XX** Lead:
BULK: **XX**

Sample ID Number	Description of Sample	Location	Sampling Date	PLM	PLM-NOB	TEM	AAS	TCLP
EB-1-A	Electric panel board	Basement	9/4,5 &8/08	X				
EB-1-B	↓	↓	↓	X				
SSB-1-A	Safety switch backing material	seat level	↓	X	20809283-			
SSB-1-B	↓	↓	↓	X				
TR-1-A	Transite electrical panel	1st Floor	↓	X				
TR-1-B	↓	↓	↓	X				
DB-1-A	Debris on the floor Pipe insulation	Basement	↓	X				
DB-1-B	↓	↓	↓	X				
FLEX-1-A	Vibration damper cloth	Basement	↓	X				
FLEX-1-B	↓	↓	↓	X				

Total No. of Samples: 10
Laboratory Instructions/Turnaround Requested: 72hrs TAT

XXX Stop at first positive result for each homogeneous sample; Analyze by layer

Relinquished By: Sanjay Patel	DATE:	Received By:
Sanjay Patel	9/11/08	9/12
Fedex Delivery	TIME:	1037
Company: LANGAN		Company:

Relinquished By:	DATE:	Received By:
	TIME:	
Company: LANGAN		Company:

Laboratory Name & Address: **AmeriSci, NY**

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Engineering and Environmental Services

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Project Name:	Kingsbridge Armory	Project. No.:	5815101
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Site Location:	Bronx, New York	Phone No:	(201) 794-6900
Sampled By:	M. Baran/S. Patel	License #:	103281
Company:	LANGAN		72hrs TAT

ANALYSIS REQUESTED: Asbestos: XX — Lead:

BULK: XX

Sample ID Number	Description of Sample	Location	Sampling Date	PLM	PLM-NOB	TEM	AAS	TCLP
					208092383-			
MPJ-1-A	Mudpack pipe joint attached with old fiberglass pipe insulation	Center restroom on southside - Basement	9/4,5 &8/08	X				
FJF-1-A	Floor joint fill material	Exterior - Westside by building wall	↓	X	X	X		
FJF-1-B	↓	↓	↓	X	X	X		
WPG-1-A	Wooden wall panel glue	2nd floor	↓		X	X		
WPG-1-B	↓	↓	↓		X	X		
WGL-1-A	Glue attached with cork wall tiles	1st Floor Mezza-nine	↓		X	X		
WGL-1-B	↓	↓	↓		X	X		
MG-1-A	Mastic attached with mirrors on the wall	2nd Floor	↓		X	X		
MG-1-B	↓	↓	↓		X	X		
/	/	/	/					

Total No. of Samples: 09

Laboratory Instructions/Turnaround Requested: 72hrs TAT

XXX Stop at first positive result for each homogeneous sample; Analyze by layer

Relinquished By: Sanjay Patel	DATE:	Received By:
Sanjay Patel	9/11/08	9/12
Fedex Delivery	TIME:	
Company: LANGAN		Company: LOSF

Relinquished By:	DATE:	Received By:
	TIME:	
Company: LANGAN		Company:

Laboratory Name & Address: **AmeriSci, NY**

Langan
Engineering and Environmental Services

CHAIN OF CUSTODY RECORD / ANALYSIS REQUEST

☒ River Drive Center I
Elmwood Park, NJ 07407
Phone: 201-794-6900
Fax: 201-794-7501

☐ 90 West Street
New York, NY 10006-1039
Phone: 212-964-7888
Fax: 212-964-7885

☐ Georgetown Crossing
3655 Route 202, Ste 225
Doylestown, PA 8901-1699
Phone: 215-348-7101
Fax: 215-348-7125

☐ 1 Penn Center & Suburban Stn
1617 JFK Boulevard, Ste 889
Philadelphia, PA 19103
Phone: 215-864-0640
Fax: 215-864-0671

☐ Long Wharf Maritime Center
555 Long Wharf Drive
New Haven, CT 06511-6107
Phone: 203-562-5771
Fax: 203-789-6142

				ANALYSIS REQUESTED: Asbestos: XX				Lead:
Project Name:	Kingsbridge Armory	Project. No.:	5815101	BULK: XX				
Address:	29 West Kingsbridge Road	Auth. By:	Vijay Patel					
Site Location:	Bronx, New York	Phone No:	(201) 794-6900					
Sampled By:	M. Baran/S. Patel	License #:	103281	PLM	PLM-NOB	TEM	AAS	TCLP
Company:	LANGAN		72hrs TAT					

Sample ID Number	Description of Sample	Location	Sampling Date					
IDC-1-A	Interior door caulking	Basement	9/4,5 &8/08		X	X		
IDC-1-B	↓	↓	↓		X	X		
DC-1-A	Door Caulking	Exterior	↓		X	X		
DC-1-B	↓	↓	↓		X	X		
WC-1-A	Window Caulking	↓	↓		X	X		
WC-1-B	↓	↓	↓		X	X		
BBM-1-A	Cove base and mastic	Basement - Mezzanine	↓		X	X		
BBM-1-B	↓	↓	↓		X	X		
BBM-2-A	6" black cove base and mastic	2nd floor	↓		X	X		
BBM-2-B	↓	↓	↓		X	X		

2080923833

Total No. of Samples: 10
Laboratory Instructions/Turnaround Requested: 72hrs TAT

XXX Stop at first positive result for each homogeneous sample; Analyze by layer

Relinquished By: Sanjay Patel	DATE:	Received By:
Sanjay Patel	9/11/08	9/12
Fedex Delivery	TIME:	1037
Company: LANGAN		Company:

Relinquished By:	DATE:	Received By:
	TIME:	
Company: LANGAN		Company:

Laboratory Name & Address: **AmeriSci, NY**

Langan
Engineering and Environmental Services

CHAIN OF CUSTODY RECORD / ANALYSIS REQUEST

☒ River Drive Center I
Elmwood Park, NJ 07407
Phone: 201-794-6900
Fax: 201-794-7501

☐ 90 West Street
New York, NY 10006-1039
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Fax: 215-864-0671

☐ Long Wharf Maritime Center
555 Long Wharf Drive
New Haven, CT 06511-6107
Phone: 203-562-5771
Fax: 203-789-6142

				ANALYSIS REQUESTED: Asbestos: XX				Lead:
Project Name:	Kingsbridge Armory	Project. No.:	5815101	BULK: XX				
Address:	29 West Kingsbridge Road	Auth. By:	Vijay Patel					
Site Location:	Bronx, New York	Phone No:	(201) 794-6900	PLM	PLM-NOB	TEM	AAS	TCLP
Sampled By:	M. Baran/S. Patel	License #:	103281					
Company:	LANGAN		72hrs TAT					

Sample ID Number	Description of Sample	Location	Sampling Date	PLM	PLM-NOB	TEM	AAS	TCLP
FC-1-A	Black linoleum floor covering	Basement Mezzanine	9/4,5 &8/08		X	X		
FC-1-B	↓	↓	↓		X	X		
FC-2-A	Brown linoleum floor covering	Middle stair room Basement Mezzaine	↓		X	X		
FC-2-A	↓	↓	↓		X	X		
FT-1-A	9"sq. Beige floor tiles/ NO mastic	Basement - North side	↓		X	X		
FT-1-B	↓	↓	↓		X	X		
FT-2-A	L1: 12"sq. white floor tiles and mastic	Basement - Mezzanine	↓		X	X		
	L2: 12"sq. beige floor tiles and mastic	↓	↓		X	X		
FT-2-B	↓	↓	↓		X	X		
FT-2-C	12"sq. beige floor tiles and mastic - Only 1 layer	↓	↓		X	X		

2080923833

Total No. of Samples: 09

Laboratory Instructions/Turnaround Requested: 72hrs TAT

XXX Stop at first positive result for each homogeneous sample; Analyze by layer

Relinquished By: Sanjay Patel	DATE:	Received By:
Sanjay Patel	9/11/08	9/12 1037
Fedex Delivery	TIME:	
Company: LANGAN		Company:

Relinquished By:	DATE:	Received By:
	TIME:	
Company: LANGAN		Company:

Laboratory Name & Address: **AmeriSci, NY**

Langan
Engineering and Environmental Services

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555 Long Wharf Drive
New Haven, CT 06511-6107
Phone: 203-562-5771
Fax: 203-789-6142

CHAIN OF CUSTODY RECORD / ANALYSIS REQUEST

Project Name:	Kingsbridge Armory	Project. No.:	5815101
Address:	29 West Kingsbridge Road	Auth. By:	Vijay Patel
Site Location:	Bronx, New York	Phone No:	(201) 794-6900
Sampled By:	M. Baran/S. Patel	License #:	103281
Company:	LANGAN		72hrs TAT

Sample ID Number	Description of Sample	Location	Sampling Date	ANALYSIS REQUESTED: Asbestos: XX BULK: XX PLM	PLM-NOB	TEM	Lead: AAS	TCLP
FT-3-A	Black floor tiles and mastic/felt paper	Basement-Mezzanine under Plywood & FT-2	9/4,5 &8/08		X	X		
FT-3-B	↓	↓	↓		X	X		
FT-4-A	12" sq. tan wood design floor tiles and mastic	1st floor-Mezzanine			X	X	2080923	83
FT-4-B	↓	↓			X	X		
FT-5-A	12" sq. terra cotta red with brown speckles FT and mastic	2nd Floor			X	X		
FT-5-B	↓	↓			X	X		
FT-6-A	12" sq. dark brown floor tiles and mastic	2nd Floor			X	X		
FT-6-B	↓	↓			X	X		
MA-1-A	Mastic attached with 9" sq. red floor tiles (NO FT)	Middle stair room Basement-Mezzanine			X	X		
MA-1-B	↓	↓	↓		X	X		

Total No. of Samples: 10

Laboratory Instructions/Turnaround Requested: 72hrs TAT

XXX Stop at first positive result for each homogeneous sample; Analyze by layer

Relinquished By: Sanjay Patel	DATE:	Received By:
Sanjay Patel	9/11/08	9/12
Fedex Delivery	TIME:	0937
Company: LANGAN		Company:

Relinquished By:	DATE:	Received By:
	TIME:	
Company: LANGAN		Company:

Laboratory Name & Address: **AmeriSci, NY**

Langan
Engineering and Environmental Services

☒ River Drive Center I
Elmwood Park, NJ 07407
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555 Long Wharf Drive
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CHAIN OF CUSTODY RECORD / ANALYSIS REQUEST

Project Name:	Kingsbridge Armory	Project. No.:	5815101
Address:	29 West Kingsbridge Road	Auth. By:	Vijay Patel
Site Location:	Bronx, New York	Phone No:	(201) 794-6900
Sampled By:	M. Baran/S. Patel	License #:	103281
Company:	LANGAN		72hrs TAT

ANALYSIS REQUESTED: Asbestos: XX
BULK: XX
Lead:

Sample ID Number	Description of Sample	Location	Sampling Date	PLM	PLM-NOB	TEM	AAS	TCLP
MA-2-A	Mastic/Felt paper attached with 9" sq. brown floor tiles,	1st Floor	9/4,5 &8/08		X	X		
MA-2-B	↓	↓	↓		X	X		
MA-3-A	Mastic/Felt paper attached with 9"sq. black floor tiles	1st Floor			X	X		
MA-3-B	↓	↓	↓		X	X		
MA-4-A	Mastic/Felt attached with 9" sq. blue floor tiles	1st Floor			X	X		
MA-4-B	↓	↓	↓		X	X		
MA-5-A	Mastic attached with 9" sq. wood design floor tiles	1st Floor-Mezzanine			X	X		
MA-5-B	↓	↓	↓		X	X		

2080923837

Total No. of Samples: 08

Laboratory Instructions/Turnaround Requested: 72hrs TAT

XXX Stop at first positive result for each homogeneous sample; Analyze by layer

Relinquished By: Sanjay Patel	DATE:	Received By:
Sanjay Patel	9/11/08	9/12
Fedex Delivery	TIME:	1037
Company: LANGAN		Company:

Relinquished By:	DATE:	Received By:
	TIME:	
Company: LANGAN		Company:

Laboratory Name & Address: **AmeriSci, NY**

Langan Certifications/ Laboratory Accreditations

LANGAN

NEW YORK STATE - DEPARTMENT OF LABOR
DIVISION OF SAFETY AND HEALTH
LICENSE AND CERTIFICATE UNIT
STATE CAMPUS BUILDING 12
ALBANY, NY 12240

ASBESTOS HANDLING LICENSE

Langan Engineering And Environmental Services, Inc.
River Drive Center One
619 River Drive
Elmwood Park, NJ 07407

FILE NUMBER: 99-0273
LICENSE NUMBER: 29702
LICENSE CLASS: RESTRICTED
DATE OF ISSUE: 06/10/2008
EXPIRATION DATE: 06/30/2009

Duly Authorized Representative – Vijay Patel

This license has been issued in accordance with applicable provisions of Article 30 of the Labor Law of New York State and of the New York State Codes, Rules and Regulations (12 NYCRR Part 56). It is subject to suspension or revocation for a (1) serious violation of state, federal or local laws with regard to the conduct of an asbestos project, or (2) demonstrated lack of responsibility in the conduct of any job involving asbestos or asbestos material.

This license is valid only for the contractor named above and this license or a photocopy must be prominently displayed at the asbestos project worksite. This license verifies that all persons employed by the licensee on an asbestos project in New York State have been issued an Asbestos Certificate, appropriate for the type of work they perform, by the New York State Department of Labor.

Maureen A. Cox, Director
FOR THE COMMISSIONER OF LABOR

SH 432 (4-07)

United States Environmental Protection Agency

This is to certify that

Langan Engineering & Environmental Services, Inc.

619 River Drive Center 1, Elmwood Park, New Jersey 07407

has fulfilled the requirements of the Toxic Substances Control Act (TSCA) Section 402(a)(1), and has received certification to conduct lead-based paint activities pursuant to 40 CFR Part 745.226.

In the Jurisdiction of:

New York

This certification is valid from the date of issuance and expires May 30, 2009

NY-2233-1

Certification #

JUN - 5 2006

Issued On

Kenneth S. Stoller

Kenneth S. Stoller, P.E., QEP, DEE, Chief

Pesticides & Toxic Substances Branch

TSC
providing TOTAL SAFETY CONSULTING
5 Court Square
Long Island City, NY 11101
718.389.2103 - Fax: 718.389.6155
www.totalsafety.org



NYC DOB 4-HR Supported Scaffold User Certificate

Name: Vijay Patel
Director: Tom Ferrante **Class Date: 06/19/2007**

Exp. Date: 06/19/2011 **Card No. SS07-2653**

STATE OF NEW YORK - DEPARTMENT OF LABOR
ASBESTOS CERTIFICATE



VIJAY B PATEL
CLASS(EXPIRES)
C ATEC(05/08) D INSP(05/08)
E MGPL(05/08) H PM (05/08)
I PD (05/08)

CERT# 98-12523

MUST BE CARRIED ON ASBESTOS PROJECTS

NYC DEP Asbestos Control Program
Asbestos Certificate



PATEL,
VIJAY B
INVESTIGATOR
103029
EXPIRES: 5/13/2008

Must be carried on all asbestos projects

NYC DEP Asbestos Control Program
Asbestos Certificate



PATEL,
VIJAY B
INVESTIGATOR
110337
EXPIRES: 5/13/2010
DOB: [redacted] M 5' 06"

Must be carried on all asbestos projects

STATE OF NEW YORK - DEPARTMENT OF LABOR
ASBESTOS CERTIFICATE



VIJAY B PATEL
CLASS(EXPIRES)
C ATEC(05/09) D INSP(05/09)
E MGPL(05/09) H PM (05/09)
I PD (05/09)

CERT# 98-12523
DMV# [redacted]

MUST BE CARRIED ON ASBESTOS PROJECTS

New York
PROJECT DESIGNER



Certified Lead-Based
Paint Professional

Certification No NY-P-2789-1	
Date of Birth	Expiration Date 09/29/2009
Address	
Badge Holder's Name Vijay B. Patel	
Badge Holder's Signature	

If found, drop in any mailbox
Postmaster: Please return to:
US EPA
1200 Pennsylvania Ave, NW
(MC-74040T)
Washington, DC 20460
or call 1-800-424-LEAD

New York
RISK ASSESSOR



Certified Lead-Based
Paint Professional

Certification No NY-R-2789-1	
Date of Birth	Expiration Date 09/29/2009
Address	
Badge Holder's Name Vijay B. Patel	
Badge Holder's Signature	

If found, drop in any mailbox
Postmaster: Please return to:
US EPA
1200 Pennsylvania Ave, NW
(MC-74040T)
Washington, DC 20460
or call 1-800-424-LEAD

EYES BLK
HAIR BLK

IF FOUND RETURN TO:
NYSDOL - L&C UNIT
ROOM 290A BUILDING 12
STATE OFFICE CAMPUS
ALBANY NY 12240

New York
RISK ASSESSOR



Certified Lead-Based
Paint Professional

New York
INSPECTOR



Certified Lead-Based
Paint Professional

New Jersey Department of
Health & Senior Services
Indoor Environments Program
Lead Certification Permit



SANJAY B PATEL
Permit Number: 017721
ID Number: 006046
Expiration Date: 3/28/2009



Authorization Signature: James A. Buonadies, Director

Inspector/Risk Assessor

NJ Department of Community Affairs
Division of Codes and Standards
Bureau of Code Services



This is to certify that

Sanjay Patel

has been certified as:
Asbestos Safety Technician

Certification #	**01110**
Effective Date	**8/1/2007**
Expiration Date	**7/31/2009**

TSC
providing TOTAL SAFETY CONSULTING
5 Court Square
Long Island City, NY 11101
718.389.2103 - Fax: 718.389.6155
www.totalsafety.org



NYC DOB 4-HR Supported Scaffold User Certificate

Name: Sanjay Patel
Director: Tom Ferrante **Class Date: 06/19/2007**

Exp. Date: 06/19/2011 **Card No. SS07-2672**

This card in no way certifies or verifies this individuals competency in the safe operation of scaffolds

If found, please contact TSC at (718) 389-2103

NYC DEP Asbestos Control Program
Asbestos Certificate



PATEL,
SANJAYKUMAR B
INVESTIGATOR
108041
EXPIRES: 9/18/2009

Must be carried on all asbestos projects

Certification No NY-I-4643-1	
Date of Birth	Expiration Date 11/20/2009
Address	
Badge Holder's Name	Sanjay B Patel
Badge Holder's Signature	

If found, drop in any mailbox
Postmaster: Please return to:
US EPA
1200 Pennsylvania Ave, NW
(MC-7404OT)
Washington, DC 20460
or call 1-800-424-LEAD

STATE OF NEW YORK - DEPARTMENT OF LABOR
ASBESTOS CERTIFICATE



SANJAYKUMAR PATEL
CLASS(EXPIRES)
C ATEC(09/08) D INSP(09/08)
H PM (09/08)

CERT# 98-10216

MUST BE CARRIED ON ASBESTOS PROJECTS

THIS CARD IS ISSUEDPURSUANT TO
N.J.S.A. 52:27D-119 ET SEQ OF THE
STATE OF NEW JERSEY

CHIEF
BUREAU OF CODE SERVICES

Certification No NY-R-4643-1	
Date of Birth	Expiration Date 11/20/2009
Address	
Badge Holder's Name	Sanjay B Patel
Badge Holder's Signature	

If found, drop in any mailbox
Postmaster: Please return to:
US EPA
1200 Pennsylvania Ave, NW
(MC-7404OT)
Washington, DC 20460
or call 1-800-424-LEAD

EYES BLK
HAIR BLK

IF FOUND RETURN TO:
NYSDOL - L&C UNIT
ROOM 290A BUILDING 12
STATE OFFICE CAMPUS
ALBANY NY 12240

This certificate must be shown to a NYCDEP representative upon request. Report loss immediately to NYCDEP Asbestos Control Program, 8th floor 59-17 Junction Blvd., Flushing, NY 11373

This PERMIT has been issued in accordance with N.J.A.C. 8:62. You MUST have this PERMIT with you on the job. To report a lost or stolen permit, notify us of edits to information on a permit, report change of address, report defects in card, or to find out how to renew a permit, contact the NJDHSS at:
New Jersey Department of Health & Senior Services
Consumer & Environmental Health Services
Indoor Environments Program, Training and Certification
3635 Quakerbridge Road, PO Box 372
Trenton, NJ 08625-0372
Telephone: (609) 631-6749 Fax: (609)588-7618
www.state.nj.us/health/eoh/leadasb/
If this permit is found abandoned, please send to above address.

DA 5/14/2007

United States Department of Commerce
National Institute of Standards and Technology

NVLAP®

Certificate of Accreditation to ISO/IEC 17025:2005

NVLAP LAB CODE: 200546-0

AmeriSci New York

New York, NY

is accredited by the National Voluntary Laboratory Accreditation Program for specific services, listed on the Scope of Accreditation, for:

BULK ASBESTOS FIBER ANALYSIS

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communique dated 18 June 2005).

2008-07-01 through 2009-06-30

Effective dates

DEPARTMENT OF COMMERCE * UNITED STATES OF AMERICA *

Sally S. Bruce

For the National Institute of Standards and Technology

NVLAP-01C (REV. 2006-09-13)

National Voluntary Laboratory Accreditation Program

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

AmeriSci New York
DBA: AmeriSci New York
117 E. 30th Street
New York, NY 10016
Mr. Paul Mucha
Phone: 212-679-8600 Fax: 212-679-2711
E-Mail: pmucha@amerisci.com
URL: http://www.amerisci.com

BULK ASBESTOS FIBER ANALYSIS (PLM) **NVLAP LAB CODE 200546-0**

NVLAP Code	*Designation / Description*
18/A01	EPA-600/M4-82-020: Interim Method for the Determination of Asbestos in Bulk Insulation Samples

2008-07-01 through 2009-06-30
Effective dates

Sally S. Bruce
For the National Institute of Standards and Technology

United States Department of Commerce
National Institute of Standards and Technology

NVLAP®

Certificate of Accreditation to ISO/IEC 17025:2005

NVLAP LAB CODE: 200546-0

AmeriSci New York

New York, NY

is accredited by the National Voluntary Laboratory Accreditation Program for specific services, listed on the Scope of Accreditation, for:

AIRBORNE ASBESTOS FIBER ANALYSIS

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communique dated 18 June 2005).

2008-07-01 through 2009-06-30

Effective dates

DEPARTMENT OF COMMERCE * UNITED STATES OF AMERICA *

Sally S. Bruce

For the National Institute of Standards and Technology

NVLAP-01C (REV. 2006-09-13)

NVLAP® National Voluntary Laboratory Accreditation Program

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

AmeriSci New York
DBA: AmeriSci New York
117 E. 30th Street
New York, NY 10016
Mr. Paul Mucha
Phone: 212-679-8600 Fax: 212-679-2711
E-Mail: pmucha@amerisci.com
URL: http://www.amerisci.com

AIRBORNE ASBESTOS FIBER ANALYSIS (TEM) **NVLAP LAB CODE 200546-0**

NVLAP Code	*Designation / Description*
18/A02	U.S. EPA's "Interim Transmission Electron Microscopy Analytical Methods-Mandatory and Nonmandatory-and Mandatory Section to Determine Completion of Response Actions" as found in 40 CFR, Part 763, Subpart E, Appendix A.

2008-07-01 through 2009-06-30
Effective dates

Sally S. Bruce
For the National Institute of Standards and Technology

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER
RICHARD F. DAINES, M.D.

Expires 12:01 AM April 01, 2009
Issued April 01, 2008

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MR. PAUL MUCHA
AMERICA SCIENCE TEAM NEW YORK INC
117 EAST 30TH ST
NEW YORK, NY 10016

NY Lab Id No: 11480
EPA Lab Code: NY01378

is hereby APPROVED as an Environmental Laboratory for the category
ENVIRONMENTAL ANALYSES POTABLE WATER
All approved subcategories and/or analytes are listed below:

Drinking Water Miscellaneous

Asbestos	EPA 100.1
	EPA 100.2

Serial No.: 36239

Property of the New York State Department of Health. Valid only at the address shown. Must be conspicuously posted. Valid certificates have a raised seal. Continued accreditation depends on successful ongoing participation in the Program. Consumers are urged to call (518) 485-5570 to verify laboratory's accreditation status.

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER
RICHARD F. DAINES, M.D.

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AMERICA SCIENCE TEAM NEW YORK INC
117 EAST 30TH ST
NEW YORK, NY 10016

NY Lab Id No: 11480
EPA Lab Code: NY01378

is hereby APPROVED as an Environmental Laboratory for the category
ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE
All approved subcategories and/or analytes are listed below:

Miscellaneous

Asbestos in Friable Material	EPA 600/M4/82/020
	Item 198.1 of Manual
Asbestos in Non-Friable Material-PLM	Item 198.6 of Manual (NOB by PLM)
Asbestos in Non-Friable Material-TEM	ITEM 198.4 OF MANUAL

Serial No.: 36240

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WADSWORTH CENTER
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AMERICA SCIENCE TEAM NEW YORK INC
117 EAST 30TH ST
NEW YORK, NY 10016

NY Lab Id No: 11480
EPA Lab Code: NY01378

is hereby APPROVED as an Environmental Laboratory for the category
ENVIRONMENTAL ANALYSES AIR AND EMISSIONS
All approved subcategories and/or analytes are listed below:

Miscellaneous Air

Asbestos	40 CFR 763 APX A No. III
	YAMATE,AGARWAL GIBB
Fibers	NIOSH 7400 A RULES

Serial No.: 36241

Property of the New York State Department of Health. Valid only at the address shown. Must be conspicuously posted. Valid certificates have a raised seal. Continued accreditation depends on successful ongoing participation in the Program. Consumers are urged to call (518) 485-5570 to verify laboratory's accreditation status.

SUPPLEMENTAL GROUNDWATER INVESTIGATION REPORT

Kingsbridge Armory
29 West Kingsbridge Road
Bronx, New York

Prepared For:

Related Retail
60 Columbus Circle
New York, New York

Prepared By:

Langan Engineering & Environmental Services, P.C.
360 West 31st Street, 8th Floor
New York, New York

June 17, 2009
Langan Project No. 5815101

LANGAN
ENGINEERING & ENVIRONMENTAL SERVICES

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1.0 INTRODUCTION

Langan Engineering & Environmental Services, P.C. (Langan) has prepared this Supplemental Groundwater Investigation Report in support of the redevelopment of the Kingsbridge Armory facility at 29 West Kingsbridge Road in the Bronx, New York ("the Site"). This report presents the results of supplemental groundwater sampling that was conducted at the Site and on the adjacent National Guard property that borders the Site to the north. The objective of the supplemental investigation was to determine whether two abandoned underground storage tanks (USTs) on the National Guard property are the source of groundwater impacts that were detected in a monitoring well in the Armory building during a 2008 Phase II Environmental Site Investigation (ESI). The supplemental investigation also included follow-up sampling of the well in which impacts were detected.

2.0 BACKGROUND

The Kingsbridge Armory is being considered for redevelopment as a multiple-use community, educational, and retail facility. The project site is located on the city block bordered by West 195th Street to the north, West Kingsbridge Road to the south, Jerome Avenue to the east, and Reservoir Avenue to the west. The Armory is bordered to the north along West 195th Street and Reservoir Road by two New York State National Guard (National Guard) maintenance buildings and a parking lot. A Site Location Map is provided as Figure 1.

Langan conducted a Phase II ESI of the Armory property in October 2008. Five volatile organic compounds (VOCs) and one semi-volatile organic compound (SVOC) were detected in well MW-3, which was installed in the northwestern portion of the sub-cellar of the Armory, at concentrations above the New York State Department of Environmental Conservation (NYSDEC) Technical and Operational Guidance Series (TOGS) Ambient Water Quality Standards (AWQS). Elevated organic vapor concentrations were also detected in soil samples collected from MW-3 and nearby borings. The Phase II ESI did not reveal an obvious source for the groundwater impacts; however, a 2007 environmental investigation conducted by TRC, Inc. identified two, abandoned 3,000-gallon and 2,000-gallon diesel and gasoline USTs located under the parking area of the National Guard property northwest of the Armory building. TRC's investigation indicated that the tanks were likely closed in September 1993. Based on the proximity of the former USTs to well MW-3, the tanks were deemed potential sources of impacted groundwater at the Site. This supplemental investigation was conducted to evaluate the off-site USTs as sources of VOC and SVOC contamination at the Site.

2.0 SUPPLEMENTAL GROUNDWATER INVESTIGATION

Langan conducted the Supplemental Groundwater Investigation on May 27 and 28, 2009. The investigation included a geophysical survey, advancement of soil borings, installation of a monitoring well, and groundwater sampling.

2.1 Geophysical Survey

Under Langan's oversight, Nova Geophysical Services of Forest Hills, New York conducted a geophysical survey in the western parking lot of the National Guard property on May 27, 2009. The survey was conducted to identify potential utilities at proposed Geoprobe boring locations and to locate the two decommissioned USTs and associated piping. The survey utilized an electromagnetic metal detector (Geonics EM-61 Pipe Locator) and a ground penetrating radar (GPR) system (MALA 250 MHz to 500 MHz GPR units). The survey methodology is discussed in detail and the survey location plan is provided in Nova's Geophysical Engineering Survey Report, which is included as Appendix A.

The survey identified two anomalies consistent with USTs underneath the southeastern and northeastern portions of the parking lot, with dimensions of approximately 19- by 27- ft and 9- by 19- ft, respectively. The UST locations were consistent with those identified in TRC's 2007 investigation report. The survey identified two former pump islands along the eastern boundaries of the USTs. The survey also detected anomalies consistent with a water line and north-south oriented sewer line that enter the parking lot from West 195th Street and transect the central and northeastern portions of the parking lot.

3.2 Soil Borings and Groundwater Monitoring Well Installation

3.2.1 Soil Borings

Two direct-push soil borings (MW-4 and MW-5) were advanced with a track-mounted Geoprobe 7730DT unit in the National Guard property parking lot. The borings were advanced in preparation for installation of two monitoring wells between the southern-most UST and the northwestern portion of the Armory property. Soil samples were collected continuously from each boring into new, dedicated acetate liners with a 2-inch diameter, 5-ft macrocore sample barrel. Soil retrieved from each boring was classified for soil type and screened for organic vapors with a photoionization detector (PID).

Boring PMW-4 was advanced to 34 ft below the top of concrete, and groundwater was encountered at approximately 27 ft below top of concrete. Refusal was encountered in either rock or concrete at 18 ft below the top of concrete during advancement of boring PMW-5. Two offset borings advanced 5 ft and 9 ft west of boring PMW-5 encountered refusal at 14.5 ft and 15 ft below the top of concrete, respectively. Groundwater was not encountered in boring

MW-5 or the two offset locations. The presence of a concrete wall east of PMW-5, the Armory Building south of PMW-5, and buried utilities in this area limited access for the advancement of additional offset borings. Boring refusal and spatial limitations therefore precluded installation of well MW-5. The detailed boring logs are included as Appendix B. The soil boring locations are shown in Figure 2.

3.2.2 Monitoring Well Installation

Groundwater monitoring well MW-4 was installed in the soil boring advanced near the southwestern corner of the southern-most UST. The well was constructed of 2-inch diameter threaded, flush-joint PVC riser and 10 ft of 0.01-inch slot screen. The screen was placed across the water table interface, and the annulus was filled with clean sand (Morie #1) to a height of approximately six inches to one foot above the top of the screened interval. A two- foot layer of hydrated bentonite clay was placed above the sand pack to seal the well. The remainder of the annular space was filled with soil cuttings from the boring. The remaining soil cuttings were placed in a sealed and labeled 55-gallon drum and stored on the National Guard property pending disposal. The well was completed with a flush mount, steel well cover set into concrete and over the well for protection. A monitoring well construction log is provided in Appendix C.

3.3 Groundwater Sampling

Three groundwater samples were collected from MW-4, TRC-MW-3, which TRC installed west of the southern-most decommissioned UST, and MW-3, which is located in the northwestern portion of the sub-cellar of the Armory building. Because well MW-3 was installed with one-inch diameter riser, a peristaltic pump and dedicated, disposable polyethylene tubing were used to purge the well. Wells MW-4 and TRC-MW-3 were purged with a 2-inch diameter submersible pump and sampled in general accordance with procedures set forth in the U.S. EPA's low-flow groundwater sampling procedure to allow for collection of a representative sample ("Low-Flow (Minimal Drawdown) Ground-Water Sampling Procedures", EPA/540/S-95/504, April 1996).

The static water level in each well was measured to the nearest 0.01 foot with a decontaminated oil/water interface probe. Prior to sample collection, each well was purged at a rate less than 0.5 liters per minute in order to minimize drawdown and sample turbidity. During purging and sampling, monitoring well effluent was pumped into a flow-through cell attached to a Horiba U-22 Water Quality Monitoring System probe (Horiba U-22). The Horiba U-22 was used to monitor the purge water for hydrogen ion concentration (pH), oxidation/reduction potential, conductivity, temperature, dissolved oxygen, and turbidity. Five well volumes were purged until variations between successive groundwater parameter measurements had stabilized to within 10 percent. Purge water was contained in two 55-gallon drums, labeled,

and stored on the National Guard property. Groundwater sampling logs are provided in Appendix C.

The samples were collected into laboratory-provided containers, which were labeled and placed in ice-filled coolers pending delivery to the lab under proper chain-of-custody protocol. The samples were submitted to Spectrum Analytical, Inc. (Spectrum) of Agawam, Massachusetts for analysis of VOCs and SVOCs via EPA Methods 8260 and 8270, respectively. Spectrum is a New York State Department of Health (NYSDOH) Environmental Laboratory Approval Program (ELAP) certified laboratory. A Groundwater Sample Location and Results Map is provided in Figure 3.

4.0 OBSERVATIONS AND RESULTS

4.1 Field Observations

Soil observed in the borings consisted of fill, which is comprised of brown fine to coarse-grained sand with traces of silt, gravel, timber, concrete, and brick. Groundwater was encountered in monitoring wells TRC-MW-3 and MW-4 at a depth of approximately 27 ft below the top of concrete in the parking lot. The depth to groundwater in MW-3 was 4.2 ft below the top of the sub-cellar floor slab.

Field indications of a spill or other impacts to soil on the National Guard property were not observed during the investigation. PID readings in soil boring MW-4 ranged from 1.0 ppm (24-26 ft depth interval) to 1.9 ppm (4-5 ft depth interval). PID readings in the three MW-5 offset borings ranged from 0.0 ppm to 0.6 ppm. Minor staining was observed in conjunction with asphalt fragments in soil samples collected from below the concrete in boring MW-4 and the MW-5 offset borings. Consistent with Langan's observations during the 2008 Phase II ESI, a petroleum odor was observed in monitoring well MW-3 in the Armory sub-cellar.

4.2 Analytical Results

Analytical results from the groundwater samples were compared to NYSDEC TOGS AWQS. One VOC, 4-isopropyltoluene, was detected in the groundwater sample collected from well MW-4 at a concentration of 804 µg/L, which exceeds the TOGS AWQS standard of 5 ug/L. VOCs and SVOCs were not detected at concentrations above TOGS AWQS in the groundwater samples collected from wells MW-3 and TRC-MW-3. Seven VOCs (naphthalene, n-butylbenzene, n-propylbenzene, isopropylbenzene, methyl tert-butyl ether, toluene, and 4-isopropyltoluene were detected in the sample collected from well MW-3 at concentrations below the TOGS AWQS. Analytical detections of VOCs and SVOCs in the groundwater samples are presented in Table 1. The laboratory analytical report is provided in Appendix E.

5.0 CONCLUSIONS AND RECOMMENDATIONS

Based on the field observations and analytical results from the soil borings and groundwater samples, we conclude that:

- The elevated VOC and SVOC concentrations observed in well MW-3 during the 2008 investigation appear to have attenuated to levels below regulatory standards and were not detected during this supplemental investigation, and
- Evidence of an off-site spill associated with the decommissioned USTs on the National Guard property is not present.

Further investigation is not recommended at this time.

6.0 LIMITATIONS

This Supplemental Groundwater Investigation report was prepared expressly for Related Retail for the Kingsbridge Armory Project in the Bronx, New York and for the objectives defined herein (due diligence). Langan cannot assume responsibility for the use of this Report for any property other than the specific site addressed in this report, or by any third party without specific written authorization from Langan.

The conclusions, opinions, and recommendations provided in this report are based on subsurface conditions ascertained from the analysis of a limited number of samples and from environmental reports prepared by other professionals that were provided by "the Client". Recommendations provided are contingent upon one another and no recommendation should be followed independent of the others. Actual conditions encountered may differ substantially from those presented herein and should be brought to our attention whereby we may determine how such changes may affect our conclusions, opinions and recommendations.

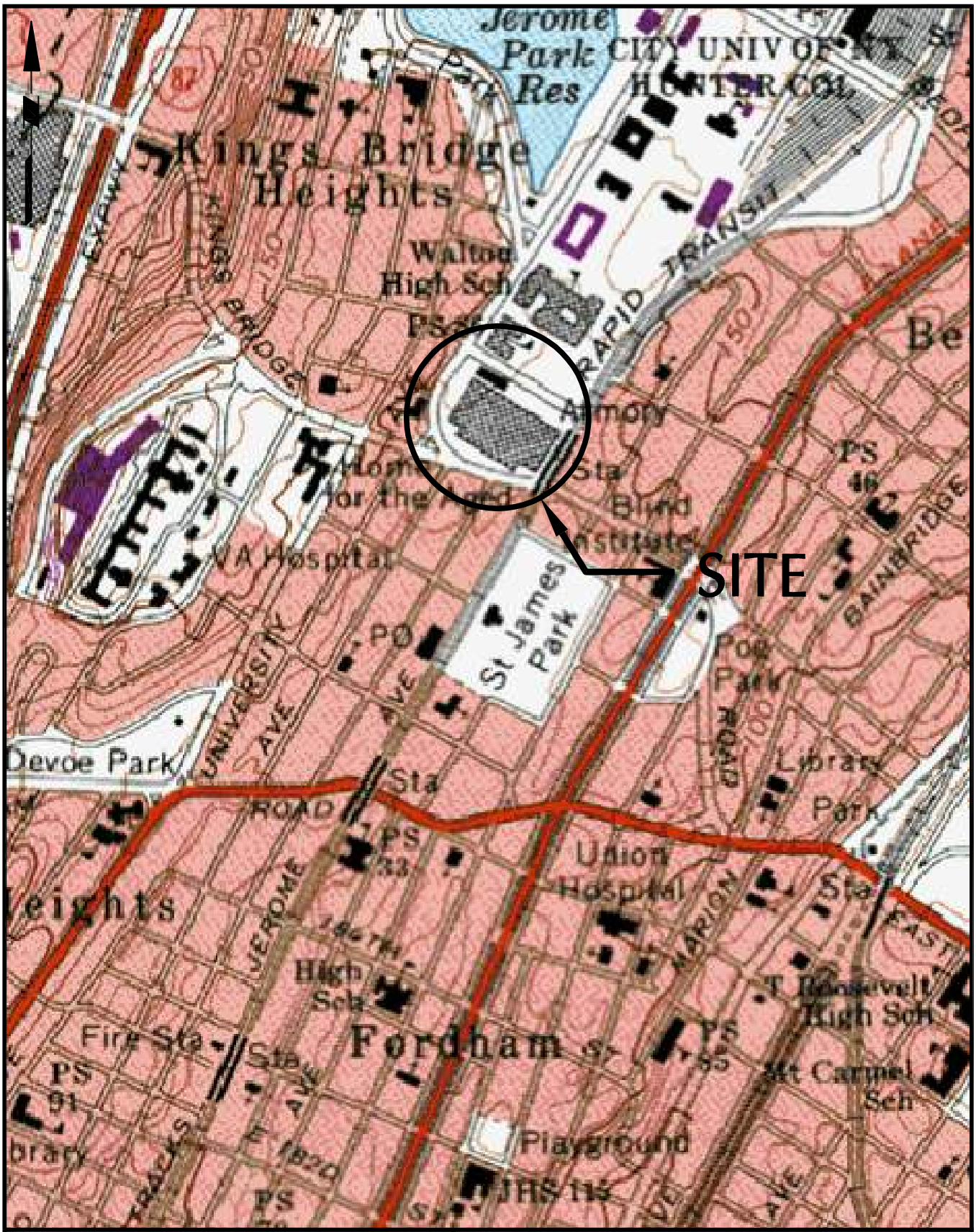
TABLE 1
ANALYTICAL DETECTIONS OF VOCs and SVOCs IN GROUNDWATER SAMPLES
SUPPLEMENTAL GROUNDWATER INVESTIGATION
KINGSBRIDGE ARMORY
BRONX, NEW YORK
LANGAN PROJECT NO. 5815101

Sample ID Lab Sample Number Sampling Date	NYSDEC TOGS 1.1.1 AMBIENT WATER QUALITY STANDARDS	PMW-4/5-27-09 220-6174-2 5/27/2009 15:40		PMW-4/5-27-09 220-6249-2 5/27/2009 15:40		TRC-MW-3/5-27-09 220-6249-1 5/27/2009 12:30			MW-3/5-28-09 220-6147-1 5/28/2009 14:50		
VOCs (µg/L)											
4-Isopropyltoluene	5	**804**	E	**626**	V11	<	0.5	U		1.9	
Acetone	50*	8.9	J	NA		<	2.6	U	<	2.6	U
Chloroform	7	1.4		NA		<	0.8	U	<	0.8	U
cis-1,2-Dichloroethene	5	< 0.4	U	NA			0.4	J	<	0.4	U
Isopropylbenzene	5	< 0.4	U	NA		<	0.4	U		0.5	J
Methyl tert-butyl ether	10	< 0.3	U	NA		<	0.3	U		0.6	J
Naphthalene	10	< 0.7	U	NA		<	0.7	U		5.1	
n-Butylbenzene	5	< 0.6	U	NA		<	0.6	U		2.9	
n-Propylbenzene	5	< 0.6	U	NA		<	0.6	U		1	
Tetrachloroethene	5	1		NA			0.5	J	<	0.5	U
Toluene	5	< 0.6	U	NA		<	0.6	U		0.7	J
Trichloroethene	5	0.9	J	NA		<	0.5	U	<	0.5	U
SVOCs (µg/L)											
Total SVOCs	--	ND		ND		ND			ND		

NOTES:
Groundwater samples were compared to New York State Department of Environmental Conservation (NYSDEC) Technical and Operations Guidance Series (TOGS) 1.1.1 Ambient Water Quality Standards (AWQS).
Only detected concentrations are presented.
NYSDEC TOGS exceedances are highlighted and in **BOLD.**

VOCs: Volatile Organic Compounds
SVOCs: Semi-Volatile Organic Compounds
µg/L: Micrograms per Liter

QUALIFIERS
U = Analyte was not detected at or above the reporting limit.
J = Laboratory esitmated value.
* = Value is a TOGS Guidance Value and not a standard.
ND = Non detected
V11 = Analyte concentration confirmed by duplicate analysis.
E = The concentration indicated for this analyte is an estimated value.
-- = No standard
NA = Not analysed



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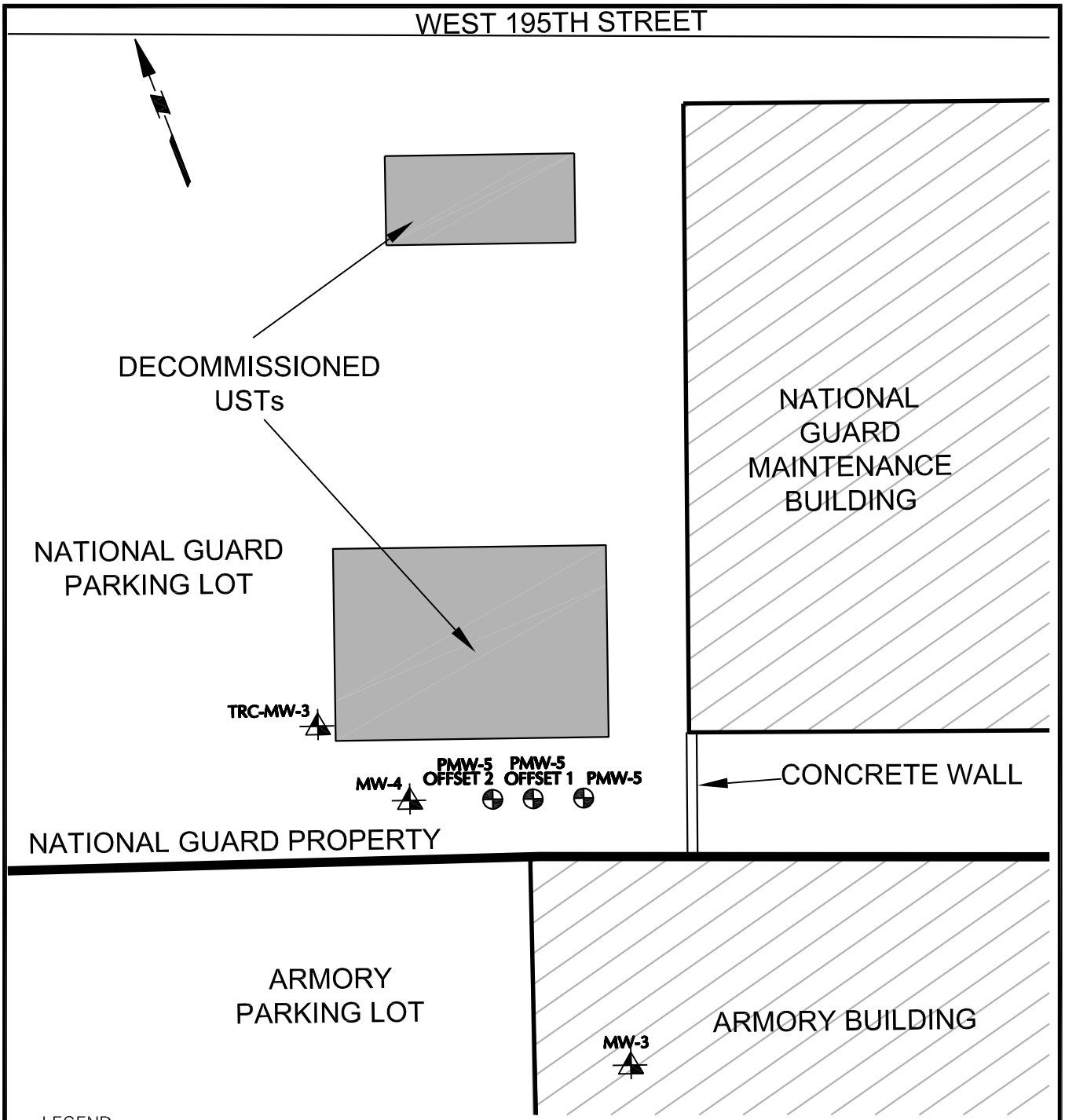
SITE LOCATION MAP

KINGSBRIDGE ARMORY

BRONX NEW YORK

Project No.	Date	Scale	Dwg. No.
5815101	6/12/09	NTS	1

Filename: U:\Data1\5815101\Cadd Data - 5815101\Dwg\Environmental\Site Location Map.dwg Date: 6/17/2009 Time: 18:02 User: sknoop Style Table: Langan.stb Layout: A Size Sheet (Bottom)



LEGEND

- TRC-MW-3 — MONITORING WELL INSTALLED BY TRC DURING 2007 INVESTIGATION
- MW-4 — MONITORING WELL
- PMW-5 — SOIL BORING
- SITE BOUNDARY
- BUILDING OUTLINE

NOTES:

1. PLAN TAKEN FROM "SUBSURFACE INVESTIGATION PLAN (EXISTING CONDITIONS)" BY LANGAN ENGINEERING, DATED AUGUST 15, 2008.

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GROUNDWATER MONITORING WELL AND SOL BORING PLAN

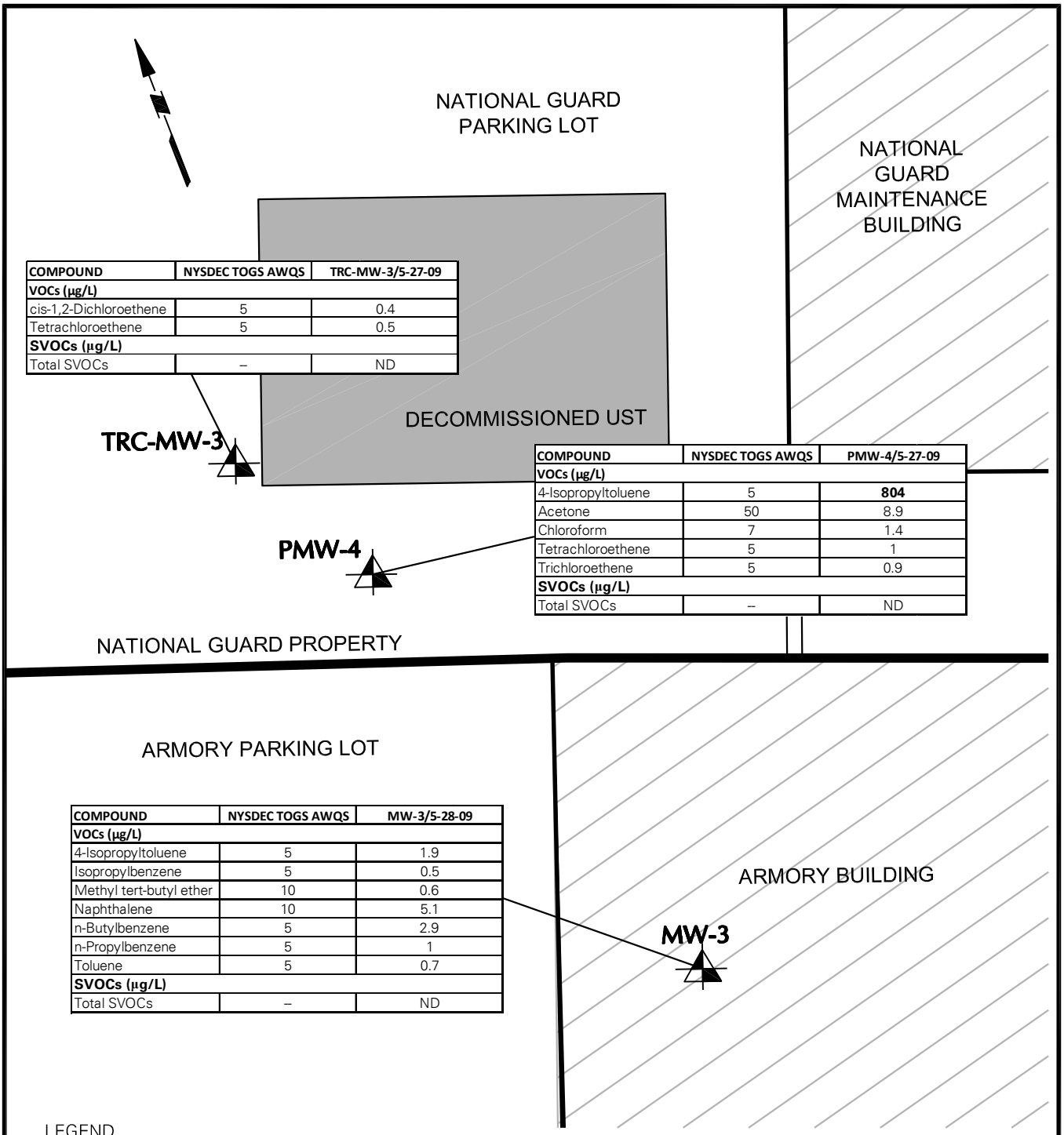
KINGSBRIDGE ARMORY

BRONX NEW YORK

Project No.	Date	Scale	Dwg. No.
5815101	6/16/09	1" = 15'	2

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Filename: U:\Data1\5815101\Cadd Data - 5815101\Dwg\Environmental\Groundwater Monitoring Well Plan.dwg Date: 6/17/2009 Time: 18:08 User: sknoop Style Table: Langan.stb Layout: Fig 1 - Nat'l Guard



COMPOUND	NYSDEC TOGS AWQS	TRC-MW-3/5-27-09
VOCs (µg/L)		
cis-1,2-Dichloroethene	5	0.4
Tetrachloroethene	5	0.5
SVOCs (µg/L)		
Total SVOCs	–	ND

COMPOUND	NYSDEC TOGS AWQS	PMW-4/5-27-09
VOCs (µg/L)		
4-Isopropyltoluene	5	**804**
Acetone	50	8.9
Chloroform	7	1.4
Tetrachloroethene	5	1
Trichloroethene	5	0.9
SVOCs (µg/L)		
Total SVOCs	--	ND

COMPOUND	NYSDEC TOGS AWQS	MW-3/5-28-09
VOCs (µg/L)		
4-Isopropyltoluene	5	1.9
Isopropylbenzene	5	0.5
Methyl tert-butyl ether	10	0.6
Naphthalene	10	5.1
n-Butylbenzene	5	2.9
n-Propylbenzene	5	1
Toluene	5	0.7
SVOCs (µg/L)		
Total SVOCs	–	ND

LEGEND

PMW-4 GROUNDWATER SAMPLE LOCATION

SITE BOUNDARY

BUILDING OUTLINE

NOTES:

1. ONLY DETECTED CONCENTRATIONS ARE PRESENTED.
2. NYSDEC TOGS AWQS EXCEEDANCES ARE **BOLD**.
3. ND = NON-DETECT.
4. PLAN TAKEN FROM "SUBSURFACE INVESTIGATION PLAN (EXISTING CONDITIONS)" BY LANGAN ENGINEERING, DATED AUGUST 15, 2008.

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GROUNDWATER SAMPLE LOCATION AND RESULTS MAP
KINGSBRIDGE ARMORY

BRONX NEW YORK

Project No.	Date	Scale	Dwg. No.
5815101	6/12/09	1" = 10'	3

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Filename: U:\Data1\5815101\Cadd Data - 5815101\Dwg\Environmental\Groundwater Sample Location and Results Map.dwg Date: 6/17/2009 Time: 18:06 User: sknoop Style Table: Langan.stb Layout: Fig 1 - Nat'l Guard

PHASE II SUPPLEMENTAL ENVIRONMENTAL SITE INVESTIGATION REPORT

For

Kingsbridge Armory
29 West Kingsbridge Road
Bronx, New York
CEQR #13DME013X

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June 7, 2013
Langan Project No. 170246501

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Figure 5: Soil Vapor Sample Locations and Results Map

APPENDICES

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Appendix B: Well Construction Logs
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Appendix E: Analytical Laboratory Results and Chain of Custody Documentation (CD)

1.0 INTRODUCTION

This Phase II Supplemental Environmental Site Investigation (SESI) was conducted for the Kingsbridge Armory property at 29 Kingsbridge Road (Tax Block 3247, Lot 2) in the Bronx, New York (The "Site"). The Site is being considered for redevelopment as the Kingsbridge National Ice Center (KNIC), a multiple use ice skating and recreational facility. The KNIC project is undergoing review by the City of New York in accordance with Uniform Land Use Review Procedure (ULURP). Accordingly, all investigative and remediation activities are subject to review and approval by the New York City Department of Environmental Protection (NYCDEP).

Langan and TRC Environmental Corporation conducted extensive soil and groundwater investigations at the Site between 2007 and 2009 during an earlier joint redevelopment effort. As such, the sub-surface environmental conditions underneath the armory building and exterior areas are well documented. As approximately four years have passed since the most recent environmental investigation and the current redevelopment plan incorporates a new design and Site use, this SESI was conducted to augment the existing data and address potential new areas of soil disturbance during redevelopment.

This Phase II SESI Report presents the environmental data and findings from the Site Investigation that was conducted between May 14 and 24, 2013.

2.0 PROJECT BACKGROUND

2.1 Site Description

The project site is at the center of a city block bordered by West 195th Street to the north, West Kingsbridge Road to the south, Jerome Avenue to the east, and Reservoir Avenue to the west (Figure 1). Most of the Site is occupied by the landmark Kingsbridge Armory building (Armory), which was constructed on an approximately 200,000-square-foot (sq-ft) footprint between 1912 and 1917, over the abandoned east basin of the Jerome Park Reservoir. An asphalt-paved parking area is located along the western perimeter of the Site along Reservoir Avenue, and landscaped areas border the southern perimeter of the structure along West Kingsbridge Road. Two National Guard annex buildings and a parking area border the Site to the north along West 195th Street.

The main drill hall at the center of the Armory measures approximately 300 by 600 feet (ft) and is spanned freely by an arched roof framing that rises 110 ft above the drill hall floor. Beneath the drill floor, two cellar levels formerly housed offices, a garage, a gymnasium, rifle and pistol ranges, and rooms for other military functions. The drill hall is flanked to the south by a two-

story head house with a single cellar floor and four towers that contain offices and residential quarters. The eastern portion of the sub-cellar area underlies the Jerome Avenue sidewalk. The sub-cellar of the Armory building is accessible by a ramp that extends from West 195th Street. The Site is currently owned and operated by the City of New York.

The Armory has remained unused since the 2009 environmental investigation, with the exception that an interior parking area is used for the staging of City graffiti removal vehicles. Occasional events are also held inside the central drill hall. No significant changes of use since the previous environmental investigations are apparent on adjacent and nearby properties.

2.2 Proposed Site Redevelopment

KNIC proposes to convert the interior of the Armory into a national ice rink facility with two levels of parking provided in the cellar and sub-cellar. Multiple ice rinks will be constructed within the shell of the central drill hall, including a main, ground-level rink with surrounding bleachers. Additional ice rinks will be constructed on the ground level and a mezzanine level on either side of the main rink. Vehicle access ramps to the cellar parking garages and loading docks will span between the building and West 195th Street to the north and Reservoir Avenue to the west. The sub-cellar parking area will be constructed at the elevation of the current floor slab. Mass excavation of soil and removal of groundwater are therefore not anticipated during the redevelopment project. Soil excavation underneath the western parking area and northern moat area adjoining West 195th Street may be required to accommodate the construction of footings for the access ramps. Additionally, soil may be excavated to install new caisson support structures for the building.

2.3 Previous Investigations

The following environmental reports were generated on behalf of Related Retail and the New York City Economic Development Corporation during the initial Kingsbridge Armory redevelopment effort:

Phase I Environmental Site Assessment (ESA), Kingsbridge Armory, dated September 2006; prepared by Metcalf & Eddy

This Phase I ESA was conducted on behalf of the New York City Economic Development Corporation (EDC) and identified the following environmental concerns:

- Industrial and commercial use of properties in the surrounding area may have impacted groundwater at the Site.
- Potential contamination from on-site fill materials may have impacted groundwater at the Site.

- One 275-gallon fuel oil aboveground storage tank (AST) was identified on the northeast portion of the drill room floor, and two 275-gallon fuel oil ASTs were identified on the southwest portion of the sub-cellar.
- A petroleum odor was noted in a room (B-20) on the western portion of the cellar; however, a source for the odor was not identified.
- Multiple containers of petroleum products were observed in the motor pool workshops of the cellar area, and ten 55-gallon steel drums were noted in the vehicle storage area in the sub-cellar. The drums were partially deteriorated and were generally free of liquids.
- Oil staining and a saw cut in the concrete floor near the center of the sub-cellar vehicle storage area indicated a possible former underground storage tank (UST).
- Three earthen-floored rifle and pistol ranges were observed in the sub-cellar, and were suspected to contain elevated concentrations of lead from spent munitions.
- Three New York State Department of Environmental Conservation (NYSDEC) spills are associated with the Site:
    - Spill Number 8802461 was reported in 1988 when a Fuel Oil No. 2 UST failed a tightness test. The regulatory database stated that the last of seven USTs were scheduled to be removed from the Site in August 2004, and the spill was closed on August 10, 2004.
    - Spill Number 9211568 was reported in 1993 when soil contamination from piping was detected during removal of a tank. The spill was closed on March 25, 2005.
    - Spill Number 9308016 was reported in 1993 when a diesel tank failure was reported during removal of the tank. According to the database entry, 100 yards of soil was stockpiled on the Site, and the spill remained open as of September 2006. Langan's research of NYSDEC's Spill Incidents Database website revealed that the spill was closed on June 3, 2008.
- Potentially hazardous materials, such as PCBs, asbestos, lead-based paint, lubricating oils, mold, and refrigerants, were associated with the cellar boiler unit and air conditioning units and construction materials throughout the structure.
- One 2,000-gallon fuel oil UST was reported to be in service at the adjacent property to the north along West 195th Street. Four USTs were reported to have been closed at the adjacent property in 1993, 1995, and 1999.

The Phase I ESA report recommended that additional sampling for asbestos, lead-based paint and PCB-containing materials be conducted at the property. The report also recommended the removal and proper disposal of the three ASTs, 55-gallon drums, petroleum products, earth floors of the rifle and pistol ranges, and deteriorating boiler and air conditioning equipment.

Phase II Environmental Site Assessment Report, Kingsbridge Armory, dated September 19, 2007; prepared by TRC Environmental Corporation

This Phase II ESA was conducted to investigate recognized environmental conditions identified in the Phase I ESA report. The report confirmed the presence of the three ASTs and stated that the AST on the drill hall floor still contained diesel fuel for an emergency generator that was no longer operable. Several empty 55-gallon drums with no evidence of potential release were observed in the vehicle storage area and suspect lead-based paint, PCB-containing light ballasts, asbestos-containing materials, and areas of mold growth were noted in the Armory. This report did not identify the saw cut area in the sub-cellar discussed in the September 2006 Phase I ESA.

The report summarized a geophysical survey conducted in August 2000. The survey identified:

(1) an abandoned fill port and vent pipe and a 12 by 15-ft area of removed pavement that are likely associated with a former UST along the western exterior of the Armory building;

(2) a 30 by 30-ft electromagnetic anomaly indicating a potential UST along the Armory's western exterior south of the aforementioned former UST; and

(3) two vent pipes and two areas of patched asphalt possibly associated with two USTs on the northwest portion of the site adjacent to the maintenance building (not included in the subject area for Langan's ESI).

TRC coordinated a follow-up geophysical survey during the Phase II ESA. The follow-up survey found no evidence of buried metal near the 12-ft by 15-ft saw-cut area, but noted a near-by fill pipe labeled with the word "Gasoline". The report noted that a guard booth had been constructed at the potential former UST location. The survey noted no indications of potential USTs at the 30 by 30-ft anomaly and suggested that the reinforced concrete area may be associated with the former reservoir pump house that was located west of the Armory building.

TRC's subsurface investigation included excavation of three test pits, advancement of 13 soil borings, and installation of four groundwater monitoring wells along the western portion of the property near the potential USTs. In addition, 18 soil samples were collected from the upper 1.5-ft depth interval in the pistol and rifle ranges. TRC reported the following:

Test Pits near Maintenance Building

- Although this area is not part of the project Site, the environmental issues identified may impact project Site conditions. Test pit excavations confirmed two abandoned USTs west of the maintenance building. The tanks appeared to have been cut open and filled with sand and gravel. Organic vapors indicative of petroleum impacts were not reported in the sand and gravel and rain water that had accumulated within the former USTs. The report noted that the tanks were likely the 3,000-gallon diesel and 2,000-gallon gasoline USTs that were closed in September 1993, discussed in the Phase I ESA.

Soil Samples West of the Armory Building

- Slightly elevated organic vapor concentrations were detected in two borings on the northwest portion of the property west of the maintenance building near the former USTs.
- Semi-volatile organic compounds (SVOCs) and metals (beryllium, chromium, copper, iron, nickel, and zinc) were detected at concentrations above NYSDEC Technical and Administrative Guidance Memorandum (TAGM) 4046 recommended soil cleanup objectives (RSCOs) in multiple soil samples collected from the western portion of the Site. Based on the absence of coincident field indications of contamination at these locations, TRC concluded that the SVOC detections are likely associated with urban fill conditions at the Site.
- Volatile organic compounds (VOCs), PCBs, and pesticides were not detected in soil samples at concentrations that exceeded TAGM RSCOs.

Groundwater Samples West of the Armory Building

- One VOC, hexachlorobutadiene, was detected at a concentration above the NYSDEC Technical and Operational Guidance Series (TOGS) Ambient Water Quality Standards in a groundwater sample collected from the well located adjacent to the former gasoline UST near the western exterior of the Armory. TRC noted that hexachlorobutadiene does not occur naturally in the environment, and is formed during the processing of other chlorinated compounds.
- Several metals (iron, magnesium, manganese, and sodium) were detected at concentrations that exceeded TOGS Class GA standards in each groundwater sample. TRC concluded that the metals are naturally occurring; therefore, the detections were likely attributable to background soil and bedrock conditions in the area.

- SVOCs were not detected in the groundwater samples, and field indications of petroleum impacts in groundwater were not observed during the investigation.

Soil Samples in the Shooting Ranges

- Twelve of the 18 soil samples collected from 15 locations contained lead concentrations that exceeded the TAGM typical urban background upper range of 500 mg/kg. In general, samples collected from nearer the soil berm or metal backstop in the rifle ranges exhibited higher lead concentrations.
- Eight of the 11 soil samples submitted for Toxicity Characteristic Leaching Procedure (TCLP) analysis for lead contained concentrations that exceeded the Resource Conservation and Recovery Act (RCRA) hazardous waste criterion.

The report stated that the former potential UST area west of the Armory at the present guard booth location may be the former location of a 225-gallon gasoline UST that was reported to be closed and removed from the Site in 1995, based on information provided in the Phase I ESA. Because existing information is insufficient to document the location of the gasoline UST and other USTs associated with historic spills at the Site, TRC recommended that NYSDEC and other regulatory records be researched for additional information regarding the tanks. TRC did not recommend additional soil or groundwater sampling near the former UST locations west of the Armory, unless requested by NYSDEC to close out open spills associated with the USTs; however, NYSDEC's Spill Incidents Database revealed that the only open spill discussed in the Phase I ESA was closed in June 3, 2008. Other open spills have not documented at the Site. TRC also recommended that the lead-impacted soil and deteriorated wooden timber wall in the pistol and rifle ranges be removed and disposed in accordance with appropriate hazardous waste management and disposal regulations.

***Draft Phase II ESI of Kingsbridge Armory,* November 6, 2008, prepared by Langan.**

The objective of this Phase II ESI investigation was to assess environmental remediation costs associated with proposed site development, including lead contamination in the former pistol and rifle ranges, historical fill material below the sub-cellar and western parking area, and former USTs in the western parking area and off-site maintenance area northwest of the Armory. The investigation consisted of the following:

- Geophysical survey in the western exterior parking area;
- 17 direct-push soil borings from which 23 soil samples were collected in the western parking area, sub-cellar, and pistol and rifle ranges.
- 10 test pits from which 10 soil samples were collected in the sub-cellar; and
- 3 monitoring wells from which 3 groundwater samples were collected in the sub-cellar.

Figure 2 shows the locations of the borings, monitoring wells, and test pits. The findings of the investigation revealed the following:

- The geophysical survey did not identify obvious indications of USTs. Signal interference precluded verification of the potential UST associated with the gasoline fill port discussed in TRC's report.
- Soil underlying the Site consists of historic fill comprised of sand with traces of silt, gravel, brick, and ash. The fill generally extends to depths of 4 ft to 7 ft below the cellar floor slab and about 19 ft below ground surface (bgs) in the western parking area. Weathered rock was encountered at 12 ft to 15 ft below the sub-cellar floor slab. Groundwater was encountered in the monitoring wells at depths of 4 ft to 6 ft below the sub-cellar floor slab.
- Elevated organic vapor concentrations, stained soil, and petroleum odors were observed in two test pits and one boring (MW-3) in the northwest portion of the sub-cellar. The impacted soil was observed at depths of between 2 ft and 12 ft below the floor slab.
- A petroleum odor and an elevated organic vapor reading were detected in soil collected from the 25 ft to 30 ft depth interval in one boring in the western parking area (LG-14).
- In general, soil samples exhibited concentrations of SVOCs and metals typical of historic urban fill and did not indicate a spill at the Site.
- Six of the 17 soil samples collected from the pistol and rifle ranges exhibited Toxicity Characteristic Leaching Procedure (TCLP) lead concentrations indicative of hazardous waste.
- Five VOCs and one SVOC (naphthalene) were detected at concentrations that exceeded the TOGS AWQS in the groundwater sample collected from well MW-3 in the northwest portion of the sub-cellar. Naphthalene was also detected at a concentration exceeding the TOGS AWQS in a groundwater sample collected from the western parking area (LB-16).

The report concluded that groundwater under the northwestern portion of the sub-cellar had been impacted with petroleum. Additional off-site groundwater sampling was recommended to determine whether the two historical USTs on the northern adjoining property were the source of the impacts.

***Supplemental Groundwater Investigation Report*, June 17, 2009, prepared by Langan**

Groundwater sampling was conducted on the National Guard property to evaluate the source of groundwater impacts in the northwestern portion of the sub-cellar in the Armory building. Langan installed a monitoring well (MW-4) south of a former UST and collected groundwater samples from existing monitoring wells (TRC-MW-3 on the National Guard property and MW-3

in the northwest portion of the Armory building). The field observations and analytical results of the investigation did not indicate the presence of an off-site spill associated with the decommissioned USTs on the National Guard property. Concentrations of VOCs and SVOCs in groundwater collected from the northwestern portion of the Armory building appeared to have attenuated to levels below regulatory standards. The locations of the off-site monitoring wells are shown in Figure 2.

2.5 Geology

Based on Langan's 2008 Geotechnical Investigation, the Site is underlain by historic fill material to depths of 7 to 25 ft below the top of pavement, which corresponds to el 125 to 105. Fill extended to a depth of 50 ft below sidewalk grade in a boring LB-1, which is located along the northern exterior of the Armory. The fill consists of brown, coarse- to fine-grained sand with silt, gravel, brick, and rock. Silty sand underlies the fill material at a thickness that varies from 3 to 37 ft. Decomposed rock, which is 2 to 17 ft thick, is located 9 ft to 50 ft below sidewalk grade. Bedrock consisting of grey mica gneiss was encountered at 9 ft to 58 below sidewalk grade ft (el 116 to el 73). According to the Bedrock and Engineering Geologic Maps of Bronx County and Parts of New York and Queens Counties, New York, by Charles A. Baskerville (1992), bedrock at the Site belongs to the Fordham Gneiss geologic unit. Rocks of the Fordham Gneiss are Proterozoic in age, and are typically harder than neighboring units due to the interlocking texture attributable to formation under high-grade (i.e., granulite) metamorphic conditions.

2.6 Hydrogeology

Based on groundwater level readings collected during the geotechnical investigation, Phase II ESI, and Phase II SESI, groundwater elevations generally range from about el 115 on the eastern portion of the Site to el 109 on the western portion of the Site. The depth to groundwater in observation wells that were installed on paved exterior areas at sidewalk grade ranged from 11.6 ft in LB-1 along the northern exterior of the building to 30.4 ft in LB-16 in the parking area near Reservoir Avenue. The depth to groundwater in the interior monitoring wells (MW-1 through MW-9) installed inside the sub-cellar ranged from 3.0 ft in MW-3 on the northwestern portion of the sub-cellar to 10.4 ft in MW-8 on the southwestern portion of the sub-cellar.

Groundwater elevation data indicates that groundwater at the Site flows towards the southwest, which generally conforms to the south-southwest sloping topographic gradient shown on the USGS Central Park, N.Y. Topographic Quadrangle Map, dated 1966 and revised in 1979. Groundwater flow in the fill may be influenced locally by underground structures (e.g., pipes, foundations, and buried structures). Groundwater in this area of New York City is not used as a potable (drinking) water source. The potable water supply is provided by the City of

New York and is derived from surface impoundments in the Croton, Catskill, and Delaware watersheds.

3.0 FIELD INVESTIGATION

Langan implemented the Phase II SESI activities between May 20 and 24, 2013. The scope of work was designed to:

- Investigate areas of potential soil disturbance during proposed development construction;
- Investigate potential impacts attributable to the adjoining National Guard property;
- Collect information and analytical data to facilitate selection of a remedial approach; and,
- Evaluate the need for remedial actions associated with the proposed future use of the Site.

The scope of work for the investigation consisted of:

- A geophysical survey to identify any subsurface anomalies, storage tanks, and utilities;
- Installation of 5 subsurface soil vapor points and collection of 5 soil gas samples and one ambient air (background) sample;
- Collection of 18 soil samples from 9 environmental borings to assess soil conditions and potential health and safety issues regarding soil disturbance during the proposed site renovation; and
- Installation and sampling of 5 temporary groundwater monitoring wells and sampling of 2 existing permanent monitoring wells in order to assess site groundwater conditions;

3.1 Geophysical Survey

On May 14, 2013, NOVA Geophysical & Environmental, Inc. (NOVA) of Douglaston, New York completed geophysical surveys under the supervision of a Langan field engineer. The surveys used ground penetrating radar (GPR), electromagnetic (EM) detectors, and comprehensive subsurface utility (CSUL) locators to locate and identify current and former utility lines, anomalies, underground storage tanks (USTs), subsurface structures, and to clear and mark proposed boring locations at the project Site. Borings were relocated as necessary to avoid subsurface utilities and anomalies.

3.2 Soil Sampling Procedures

On May 20 and 21, 2013, environmental samples were collected from nine borings (MW-5 through MW-10 and LG-19 through LG-21) to assess soil conditions with respect to current and

historic Site usages. The borings were completed by Laurel Environmental Associates, Ltd. (Laurel) of Huntington Station, New York, using Geoprobe 6610DT and 7822DT track-mounted drill rigs. Environmental borings were advanced to depths of 8 to 35 feet bgs. A Langan engineer was on Site during all drilling activities. Soil boring locations are shown on Figure 2.

Soil samples were collected continuously throughout each environmental boring to termination depths with a 2-inch diameter Macro-Core® sampler. Soil samples retrieved from each boring were visually classified for soil type, grain size, and texture. Each soil sample was also inspected for visual and olfactory evidence of contamination and screened for total organic vapors using a photoionization detector (PID) equipped with a 10.6 electron volt (eV) lamp. Soil boring logs are provided in Appendix A.

Two soil samples were collected for laboratory analysis from each boring: one sample from the upper two-foot depth interval and one sample from the depth interval exhibiting the greatest degree of contamination based on field observations. In the event that no contamination was observed, the second sample was collected from the depth interval immediately above the groundwater interface. Soil samples were collected in laboratory-supplied containers and shipped under chain-of-custody protocol to York Analytical, Inc. (York), a New York State Department of Health (NYSDOH) Environmental Laboratory Accreditation Program (ELAP)-certified laboratory in Stamford, Connecticut. Soil samples were analyzed for NYSDEC Part 375 list VOCs with MTBE per EPA Method 8260B (utilizing En Core® collection method), SVOCs per EPA Method 8270C, PCBs per EPA Method 8082, and target analyte list (TAL) metals per EPA Method 6020/7000 Series. The shallow soil samples were also analyzed for pesticides via EPA Method 8081.

3.3 Groundwater Sampling Procedures

In order to assess groundwater conditions at the Site, five borings were completed as temporary groundwater monitoring wells (MW-6 through MW-10). A sixth temporary groundwater monitoring well (MW-5) was planned but could not be installed due to refusal at bedrock encountered above the groundwater table. The wells were installed at depths ranging from approximately 15 to 35 feet bgs (el 106.2 to 104.4). Monitoring wells were constructed with 1-inch inner diameter (ID), threaded flush-joint, polyvinyl chloride (PVC) casings and screens, with 10 feet of 0.02 in slotted screen. Clean sand was used to backfill the area around the screen to approximately 2 feet above the screen. Well Construction Logs are provided in Appendix B.

Following installation, the monitoring wells were developed using a peristaltic pump such that a minimum of three well volumes were purged and the discharge was visibly free of silt or fine sand.

After development, the monitoring wells were purged and sampled using low-flow purging techniques to minimize drawdown. In addition to sampling the five temporary groundwater wells, existing groundwater monitoring wells MW-3 (installed in 2008) and TRC-MW-3 (installed in 2007) were sampled. Sampling for existing monitoring well MW-4 (installed in 2009) was proposed; however, the well was not sampled due to lack of access. Prior to sampling, the monitoring wells were purged using a peristaltic pump and dedicated, disposable polyethylene tubing. During purging, the turbidity, pH, temperature, conductivity, Redox potential, and dissolved oxygen of the groundwater were monitored using a Horiba U-52 Water Quality meter with a flow-through cell. The groundwater was purged until the water quality parameters were stable and the turbidity was below 50 Nephelometric Turbidity Units (NTU). The monitored parameters were recorded on the Well Development and Sampling Logs provided in Appendix C.

After purging the wells, a groundwater sample was collected from each well in laboratory-supplied containers with appropriate preservatives and shipped under chain-of-custody protocol to York. Groundwater samples were analyzed for NYSDEC Part 375 list VOCs with MTBE per EPA Method 8260B, SVOCs per EPA Method 8270C, PCBs per EPA Method 8082, and TAL metals per EPA Method 6020/7000 Series. All groundwater samples except for MW-8 were also analyzed for pesticides via EPA Method 8081.

3.4 Soil Vapor Sampling Procedures

In order to assess soil vapor conditions and evaluate the potential for vapor intrusion at the Site, five soil vapor points (SV-1 though SV-5) were installed (see Figure 2). The soil vapor points were installed by Laurel under the full time supervision of a Langan field engineer. The sampling was conducted in accordance with the October 2006 NYSDOH Guidance for Evaluating Soil Vapor Intrusion in the State of New York.

Five indoor sub-slab soil vapor points were installed at a depth of approximately 1 ft bgs. At each sub-slab location, dedicated polyethylene tubing was inserted into each boring. The annulus around the probe/tubing was backfilled with a sand filter and sealed with hydrated bentonite. Soil vapor logs are included as Appendix D.

As a quality assurance/quality control (QA/QC) measure, an inert tracer gas (helium) was introduced into an above-grade sampling chamber to ensure that the soil vapor sampling points

were properly sealed above the target sampling depth thereby preventing sub-surface infiltration of ambient air. The sample chamber was sealed above the sample point with hydrated bentonite. Each soil vapor point was purged using a PID at a rate of 0.5 liters per minutes (L/min) to evacuate a minimum of three tubing volumes prior to sample collection. Soil vapor samples were then collected into laboratory-supplied, batch-certified 6-Liter Summa® canisters that were calibrated for a sampling rate of two hours per sample. The canisters were properly labeled and transported via courier to York following standard chain-of-custody protocols. Samples were analyzed for VOCs via EPA Method TO-15.

One indoor ambient air sample (KIC_AA) sample was collected for QA/QC.

4.0 OBSERVATIONS AND RESULTS

4.1 Geophysical Survey

The geophysical surveys did not identify anomalies consistent with USTs at the Site. Several scattered minor anomalies were observed throughout the surveyed areas and near some of the proposed boring locations. Boring locations were adjusted prior to drilling to avoid subsurface utilities and anomalies.

4.2 Subsurface Observations

Surface cover at the Site is primarily concrete. General sub-surface conditions encountered during the Phase II ESI included:

- Fill material, predominantly consisting of grey and brown to dark brown, fine- to coarse-grained sand with some silt, gravel, brick, concrete, weathered rock, and small rock fragments was identified in the borings through a depth of approximately 6 to 20 ft bgs (el 123.7 to 109.8). The fill layer is underlain by primarily brown fine to coarse sands with some silt and sandy silts. Petroleum-related odors, staining, and PID readings greater than background levels were not observed in any of the borings.

- Bedrock was observed underlying the native silt and sand layer at boring locations MW-5 and LG-20 at depths of approximately 8 ft bgs (el. 111.8) and 27.5 ft bgs (el 110.3), respectively.

- Groundwater was encountered at depths of approximately 9 to 30 ft bgs (el 110.6 to 108.7). Inferred groundwater flow direction is southwest.

4.3 Analytical Results

4.3.1 Soil Sample Results

Soil samples analytical results were compared to the NYSDEC Title 6 of the official compilation of New York Codes, Rules and Regulations (6 NYCRR) Part 375 Unrestricted Use and Restricted Commercial-Use Soil Cleanup Objectives (SCOs). Soil samples analytical detections are summarized in Table 1 and are shown on Figure 3. A complete copy of the laboratory report is included in Appendix E. The following is a summary of detections and exceedances of applicable Unrestricted and Restricted Commercial-Use SCOs:

VOCs

Four VOCs (2-butanone, acetone, bromomethane, and methylene chloride) were detected in one or more soil samples.

No VOCs were detected at concentrations exceeding their respective Unrestricted or Restricted Commercial-Use SCOs in soil samples.

SVOCs

Multiple SVOCs were detected in one or more soil samples; however, SVOCs were detected at concentrations exceeding their respective Unrestricted Use SCOs in only one soil sample (LG-19 [0-2]) collected from 0 to 2 ft bgs in boring LG-19. There were no SVOC detections above the applicable SCOs in the duplicate sample (DUP-1 (052113)) of soil sample LG-19 (0-2). The following SVOCs exceeded their respective Unrestricted Use SCOs:

- Benzo(a)pyrene (1 mg/kg[1]) – 1.04 mg/kg
- Benzo(k)fluoranthene (1 mg/kg) – 1.05 mg/kg
- Indeno(1,2,3-cd)pyrene (0.5 mg/kg) – 0.597 mg/kg

An SVOC was detected at a concentration exceeding its respective Restricted Commercial-Use SVOC in only one soil sample (LG-19 [0-2]) for benzo(a)pyrene at 1.04 mg/kg. There were no SVOC detections above the Restrictive Commerical-Use SCO in the duplicate sample (DUP-1 [052113]) of soil sample LG-19 (0-2).

[1] Part 375 Unrestricted Use SCOs shown in parentheses following analyte name

Metals

Eighteen metals were detected in soil samples collected at the Site, including five metals detected at concentrations exceeding their respective Unrestricted Use SCOs:

- Barium (350 mg/kg) - 558 mg/kg in MW-7 (1-5)
- Copper (50 mg/kg) – 50.1 mg/kg in MW-7 (1-5)
- Chromium (30[1] mg/kg)
    - 31.7 mg/kg in LG-20 (0-2); and
    - 32.9 mg/kg in LG-21 (20-22)
- Lead (63 mg/kg)
    - 134 mg/kg in MW-6 (0-2);
    - 392 mg/kg in MW-7 (1-5);
    - 155 mg/kg in MW-8 (0.5-2.5);
    - 79.5 mg/kg in MW-9 (0-2); and
    - 143 in DUP-1 (052113) (duplicate of sample LG-19 (0-2))
- Nickel (30 mg/kg) – 30.7 mg/kg in MW-10 (1-3)
- Zinc (109 mg/kg) – 112 mg/kg in MW-6 (0-2); 501 mg/kg in MW-7 (1-5); and 203 mg/kg in MW-8 (0.5-2.5)

One metal was detected at a concentration exceeding its Restricted Commercial-Use SCO:

- Barium (400 mg/kg) - 558 mg/kg in MW-7 (1-5)

PCBs

There were no PCB detections in the soil samples.

Pesticides

Only the shallow soil samples from each soil boring were analyzed for pesticides. Pesticides were detected but none exceeded their respective Unrestricted or Restricted Commercial-Use SCOs.

[1] Unrestricted Use SCO criteria (30 mg/kg) is for Trivalent Chromium

4.3.2 Groundwater Results

Groundwater analytical results were compared to NYSDEC Technical and Operational Guidance Series (TOGS) 1.1.1 Ambient Water Quality Standards (AWQS) and Guidance Values for Class GA water (drinking water). The analytical results for groundwater are summarized in Table 2 and presented on Figure 4. The table and figure provide results for each compound and highlight the results that are above TOGS AWQS or Guidance Values for drinking water. The analytical results of the groundwater samples are summarized as follows:

VOCs

Bromomethane and methylene chloride were the only VOCs detected in groundwater throughout the Site. Only one VOC, methylene chloride, a common laboratory artifact, was detected at concentrations exceeding its TOGS AWQS or Guidance Value. Methylene Chloride exceedances were detected in all samples including the field blank sample.

SVOCs

Bis(2-ethylhexyl)phthalate was the only SVOCs detected in groundwater throughout the Site, however it did not exceed its respective TOGS AWQS or Guidance Value in any groundwater samples.

Metals

Fifteen metals were detected in groundwater samples. The following is a summary of the three metals that exceeded their respective NYSDEC TOGS Class GA AWQS and GV:

- Iron (300 µg/l)
  - 529 µg/l in MW-6;
  - 4,060 µg/l in MW-7;
  - 1,450 µg/l in the duplicate of sample MW-7

- Manganese (300 µg/l)
  - 352 µg/l in MW-6;
  - 351 µg/l in MW-7;
  - 343 µg/l in the duplicate of sample MW-7;
  - 1,660 µg/l in MW-8;
  - 315 µg/l in MW-9; and
  - 706 µg/l in MW-10

- Sodium (20,000 µg/l)
    - 124,000 µg/l in MW-3;
    - 47,200 µg/l in MW-6;
    - 53,200 µg/l in MW-7;
    - 53,800 µg/l in the duplicate of sample MW-7;
    - 59,500 µg/l in MW-8;
    - 71,400 µg/l in MW-9;
    - 332,000 µg/l in MW-10; and
    - 326,000 µg/l in TRC-MW-3.

Pesticides and PCBs

Pesticides and PCBs were not detected in any of the groundwater samples.

4.3.3 Soil Vapor Results

New York State currently does not have standards, criteria, or guidance values for concentrations of VOCs in sub-surface soil vapor. Therefore, analytical results for soil vapor samples were compared to:

- NYSDOH Air Guideline Values (AGVs) for methylene chloride, tetrachloroethene (PCE), and trichloroethene (TCE);
- NYSDOH Decision Matrix 1 and 2 that address PCE, TCE, 1,1,1-trichloroethane (1,1,1-TCA), and carbon tetrachloride; and
- Background levels of VOCs in indoor air presented in Appendix C of the NYSDOH Guidance, including Upper Fence Limit Indoor Air Values from;
    - "Table C-1 NYSDOH 2003: Study of Volatile Organic Chemicals in Air of Fuel Oil Heated Homes,"
    - 90th Percentile indoor air values from "Table C-2 - EPA 2001: Building Assessment and Survey Evaluation (BASE) Database, SUMMA canister method", and
    - the 95th Percentile Indoor Air Values from "Table C-5, Health Effects Institute (HEI) 2005: Relationship of Indoor, Outdoor and Personal Air".

The analytical results for soil vapor and ambient air are summarized in Table 3 and shown in Figure 5. The following VOCs were reported at concentrations that exceeded the range of specified background concentrations:

- n-Hexane
- Trichloroethylene (TCE)
- Tetrachloroethylene (PCE)

NYSDOH AGV Results

- Methylene chloride and PCE were not detected at concentrations exceeding NYSDOH AGV in any of the sub-slab soil vapor samples.
- TCE was detected at a concentration of 400 micrograms per cubic meter (µg/m³) in sample SV-4, exceeding the NYSDOH AGV of 5 µg/m³.

The soil vapor sample results were also compared to Decision Matrices 1 and 2 in the NYSDOH Soil Vapor Intrusion Guidance. The matrices address the compounds tetrachloroethene (PCE), trichloroethene (TCE), 1,1,1-trichloroethane (1,1,1-TCA), and carbon tetrachloride.

Decision Matrix 1 (TCE and carbon tetrachloride)

- The indoor air TCE concentration was 0.18 µg/m^3.
    - TCE was detected at a concentration of 400 µg/m^3 at SV-4, exceeding its AGV of 5 µg/m^3. Matrix 1 recommends mitigation for sub-slab TCE concentrations >250 µg/m^3 for all indoor air TCE concentrations.
    - TCE was not detected in samples taken from SV-1, SV-2, SV-3, and SV-5. Matrix 1 recommends no further action for sub-slab TCE concentrations <50 µg/m^3 for indoor air TCE concentrations <0.25 µg/m^3.
- The indoor air carbon tetrachloride concentration was 0.47 µg/m^3.
    - Carbon tetrachloride was not detected in any of the sub-slab soil vapor samples. Matrix 1 recommends reasonable and practical actions to identify sources and reduce exposures for indoor air concentrations between 0.25 and 1 µg/m^3.

Decision Matrix 2 (PCE and 1,1,1-TCA)

- The indoor air PCE concentration was 3.7 µg/m^3.
    - PCE was detected at concentrations less than 100 µg/m^3 at all soil vapor points. For indoor air PCE concentrations between 3 and 30 µg/m^3 and sub-slab PCE concentrations less than 100 µg/m^3, Matrix 2 recommends reasonable and practical actions to identify sources and reduce exposures.
- 1,1,1-TCA concentration was not detected in the indoor air sample.
    - 1,1,1-TCA was not detected in any of the soil vapor samples. Matrix 2 recommends no further action for indoor air concentrations less than 3 µg/m^3 and sub-slab concentrations less than 100 µg/m^3.

5.0 CONCLUSIONS

Based on the findings of the Phase II SESI, we conclude the following:

- The subsurface at the Site consists of historic fill material underlain by silt and sand above bedrock, which is also consistent with prior investigations. The historic fill layer is predominantly comprised of fine to coarse sand with some silt, gravel, weathered rock, and rock fragments. Historic fill was generally observed up to approximately 20 ft bgs at the outdoor sidewalk-grade boring locations and 8 ft bgs at the indoor basement boring locations.

- No evidence of petroleum impacts was observed based on visual, olfactory, and PID readings.

- Groundwater was encountered between approximately 3 and 30 ft bgs (el 112 to 109) at the Site, with a presumed southwesterly flow.

- Anomalies consistent with utilities, building remnant structures, and urban fill were detected on Site; however, no geophysical anomalies indicative of USTs were identified in surveyed areas.

- Site soils were found to contain SVOCs and metals that are consistent with typical historic fill concentrations.

- Site groundwater was found to contain one VOC and three metals at concentrations above NYSDEC TOGS Class GA AWQS and GVs. However, the presence of methylene chloride, the VOC, is likely not representative of actual groundwater conditions since it is a common laboratory contaminate and it was detected at a similar concentration in the field blank sample, which indicates that the laboratory-supplied deionized water used to perform the field blank may have been contaminated.

- Three VOCs were detected above NYSDOH background levels in soil gas, including PCE and TCE. TCE was detected at a concentration above its AGV of 5 $\mu g/m^3$ in one of the soil vapor samples. TCE was not detected in soil and groundwater samples collected during the SESI.

6.0 LIMITATIONS

This Phase II SESI report was prepared expressly for Kingsbridge National Ice Center ("the Client") for the Site (29 West Kingsbridge Ave. in the Bronx, New York) in support of the

proposed development at the Site. Langan cannot assume responsibility for the use of this Report for any property other than the specific site addressed in this report, or by any third party without specific written authorization from Langan.

The conclusions, opinions, and recommendations provided in this report are based on subsurface conditions ascertained from the analysis of a limited number of samples and from environmental reports prepared by other professionals that were provided by "the Client". Recommendations provided are contingent upon one another and no recommendation should be followed independent of the others. Actual conditions encountered may differ substantially from those presented herein and should be brought to our attention whereby we may determine how such changes may affect our conclusions, opinions, and recommendations.

TABLES

Table 1
Soil Sample VOCs, SVOCs, Metals, Pesticides, and PCBs Detections Summary
Phase II Supplemental Environmental Site Investigation
29 West Kingsbridge Road, Bronx, NY
Langan Project No. 170246501

Sample ID Lab ID Sampling Date DilutionFactor	NYSDEC Part 375 Restricted Use Comercial SCO	NYSDEC Part 375 Unrestricted Use SCO	MW-5 (0-2) 13E0744-01 5/21/2013 5		MW-5 (6-8) 13E0744-02 5/21/2013 1		MW-6 (0-2) 13E0711-05 5/20/2013 5		MW-6 (9-11) 13E0711-06 5/20/2013 1		MW-7 (1-5) 13E0711-01 5/20/2013 5		MW-7 (7-9) 13E0711-02 5/20/2013 1		MW-8 (0.5-2.5) 13E0711-07 5/20/2013 5		MW-8 (7.5-9.5) 13E0711-08 5/20/2013 1		MW-9 (0-2) 13E0711-03 5/20/2013 5		MW-9 (6-8) 13E0711-04 5/20/2013 1	
VOC (mg/kg)																						
2-Butanone	500	0.12	0.0027	U	0.0027	U	0.003	U	0.0027	U	0.0035	U	0.0024	U	0.0029	U	0.0027	U	0.0026	U	0.0026	U
Acetone	500	0.05	0.0029	J,B	0.004	J,B	0.003	U	0.0027	U	0.0035	U	0.0024	U	0.0029	U	0.0027	U	0.0026	U	0.0026	U
Bromomethane	~	~	0.0027	U	0.0027	U	0.003	U	0.011		0.019		0.0024	U	0.012		0.0059		0.0026	U	0.0065	
Methylene chloride	500	0.05	0.0063	J	0.0054	J	0.014		0.017		0.022		0.011		0.016		0.016		0.014		0.015	
SVOC (mg/kg)																						
Acenaphthene	500	20	0.0706	U	0.067	U	0.0971	U	0.107	U	0.496	U	0.0993	U	0.0971	U	0.107	U	0.0999	U	0.108	U
Anthracene	500	100	0.106	U	0.101	U	0.146	U	0.161	U	0.749	U	0.15	U	0.146	U	0.161	U	0.151	U	0.163	U
Benzo(a)anthracene	5.6	1	0.0729	U	0.0693	U	0.243	J	0.11	U	0.554	J,D	0.103	U	0.57		0.11	U	0.361		0.112	U
Benzo(a)pyrene	1	1	0.0772	U	0.0733	U	0.326		0.117	U	0.729	J,D	0.109	U	0.689		0.117	U	0.447		0.118	U
Benzo(b)fluoranthene	5.6	1	0.163	U	0.155	U	0.225	U	0.247	U	*1.15*	U	0.23	U	0.505		0.247	U	0.421		0.251	U
Benzo(g,h,i)perylene	500	100	0.0648	U	0.0615	U	0.0891	U	0.0977	U	0.455	U	0.091	U	0.0896	J	0.0977	U	0.105	J	0.0993	U
Benzo(k)fluoranthene	56	0.8	0.195	U	0.185	U	0.29		0.294	U	*1.37*	U	0.274	U	0.617		0.294	U	0.369		0.299	U
Chrysene	56	1	0.0897	U	0.0852	U	0.312		0.135	U	0.655	J,D	0.126	U	0.633		0.135	U	0.404		0.138	U
Fluoranthene	500	100	0.114	U	0.109	U	0.362		0.172	U	1.04	J,D	0.161	U	0.941		0.173	U	0.622		0.175	U
Fluorene	500	30	0.0936	U	0.0889	U	0.129	U	0.141	U	0.658	U	0.132	U	0.129	U	0.141	U	0.132	U	0.144	U
Indeno(1,2,3-cd)pyrene	5.6	0.5	0.0889	U	0.0844	U	0.122	U	0.134	U	*0.625*	U	0.125	U	0.14	J	0.134	U	0.134	J	0.136	U
Phenanthrene	500	100	0.102	U	0.0967	U	0.167	J	0.154	U	0.941	J,D	0.143	U	0.667		0.154	U	0.424		0.156	U
Pyrene	500	100	0.0796	U	0.0755	U	0.486		0.12	U	1.3	J,D	0.112	U	1.2		0.12	U	0.803		0.122	U
Metals (mg/kg)																						
Aluminum	~	~	7490		12300		8150		5460		18700		9940		12700		8380		12200		9140	
Arsenic	16	13	2.33		2.95		3.66		6.06		6.39		2.65		4.65		3.09		3.39		3.99	
Barium	400	350	71.7		69		244		52.1		**558**		143		226		64.9		99.6		53.6	
Cadmium	9.3	2.5	0.117	U	0.111	U	0.107	U	0.118	U	1.17		0.11	U	0.107	U	0.118	U	0.11	U	0.12	U
Calcium	~	~	22100		3100		7170		9570		7470		2980		11200		5190		11200		10800	
Chromium	1500*	30*	20.4		23.4		25.6		13.4		25.1		17		19.7		13.6		25.4		23	
Cobalt	~	~	7.35		9.3		8.14		6.35		16.7		9.04		11.7		6.28		9.93		9.2	
Copper	270	50	16.7		16.5		29.6		12.7		**50.1**		12.9		27.6		9.68		26.7		20.9	
Iron	~	~	13900		22700	E	13900		10800		42500	E	16900		26100	E	17300		24100	E	16300	
Lead	1000	63	4.56		3.06		**134**		4.57		**392**		9.87		**155**		7.88		**79.5**		7.59	
Magnesium	~	~	13300		7840		5180		7160		11700		5410		6690		3000		6270		9030	
Manganese	10000	1600	340		332		210		286		432		215		321		115		267		219	
Nickel	310	30	17.4		15.7		21.4		23.6		24.3		15.8		21.5		16.5		20.9		21.2	
Potassium	~	~	3170		6600		2220		1500		12300		3820		5340		768		3010		2570	
Selenium	1500	3.9	0.585	U	0.753		0.537	U	0.588	U	0.548	U	0.548	U	1.39		0.78		0.552	U	0.598	U
Sodium	~	~	275	B	258	B	284		219		326		188		426		205		339		301	
Vanadium	~	~	23.8		41.2		27.4		18.2		64		36.6		47.9		18.3		36.8		35.3	
Zinc	10000	109	37		42.4		**112**		27.2		**501**		49.3		**203**		37.6		76.2		46.1	
Pesticides (mg/kg)																						
4,4'-DDE	62	0.0033	0.00193	U	NT		0.00266	U	NT		**0.00722**	D	NT		0.00266	U	NT		0.00273	U	NT	
4,4'-DDT	47	0.0033	0.00193	U	NT		0.00266	U	NT		**0.012**	D	NT		0.00266	U	NT		0.00273	U	NT	
PCBs (mg/kg)																						
Total PCBs	1	0.1	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
General Chemistry																						
% Solids	~	~	85.4		90		93.2		85		91.2		91.2		93.2		84.9		90.6		83.6	

Notes:
1. Soil sample analytical results are compared to the New York State Department of Environmental Conservation (NYSDEC) title 6 of the official compilation of New York Codes, Rules and Regulations (NYCRR) Part 375 Restricted Use Comercial and Unrestricted Use Soil Cleanup Objectives (SCO).
2. Only compounds with detections are shown in the table.
3. NYSDEC Part 375 Restricted Use Comercial SCO exceedances are highlighted.
4. NYSDEC Part 375 Unrestricted Use SCO exceedances are bolded.
4. Method Detection Limits (MDL) above NYSDEC Part 375 Restricted Use Comercial SCO standards are italicized.
5. VOC = Volatile organic compounds
6. SVOC = Semi-volatile organic compounds
7. PCB = Polychlorinated Biphenyls
8. mg/kg = miligrams per kilogram
9. ~ = this indicates that no regulatory limit has been established for this analyte
10. * = NYSDEC Part 375 Restricted Use Comercial SCO and Unrestricted Use SCO criteria (1500 and 30 mg/kg) are for Trivalent Chromium
11. ND = Not Detected
12. NT = Not Tested

Qualifiers:
B = Analyte found in the analysis batch blank
D = Result is from an analysis that required a dilution
E = Estimated value
J = Analyte detected at or above the MDL (method detection limit) but below the RL (Reporting Limit) - data is estimated
U = Analyte not detected at or above the level indicated

Table 1
Soil Sample VOCs, SVOCs, Metals, Pesticides, and PCBs Detections Summary
Phase II Supplemental Environmental Site Investigation
29 West Kingsbridge Road, Bronx, NY
Langan Project No. 170246501

Sample ID Lab ID Sampling Date DilutionFactor	NYSDEC Part 375 Restricted Use Comercial SCO	NYSDEC Part 375 Unrestricted Use SCO	MW-10 (1-3) 13E0744-07 5/21/2013 5		MW-10 (32-34) 13E0744-08 5/21/2013 1		LG-19 (0-2) 13E0744-09 5/21/2013 5		DUP-1 (052113) 13E0744-11 5/21/2013 5		LG-19 (26-28) 13E0744-10 5/21/2013 1		LG-20 (0-2) 13E0744-03 5/21/2013 5		LG-20 (22-24) 13E0744-04 5/21/2013 1		LG-21 (0-2) 13E0744-05 5/21/2013 5		LG-21 (20-22) 13E0744-06 5/21/2013 1	
VOC (mg/kg)																				
2-Butanone	500	0.12	0.0025	U	0.0031	U	0.0037	U	0.0031	U	0.0029	U	0.0027	U	0.0026	U	0.0025	U	0.0034	J
Acetone	500	0.05	0.0033	J,B	0.0044	J,B	0.0093	J	0.004	J,B	0.0041	J,B	0.0027	U	0.0042	J,B	0.0025	U	0.023	B
Bromomethane	~	~	0.0025	U	0.0031	U	0.0037	U	0.0031	U	0.0029	U	0.0027	U	0.0026	U	0.0025	U	0.0026	U
Methylene chloride	500	0.05	0.005	J	0.0088	J	0.0086	J,B	0.0055	J	0.0059	J	0.0058	J	0.0058	J	0.0046	J	0.0059	J
SVOC (mg/kg)																				
Acenaphthene	500	20	0.0674	U	0.0698	U	0.338	U	0.0699	U	0.0682	U	0.0663	U	0.0699	U	0.151	J	0.0692	U
Anthracene	500	100	0.102	U	0.105	U	0.509	U	0.105	U	0.103	U	0.1	U	0.11	J	0.296		0.104	U
Benzo(a)anthracene	5.6	1	0.23		0.0721	U	0.972	D	0.105	J	0.0705	U	0.0685	U	0.159	J	0.577		0.0777	J
Benzo(a)pyrene	1	1	0.238		0.0763	U	**1.04**	D	0.102	J	0.0746	U	0.0725	U	0.158	J	0.431		0.12	J
Benzo(b)fluoranthene	5.6	1	0.2		0.162	U	0.858	J,D	0.162	U	0.158	U	0.153	U	0.162	U	0.42		0.16	U
Benzo(g,h,i)perylene	500	100	0.159	J	0.064	U	0.569	J,D	0.0641	U	0.0626	U	0.0608	U	0.0857	J	0.234		0.0738	J
Benzo(k)fluoranthene	56	0.8	0.249		0.193	U	**1.05**	D	0.193	U	0.188	U	0.183	U	0.193	U	0.406		0.191	U
Chrysene	56	1	0.234		0.0887	U	0.988	D	0.102	J	0.0867	U	0.0843	U	0.155	J	0.505		0.088	U
Fluoranthene	500	100	0.404		0.113	U	1.55	D	0.204		0.11	U	0.107	U	0.39		1.04		0.112	U
Fluorene	500	30	0.0894	U	0.0925	U	0.448	U	0.0927	U	0.0905	U	0.0879	U	0.0927	U	0.129	J	0.0918	U
Indeno(1,2,3-cd)pyrene	5.6	0.5	0.167	J	0.0879	U	**0.597**	J,D	0.0881	U	0.086	U	0.0835	U	0.0881	U	0.267		0.0872	U
Phenanthrene	500	100	0.144	J	0.101	U	0.6	J,D	0.107	J	0.0984	U	0.0956	U	0.39		0.847		0.0998	U
Pyrene	500	100	0.28		0.0787	U	1.22	D	0.143	J	0.0769	U	0.0747	U	0.244		0.707		0.0956	J
Metals (mg/kg)																				
Aluminum	~	~	12100		4770		11100		14500		7220		14800		12600		15100		14200	
Arsenic	16	13	2.92		1.33		3.07		4.6		1.22		3.14		5.72		4.3		2.8	
Barium	400	350	72.4		41.1		110		89.6		45.2		81.6		102		81.5		140	
Cadmium	9.3	2.5	0.112	U	0.116	U	0.112	U	0.116	U	0.113	U	0.11	U	0.116	U	0.116	U	0.115	U
Calcium	~	~	5190		1200		9460		1940		1170		1120		1700		1590		2300	
Chromium	1500*	30*	27.4		11.5		26.6		28.7		12.2		31.7		25.9		28		32.9	
Cobalt	~	~	10.4		5.36		9.2		9.43		6.37		9.83		11.6		9.4		12.2	
Copper	270	50	30.7		10.9		35.4		18.6		10.8		22.1		26.8		17		35	
Iron	~	~	18700		10700		18200		20200		10200		20100		17500		20200		20500	
Lead	1000	63	35.8		3.85		58.7		**143**		3.74		6.44		22.5		51.7		8.18	
Magnesium	~	~	7530		2170		6320		5040		1950		4670		4120		5370		7080	
Manganese	10000	1600	307		188		292		443		202		417		223		380		274	
Nickel	310	30	**30.7**		13.6		23.6		25.2		14		25.1		21.5		23.2		25.4	
Potassium	~	~	2000		1150		2560		1040		1000		1720		1220		1010		2600	
Selenium	1500	3.9	0.559	U	0.78		0.559	U	1.25		0.671		0.549	U	0.872		0.578	U	1.07	
Sodium	~	~	195	B	320	B	203	B	123	B	183	B	151	B	249	B	144	B	274	B
Vanadium	~	~	34.1		15		32.6		31.8		14.5		33.5		29.4		31.6		51.9	
Zinc	10000	109	77.4		22.8		90		84.2		23.1		43.1		57.5		57.6		59.9	
Pesticides (mg/kg)																				
4,4'-DDE	62	0.0033	0.00184	U	NT		0.00185	U	0.00191	U	NT		0.00181	U	NT		0.00191	U	NT	
4,4'-DDT	47	0.0033	0.00184	U	NT		0.00185	U	0.00191	U	NT		0.00181	U	NT		0.00191	U	NT	
PCBs (mg/kg)																				
Total PCBs	1	0.1	ND		ND		ND		ND		ND		ND		ND		ND		ND	
General Chemistry																				
% Solids	~	~	89.5		86.5		89.4		86.3		88.4		91		86.3		86.5		87.1	

Notes:
1. Soil sample analytical results are compared to the New York State Department of Environmental Conservation (NYSDEC) title 6 of the official compilation of New York Codes, Rules and Regulations (NYCRR) Part 375 Restricted Use Comercial and Unrestricted Use Soil Cleanup Objectives (SCO).
2. Only compounds with detections are shown in the table.
3. NYSDEC Part 375 Restricted Use Comercial SCO exceedances are highlighted.
4. NYSDEC Part 375 Unrestricted Use SCO exceedances are bolded.
4. Method Detection Limits (MDL) above NYSDEC Part 375 Restricted Use Comercial SCO standards are italicized.
5. VOC = Volatile organic compounds
6. SVOC = Semi-volatile organic compounds
7. PCB = Polychlorinated Biphenyls
8. mg/kg = miligrams per kilogram
9. ~ = this indicates that no regulatory limit has been established for this analyte
10. * = NYSDEC Part 375 Restricted Use Comercial SCO and Unrestricted Use SCO criteria (1500 and 30 mg/kg) are for Trivalent Chromium
11. ND = Not Detected
12. NT = Not Tested

Qualifiers:
B = Analyte found in the analysis batch blank
D = Result is from an analysis that required a dilution
E = Estimated value
J = Analyte detected at or above the MDL (method detection limit) but below the RL (Reporting Limit) - data is estimated
U = Analyte not detected at or above the level indicated

Table 2
Groundwater Sample VOCs, SVOCs, Metals, Pesticides, and PCBs Detections Summary
Phase II Supplemental Environmental Site Investigation
29 West Kingsbridge Road, Bronx, NY
Langan Project No. 170246501

Location Sample ID Lab Sample ID Sampling Date	NYSDEC TOGS Standards and Guidance Values - GA	MW-3 MW-3_052313 13E0868-06 5/23/2013	MW-6 MW-6_052313 13E0868-04 5/23/2013	MW-7 MW-7_052313 13E0868-05 5/23/2013	DUP-1 DUP-1_052313 13E0868-02 5/23/2013	MW-8 MW-8_052313 13E0868-01 5/23/2013	MW-9 MW-9_052313 13E0868-03 5/23/2013	MW-10 MW-10_052313 13E0868-07 5/23/2013	TRC-MW-3 TRC-MW-3_052413 13E0868-08 5/24/2013	FB FB_052413 13E0868-09 5/24/2013
VOC (µg/l)										
Bromomethane	5	2.5 U	2.5 U	2.5 U	2.5 U	2.6 J	2.5 U	2.5 U	2.5 U	2.5 U
Methylene chloride	5	**7.2**	**6.2**	**7.3**	**5.6**	**7.6**	**6.3**	**5.9**	**6.1**	**7.2**
SVOC (µg/l)										
Bis(2-ethylhexyl)phthalate	5	0.64 J	0.943 J	0.571 U	0.789 J	0.861 J	0.496 U	0.628 U	0.523 U	0.496 U
Pesticides (µg/l)										
Pesticides	~	ND	ND	ND	ND	NT	ND	ND	ND	ND
PCB (µg/l)										
Total PCBs	0.09	ND	ND	ND	ND	ND	ND	ND	ND	ND
Metals (µg/l)										
Aluminum	~	10 U	259	1180	411	96	78	46	32	10 U
Barium	1000	255	79	165	143	90	72	66	60	2 U
Calcium	~	111000	87000	110000	110000	137000	103000	87700	82000	295
Chromium	50	2 U	2 U	2 J	2 U	2 U	2 U	2 U	2 U	2 U
Cobalt	~	2 J	2 J	2 J	2 U	2 U	2 U	2 U	2 U	2 U
Copper	200	12	2 J	10	8	2 J	2 U	2 J	2 J	2 U
Iron	300	52	**529**	**4060**	**1450**	144	211	22	77	10 J
Lead	25	4	2 J	4	3	2 J	3	7	4	4
Magnesium	35000	17000	26700	21000	20500	25500	25800	22300	21600	10 J
Manganese	300	293	**352**	**351**	**343**	**1660**	**315**	**706**	44	2 U
Nickel	100	7	6	1 J	1 J	1 J	1 J	6	1 U	1 U
Potassium	~	11000	13200	11500	11000	13100	12100	8280	7890	26 J
Sodium	20000	**124000**	**47200**	**53200**	**53800**	**59500**	**71400**	**332000**	**326000**	214
Vanadium	~	2 U	2 U	2 J	2 J	2 U	2 U	2 U	2 U	2 U
Zinc	2000	50	2 J	25	2 J	29	21	39	20	36

Notes:
1. Groundwater analytical results are compared to the New York State Department of Environmental Conservation (NYSDEC) Technical and Operational Guidance Series (TOGS) 1.1.1 Ambient Water Quality Standards (AWQS) and Guidance Values for Drinking Water (class GA).
2. Only compounds with detections are shown in the table.
3. NYSDEC TOGS 1.1.1 AWQS and Guidance Values exceedances are highlighted and bolded.
4. Method Detection Limits (MDL) above NYSDEC TOGS 1.1.1 AWQS and Guidance Values are italicized.
5. VOCs = Volatile organic compounds
6. SVOCs = Semi-volatile organic compounds
7. PCBs = Polychlorinated Biphenyls
8. µg/l = micrograms per liter
9. ~ = this indicates that no regulatory limit has been established for this analyte
10. ND = Not Detected
11. NT = Not Tested

Qualifiers:
J=analyte detected at or above the MDL (method detection limit) but below the RL (Reporting Limit) - data is estimated
U=analyte not detected at or above the level indicated

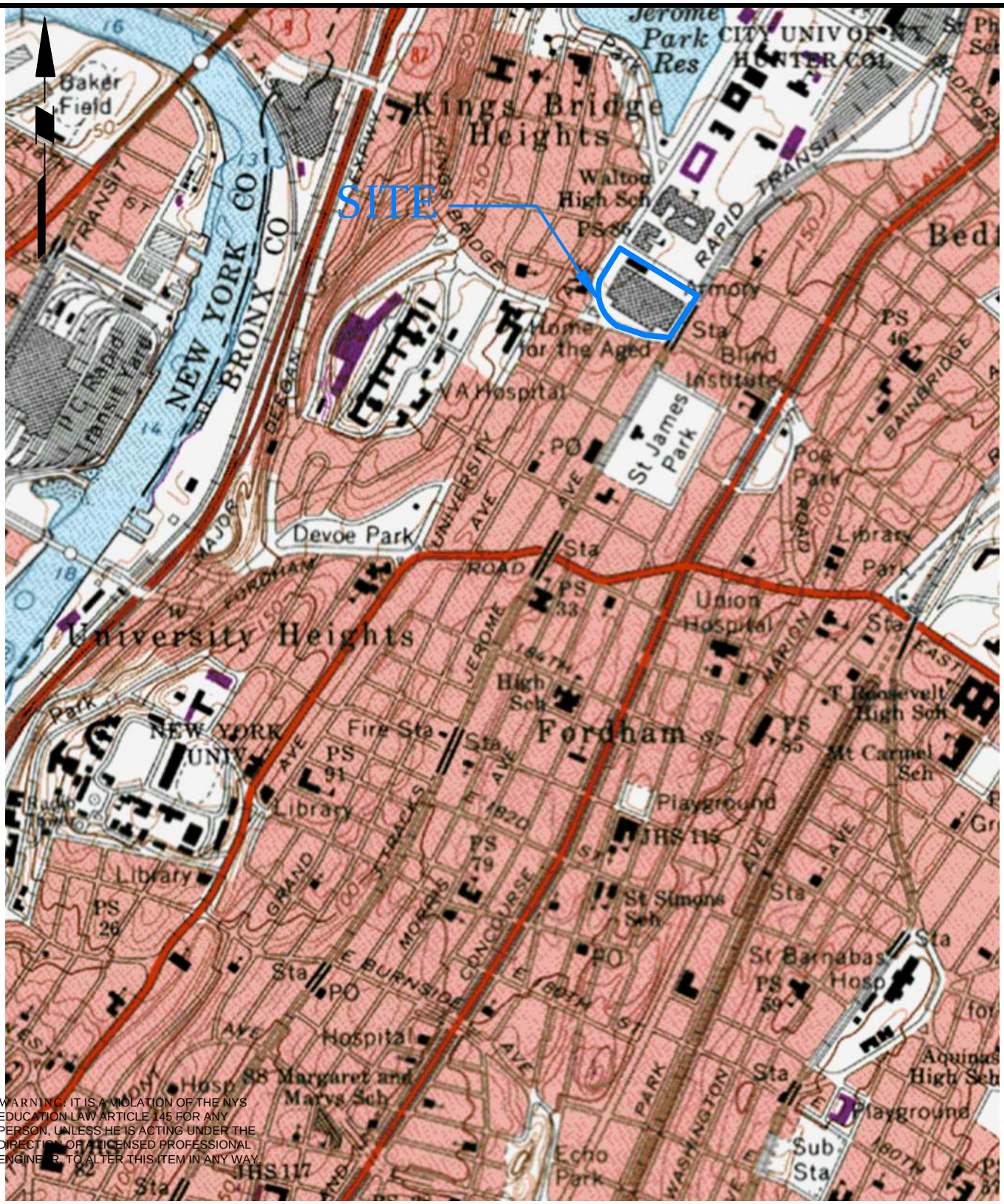
Table 3
Summary of Detected VOCs in Soil Vapor and Ambient Air Samples
29 West Kingsbridge Road
The Bronx, New York
Langan Project No. 170246501

Sample ID Lab ID Sampling Date DilutionFactor	NYSDOH AGV	NYSDOH 2003 FUEL OIL INDOOR AIR UPPER FENCE VALUE	EPA 2001 BASE DATABASE: 90 PERCENTILE	HEI 2005 95 PERCENTILE INDOOR AIR	SV-1 13E0710-01 5/20/2013 18.74		SV-2 13E0710-02 5/20/2013 20.16		SV-3 13E0710-03 5/20/2013 20.83		SV-4 13E0710-04 5/20/2013 17.38		SV-5 13E0710-05 5/20/2013 21		KIC_AA 13E0710-06 5/20/2013 0.66666	
VOCs (µg/m³)																
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	~	~	~	~	15	U	16	U	16	U	14	U	16	U	0.62	D
1,2,4-Trimethylbenzene	~	9.8	91	~	9.4	U	10	U	10	U	8.7	U	10	U	1.2	D
1,3,5-Trimethylbenzene	~	3.9	3.7	~	9.4	U	10	U	10	U	8.7	U	10	U	0.37	D
1,4-Dichlorobenzene	~	1.2	5.5	~	11	U	12	U	13	U	11	U	13	U	0.41	D
2-Butanone	~	16	12	~	5.6	U	6.0	U	6.2	U	5.2	U	6.3	U	1.4	D
Acetone	~	115	98.9	45.8	58	D	39	D	89	D	30	D	49	D	16	D
Benzene	~	13	9.4	10	6.1	U	6.6	U	6.8	U	5.6	U	6.8	U	2.0	D
Carbon tetrachloride	~	1.3	1.3	1.1	6.0	U	6.4	U	6.7	U	5.6	U	6.7	U	0.47	D
Cyclohexane	~	6.3	~	~	6.6	U	7.1	U	7.3	U	6.1	U	7.4	U	1.3	D
Dichlorodifluoromethane	~	10	6.8	~	9.4	U	10	U	10	U	8.7	U	11	U	2.7	D
Ethyl Benzene	~	6.4	5.7	7.62	8.3	U	8.9	U	9.2	U	7.7	U	9.3	U	1.7	D
Isopropanol	~	~	~	~	4.7	U	5.0	U	5.2	U	4.3	U	5.2	U	2.7	D
Methylene chloride	60	16	10	75	13	D	10	D	8.8	D	8.6	D	8.9	D	12	D
n-Heptane	~	~	~	~	47	D	45	D	38	D	43	D	51	D	0.28	U
n-Hexane	~	14	10.2	~	**120**	D	**110**	D	**110**	D	**120**	D	**130**	D	**24**	D
o-Xylene	~	7.1	7.9	7.24	8.3	U	8.9	U	9.2	U	7.7	U	9.3	U	1.8	D
p- & m- Xylenes	~	11	22.2	22.2	17	U	18	U	18	U	15	U	19	U	5.6	D
Tetrachloroethylene	100	2.5	15.9	6.01	13	U	14	U	14	U	**18**	D	14	U	3.7	D
Toluene	~	57	43	39.8	15	D	14	D	8.0	U	12	D	13	D	27	D
Trichloroethylene	5	0.5	4.2	1.36	5.1	U	5.5	U	5.7	U	**400**	D	5.7	U	0.18	U
Trichlorofluoromethane (Freon 11)	~	12	18.1	~	11	U	12	U	12	U	9.9	U	12	U	1.9	D

Notes:
1. Soil vapor samples analytical results are compared to the New York State Department of Health (NYSDOH) Air Guideline Value (AGV), the NYSDOH Fuel Oil 2003 Upper Fence Value, the US Environmental Protection Agency (EPA) Building Assessment and Survey Evaluation (BASE) Database 90th Percentile Indoor Air, and the Health Effects Institute (HEI) 2005 95th Percentile Indoor Air.
2. Only compounds with detections are shown in table.
3. NYSDOH AGV exceedances are highligted and bolded.
4. Results above all three specified background levels are bolded.
5. VOCs = Volatile Organic Compounds
6. µg/m^3 = micrograms per cubic meter
7. ~ = This indicates that no regulatory limit has been established for this analyte.

Qualifiers:
U = Analyte not detected at or above the level indicated
D = Result is from an analysis that required a dilution

FIGURES



WARNING: IT IS A VIOLATION OF THE NYS EDUCATION LAW ARTICLE 145 FOR ANY PERSON, UNLESS HE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS ITEM IN ANY WAY.

BASE MAP OBTAINED FROM THE UNITED STATES GEOLOGICAL SURVEY (USGS), TOPOGRAPHIC MAPS, CENTRAL PARK, NY QUADRANGLE, DATED 1979, AND WEEHAWKEN, NJ, NY QUADRANGLE, DATED 1967 AND REVISED 1981.

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KINGSBRIDGE ARMORY

BLOCK No. 3247, LOT No. 2

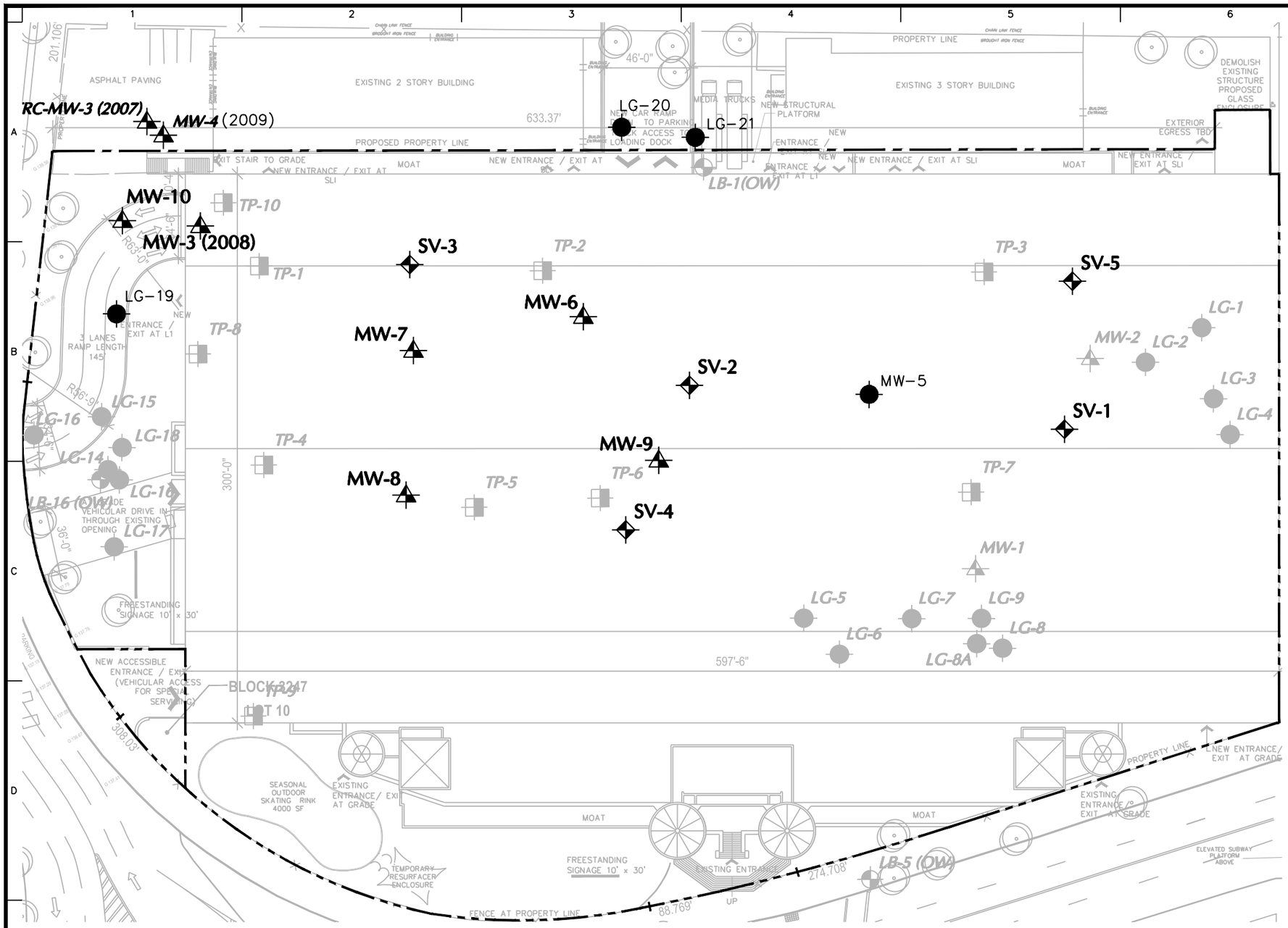
BRONX NEW YORK

SITE LOCATION MAP

Project No.	170246501
Date	JUNE 4, 2013
Scale	NTS
Drawn By	PM
Drawing No.	1

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REFERENCE:
BASE MAP FROM 2013 CONCEPTUAL SITE PLAN BY BBB ARCHITECTS

LEGEND

- SITE BOUNDARY
- LG-19 — BORING LOCATION
- MW-5 — TEMPORARY MONITORING WELL/ BORING LOCATION
- SV-1 — SOIL VAPOR SAMPLING POINT
- LB-1(OW) — 2008 OBSERVATION WELL
- LG-5 — 2008 GEOPROBE BORING
- MW-2 — 2008 / 2009 MONITORING WELL
- TP-6 — 2008 TEST PIT

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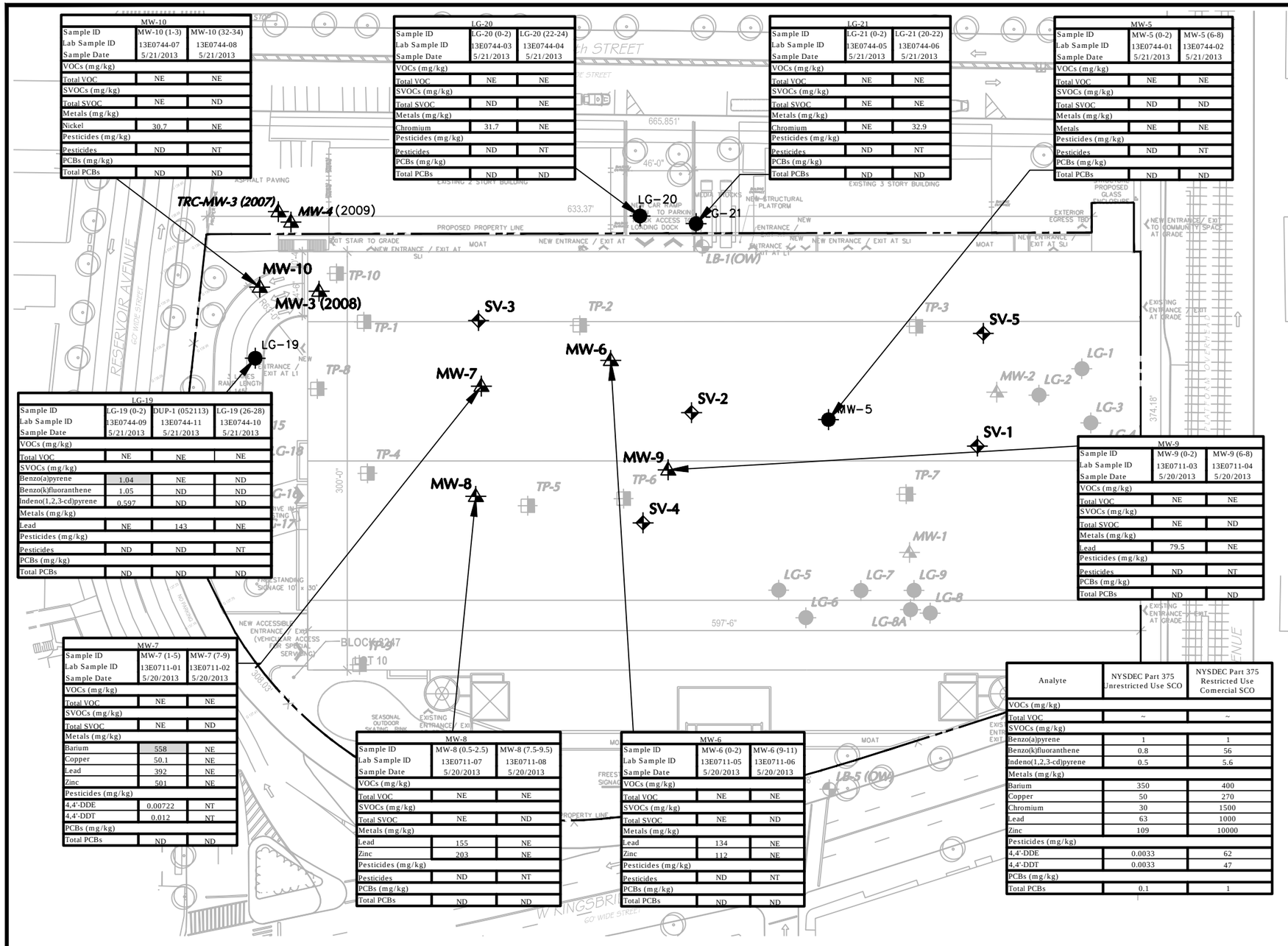
Project
KINGSBRIDGE ARMORY
BLOCK No. 3247, LOT No. 2
BRONX NEW YORK

Drawing Title
BORING AND MONITORING WELL LOCATION PLAN

Project No. 170246501	Drawing No. 2
Date MAY 28, 2013	
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MW-10		
Sample ID	MW-10 (1-3)	MW-10 (32-34)
Lab Sample ID	13E0744-07	13E0744-08
Sample Date	5/21/2013	5/21/2013
VOCs (mg/kg)		
Total VOC	NE	NE
SVOCs (mg/kg)		
Total SVOC	NE	ND
Metals (mg/kg)		
Nickel	30.7	NE
Pesticides (mg/kg)		
Pesticides	ND	NT
PCBs (mg/kg)		
Total PCBs	ND	ND

LG-20		
Sample ID	LG-20 (0-2)	LG-20 (22-24)
Lab Sample ID	13E0744-03	13E0744-04
Sample Date	5/21/2013	5/21/2013
VOCs (mg/kg)		
Total VOC	NE	NE
SVOCs (mg/kg)		
Total SVOC	ND	NE
Metals (mg/kg)		
Chromium	31.7	NE
Pesticides (mg/kg)		
Pesticides	ND	NT
PCBs (mg/kg)		
Total PCBs	ND	ND

LG-21		
Sample ID	LG-21 (0-2)	LG-21 (20-22)
Lab Sample ID	13E0744-05	13E0744-06
Sample Date	5/21/2013	5/21/2013
VOCs (mg/kg)		
Total VOC	NE	NE
SVOCs (mg/kg)		
Total SVOC	NE	NE
Metals (mg/kg)		
Chromium	NE	32.9
Pesticides (mg/kg)		
Pesticides	ND	NT
PCBs (mg/kg)		
Total PCBs	ND	ND

MW-5		
Sample ID	MW-5 (0-2)	MW-5 (6-8)
Lab Sample ID	13E0744-01	13E0744-02
Sample Date	5/21/2013	5/21/2013
VOCs (mg/kg)		
Total VOC	NE	NE
SVOCs (mg/kg)		
Total SVOC	ND	ND
Metals (mg/kg)		
Metals	NE	NE
Pesticides (mg/kg)		
Pesticides	ND	NT
PCBs (mg/kg)		
Total PCBs	ND	ND

LG-19			
Sample ID	LG-19 (0-2)	DUP-1 (052113)	LG-19 (26-28)
Lab Sample ID	13E0744-09	13E0744-11	13E0744-10
Sample Date	5/21/2013	5/21/2013	5/21/2013
VOCs (mg/kg)			
Total VOC	NE	NE	NE
SVOCs (mg/kg)			
Benzo(a)pyrene	1.04	NE	ND
Benzo(k)fluoranthene	1.05	ND	ND
Indeno(1,2,3-cd)pyrene	0.597	ND	ND
Metals (mg/kg)			
Lead	NE	143	NE
Pesticides (mg/kg)			
Pesticides	ND	ND	NT
PCBs (mg/kg)			
Total PCBs	ND	ND	ND

MW-9		
Sample ID	MW-9 (0-2)	MW-9 (6-8)
Lab Sample ID	13E0711-03	13E0711-04
Sample Date	5/20/2013	5/20/2013
VOCs (mg/kg)		
Total VOC	NE	NE
SVOCs (mg/kg)		
Total SVOC	NE	ND
Metals (mg/kg)		
Lead	79.5	NE
Pesticides (mg/kg)		
Pesticides	ND	NT
PCBs (mg/kg)		
Total PCBs	ND	ND

MW-7		
Sample ID	MW-7 (1-5)	MW-7 (7-9)
Lab Sample ID	13E0711-01	13E0711-02
Sample Date	5/20/2013	5/20/2013
VOCs (mg/kg)		
Total VOC	NE	NE
SVOCs (mg/kg)		
Total SVOC	NE	ND
Metals (mg/kg)		
Barium	558	NE
Copper	50.1	NE
Lead	392	NE
Zinc	501	NE
Pesticides (mg/kg)		
4,4'-DDE	0.00722	NT
4,4'-DDT	0.012	NT
PCBs (mg/kg)		
Total PCBs	ND	ND

MW-8		
Sample ID	MW-8 (0.5-2.5)	MW-8 (7.5-9.5)
Lab Sample ID	13E0711-07	13E0711-08
Sample Date	5/20/2013	5/20/2013
VOCs (mg/kg)		
Total VOC	NE	NE
SVOCs (mg/kg)		
Total SVOC	NE	ND
Metals (mg/kg)		
Lead	155	NE
Zinc	203	NE
Pesticides (mg/kg)		
Pesticides	ND	NT
PCBs (mg/kg)		
Total PCBs	ND	ND

MW-6		
Sample ID	MW-6 (0-2)	MW-6 (9-11)
Lab Sample ID	13E0711-05	13E0711-06
Sample Date	5/20/2013	5/20/2013
VOCs (mg/kg)		
Total VOC	NE	NE
SVOCs (mg/kg)		
Total SVOC	NE	ND
Metals (mg/kg)		
Lead	134	NE
Zinc	112	NE
Pesticides (mg/kg)		
Pesticides	ND	NT
PCBs (mg/kg)		
Total PCBs	ND	ND

Analyte	NYSDEC Part 375 Unrestricted Use SCO	NYSDEC Part 375 Restricted Use Comercial SCO
VOCs (mg/kg)		
Total VOC	~	~
SVOCs (mg/kg)		
Benzo(a)pyrene	1	1
Benzo(k)fluoranthene	0.8	56
Indeno(1,2,3-cd)pyrene	0.5	5.6
Metals (mg/kg)		
Barium	350	400
Copper	50	270
Chromium	30	1500
Lead	63	1000
Zinc	109	10000
Pesticides (mg/kg)		
4,4'-DDE	0.0033	62
4,4'-DDT	0.0033	47
PCBs (mg/kg)		
Total PCBs	0.1	1

LEGEND

- SITE BOUNDARY
- LG-19 — BORING LOCATION
- MW-5 — TEMPORARY MONITORING WELL/ BORING LOCATION
- SV-1 — SOIL VAPOR SAMPLING POINT
- LB-1(OW) — 2008 OBSERVATION WELL
- LG-5 — 2008 GEOPROBE BORING
- MW-2 — 2008 / 2009 MONITORING WELL
- TP-6 — 2008 TEST PIT

NOTES:

1. SOIL SAMPLE ANALYTICAL RESULTS ARE COMPARED TO THE NYSDEC TITLE 6 OF THE OFFICIAL COMPILATION OF NYCRR PART 375 UNRESTRICTED USE SOIL CLEANUP OBJECTIVES (SCO) AND RESTRICTED USE COMERCIAL SCO.
2. NYSDEC PART 375 UNRESTRICTED USE SCO EXCEEDANCES ARE BOLDED.
3. NYSDEC PART 375 RESTRICTED USE COMERCIAL SCO EXCEEDANCES ARE HIGHLIGHTED.
4. VOCs = VOLATILE ORGANIC COMPOUNDS
5. SVOCs = SEMIVOLATILE ORGANIC COMPOUNDS
6. PCBs = POLYCHLORINATED BIPHENYLS
7. mg/kg = MILLIGRAM PER KILOGRAM
8. ~ = THIS INDICATES THAT NO REGULATORY LIMIT HAS BEEN ESTABLISHED FOR THIS ANALYTE
9. ND = COMPOUNDS NOT DETECTED
10. NE = COMPOUNDS DID NOT EXCEED THEIR RESPECTIVE NYSDEC PART 375 UNRESTRICTED USE SCO
11. NT = NOT TESTED
12. DUP-1 (052113) IS A DUPLICATE SAMPLE OF LG-19 (0-2)

REFERENCE:
BASE MAP FROM 2013 CONCEPTUAL SITE PLAN BY BBB ARCHITECTS

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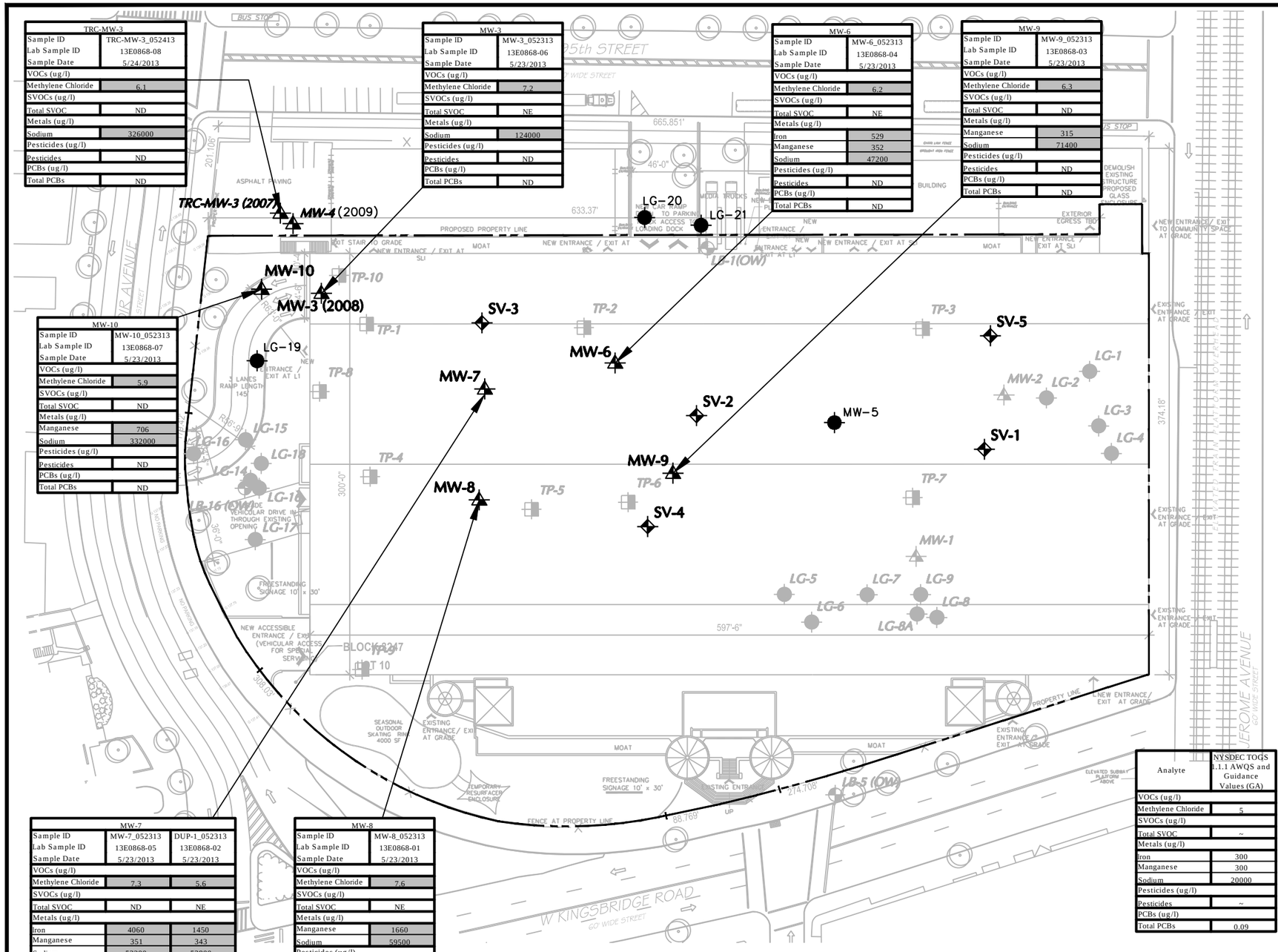
Project: KINGSBRIDGE ARMORY
BLOCK No. 3247, LOT No. 2
BRONX NEW YORK

Drawing Title: SOIL SAMPLE LOCATIONS AND RESULTS MAP

Project No. 170246501	Drawing No. 3
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TRC-MW-3	
Sample ID	TRC-MW-3_052413
Lab Sample ID	13E0868-08
Sample Date	5/24/2013
VOCs (ug/l)	
Methylene Chloride	6.1
SVOCs (ug/l)	
Total SVOC	ND
Metals (ug/l)	
Sodium	326000
Pesticides (ug/l)	
Pesticides	ND
PCBs (ug/l)	
Total PCBs	ND

MW-3	
Sample ID	MW-3_052313
Lab Sample ID	13E0868-06
Sample Date	5/23/2013
VOCs (ug/l)	
Methylene Chloride	7.2
SVOCs (ug/l)	
Total SVOC	NE
Metals (ug/l)	
Sodium	124000
Pesticides (ug/l)	
Pesticides	ND
PCBs (ug/l)	
Total PCBs	ND

MW-6	
Sample ID	MW-6_052313
Lab Sample ID	13E0868-04
Sample Date	5/23/2013
VOCs (ug/l)	
Methylene Chloride	6.2
SVOCs (ug/l)	
Total SVOC	NE
Metals (ug/l)	
Iron	529
Manganese	352
Sodium	47200
Pesticides (ug/l)	
Pesticides	ND
PCBs (ug/l)	
Total PCBs	ND

MW-9	
Sample ID	MW-9_052313
Lab Sample ID	13E0868-03
Sample Date	5/23/2013
VOCs (ug/l)	
Methylene Chloride	6.3
SVOCs (ug/l)	
Total SVOC	ND
Metals (ug/l)	
Manganese	315
Sodium	71400
Pesticides (ug/l)	
Pesticides	ND
PCBs (ug/l)	
Total PCBs	ND

MW-10	
Sample ID	MW-10_052313
Lab Sample ID	13E0868-07
Sample Date	5/23/2013
VOCs (ug/l)	
Methylene Chloride	5.9
SVOCs (ug/l)	
Total SVOC	ND
Metals (ug/l)	
Manganese	706
Sodium	332000
Pesticides (ug/l)	
Pesticides	ND
PCBs (ug/l)	
Total PCBs	ND

MW-7		
Sample ID	MW-7_052313	DUP-1_052313
Lab Sample ID	13E0868-05	13E0868-02
Sample Date	5/23/2013	5/23/2013
VOCs (ug/l)		
Methylene Chloride	7.3	5.6
SVOCs (ug/l)		
Total SVOC	ND	NE
Metals (ug/l)		
Iron	4060	1450
Manganese	351	343
Sodium	53200	53800
Pesticides (ug/l)		
Pesticides	ND	ND
PCBs (ug/l)		
Total PCBs	ND	ND

MW-8	
Sample ID	MW-8_052313
Lab Sample ID	13E0868-01
Sample Date	5/23/2013
VOCs (ug/l)	
Methylene Chloride	7.6
SVOCs (ug/l)	
Total SVOC	NE
Metals (ug/l)	
Manganese	1660
Sodium	59500
Pesticides (ug/l)	
Pesticides	NT
PCBs (ug/l)	
Total PCBs	ND

Analyte	NYSDEC TOGS 1.1.1 AWQS and Guidance Values (GA)
VOCs (ug/l)	
Methylene Chloride	5
SVOCs (ug/l)	
Total SVOC	~
Metals (ug/l)	
Iron	300
Manganese	300
Sodium	20000
Pesticides (ug/l)	
Pesticides	~
PCBs (ug/l)	
Total PCBs	0.09

80 0 40 80

SCALE IN FEET

REFERENCE:
BASE MAP FROM 2013 CONCEPTUAL SITE PLAN BY BBB ARCHITECTS

LEGEND

- SITE BOUNDARY
- LG-19 — BORING LOCATION
- MW-5 — TEMPORARY MONITORING WELL/ BORING LOCATION
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- LB-1(OW) — 2008 OBSERVATION WELL
- LG-5 — 2008 GEOPROBE BORING
- MW-2 — 2008 / 2009 MONITORING WELL
- TP-6 — 2008 TEST PIT

NOTES:

1. GROUNDWATER SAMPLE ANALYTICAL RESULTS ARE COMPARED TO THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION (NYSDEC) TECHNICAL AND OPERATIONAL GUIDANCE SERIES (TOGS) 1.1.1 AMBIENT WATER QUALITY STANDARDS (AWQS) AND GUIDANCE VALUES FOR DRINKING WATER (CLASS GA).
2. ONLY DETECTIONS ARE SHOWN.
3. NYSDEC TOGS 1.1.1 AWQS AND GUIDANCE VALUES EXCEEDANCES ARE HIGHLIGHTED AND BOLDED.
4. VOCs = VOLATILE ORGANIC COMPOUNDS
5. SVOCs = SEMIVOLATILE ORGANIC COMPOUNDS
6. PCBs = POLYCHLORINATED BIPHENYLS
7. ug/l = MICROGRAMS PER LITER
8. ~ = THIS INDICATES THAT NO REGULATORY LIMIT HAS BEEN ESTABLISHED FOR THIS ANALYTE
9. ND = COMPOUNDS NOT DETECTED
10. NE = COMPOUNDS DID NOT EXCEED THEIR RESPECTIVE NYSDEC TOGS 1.1.1 AWQS AND GUIDANCE VALUES
11. NT = NOT TESTED
12. DUP-1_052313 IS A DUPLICATE SAMPLE OF MW-7_052313

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Project
KINGSBRIDGE ARMORY
BLOCK No. 3247, LOT No. 2
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Drawing Title
GROUNDWATER SAMPLE LOCATIONS AND RESULTS MAP

Project No.	Drawing No.
170246501	4
Date: JUNE 2, 2013	
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SV-3	
Sample ID	SV-3
Lab Sample ID	13E0710-03
Sample Date	5/20/2013
VOCs (ug/m^3)	
Total VOCs	NE

SV-2	
Sample ID	SV-2
Lab Sample ID	13E0710-02
Sample Date	5/20/2013
VOCs (ug/m^3)	
Total VOCs	NE

SV-5	
Sample ID	SV-5
Lab Sample ID	13E0710-05
Sample Date	5/20/2013
VOCs (ug/m^3)	
Total VOCs	NE

SV-4	
Sample ID	SV-4
Lab Sample ID	13E0710-04
Sample Date	5/20/2013
VOCs (ug/m^3)	
Trichloroethylene	400

SV-1	
Sample ID	SV-1
Lab Sample ID	13E0710-01
Sample Date	5/20/2013
VOCs (ug/m^3)	
Total VOCs	NE

KIC_AA	
Sample ID	KIC_AA
Lab Sample ID	13E0710-06
Sample Date	5/20/2013
VOCs (ug/m^3)	
Total VOCs	NE

LEGEND

- SITE BOUNDARY
- LG-19 — BORING LOCATION
- MW-5 — TEMPORARY MONITORING WELL/ BORING LOCATION
- SV-1 — SOIL VAPOR SAMPLING POINT
- LB-1(OW) — 2008 OBSERVATION WELL
- LG-5 — 2008 GEOPROBE BORING
- MW-2 — 2008 / 2009 MONITORING WELL
- TP-6 — 2008 TEST PIT

NOTES:

1. SOIL VAPOR SAMPLE ANALYTICAL RESULTS ARE COMPARED TO THE NEW YORK STATE DEPARTMENT OF HEALTH (NYSDOH) AIR GUIDANCE VALUE (AGV).
2. ONLY DETECTIONS ARE SHOWN.
3. NYSDOH AGV EXCEEDANCES ARE HIGHLIGHTED AND BOLDED.
4. KIC_AA = AMBIENT AIR SAMPLE
5. VOCs = VOLATILE ORGANIC COMPOUNDS
6. ug/m^3 = MICROGRAMS PER CUBIC METER
7. NE = COMPOUNDS DID NOT EXCEED THEIR RESPECTIVE NYSDOH AGV

Analyte	NYSDOH AGV
VOCs (ug/m^3)	
Trichloroethylene	5

REFERENCE:
BASE MAP FROM 2013 CONCEPTUAL SITE PLAN BY BBB ARCHITECTS

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Project
KINGSBRIDGE ARMORY
BLOCK No. 3247, LOT No. 2
BRONX NEW YORK

Drawing Title
SOIL VAPOR SAMPLE LOCATIONS AND RESULTS MAP

Project No.	Drawing No.
170246501	5
Date: JUNE 4, 2013	
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Drawn By: MB	
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Layout: ANSIB-BL

APPENDIX A

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Log of Boring **LG-19** Sheet 1 of 2

Project: Kingsbridge Armory	Project No.: 170246501
Location: 29 West Kingsbridge Rd. The Bronx, NY	Elevation and Datum: 139.7 feet above msl
Drilling Company: Laurel Environmental Associates, Ltd.	Date Started: 5/21/13 — Date Finished: 5/21/13
Drilling Equipment: Geoprobe 6610DT	Completion Depth: 35 ft — Rock Depth: N/A
Size and Type of Bit: 2" Macrocore	Number of Samples: Disturbed 2 — Undisturbed — Core
Casing Diameter (in): 2" — Casing Depth (ft): 5'	Water Level (ft.): First ▽ 28 — Completion ▼ — 24 HR. ▼
Casing Hammer: Steel — Weight (lbs) — Drop (in)	Drilling Foreman: Steve Bitetto
Sampler: Acetate Liner	Inspecting Engineer: Paul McMahon
Sampler Hammer — Weight (lbs) — Drop (in)	

Material Symbol	Elev. (ft)	Sample Description	PID Reading (ppm)	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	N-Value (Blows/ft)	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
	+139.7									
	+139.5	2" concrete slab								1250 - Begin Drilling
		0-3" - pulverized concrete 3-8" - dk brown f-c sand, some gravel; trace coal and weathered rock; dry [FILL] 8-33" - brown f-c sand with trace silt, gravel, weathered rock; dry [FILL]	0.0	0	S-1	MACROCORE	33		10 20 30 40	1306 - Take Sample LG-19 (0-2) VOC/SVOC/Metals/ Pesticides/PCBs
			0.0	1						
			0.0	2						
			0.0	3						
			0.0	4						
			0.0	5	S-2	MACROCORE	23			
			0.0	6						
			0.0	7						
			0.0	8						
			0.0	9						
			0.0	10	S-3	MACROCORE	27			
			0.0	11						
			0.0	12						
			0.0	13						
			0.0	14						
			0.0	15						
	+123.7		0.0	16	S-4	MACROCORE	32			
		9-32" - reddish brown m-c sand, trace silt and weathered rock; dry	0.0	17						
			0.0	18						
			0.0	19						
			0.0	20						

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Log of Boring **LG-19** Sheet 2 of 2

Project	Project No.
Kingsbridge Armory	170246501
Location	**Elevation and Datum**
29 West Kingsbridge Rd. The Bronx, NY	139.7 feet above msl

Material Symbol	Elev. (ft)	Sample Description	PID Reading (ppm)	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	N-Value (Blows/ft) 10 20 30 40	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
	+117.7		0.0	20						
			0.0	21						
		lt brown and grey sandy silt, trace weathered rock and rock fragments; dry	0.0	22	S-5	MACROCORE	29			
			0.0	23						
			0.0	24						
	+114.7		0.0	25						
		0-20" lt brown m-c sand with some weathered rock; dry	0.0	26						1320 - Take Sample LG-19 (26-28 VOC/SVOC/Metals/PCBs
			0.0	27						
		20-48" - reddish-brown coarse sand; wet ▽	0.0	28	S-6	MACROCORE	48			
			0.0	29						
			0.0	30						
		0-42" - reddish brown coarse sand; saturated	0.0	31						
			0.0	32						
			0.0	33	S-7	MACROCORE	42			
			0.0	34						
	+104.7		0.0	35						End of Boring at 35 ft bgs
				36						
				37						
				38						
				39						
				40						
				41						
				42						
				43						
				44						
				45						

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Log of Boring **LG-20** Sheet 1 of 2

Project: Kingsbridge Armory	Project No.: 170246501
Location: 29 West Kingsbridge Rd. The Bronx, NY	Elevation and Datum: 137.8 feet above msl
Drilling Company: Laurel Environmental Associates, Ltd.	Date Started: 5/21/13 — Date Finished: 5/21/13
Drilling Equipment: Geoprobe 7822DT	Completion Depth: 27.5 ft — Rock Depth: 27.5 ft
Size and Type of Bit: 2" Macrocore	Number of Samples: Disturbed 2 — Undisturbed — Core
Casing Diameter (in): 2" — Casing Depth (ft): 5'	Water Level (ft.): First ▽ 23 — Completion ▼ — 24 HR. ▼
Casing Hammer: Steel — Weight (lbs) — Drop (in)	Drilling Foreman: Kevin Kegel
Sampler: Acetate Liner	Inspecting Engineer: Paul McMahon
Sampler Hammer — Weight (lbs) — Drop (in)	

Material Symbol	Elev. (ft)	Sample Description	PID Reading (ppm)	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	N-Value (Blows/ft) 10 20 30 40	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
	+137.8	0-10" - dk brown f-c sand with trace silt, gravel, grass, roots, wood; moist [topsoil]	0.0	0						1000 - Begin Drilling
	+136.3	10-38" - brown f-m sand with some silt; trace gravel and weathered rock; dry [FILL]	0.0	1						
			0.0	2	S-1	MACROCORE	42			1149 - Take Sample LG-20 (0-2) VOC/SVOC/Metals/ Pesticides/PCBs
			0.0	3						
		38-42", 0-14" - rock fragments and weathered rock with some brown m-f sand; dry [FILL]	0.0	4						
			0.0	5						
			0.0	6						
			0.0	7	S-2	MACROCORE	14			
			0.0	8						
			0.0	9						
		0-9" - weathered rock with some brown m-f sand; dry [FILL]	0.0	10						
			0.0	11						
			0.0	12	S-3	MACROCORE	9			
			0.0	13						
			0.0	14						
		0-10" - weathered rock and rock fragments; dry [FILL]	0.0	15						
			0.0	16						
			0.0	17	S-4	MACROCORE	22			
		10-22" - brown f-c sand with some weathered rock and rock fragments; dry [FILL]	0.0	18						
			0.0	19						
	+117.8		0.0	20						

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Log of Boring **LG-20** Sheet 2 of 2

Project	Project No.
Kingsbridge Armory	170246501
Location	**Elevation and Datum**
29 West Kingsbridge Rd. The Bronx, NY	137.8 feet above msl

Material Symbol	Elev. (ft)	Sample Description	PID Reading (ppm)	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	N-Value (Blows/ft) 10 20 30 40	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
	+112.8	0-17" - brown and lt gray sandy silt with trace weatherd rock and rock fragments; wet	0.0	20	S-5	MACROCORE	17			1201 - Take Sample LG-20 (22-24) VOC/SVOC/Metals/PCBs
			0.0	21						
			0.0	22						
			0.0	23						
			0.0	24						
	+110.3	0-17" - dk grey f-c sand with trace silt and weathered rock; saturated	0.0	25	S-6	MACROCORE	17			
			0.0	26						
			0.0	27						End of Boring at 27.5 ft bgs - Refusal at bedrock
				28						
				29						
				30						
				31						
				32						
				33						
				34						
				35						
				36						
				37						
				38						
				39						
				40						
				41						
				42						
				43						
				44						
				45						

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Log of Boring **LG-21** Sheet 1 of 2

Project: Kingsbridge Armory	Project No.: 170246501
Location: 29 West Kingsbridge Rd. The Bronx, NY	Elevation and Datum: 137.8 feet above msl
Drilling Company: Laurel Environmental Associates, Ltd.	Date Started: 5/21/13 / Date Finished: 5/21/13
Drilling Equipment: Geoprobe 6610DT	Completion Depth: 30 ft / Rock Depth: N/A
Size and Type of Bit: 2" Macrocore	Number of Samples: Disturbed 3 / Undisturbed / Core
Casing Diameter (in): 2" / Casing Depth (ft): 5'	Water Level (ft.): First ▽ 22 / Completion / 24 HR.
Casing Hammer: Steel / Weight (lbs) / Drop (in)	Drilling Foreman: Steve Bitetto
Sampler: Acetate Liner	Inspecting Engineer: Paul McMahon
Sampler Hammer / Weight (lbs) / Drop (in)	

Material Symbol	Elev. (ft)	Sample Description	PID Reading (ppm)	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	N-Value (Blows/ft) 10 20 30 40	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
	+137.8	0-8" - dk brown m-f sand with trace roots, silt, and gravel; moist (topsoil)	0.0	0						0930 - Begin Drilling
	+136.3	8-35" - lt brown silty sand with trace gravel, rock fragments, and weathered rock; dry [FILL]	0.0	1						
			0.0	2	S-1	MACROCORE	35			1055 - Take Sample LG-21 (0-2) VOC/SVOC/Metals/ Pesticides/PCBs
			0.0	3						1105 - Take Sample DUP-1 (052113) VOC/SVOC/Metals/ Pesticides/PCBs
			0.0	4						
		0-16" - lt brown m-f sand, with some coal; trace weathered rock, glass, and brick; dry [FILL]	0.0	5						
			0.0	6						
		16-26" - lt brown f-c sand with some weathered rock and rock fragments; dry [FILL]	0.0	7	S-2	MACROCORE	38			
			0.0	8						
		26-38" - brown m-f saand with some silt; trace rock fragments, weathered rock, and brick; dry [FILL]	0.0	9						
		0-14" - brown c-f sand with some silt; trace rock fragments, weathered rock, coal, and brick; dry [FILL]	0.0	10						
			0.0	11						
		14-33" - brown m-c sand with some silt, trace rock fragments and weathered rock; dry [FILL]	0.0	12	S-3	MACROCORE	33			
			0.0	13						
			0.0	14						
		0-22" - lt brown f-c sand and gray silt with some weathered rock; trace rock fragments; dry	0.0	15						
			0.0	16						
			0.0	17	S-4	MACROCORE	40			
	+119.8		0.0	18						
		22-40" - lt brown m-f sand with some weathered rock; trace silt; dry	0.0	19						
			0.0	20						

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Log of Boring **LG-21** Sheet 2 of 2

Project	Project No.
Kingsbridge Armory	170246501
Location	**Elevation and Datum**
29 West Kingsbridge Rd. The Bronx, NY	137.8 feet above msl

Material Symbol	Elev. (ft)	Sample Description	PID Reading (ppm)	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	N-Value (Blows/ft) 10 20 30 40	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
	+116.8	8-43" - grayish brown sandy silt; trace weathered rock; wet	0.0	20						1125 - Take Sample LG-21 (20-22) VOC/SVOC/Metals/PCBs
			0.0	21						
			0.0	22	S-5	MACROCORE	46			
			0.0	23						
			0.0	24						
	+113.3	43-46", 0-6" - dk gray coarse sand and silt; moist (organic odor)	0.0	25						
			0.0	26						
	+111.8	6-33" - brown m-c sand with some silt; trace weathered rock; moist	0.0	27	S-6	MACROCORE	33			
			0.0	28						
			0.0	29						
	+107.8		0.0	30						Endo of Boring at 30 ft bgs
				31						
				32						
				33						
				34						
				35						
				36						
				37						
				38						
				39						
				40						
				41						
				42						
				43						
				44						
				45						

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Log of Boring **MW-10** Sheet 1 of 2

Project: Kingsbridge Armory	Project No.: 170246501
Location: 29 West Kingsbridge Rd. The Bronx, NY	Elevation and Datum: 139.1 feet above msl
Drilling Company: Laurel Environmental Associates, Ltd.	Date Started: 5/21/13 / Date Finished: 5/21/13
Drilling Equipment: Geoprobe 7822DT	Completion Depth: 35 ft / Rock Depth: N/A
Size and Type of Bit: 2" Macrocore	Number of Samples: Disturbed 2 / Undisturbed / Core
Casing Diameter (in): 2" / Casing Depth (ft): 5'	Water Level (ft.): First ▽ 30 / Completion ▼ / 24 HR. ▼
Casing Hammer: Steel / Weight (lbs) / Drop (in)	Drilling Foreman: Kevin Kegel
Sampler: Acetate Liner	Inspecting Engineer: Paul McMahon
Sampler Hammer / Weight (lbs) / Drop (in)	

MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID Reading (ppm)	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	N-Value (Blows/ft) 10 20 30 40	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
	+139.1									
	+138.9	2" concrete slab								
		0-6" - pulverized concrete 6-27" - brown m-f sand with trace silt, gravel, and weathered rock; dry [FILL]	0.0	0						1245 - Begin Drilling
			0.0	1						
			0.0	2	S-1	MACROCORE	27			1333 - Take Sample MW-10 (1-3) VOC/SVOC/Metals/ Pesticides/PCBs
			0.0	3						
			0.0	4						
			0.0	5						
			0.0	6						
			0.0	7	S-2	MACROCORE	17			
			0.0	8						
			0.0	9						
			0.0	10						
			0.0	11						
			0.0	12	S-3	MACROCORE	15			
			0.0	13						
			0.0	14						
		0-16" - dk gray and lt brown m-c sand with some weathered rock and rock fragments; dry [FILL]	0.0	15						
			0.0	16						
			0.0	17	S-4	MACROCORE	24			
	+121.1		0.0	18						
		16-24" - lt brown fine sand with some silt	0.0	19						
			0.0	20						

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Log of Boring **MW-10** Sheet 2 of 2

Project	Project No.
Kingsbridge Armory	170246501
Location	**Elevation and Datum**
29 West Kingsbridge Rd. The Bronx, NY	139.1 feet above msl

Material Symbol	Elev. (ft)	Sample Description	PID Reading (ppm)	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	N-Value (Blows/ft)	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
	+114.1	No Recovery	0.0	20	S-5	MACROCORE	16		10 20 30 40	
			0.0	21						
			0.0	22						
			0.0	23						
			0.0	24						
			0.0	25						
			0.0	26	S-6	MACROCORE	0			
			0.0	27						
			0.0	28						
			0.0	29						
	+109.1	0-20" - reddish brown coarse sand; saturated ▽	0.0	30						
			0.0	31						1355 - Take Sample MW-10 (32-34) VOC/SVOC/Metals/PCBs
			0.0	32						
	+106.6	20-40" - reddish-brown sandy silt	0.0	33	S-7	MACROCORE	40			
			0.0	34						
	+104.1		0.0	35						End of Boring at 35 ft bgs
				36						
				37						
				38						
				39						
				40						
				41						
				42						
				43						
				44						
				45						

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Log of Boring **MW-5** Sheet 1 of 1

Project: Kingsbridge Armory	Project No.: 170246501
Location: 29 West Kingsbridge Rd. The Bronx, NY	Elevation and Datum: 119.8 feet above msl
Drilling Company: Laurel Environmental Associates, Ltd.	Date Started: 5/21/13 / Date Finished: 5/21/13
Drilling Equipment: Geoprobe 7822DT	Completion Depth: 8 ft / Rock Depth: 8 ft
Size and Type of Bit: 2" Macrocore	Number of Samples: Disturbed 2 / Undisturbed / Core
Casing Diameter (in): 2" / Casing Depth (ft): 5'	Water Level (ft.): First N/A / Completion / 24 HR.
Casing Hammer: Steel / Weight (lbs) / Drop (in)	Drilling Foreman: Kevin Kegel
Sampler: Acetate Liner	Inspecting Engineer: Paul McMahon
Sampler Hammer / Weight (lbs) / Drop (in)	

Material Symbol	Elev. (ft)	Sample Description	PID Reading (ppm)	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	N-Value (Blows/ft) 10 20 30 40
	+119.8			0					
	+119.5	4" Concrete Slab	0.0						
		0-7" - Concrete 7-25" - brown m-f sand with some silt and gravel; trace weathered rock and rock fragments; dry [FILL]	0.0	1					
			0.0	2	S-1	MACROCORE	25		
			0.0	3					
			0.0	4					
		0-8" - brown m-f sand with some silt and gravel; trace weathered rock and rock fragments; dry [FILL]	0.0	5					
	+113.8	8-23" - orange-brown m-f sand with trace gravel, silt, and decomposed rock; dry 23-24" - decomposed rock	0.0	6	S-2	MACROCORE	24		
	+111.8		0.0	7					
				8					
				9					
				10					
				11					
				12					
				13					
				14					
				15					
				16					
				17					
				18					
				19					
				20					

Remarks
(Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)

0730 - Begin Drilling
0745 - Refusal Encountered at 8 ft bgs, groundwater not observed
Refusal encountered at 8 ft bgs at 9 locations between 4 and 40 ft North and West of original location
No well set. Take samples from original boring location.
1025 - Take Sample MW-5 (0-2)
VOC/SVOC/Metals/ Pesticides/PCBs

1035 - Take Sample MW-5 (6-8)
VOC/SVOC/Metals/PCBs

End of Boring @ 8 ft bgs - refusal at bedrock (~111 ft above msl)

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Log of Boring **MW-6** Sheet 1 of 1

Project: Kingsbridge Armory	Project No.: 170246501
Location: 29 West Kingsbridge Rd. The Bronx, NY	Elevation and Datum: 119.8 feet above msl
Drilling Company: Laurel Environmental Associates, Ltd.	Date Started: 5/20/13 — Date Finished: 5/20/13
Drilling Equipment: Geoprobe 7822DT	Completion Depth: 15 ft — Rock Depth: N/A
Size and Type of Bit: 2" Macrocore	Number of Samples: Disturbed 2 — Undisturbed — Core
Casing Diameter (in): 2" — Casing Depth (ft): 5'	Water Level (ft.): First ▽ 10 — Completion ▼ — 24 HR. ▼
Casing Hammer: Steel — Weight (lbs) — Drop (in)	Drilling Foreman: Steve Bitetto
Sampler: Acetate Liner	Inspecting Engineer: Paul McMahon
Sampler Hammer — Weight (lbs) — Drop (in)	

Material Symbol	Elev. (ft)	Sample Description	PID Reading (ppm)	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	N-Value (Blows/ft)	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
	+119.8			0						
	+119.5	4" Concrete Slab								
		0-28" - dark brown m-c sand and gravel with some rock fragments; trace weathered rock, ash, brick; dry [FILL]	0.0	1	S-1	MACROCORE	28			1415 - Begin Drilling
			0.0	2						1500 - Take Sample MW-6 (0-2) VOC/SVOC/Metals/ Pesticides/PCBs
			0.0	3						
			0.0	4						
			0.0	5						
		0-18" - grey weathered rock and rock fragments with some brown f-m sand; dry [FILL]	0.0	6	S-2	MACROCORE	22			
			0.0	7						
	+111.8		0.0	8						
		18-22" - lt brown m-c sand with trace silt; moist	0.0	9						
		▽ 0-24" - brown m-f sand with trace silt; wet	0.0	10						1518 - Take Sample MW-6 (9-11) VOC/SVOC/Metals//PCBs
			0.0	11	S-3	MACROCORE	30			
			0.0	12						
			0.0	13						
	+105.8		0.0	14						
		24-30" - lt brown f-m silty sand								
	+104.8			15						End of Boring at 15 ft bgs
				16						
				17						
				18						
				19						
				20						

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Log of Boring **MW-7** Sheet 1 of 1

Project: Kingsbridge Armory	Project No.: 170246501
Location: 29 West Kingsbridge Rd. The Bronx, NY	Elevation and Datum: 119.5 feet above msl
Drilling Company: Laurel Environmental Associates, Ltd.	Date Started: 5/20/13 — Date Finished: 5/20/13
Drilling Equipment: Geoprobe 7822DT	Completion Depth: 15 ft — Rock Depth: N/A
Size and Type of Bit: 2" Macrocore	Number of Samples: Disturbed 2 — Undisturbed — Core
Casing Diameter (in): 2" — Casing Depth (ft): 5'	Water Level (ft.): First ▽ 9 — Completion ▼ — 24 HR. ▼
Casing Hammer: Steel — Weight (lbs) — Drop (in)	Drilling Foreman: Steve Bitetto
Sampler: Acetate Liner	Inspecting Engineer: Paul McMahon
Sampler Hammer — Weight (lbs) — Drop (in)	

Material Symbol	Elev. (ft)	Sample Description	PID Reading (ppm)	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	N-Value (Blows/ft) 10 20 30 40	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
	+119.5			0						
	+119.1	5" Concrete Slab								
		0-2" - pulverized concrete 2-12" - brown f-c sand with some gravel; trace rock fragments and ash; dry [FILL]	0.2	1	S-1	MACROCORE	12			1230 - Begin Drilling
			0.2	2						1325 - Take Sample MW-7 (1-5) VOC/SVOC/Metals/ Pesticides/PCBs
			0.2	3						
			0.2	4						
			0.2	5						
		0-6" - brown f-m sand with trace weathered rock; dry [FILL]	0.0							
	+113.5	6-18" - lt brown f-m sand with some silt; trace rock fragments; moist	0.2	6	S-2	MACROCORE	24			
			0.0	7						1335 - Take Sample MW-7 (7-9) VOC/SVOC/Metals/PCBs
		18-24" - lt brown f-c sand with some silt; saturated ▽	0.0	8						
			0.0	9						
	+109.5	0-18" - orange-brown m-c sand with trace gravel and silt; saturated	0.1	10	S-3	MACROCORE	30			
			0.0	11						
			0.1	12						
	+106.5	18-24" - lt brown sandy silt	0.1	13						
	+105.5	24-30" - lt brown silt	0.0	14						
	+104.5			15						End of Boring at 15 ft bgs
				16						
				17						
				18						
				19						
				20						

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Log of Boring **MW-8** Sheet 1 of 1

Project: Kingsbridge Armory	Project No.: 170246501
Location: 29 West Kingsbridge Rd. The Bronx, NY	Elevation and Datum: 119.7 feet above msl
Drilling Company: Laurel Environmental Associates, Ltd.	Date Started: 5/20/13 — Date Finished: 5/20/13
Drilling Equipment: Geoprobe 7822DT	Completion Depth: 15 ft — Rock Depth: N/A
Size and Type of Bit: 2" Macrocore	Number of Samples: Disturbed 2 — Undisturbed — Core
Casing Diameter (in): 2" — Casing Depth (ft): 5'	Water Level (ft.): First ▽ 9.5 — Completion — 24 HR.
Casing Hammer: Steel — Weight (lbs) — Drop (in)	Drilling Foreman: Steve Bitetto
Sampler: Acetate Liner	Inspecting Engineer: Paul McMahon
Sampler Hammer — Weight (lbs) — Drop (in)	

Material Symbol	Elev. (ft)	Sample Description	PID Reading (ppm)	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	N-Value (Blows/ft) 10 20 30 40	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
	+119.7			0						
	+119.3	5" Concrete Slab								
		0-28" - brown m-f sand with some gravel; trace weathered rock and rock fragments; dry [FILL]	0.0	1	S-1	MACROCORE	28			1330 - Begin Drilling
			0.2	2						1400 - Take Sample MW-8 (0.5-2.5) VOC/SVOC/Metals/ Pesticides/PCBs
			0.1	3						
			0.2	4						
			0.0	5						
		0-6" - m-c brown sand with some gravel and brick; dry [FILL]	0.0	6	S-2	MACROCORE	24			
	+113.7	6-24" - greyish brown f-m sand with trace silt; moist (saturated at 22")	0.0	7						
			0.0	8						1420 - Take Sample MW-8 (7.5-9.5) VOC/SVOC/Metals/PCBs
		▽	0.0	9						
	+109.7	0-6" - dk brown silty sand; wet	0.0	10	S-3	MACROCORE	34			
		6-14" - dk brown sandy silt; wet	0.0	11						
		14-24" - brown m-f sand with some silt; wet	0.0	12						
			0.0	13						
	+106.2	24-34" - reddish brown m-c sand; wet	0.0	14						
			0.0	15						End of Boring at 15 ft bgs
	+104.7			16						
				17						
				18						
				19						
				20						

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LANGAN

Log of Boring **MW-9** Sheet 1 of 1

Project: Kingsbridge Armory	Project No.: 170246501
Location: 29 West Kingsbridge Rd. The Bronx, NY	Elevation and Datum: 117.8 feet above msl
Drilling Company: Laurel Environmental Associates, Ltd.	Date Started: 5/20/13 — Date Finished: 5/20/13
Drilling Equipment: Geoprobe 7822DT	Completion Depth: 15 ft — Rock Depth: N/A
Size and Type of Bit: 2" Macrocore	Number of Samples: Disturbed 2 — Undisturbed — Core
Casing Diameter (in): 2" — Casing Depth (ft): 5'	Water Level (ft.): First ▽ 9 — Completion ▼ — 24 HR. ▼
Casing Hammer: Steel — Weight (lbs) — Drop (in)	Drilling Foreman: Steve Bitetto
Sampler: Acetate Liner	Inspecting Engineer: Paul McMahon
Sampler Hammer — Weight (lbs) — Drop (in)	

Material Symbol	Elev. (ft)	Sample Description	PID Reading (ppm)	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	N-Value (Blows/ft) 10 20 30 40	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
	+117.8			0						
	+117.5	4" Concrete Slab								
		0-22" - brown f-m sand with some gravel; trace rock fragments; dry [FILL]	0.0	1						1445 - Start Drilling
			0.0	2	S-1	MACROCORE	22			1535 - Take Sample MW-9 (0-2) VOC/SVOC/Metals/ Pesticides/PCBs
			0.0	3						
			0.0	4						
		0-17" - brown silty m-f sand with some gravel, weathered rock, pulverized concrete; dry [FILL]	0.0	5						
			0.0	6						1545 - Take Sample MW-9 (6-8) VOC/SVOC/Metals/PCBs
			0.0	7	S-2	MACROCORE	27			
	+109.8	17-27" - brown silt with some m-f sand; wet ▽	0.0	8						
			0.0	9						
		0-4" - brown silt with some m-f sand; wet	0.0	10						
	+106.8	4-10" - dk gray silt; soft; organic odor	0.0	11						
	+105.8	10-26" - lt brown and gray coarse sand with trace rock fragments; wet	0.0	12	S-3	MACROCORE	26			
			0.0	13						
			0.0	14						
	+102.8		0.0	15						End of Boring at 15 ft bgs
				16						
				17						
				18						
				19						
				20						

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APPENDIX B

WELL CONSTRUCTION SUMMARY

Well No. **MW-6**

PROJECT Kingsbridge National Ice Center	**PROJECT NO.** 170246501
LOCATION New York, NY	**ELEVATION AND DATUM** 121.1 ft above msl Top of Casing
DRILLING AGENCY Laurel Environmental Associates, Ltd.	**DATE STARTED** 5/21/2013 **DATE FINISHED** 5/21/2013
DRILLING EQUIPMENT Geoprobe 6610DT	**DRILLER** Steve Bitetto
SIZE AND TYPE OF BIT 2" Steel	**INSPECTOR** Paul McMahon

METHOD OF INSTALLATION

2" steel casing was used to advance the boring to 15 feet. A 10-foot long 1-inch diameter Schedule 40 PVC screen was set from a depth of approximately 3.6 to 13.6 feet. The annulus was filled with #1 morie filter sand to a depth of approximately 1 foot.

METHOD OF WELL DEVELOPMENT

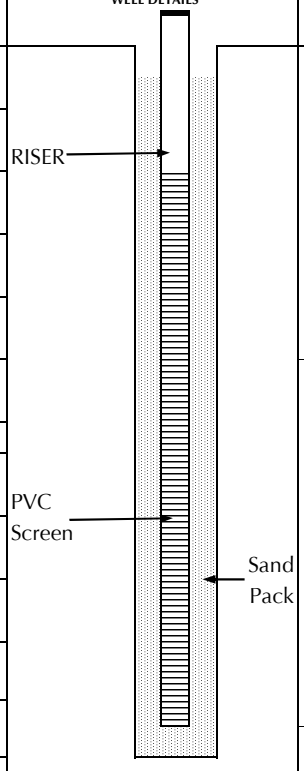
The well was purged with a peristaltic pump until the total purge volume was greater than 3 well volumes and NTU<50.

TYPE OF CASING PVC	**DIAMETER** 1-inch	**TYPE OF BACKFILL MATERIAL** N/A	
TYPE OF SCREEN PVC	**DIAMETER** 1-inch	**TYPE OF SEAL MATERIAL** N/A	
BOREHOLE DIAMETER 2.5"		**TYPE OF FILTER MATERIAL** # 1 Sand	

TOP OF CASING	**ELEVATION** 121.10	**DEPTH (ft)** -1.30
TOP OF SEAL	**ELEVATION**	**DEPTH (ft)** N/A
TOP OF FILTER	**ELEVATION** 118.80	**DEPTH (ft)** 1.00
TOP OF SCREEN	**ELEVATION** 116.20	**DEPTH (ft)** 3.60
BOTTOM OF WELL	**ELEVATION** 106.20	**DEPTH (ft)** 13.60
SCREEN LENGTH	10 ft	
SLOT SIZE	0.02 in	

GROUNDWATER ELEVATIONS

ELEVATION	DATE	DEPTH TO WATER
109.40	5/22/13	10.40



SUMMARY SOIL CLASSIFICATION	DEPTH (FT) bgs
	1.0
Fill	3.6
Sand with trace Silt	8.0
	13.6

LANGAN Engineering and Environmental Services, Inc.

WELL CONSTRUCTION SUMMARY
Well No. MW-7

PROJECT	PROJECT NO.
Kingsbridge National Ice Center	170246501
LOCATION	ELEVATION AND DATUM
New York, NY	121.0 ft above msl Top of Casing
DRILLING AGENCY	DATE STARTED / DATE FINISHED
Laurel Environmental Associates, Ltd.	5/21/2013 / 5/21/2013
DRILLING EQUIPMENT	DRILLER
Geoprobe 6610DT	Steve Bitetto
SIZE AND TYPE OF BIT	INSPECTOR
2" Steel	Paul McMahon

METHOD OF INSTALLATION

2" steel casing was used to advance the boring to 15 feet. A 10-foot long 1-inch diameter Schedule 40 PVC screen was set from a depth of approximately 3.7 to 13.7 feet. The annulus was filled with #1 morie filter sand to a depth of approximately 1 foot.

METHOD OF WELL DEVELOPMENT

The well was purged with a peristaltic pump until the total purge volume was greater than 3 well volumes and NTU<50.

TYPE OF CASING	DIAMETER	TYPE OF BACKFILL MATERIAL
PVC	1-inch	N/A
TYPE OF SCREEN	DIAMETER	TYPE OF SEAL MATERIAL
PVC	1-inch	N/A
BOREHOLE DIAMETER		TYPE OF FILTER MATERIAL
2.5"		# 1 Sand

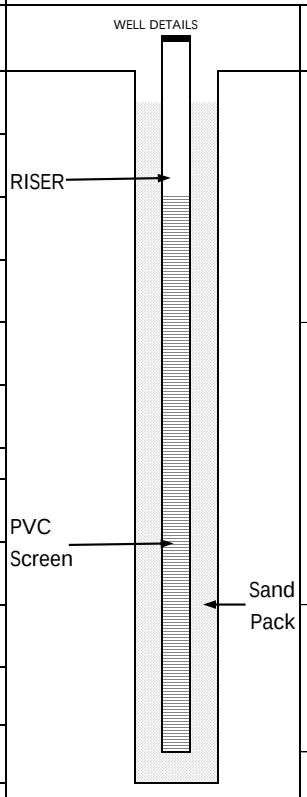
	ELEVATION	DEPTH (ft)
TOP OF CASING	121.00	-1.20
TOP OF SEAL		N/A
TOP OF FILTER	118.80	1.00
TOP OF SCREEN	116.10	3.70
BOTTOM OF WELL	106.10	13.70

SCREEN LENGTH: 10 ft

SLOT SIZE: 0.02 in

GROUNDWATER ELEVATIONS

ELEVATION	DATE	DEPTH TO WATER
110.40	5/22/13	9.40



SUMMARY SOIL CLASSIFICATION	DEPTH (FT) bgs
	1.0
Fill	3.7
	6.0
Sand	
	12.0
Sandy Silt	
	13.7

LANGAN Engineering and Environmental Services, Inc.

WELL CONSTRUCTION SUMMARY

Well No. **MW-8**

PROJECT Kingsbridge National Ice Center	**PROJECT NO.** 170246501
LOCATION New York, NY	**ELEVATION AND DATUM** 120.7 ft above msl Top of Casing
DRILLING AGENCY Laurel Environmental Associates, Ltd.	**DATE STARTED** 5/21/2013 **DATE FINISHED** 5/21/2013
DRILLING EQUIPMENT Geoprobe 6610DT	**DRILLER** Steve Bitetto
SIZE AND TYPE OF BIT 2" Steel	**INSPECTOR** Paul McMahon

METHOD OF INSTALLATION

2" steel casing was used to advance the boring to 15 feet. A 10-foot long 1-inch diameter Schedule 40 PVC screen was set from a depth of approximately 3.8 to 13.8 feet. The annulus was filled with #1 morie filter sand to a depth of approximately 1 foot.

METHOD OF WELL DEVELOPMENT

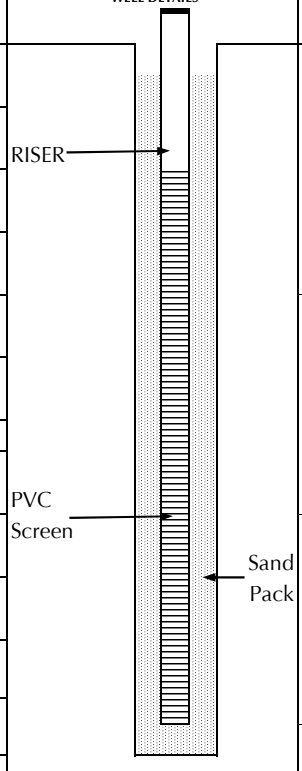
The well was purged with a peristaltic pump until the total purge volume was greater than 3 well volumes and NTU<50.

TYPE OF CASING PVC	**DIAMETER** 1-inch	**TYPE OF BACKFILL MATERIAL** N/A	
TYPE OF SCREEN PVC	**DIAMETER** 1-inch	**TYPE OF SEAL MATERIAL** N/A	
BOREHOLE DIAMETER 2.5"		**TYPE OF FILTER MATERIAL** # 1 Sand	

TOP OF CASING	**ELEVATION** 120.70	**DEPTH (ft)** -1.00
TOP OF SEAL	**ELEVATION**	**DEPTH (ft)** N/A
TOP OF FILTER	**ELEVATION** 118.70	**DEPTH (ft)** 1.00
TOP OF SCREEN	**ELEVATION** 115.90	**DEPTH (ft)** 3.80
BOTTOM OF WELL	**ELEVATION** 105.90	**DEPTH (ft)** 13.80
SCREEN LENGTH	10 ft	
SLOT SIZE	0.02 in	

GROUNDWATER ELEVATIONS

ELEVATION	DATE	DEPTH TO WATER
109.30	5/22/13	10.40



SUMMARY SOIL CLASSIFICATION	DEPTH (FT) bgs
	1.0
Fill	3.8
Sand	6.0
Sand and Silt	10.0
	13.8

LANGAN Engineering and Environmental Services, Inc.

WELL CONSTRUCTION SUMMARY

Well No. **MW-9**

PROJECT Kingsbridge National Ice Center	**PROJECT NO.** 170246501
LOCATION New York, NY	**ELEVATION AND DATUM** 118.9 ft above msl Top of Casing
DRILLING AGENCY Laurel Environmental Associates, Ltd.	**DATE STARTED** 5/21/2013 **DATE FINISHED** 5/21/2013
DRILLING EQUIPMENT Geoprobe 6610DT	**DRILLER** Steve Bitetto
SIZE AND TYPE OF BIT 2" Steel	**INSPECTOR** Paul McMahon

METHOD OF INSTALLATION

2" steel casing was used to advance the boring to 15 feet. A 10-foot long 1-inch diameter Schedule 40 PVC screen was set from a depth of approximately 3.7 to 13.7 feet. The annulus was filled with #1 morie filter sand to a depth of approximately 1 foot.

METHOD OF WELL DEVELOPMENT

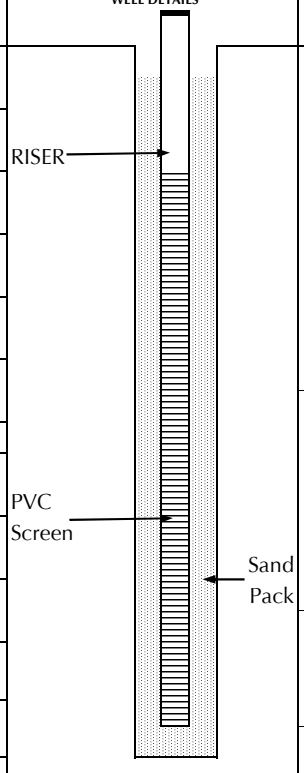
The well was purged with a peristaltic pump until the total purge volume was greater than 3 well volumes and NTU<50.

TYPE OF CASING PVC	**DIAMETER** 1-inch	**TYPE OF BACKFILL MATERIAL** N/A	
TYPE OF SCREEN PVC	**DIAMETER** 1-inch	**TYPE OF SEAL MATERIAL** N/A	
BOREHOLE DIAMETER 2.5"		**TYPE OF FILTER MATERIAL** # 1 Sand	

TOP OF CASING	**ELEVATION** 118.90	**DEPTH (ft)** -1.10
TOP OF SEAL	**ELEVATION**	**DEPTH (ft)** N/A
TOP OF FILTER	**ELEVATION** 116.80	**DEPTH (ft)** 1.00
TOP OF SCREEN	**ELEVATION** 114.40	**DEPTH (ft)** 3.40
BOTTOM OF WELL	**ELEVATION** 104.40	**DEPTH (ft)** 13.40
SCREEN LENGTH	10 ft	
SLOT SIZE	0.02 in	

GROUNDWATER ELEVATIONS

ELEVATION	DATE	DEPTH TO WATER
108.70	5/22/13	9.10



SUMMARY SOIL CLASSIFICATION	DEPTH (FT) bgs
	1.0
Fill	3.4
Silt	8.0
Coarse Sand	12.0
	13.4

LANGAN Engineering and Environmental Services, Inc.

WELL CONSTRUCTION SUMMARY

Well No. **MW-10**

PROJECT Kingsbridge National Ice Center	**PROJECT NO.** 170246501
LOCATION New York, NY	**ELEVATION AND DATUM** 140.1 ft above msl Top of Casing
DRILLING AGENCY Laurel Environmental Associates, Ltd.	**DATE STARTED** 5/21/2013 **DATE FINISHED** 5/21/2013
DRILLING EQUIPMENT Geoprobe 7822DT	**DRILLER** Kevin Kegel
SIZE AND TYPE OF BIT 2" Steel	**INSPECTOR** Paul McMahon

METHOD OF INSTALLATION

2" steel casing was used to advance the boring to 35 feet. A 10-foot long 1-inch diameter Schedule 40 PVC screen was set from a depth of approximately 24.2 to 34.2 feet. The annulus was filled with #1 morie filter sand to a depth of approximately 21 feet.

METHOD OF WELL DEVELOPMENT

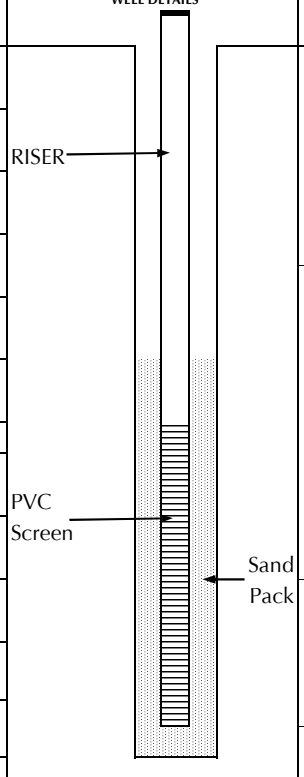
The well was purged using a combination of weighted bailor and peristaltic pump. 4 Liters were purged using a weighted bailor. The well was subsequently purged with a peristaltic pump until NTU<50.

TYPE OF CASING PVC	**DIAMETER** 1-inch	**TYPE OF BACKFILL MATERIAL** N/A	
TYPE OF SCREEN PVC	**DIAMETER** 1-inch	**TYPE OF SEAL MATERIAL** N/A	
BOREHOLE DIAMETER 2.5"		**TYPE OF FILTER MATERIAL** # 1 Sand	

TOP OF CASING	**ELEVATION** 140.10	**DEPTH (ft)** -1.00
TOP OF SEAL	**ELEVATION**	**DEPTH (ft)** N/A
TOP OF FILTER	**ELEVATION** 118.10	**DEPTH (ft)** 21.00
TOP OF SCREEN	**ELEVATION** 114.90	**DEPTH (ft)** 24.20
BOTTOM OF WELL	**ELEVATION** 104.90	**DEPTH (ft)** 34.20
SCREEN LENGTH	10 ft	
SLOT SIZE	0.02 in	

GROUNDWATER ELEVATIONS

ELEVATION	DATE	DEPTH TO WATER
110.60	5/22/13	28.50



SUMMARY SOIL CLASSIFICATION	DEPTH (FT) bgs
Fill	
	18.0
Fine Sand, Some Silt	21.0
	24.2
	30.0
Coarse Sand	
	34.2

LANGAN Engineering and Environmental Services, Inc.

APPENDIX C

GROUND WATER SAMPLE FIELD INFORMATION FORM

Site: 29 West Kingsbridge Road	**Well#/Location:** MW-3	**Job No.:** 170246501
Date: 05/23/2013	**Weather:** 60's, Rain, Cloudy	**Sampling Personnel:** A. Rosenblatt

Well Information

Sample ID	MW-3 (052313)
Well Depth (ft)	12
Screened Interval (ft)	2-12
Casing Elevation (ft msl)	115.2
Casing Diameter (in)	1
Depth to Water (ft)	3.0
Water Elevation (ft msl)	112.2
Casing Volume (gal)	1.47
PID Reading (ppm)	0.0

Purging Information

Purging Method	Peristaltic Pump
Purging Rate (mL/min)	210
Start Purge Time	11:15
End Purge Time	12:20
Approx. Vol. Purged (gal)	2.1

Sampling Information

Sampling Method	Peristaltic Pump
Start Sampling Time	12:20
End Sampling Time	12:50
Depth Before Sampling (ft)	N/A
Number Bottles Collected	7

	Parameters							
Sample Time	**pH**	**Conductivity (mS/cm)**	**Turbidity (NTU)**	**Dissolved Oxygen (mg/L)**	**Temp (◦C)**	**ORP (mV)**	**Depth to Water (ft)**	**Purged Volume (gallons)**
11:15	6.99	0.004	174	12.10	15.07	113		0.4
11:20	7.01	0.006	171	10.34	14.97	125		
11:25	7.05	0.006	172	9.97	14.91	124		
11:30	7.09	0.006	174	9.77	14.87	131		0.8
11:32	Pump Off - allow recharge							
11:45	Pump On							
11:45	7.09	0.003	174	9.65	14.83	119		
11:50	7.27	0.007	176	9.94	14.72	74		1.2
11:51	Pump Off - allow recharge							
12:00	Pump On							
12:00	7.33	0.007	178	10.08	14.67	85		
12:05	7.33	0.007	177	9.84	14.67	54		1.6
12:10	7.37	0.007	177	10.15		57		
12:11	Pump Off - allow recharge							
12:15	7.37	0.011	178	10.25	14.53	61		2.1
12:20	Take Sample							

Notes/Remarks

Effluent water was observed to be clear and parameters were stablized, therefore the sample was taken despite turbidity >50 NTU.

GROUND WATER SAMPLE FIELD INFORMATION FORM

Site: 29 West Kingsbridge Road	**Well#/Location:** MW-6	**Job No.:** 170246501
Date: 05/23/2013	**Weather:** 60's, Rain, Cloudy	**Sampling Personnel:** P. McMahon

Well Information

Sample ID	MW-6 (052313)
Well Depth (ft)	14.9
Screened Interval (ft)	4.9-14.9
Casing Elevation (ft msl)	121.1
Casing Diameter (in)	1
Depth to Water (ft)	11.7
Water Elevation (ft msl)	109.4
Casing Volume (gal)	0.52
PID Reading (ppm)	0.0

Purging Information

Purging Method	Peristaltic Pump
Purging Rate (mL/min)	200
Start Purge Time	7:45
End Purge Time	9:45
Approx. Vol. Purged (gal)	1.32

Sampling Information

Sampling Method	Peristaltic Pump
Start Sampling Time	9:50
End Sampling Time	10:50
Depth Before Sampling (ft)	N/A
Number Bottles Collected	7

	Parameters							
Sample Time	**pH**	**Conductivity (mS/cm)**	**Turbidity (NTU)**	**Dissolved Oxygen (mg/L)**	**Temp (◦C)**	**ORP (mV)**	**Depth to Water (ft)**	**Purged Volume (gallons)**
7:45	Pump On - Begin Purging							
8:00	Pump Off							0.53
8:07	Pump On							
8:16	7.72	0.431	135	6.44	14.21	79		
8:21	7.43	0.415	98	7.21	14.16	77		1.06
8:26	Pump On							
9:33	7.36	0.004	171	10.67	13.16	36		
9:35	Pump Off - allow recharge							1.2
9:43	Pump On							
9:45	7.37	0.022	170	9.34	13.47	31		1.32

Notes/Remarks

Effluent water was observed to be clear and parameters were stablized, therefore the sample was taken despite turbidity >50 NTU.

GROUND WATER SAMPLE FIELD INFORMATION FORM

Site: 29 West Kingsbridge Road	**Well#/Location:** MW-7	**Job No.:** 170246501
Date: 05/23/2013	**Weather:** 60's, Rain, Cloudy	**Sampling Personnel:** A. Rosenblatt

Well Information

Sample ID	MW-7 (052313)
Well Depth (ft)	13.7
Screened Interval (ft)	3.7-13.7
Casing Elevation (ft msl)	121.0
Casing Diameter (in)	1
Depth to Water (ft)	9.4
Water Elevation (ft msl)	111.6
Casing Volume (gal)	0.70
PID Reading (ppm)	0.0

Purging Information

Purging Method	Peristaltic Pump
Purging Rate (mL/min)	305
Start Purge Time	13:07
End Purge Time	13:30
Approx. Vol. Purged (gal)	2.2

Sampling Information

Sampling Method	Peristaltic Pump
Start Sampling Time	13:30
End Sampling Time	13:50
Depth Before Sampling (ft)	N/A
Number Bottles Collected	14

	Parameters							
Sample Time	**pH**	**Conductivity (mS/cm)**	**Turbidity (NTU)**	**Dissolved Oxygen (mg/L)**	**Temp (◦C)**	**ORP (mV)**	**Depth to Water (ft)**	**Purged Volume (gallons)**
13:03	Begin Purging							
13:07	7.72	0.015	183	11.55	14.55	-6		0.26
13:13	7.62	0.014	174	10.24	14.5	-15		
13:18	7.56	0.014	174	9.93	14.44	-4		1.2
13:25	7.52	0.007	178	9.64	14	-11.00		
13:30	Take Samples							2.2

Notes/Remarks

Effluent water was observed to be clear and parameters were stablized, therefore the sample was taken despite turbidity >50 NTU.

DUP-1 (052313) taken

GROUND WATER SAMPLE FIELD INFORMATION FORM

Site: 29 West Kingsbridge Road	**Well#/Location:** MW-8	**Job No.:** 170246501
Date: 05/23/2013	**Weather:** 60's, Rain, Cloudy	**Sampling Personnel:** A. Rosenblatt

Well Information

Sample ID	MW-8 (052313)
Well Depth (ft)	13.8
Screened Interval (ft)	3.8-13.8
Casing Elevation (ft msl)	120.7
Casing Diameter (in)	1
Depth to Water (ft)	10.4
Water Elevation (ft msl)	110.3
Casing Volume (gal)	0.55
PID Reading (ppm)	0.0

Purging Information

Purging Method	Peristaltic Pump
Purging Rate (mL/min)	250
Start Purge Time	14:00
End Purge Time	14:32
Approx. Vol. Purged (gal)	1.7

Sampling Information

Sampling Method	Peristaltic Pump
Start Sampling Time	14:32
End Sampling Time	14:45
Depth Before Sampling (ft)	N/A
Number Bottles Collected	7

	Parameters							
Sample Time	**pH**	**Conductivity (mS/cm)**	**Turbidity (NTU)**	**Dissolved Oxygen (mg/L)**	**Temp (◦C)**	**ORP (mV)**	**Depth to Water (ft)**	**Purged Volume (gallons)**
14:00	Begin Purging							
14:11	7.39	0.011	182	9.92	14.74	24		0.3
14:16	7.39	0.011	177	9.25	14.68	12		0.8
14:21	7.38	0.011	177	9.04	14.65	16		1.05
14:26	7.38	0.010	176	8.88	15	20.00		1.3
14:32	Take Samples							1.7

Notes/Remarks

Effluent water was observed to be clear and parameters were stablized, therefore the sample was taken despite turbidity >50 NTU.

GROUND WATER SAMPLE FIELD INFORMATION FORM

Site: 29 West Kingsbridge Road	**Well#/Location:** MW-9	**Job No.:** 170246501
Date: 05/23/2013	**Weather:** 60's, Rain, Cloudy	**Sampling Personnel:** P. McMahon

Well Information

Sample ID	MW-9 (052313)
Well Depth (ft)	13.4
Screened Interval (ft)	3.4-13.4
Casing Elevation (ft msl)	118.9
Casing Diameter (in)	1
Depth to Water (ft)	9.1
Water Elevation (ft msl)	109.8
Casing Volume (gal)	0.70
PID Reading (ppm)	0.0

Purging Information

Purging Method	Peristaltic Pump
Purging Rate (mL/min)	270
Start Purge Time	8:29
End Purge Time	8:55
Approx. Vol. Purged (gal)	1.85

Sampling Information

Sampling Method	Peristaltic Pump
Start Sampling Time	8:55
End Sampling Time	9:05
Depth Before Sampling (ft)	N/A
Number Bottles Collected	7

	Parameters							
Sample Time	**pH**	**Conductivity (mS/cm)**	**Turbidity (NTU)**	**Dissolved Oxygen (mg/L)**	**Temp (◦C)**	**ORP (mV)**	**Depth to Water (ft)**	**Purged Volume (gallons)**
8:29	Begin Purging							
8:37	7.57	1.13	270	4.02	12.79	-13		
8:42	7.65	1.11	41.0	3.06	12.10	-51		0.7
8:47	7.63	1.11	10.4	2.27	12.04	-43		1.2
8:52	7.62	1.11	9.5	2.13	12.00	-33		1.6
8:55	Take Sample							1.85
9:03	7.58	1.11	0.5	1.99	11.9	-17		2.4

Notes/Remarks

GROUND WATER SAMPLE FIELD INFORMATION FORM

Site: 29 West Kingsbridge Road	**Well#/Location:** MW-10	**Job No.:** 170246501
Date: 05/23/2013	**Weather:** 60's, Rain, Cloudy	**Sampling Personnel:** P. McMahon

Well Information

Sample ID	MW-10 (052313)
Well Depth (ft)	34.2
Screened Interval (ft)	24.2-34.2
Casing Elevation (ft msl)	140.1
Casing Diameter (in)	1
Depth to Water (ft)	29.5
Water Elevation (ft msl)	110.6
Casing Volume (gal)	0.77
PID Reading (ppm)	0.0

Purging Information

Purging Method	Weighted Bailer/ Peristaltic Pump
Purging Rate (mL/min)	250
Start Purge Time	15:55
End Purge Time	16:25
Approx. Vol. Purged (gal)	3.4

Sampling Information

Sampling Method	Peristaltic Pump
Start Sampling Time	16:25
End Sampling Time	16:40
Depth Before Sampling (ft)	N/A
Number Bottles Collected	7

	Parameters							
Sample Time	**pH**	**Conductivity (mS/cm)**	**Turbidity (NTU)**	**Dissolved Oxygen (mg/L)**	**Temp (◦C)**	**ORP (mV)**	**Depth to Water (ft)**	**Purged Volume (gallons)**
15;55	Begin Purging						29.50	1.37
15:59	6.76	2.61	83.5	3.15	17.17	65		1.63
16:01	6.81	2.62	27.1	2.45	16.87	49		
16:25	6.86	2.63	0.0	1.83	16.65	29		3.36
16:25	Take Sample							

Notes/Remarks

Approximately 5.4 Liters purged with weighted bailer before switching to peristaltic pump.

Heavy rain during sampling

GROUND WATER SAMPLE FIELD INFORMATION FORM

Site: 29 West Kingsbridge Road	**Well#/Location:** TRC-MW-3	**Job No.:** 170246501
Date: 05/24/2013	**Weather:** 60's, Cloudy	**Sampling Personnel:** P. McMahon

Well Information

Sample ID	TRC-MW-3 (052413)
Well Depth (ft)	38.1
Screened Interval (ft)	N/A
Casing Elevation (ft msl)	139.26
Casing Diameter (in)	2
Depth to Water (ft)	27.2
Water Elevation (ft msl)	112.06
Casing Volume (gal)	1.78
PID Reading (ppm)	0.0

Purging Information

Purging Method	Peristaltic Pump
Purging Rate (mL/min)	315
Start Purge Time	8:16
End Purge Time	14:26
Approx. Vol. Purged (gal)	10

Sampling Information

Sampling Method	Peristaltic Pump
Start Sampling Time	10:20
End Sampling Time	10:30
Depth Before Sampling (ft)	27.80
Number Bottles Collected	7

	Parameters							
Sample Time	**pH**	**Conductivity (mS/cm)**	**Turbidity (NTU)**	**Dissolved Oxygen (mg/L)**	**Temp (◦C)**	**ORP (mV)**	**Depth to Water (ft)**	**Purged Volume (gallons)**
8:16	Pump On							
9:16	Continue Purging							5
10:05								9
10:08	6.98	2.51	0.0	3.56	16.99	115	27.60	
10:13	6.97	2.55	0.0	2.84	16.75	112	27.80	
10:18	6.98	2.53	0.0	2.73	16.58	107	27.80	10
10:20	Start Sample							
10:30	End Sample							

Notes/Remarks

APPENDIX D

SOIL VAPOR SAMPLING LOG SHEET

Sample Number: SV-1

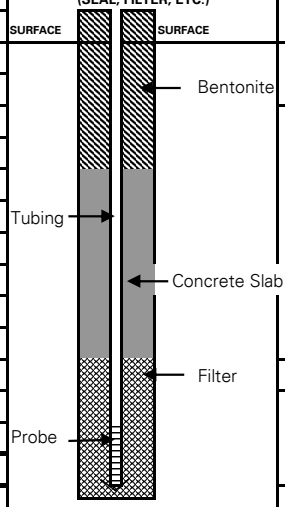
PROJECT: Kingsbridge National Ice Center	**PROJECT NO.:** 170246501
LOCATION: The Bronx, NY	**SURFACE ELEVATION AND DATUM:** 119.8 ft above mean sea level
DRILLING FIRM OR LANGAN INSTALLER: Laurel Environmental Associates, Ltd.	**INSTALLATION DATE STARTED:** 5/20/2013 **DATE FINISHED:** 5/20/2013
INSTALLATION FOREMAN: Steve Bitetto	**SAMPLE DATE STARTED:** 5/20/2013 **DATE FINISHED:** 5/20/2013
INSTALLATION EQUIPMENT: Hilti Hammer Drill with 3/4" x 24" bit	**TYPE OF SAMPLING DEVICE:** 6-L Summa Canister with 2-hour Flow Regulator
INSPECTOR: Paul McMahon	**SAMPLER:** Paul McMahon
POTENTIAL SAMPLE INTERFERENCES: None	**WEATHER CONDITIONS (PRECIP., TEMP., PRESS., WIND SPEED AND DIR.):** @ INSTALLATION: Mostly Cloudy, 60's, Wind: SW @ SAMPLING: Mostly Cloudy, 60's, Wind: SW

METHOD OF INSTALLATION AND PURGING:
Install soil vapor point with a Hilti hammer drill.
Purge with a PID for 5 min at at flow rate of 500 ml/min.
Sample Type = Integrated 2-hour sample; soil vapor sample.

TUBING TYPE/DIAMETER: Poly (1/2" OD; 3/8 " ID)	**TYPE OF MATERIAL ABOVE SEAL:** Bentonite
IMPLANT SCREEN TYPE/LENGTH/DIAMETER: Poly (1/2" OD; 3/8 " ID)	**SEAL MATERIAL (Bentonite, Beeswax, Modeling Clay, etc.):** Bentonite
BOREHOLE DIAMETER: 3/4"	**FILTER PACK MATERIAL (Sand or Glass Beads):** #2 Morie Sand

PURGE VOLUME (L):	2.50
PURGE FLOW RATE (ML/MIN):	500
PID AFTER PURGE (PPM):	3.1
HELIUM TEST IN BUCKET(%):	35.1%
HELIUM TEST IN TUBE (PPM):	300
SAMPLE START DATE/TIME:	5/20/2013 11:08
SAMPLE STOP DATE/TIME:	5/20/2013 13:07
TOTAL SAMPLE TIME (MIN):	119
FLOW RATE (L/MIN):	N/A
VOLUME OF SAMPLE (LITERS):	6
PID AFTER SAMPLE (PPM):	7.5
SAMPLE MOISTURE CONTENT:	N/A
CAN SERIAL NUMBER:	01025
REGULATOR SERIAL NUMBER:	05236
CAN START VACUUM PRESS. (" HG):	-32
CAN STOP VACUUM PRESS. (" HG):	-8

IMPLANT/PROBE DETAILS (SEAL, FILTER, ETC.)



DEPTH (FROM SURFACE)	NOTES
TOP OF SLAB	
4"	
12"	

SAMPLE LOCATION SKETCH



NOTES

Langan Engineering, Environmental, Surveying and Landscape Architecture, D.P.C.
21 Penn Plaza, 360 West 31st Street, 8th Floor, New York, New York 10001-2727

SOIL VAPOR SAMPLING LOG SHEET

Sample Number: SV-2

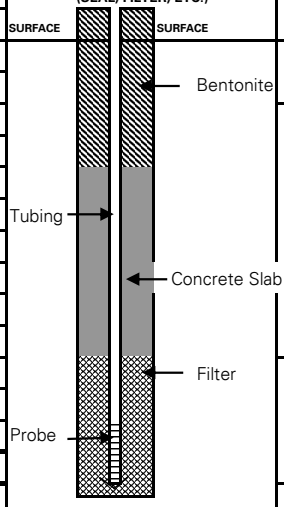
PROJECT: Kingsbridge National Ice Center	**PROJECT NO.:** 170246501
LOCATION: The Bronx, NY	**SURFACE ELEVATION AND DATUM:** 119.8 ft above mean sea level
DRILLING FIRM OR LANGAN INSTALLER: Laurel Environmental Associates, Ltd.	**INSTALLATION DATE STARTED:** 5/20/2013 **DATE FINISHED:** 5/20/2013
INSTALLATION FOREMAN: Steve Bitetto	**SAMPLE DATE STARTED:** 5/20/2013 **DATE FINISHED:** 5/20/2013
INSTALLATION EQUIPMENT: Hilti Hammer Drill with 3/4" x 24" bit	**TYPE OF SAMPLING DEVICE:** 6-L Summa Canister with 2-hour Flow Regulator
INSPECTOR: Paul McMahon	**SAMPLER:** Paul McMahon
POTENTIAL SAMPLE INTERFERENCES: None	**WEATHER CONDITIONS (PRECIP., TEMP., PRESS., WIND SPEED AND DIR.):** @ INSTALLATION: Mostly Cloudy, 60's, Wind: SW @ SAMPLING: Mostly Cloudy, 60's, Wind: SW

METHOD OF INSTALLATION AND PURGING:
Install soil vapor point with a
Purge with a PID for 5 min at at flow rate of 500 ml/min.
Sample Type = Integrated 2-hour sample; soil vapor sample.

TUBING TYPE/DIAMETER: Poly (1/2" OD; 3/8 " ID)	**TYPE OF MATERIAL ABOVE SEAL:** Bentonite
IMPLANT SCREEN TYPE/LENGTH/DIAMETER: Poly (1/2" OD; 3/8 " ID)	**SEAL MATERIAL (Bentonite, Beeswax, Modeling Clay, etc.):** Bentonite
BOREHOLE DIAMETER: 3/4"	**FILTER PACK MATERIAL (Sand or Glass Beads):** #2 Morie Sand

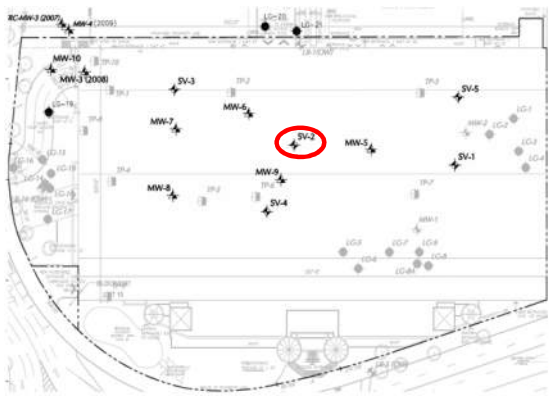
PURGE VOLUME (L):	2.50
PURGE FLOW RATE (ML/MIN):	500
PID AFTER PURGE (PPM):	1.4
HELIUM TEST IN BUCKET(%):	39.4%
HELIUM TEST IN TUBE (PPM):	175
SAMPLE START DATE/TIME:	5/20/2013 10:19
SAMPLE STOP DATE/TIME:	5/20/2013 12:23
TOTAL SAMPLE TIME (MIN):	124
FLOW RATE (L/MIN):	N/A
VOLUME OF SAMPLE (LITERS):	6
PID AFTER SAMPLE (PPM):	6.4
SAMPLE MOISTURE CONTENT:	N/A
CAN SERIAL NUMBER:	York S04
REGULATOR SERIAL NUMBER:	05232
CAN START VACUUM PRESS. (" HG):	-29
CAN STOP VACUUM PRESS. (" HG):	-5

IMPLANT/PROBE DETAILS (SEAL, FILTER, ETC.)



DEPTH (FROM SURFACE)	NOTES
TOP OF SLAB	
4"	
12"	

SAMPLE LOCATION SKETCH



NOTES

Langan Engineering, Environmental, Surveying and Landscape Architecture, D.P.C.
21 Penn Plaza, 360 West 31st Street, 8th Floor, New York, New York 10001-2727

SOIL VAPOR SAMPLING LOG SHEET

Sample Number: SV-3

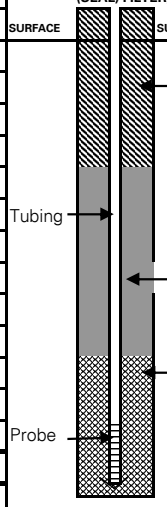
PROJECT: Kingsbridge National Ice Center	**PROJECT NO.:** 170246501
LOCATION: The Bronx, NY	**SURFACE ELEVATION AND DATUM:** 119.9 ft above mean sea level
DRILLING FIRM OR LANGAN INSTALLER: Laurel Environmental Associates, Ltd.	**INSTALLATION DATE STARTED:** 5/20/2013 **DATE FINISHED:** 5/20/2013
INSTALLATION FOREMAN: Steve Bitetto	**SAMPLE DATE STARTED:** 5/20/2013 **DATE FINISHED:** 5/20/2013
INSTALLATION EQUIPMENT: Hilti Hammer Drill with 3/4" x 24" bit	**TYPE OF SAMPLING DEVICE:** 6-L Summa Canister with 2-hour Flow Regulator
INSPECTOR: Paul McMahon	**SAMPLER:** Paul McMahon
POTENTIAL SAMPLE INTERFERENCES: None	**WEATHER CONDITIONS (PRECIP., TEMP., PRESS., WIND SPEED AND DIR.):** @ INSTALLATION: Mostly Cloudy, 60's, Wind: SW @ SAMPLING: Mostly Cloudy, 60's, Wind: SW

METHOD OF INSTALLATION AND PURGING:
Install soil vapor point with a
Purge with a PID for 5 min at at flow rate of 500 ml/min.
Sample Type = Integrated 2-hour sample; soil vapor sample.

TUBING TYPE/DIAMETER: Poly (1/2" OD; 3/8 " ID)	**TYPE OF MATERIAL ABOVE SEAL:** Bentonite
IMPLANT SCREEN TYPE/LENGTH/DIAMETER: Poly (1/2" OD; 3/8 " ID)	**SEAL MATERIAL (Bentonite, Beeswax, Modeling Clay, etc.):** Bentonite
BOREHOLE DIAMETER: 3/4"	**FILTER PACK MATERIAL (Sand or Glass Beads):** #2 Morie Sand

PURGE VOLUME (L):	2.50
PURGE FLOW RATE (ML/MIN):	500
PID AFTER PURGE (PPM):	1.2
HELIUM TEST IN BUCKET(%):	9.8%
HELIUM TEST IN TUBE (PPM):	1000
SAMPLE START DATE/TIME:	5/20/2013 13:04
SAMPLE STOP DATE/TIME:	5/20/2013 15:06
TOTAL SAMPLE TIME (MIN):	122
FLOW RATE (L/MIN):	N/A
VOLUME OF SAMPLE (LITERS):	6
PID AFTER SAMPLE (PPM):	
SAMPLE MOISTURE CONTENT:	N/A
CAN SERIAL NUMBER:	01047
REGULATOR SERIAL NUMBER:	02905
CAN START VACUUM PRESS. (" HG):	-29.5
CAN STOP VACUUM PRESS. (" HG):	-7

IMPLANT/PROBE DETAILS (SEAL, FILTER, ETC.)



DEPTH (FROM SURFACE)	NOTES
TOP OF SLAB	
6"	
12"	

SAMPLE LOCATION SKETCH



NOTES

Langan Engineering, Environmental, Surveying and Landscape Architecture, D.P.C.
21 Penn Plaza, 360 West 31st Street, 8th Floor, New York, New York 10001-2727

SOIL VAPOR SAMPLING LOG SHEET

Sample Number: SV-4

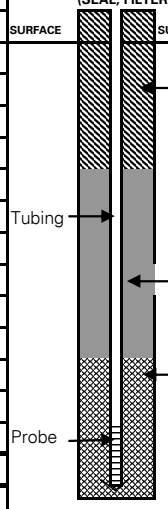
PROJECT: Kingsbridge National Ice Center	**PROJECT NO.:** 170246501
LOCATION: The Bronx, NY	**SURFACE ELEVATION AND DATUM:** 119.8 ft above mean sea level
DRILLING FIRM OR LANGAN INSTALLER: Laurel Environmental Associates, Ltd.	**INSTALLATION DATE STARTED:** 5/20/2013 **DATE FINISHED:** 5/20/2013
INSTALLATION FOREMAN: Steve Bitetto	**SAMPLE DATE STARTED:** 5/20/2013 **DATE FINISHED:** 5/20/2013
INSTALLATION EQUIPMENT: Hilti Hammer Drill with 3/4" x 24" bit	**TYPE OF SAMPLING DEVICE:** 6-L Summa Canister with 2-hour Flow Regulator
INSPECTOR: Paul McMahon	**SAMPLER:** Paul McMahon
POTENTIAL SAMPLE INTERFERENCES: None	**WEATHER CONDITIONS (PRECIP., TEMP., PRESS., WIND SPEED AND DIR.):** @ INSTALLATION: Mostly Cloudy, 60's, Wind: SW @ SAMPLING: Mostly Cloudy, 60's, Wind: SW

METHOD OF INSTALLATION AND PURGING:
Install soil vapor point with a
Purge with a PID for 5 min at at flow rate of 500 ml/min.
Sample Type = Integrated 2-hour sample; soil vapor sample.

TUBING TYPE/DIAMETER: Poly (1/2" OD; 3/8 " ID)	**TYPE OF MATERIAL ABOVE SEAL:** Bentonite
IMPLANT SCREEN TYPE/LENGTH/DIAMETER: Poly (1/2" OD; 3/8 " ID)	**SEAL MATERIAL (Bentonite, Beeswax, Modeling Clay, etc.):** Bentonite
BOREHOLE DIAMETER: 3/4"	**FILTER PACK MATERIAL (Sand or Glass Beads):** #2 Morie Sand

PURGE VOLUME (L):	2.50
PURGE FLOW RATE (ML/MIN):	500
PID AFTER PURGE (PPM):	1.6
HELIUM TEST IN BUCKET(%):	35.1%
HELIUM TEST IN TUBE (PPM):	0
SAMPLE START DATE/TIME:	5/20/2013 9:57
SAMPLE STOP DATE/TIME:	5/20/2013 12:06
TOTAL SAMPLE TIME (MIN):	129
FLOW RATE (L/MIN):	N/A
VOLUME OF SAMPLE (LITERS):	6
PID AFTER SAMPLE (PPM):	4.8
SAMPLE MOISTURE CONTENT:	N/A
CAN SERIAL NUMBER:	P-01
REGULATOR SERIAL NUMBER:	02244
CAN START VACUUM PRESS. (" HG):	-32
CAN STOP VACUUM PRESS. (" HG):	-5

IMPLANT/PROBE DETAILS (SEAL, FILTER, ETC.)



DEPTH (FROM SURFACE)	NOTES
TOP OF SLAB	
6"	
12"	

SAMPLE LOCATION SKETCH



NOTES

Langan Engineering, Environmental, Surveying and Landscape Architecture, D.P.C.
21 Penn Plaza, 360 West 31st Street, 8th Floor, New York, New York 10001-2727

SOIL VAPOR SAMPLING LOG SHEET

Sample Number: SV-5

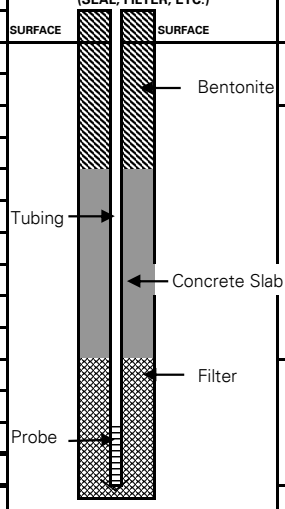
PROJECT: Kingsbridge National Ice Center	**PROJECT NO.:** 170246501
LOCATION: The Bronx, NY	**SURFACE ELEVATION AND DATUM:** 119.8 ft above mean sea level
DRILLING FIRM OR LANGAN INSTALLER: Laurel Environmental Associates, Ltd.	**INSTALLATION DATE STARTED:** 5/20/2013 **DATE FINISHED:** 5/20/2013
INSTALLATION FOREMAN: Steve Bitetto	**SAMPLE DATE STARTED:** 5/20/2013 **DATE FINISHED:** 5/20/2013
INSTALLATION EQUIPMENT: Hilti Hammer Drill with 3/4" x 24" bit	**TYPE OF SAMPLING DEVICE:** 6-L Summa Canister with 2-hour Flow Regulator
INSPECTOR: Paul McMahon	**SAMPLER:** Paul McMahon
POTENTIAL SAMPLE INTERFERENCES: None	**WEATHER CONDITIONS (PRECIP., TEMP., PRESS., WIND SPEED AND DIR.):** @ INSTALLATION: Mostly Cloudy, 60's, Wind: SW @ SAMPLING: Mostly Cloudy, 60's, Wind: SW

METHOD OF INSTALLATION AND PURGING:
Install soil vapor point with a
Purge with a PID for 5 min at at flow rate of 500 ml/min.
Sample Type = Integrated 2-hour sample; soil vapor sample.

TUBING TYPE/DIAMETER: Poly (1/2" OD; 3/8 " ID)	**TYPE OF MATERIAL ABOVE SEAL:** Bentonite
IMPLANT SCREEN TYPE/LENGTH/DIAMETER: Poly (1/2" OD; 3/8 " ID)	**SEAL MATERIAL (Bentonite, Beeswax, Modeling Clay, etc.):** Bentonite
BOREHOLE DIAMETER: 3/4"	**FILTER PACK MATERIAL (Sand or Glass Beads):** #2 Morie Sand

PURGE VOLUME (L):	2.50
PURGE FLOW RATE (ML/MIN):	500
PID AFTER PURGE (PPM):	2.1
HELIUM TEST IN BUCKET(%):	26.4%
HELIUM TEST IN TUBE (PPM):	0
SAMPLE START DATE/TIME:	5/20/2013 10:47
SAMPLE STOP DATE/TIME:	5/20/2013 12:44
TOTAL SAMPLE TIME (MIN):	117
FLOW RATE (L/MIN):	N/A
VOLUME OF SAMPLE (LITERS):	6
PID AFTER SAMPLE (PPM):	6.4
SAMPLE MOISTURE CONTENT:	N/A
CAN SERIAL NUMBER:	York S-18
REGULATOR SERIAL NUMBER:	04768
CAN START VACUUM PRESS. (" HG):	-28
CAN STOP VACUUM PRESS. (" HG):	-6

IMPLANT/PROBE DETAILS (SEAL, FILTER, ETC.)



DEPTH (FROM SURFACE)	NOTES
TOP OF SLAB	
6"	
12"	

SAMPLE LOCATION SKETCH



NOTES

Langan Engineering, Environmental, Surveying and Landscape Architecture, D.P.C.
21 Penn Plaza, 360 West 31st Street, 8th Floor, New York, New York 10001-2727

APPENDIX E

Technical Report

prepared for:

Langan Engineering & Environmental Services (NYC)
21 Penn Plaza, 360 West 31st Street
New York NY, 10001
Attention: Paul McMahon

Report Date: 05/28/2013
Client Project ID: 170246501
York Project (SDG) No.: 13E0710

CT Cert. No. PH-0723 New Jersey Cert. No. CT-005 New York Cert. No. 10854 PA Cert. No. 68-04440

120 RESEARCH DRIVE STRATFORD, CT 06615 (203) 325-1371 FAX (203) 357-0166

Report Date: 05/28/2013
Client Project ID: 170246501
York Project (SDG) No.: 13E0710

Langan Engineering & Environmental Services (NYC)
21 Penn Plaza, 360 West 31st Street
New York NY, 10001
Attention: Paul McMahon

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on May 21, 2013 and listed below. The project was identified as your project: **170246501**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the attachment to this report, and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
13E0710-01	SV-1 (SN 01025)	Soil Vapor	05/20/2013	05/21/2013
13E0710-02	SV-2 (S 04)	Soil Vapor	05/20/2013	05/21/2013
13E0710-03	SV-3 (01047)	Soil Vapor	05/20/2013	05/21/2013
13E0710-04	SV-4 (P-01)	Soil Vapor	05/20/2013	05/21/2013
13E0710-05	SV-5 (S 18)	Soil Vapor	05/20/2013	05/21/2013
13E0710-06	KIC_AA (10091)	Indoor Ambient Air	05/20/2013	05/21/2013

General Notes for York Project (SDG) No.: 13E0710

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation, unless otherwise noted.
6. All analyses conducted met method or Laboratory SOP requirements. See the Qualifiers and/or Narrative sections for further information.
7. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
8. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.

Approved By: 

Date: 05/28/2013

Benjamin Gulizia
Laboratory Director

YORK

Sample Information

Client Sample ID: SV-1 (SN 01025) **York Sample ID:** 13E0710-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0710	170246501	Soil Vapor	May 20, 2013 3:00 pm	05/21/2013

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND	U	ug/m³	4.9	4.9	18.74	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 19:42	TD
108-05-4	Vinyl acetate	ND	U	ug/m³	6.7	6.7	18.74	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 19:42	TD
79-01-6	Trichloroethylene	ND	U	ug/m³	5.1	5.1	18.74	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 19:42	TD
10061-02-6	trans-1,3-Dichloropropylene	ND	U	ug/m³	8.7	8.7	18.74	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 19:42	TD
156-60-5	trans-1,2-Dichloroethylene	ND	U	ug/m³	7.6	7.6	18.74	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 19:42	TD
108-88-3	Toluene	**15**	D	ug/m³	7.2	7.2	18.74	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 19:42	TD
109-99-9	Tetrahydrofuran	ND	U	ug/m³	5.6	5.6	18.74	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 19:42	TD
127-18-4	Tetrachloroethylene	ND	U	ug/m³	13	13	18.74	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 19:42	TD
100-42-5	Styrene	ND	U	ug/m³	8.1	8.1	18.74	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 19:42	TD
115-07-01	Propylene	ND	U	ug/m³	3.3	3.3	18.74	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 19:42	TD
622-96-8	p-Ethyltoluene	ND	U	ug/m³	47	47	18.74	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 19:42	TD
179601-23-1	p- & m- Xylenes	ND	U	ug/m³	17	17	18.74	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 19:42	TD
95-47-6	o-Xylene	ND	U	ug/m³	8.3	8.3	18.74	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 19:42	TD
110-54-3	n-Hexane	**120**	D	ug/m³	6.7	6.7	18.74	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 19:42	TD
142-82-5	n-Heptane	**47**	D	ug/m³	7.8	7.8	18.74	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 19:42	TD
75-09-2	Methylene chloride	**13**	D	ug/m³	6.6	6.6	18.74	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 19:42	TD
1634-04-4	Methyl tert-butyl ether (MTBE)	ND	U	ug/m³	6.9	6.9	18.74	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 19:42	TD
108-10-1	4-Methyl-2-pentanone	ND	U	ug/m³	7.8	7.8	18.74	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 19:42	TD
67-63-0	Isopropanol	ND	U	ug/m³	4.7	4.7	18.74	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 19:42	TD
87-68-3	Hexachlorobutadiene	ND	U	ug/m³	20	20	18.74	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 19:42	TD
100-41-4	Ethyl Benzene	ND	U	ug/m³	8.3	8.3	18.74	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 19:42	TD
141-78-6	Ethyl acetate	ND	U	ug/m³	6.9	6.9	18.74	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 19:42	TD
110-82-7	Cyclohexane	ND	U	ug/m³	6.6	6.6	18.74	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 19:42	TD
10061-01-5	cis-1,3-Dichloropropylene	ND	U	ug/m³	8.7	8.7	18.74	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 19:42	TD
156-59-2	cis-1,2-Dichloroethylene	ND	U	ug/m³	7.6	7.6	18.74	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 19:42	TD
74-87-3	Chloromethane	ND	U	ug/m³	3.9	3.9	18.74	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 19:42	TD
67-66-3	Chloroform	ND	U	ug/m³	9.3	9.3	18.74	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 19:42	TD
75-00-3	Chloroethane	ND	U	ug/m³	5.0	5.0	18.74	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 19:42	TD
56-23-5	Carbon tetrachloride	ND	U	ug/m³	6.0	6.0	18.74	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 19:42	TD
75-15-0	Carbon disulfide	ND	U	ug/m³	5.9	5.9	18.74	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 19:42	TD
74-83-9	Bromomethane	ND	U	ug/m³	7.4	7.4	18.74	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 19:42	TD
75-25-2	Bromoform	ND	U	ug/m³	20	20	18.74	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 19:42	TD

Sample Information

Client Sample ID: SV-1 (SN 01025) **York Sample ID:** 13E0710-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0710	170246501	Soil Vapor	May 20, 2013 3:00 pm	05/21/2013

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-27-4	Bromodichloromethane	ND	U	ug/m³	12	12	18.74	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 19:42	TD
100-44-7	Benzyl chloride	ND	U	ug/m³	9.9	9.9	18.74	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 19:42	TD
71-43-2	Benzene	ND	U	ug/m³	6.1	6.1	18.74	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 19:42	TD
67-64-1	Acetone	**58**	D	ug/m³	4.5	4.5	18.74	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 19:42	TD
591-78-6	2-Hexanone	ND	U	ug/m³	7.8	7.8	18.74	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 19:42	TD
78-93-3	2-Butanone	ND	U	ug/m³	5.6	5.6	18.74	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 19:42	TD
123-91-1	1,4-Dioxane	ND	U	ug/m³	6.9	6.9	18.74	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 19:42	TD
106-46-7	1,4-Dichlorobenzene	ND	U	ug/m³	11	11	18.74	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 19:42	TD
541-73-1	1,3-Dichlorobenzene	ND	U	ug/m³	11	11	18.74	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 19:42	TD
106-99-0	1,3-Butadiene	ND	U	ug/m³	8.3	8.3	18.74	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 19:42	TD
108-67-8	1,3,5-Trimethylbenzene	ND	U	ug/m³	9.4	9.4	18.74	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 19:42	TD
76-14-2	1,2-Dichlorotetrafluoroethane	ND	U	ug/m³	13	13	18.74	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 19:42	TD
78-87-5	1,2-Dichloropropane	ND	U	ug/m³	8.8	8.8	18.74	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 19:42	TD
107-06-2	1,2-Dichloroethane	ND	U	ug/m³	7.7	7.7	18.74	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 19:42	TD
95-50-1	1,2-Dichlorobenzene	ND	U	ug/m³	11	11	18.74	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 19:42	TD
95-63-6	1,2,4-Trimethylbenzene	ND	U	ug/m³	9.4	9.4	18.74	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 19:42	TD
120-82-1	1,2,4-Trichlorobenzene	ND	U	ug/m³	14	14	18.74	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 19:42	TD
75-35-4	1,1-Dichloroethylene	ND	U	ug/m³	7.6	7.6	18.74	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 19:42	TD
75-34-3	1,1-Dichloroethane	ND	U	ug/m³	7.7	7.7	18.74	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 19:42	TD
75-69-4	Trichlorofluoromethane (Freon 11)	ND	U	ug/m³	11	11	18.74	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 19:42	TD
79-00-5	1,1,2-Trichloroethane	ND	U	ug/m³	10	10	18.74	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 19:42	TD
76-13-1	,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113	ND	U	ug/m³	15	15	18.74	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 19:42	TD
79-34-5	1,1,2,2-Tetrachloroethane	ND	U	ug/m³	13	13	18.74	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 19:42	TD
71-55-6	1,1,1-Trichloroethane	ND	U	ug/m³	10	10	18.74	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 19:42	TD
75-71-8	Dichlorodifluoromethane	ND	U	ug/m³	9.4	9.4	18.74	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 19:42	TD
106-93-4	1,2-Dibromoethane	ND	U	ug/m³	15	15	18.74	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 19:42	TD
124-48-1	Dibromochloromethane	ND	U	ug/m³	15	15	18.74	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 19:42	TD
80-62-6	Methyl Methacrylate	ND	U	ug/m³	7.8	7.8	18.74	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 19:42	TD
108-90-7	Chlorobenzene	ND	U	ug/m³	8.8	8.8	18.74	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 19:42	TD

	Surrogate Recoveries	Result	Acceptance Range
460-00-4	*Surrogate: p-Bromofluorobenzene*	*99.7 %*	*70-130*



Sample Information

Client Sample ID: **SV-2 (S 04)** **York Sample ID:** **13E0710-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0710	170246501	Soil Vapor	May 20, 2013 3:00 pm	05/21/2013

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND	U	ug/m³	5.2	5.2	20.16	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 20:27	TD
108-05-4	Vinyl acetate	ND	U	ug/m³	7.2	7.2	20.16	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 20:27	TD
79-01-6	Trichloroethylene	ND	U	ug/m³	5.5	5.5	20.16	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 20:27	TD
10061-02-6	trans-1,3-Dichloropropylene	ND	U	ug/m³	9.3	9.3	20.16	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 20:27	TD
156-60-5	trans-1,2-Dichloroethylene	ND	U	ug/m³	8.1	8.1	20.16	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 20:27	TD
108-88-3	Toluene	**14**	D	ug/m³	7.7	7.7	20.16	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 20:27	TD
109-99-9	Tetrahydrofuran	ND	U	ug/m³	6.0	6.0	20.16	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 20:27	TD
127-18-4	Tetrachloroethylene	ND	U	ug/m³	14	14	20.16	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 20:27	TD
100-42-5	Styrene	ND	U	ug/m³	8.7	8.7	20.16	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 20:27	TD
115-07-01	Propylene	ND	U	ug/m³	3.5	3.5	20.16	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 20:27	TD
622-96-8	p-Ethyltoluene	ND	U	ug/m³	50	50	20.16	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 20:27	TD
179601-23-1	p- & m- Xylenes	ND	U	ug/m³	18	18	20.16	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 20:27	TD
95-47-6	o-Xylene	ND	U	ug/m³	8.9	8.9	20.16	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 20:27	TD
110-54-3	n-Hexane	**110**	D	ug/m³	7.2	7.2	20.16	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 20:27	TD
142-82-5	n-Heptane	**45**	D	ug/m³	8.4	8.4	20.16	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 20:27	TD
75-09-2	Methylene chloride	**10**	D	ug/m³	7.1	7.1	20.16	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 20:27	TD
1634-04-4	Methyl tert-butyl ether (MTBE)	ND	U	ug/m³	7.4	7.4	20.16	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 20:27	TD
108-10-1	4-Methyl-2-pentanone	ND	U	ug/m³	8.4	8.4	20.16	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 20:27	TD
67-63-0	Isopropanol	ND	U	ug/m³	5.0	5.0	20.16	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 20:27	TD
87-68-3	Hexachlorobutadiene	ND	U	ug/m³	22	22	20.16	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 20:27	TD
100-41-4	Ethyl Benzene	ND	U	ug/m³	8.9	8.9	20.16	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 20:27	TD
141-78-6	Ethyl acetate	ND	U	ug/m³	7.4	7.4	20.16	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 20:27	TD
110-82-7	Cyclohexane	ND	U	ug/m³	7.1	7.1	20.16	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 20:27	TD
10061-01-5	cis-1,3-Dichloropropylene	ND	U	ug/m³	9.3	9.3	20.16	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 20:27	TD
156-59-2	cis-1,2-Dichloroethylene	ND	U	ug/m³	8.1	8.1	20.16	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 20:27	TD
74-87-3	Chloromethane	ND	U	ug/m³	4.2	4.2	20.16	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 20:27	TD
67-66-3	Chloroform	ND	U	ug/m³	10	10	20.16	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 20:27	TD
75-00-3	Chloroethane	ND	U	ug/m³	5.4	5.4	20.16	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 20:27	TD
56-23-5	Carbon tetrachloride	ND	U	ug/m³	6.4	6.4	20.16	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 20:27	TD
75-15-0	Carbon disulfide	ND	U	ug/m³	6.4	6.4	20.16	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 20:27	TD
74-83-9	Bromomethane	ND	U	ug/m³	8.0	8.0	20.16	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 20:27	TD
75-25-2	Bromoform	ND	U	ug/m³	21	21	20.16	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 20:27	TD

Sample Information

Client Sample ID: SV-2 (S 04) **York Sample ID:** 13E0710-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0710	170246501	Soil Vapor	May 20, 2013 3:00 pm	05/21/2013

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-27-4	Bromodichloromethane	ND	U	ug/m³	13	13	20.16	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 20:27	TD
100-44-7	Benzyl chloride	ND	U	ug/m³	11	11	20.16	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 20:27	TD
71-43-2	Benzene	ND	U	ug/m³	6.6	6.6	20.16	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 20:27	TD
67-64-1	Acetone	**39**	D	ug/m³	4.9	4.9	20.16	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 20:27	TD
591-78-6	2-Hexanone	ND	U	ug/m³	8.4	8.4	20.16	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 20:27	TD
78-93-3	2-Butanone	ND	U	ug/m³	6.0	6.0	20.16	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 20:27	TD
123-91-1	1,4-Dioxane	ND	U	ug/m³	7.4	7.4	20.16	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 20:27	TD
106-46-7	1,4-Dichlorobenzene	ND	U	ug/m³	12	12	20.16	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 20:27	TD
541-73-1	1,3-Dichlorobenzene	ND	U	ug/m³	12	12	20.16	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 20:27	TD
106-99-0	1,3-Butadiene	ND	U	ug/m³	8.9	8.9	20.16	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 20:27	TD
108-67-8	1,3,5-Trimethylbenzene	ND	U	ug/m³	10	10	20.16	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 20:27	TD
76-14-2	1,2-Dichlorotetrafluoroethane	ND	U	ug/m³	14	14	20.16	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 20:27	TD
78-87-5	1,2-Dichloropropane	ND	U	ug/m³	9.5	9.5	20.16	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 20:27	TD
107-06-2	1,2-Dichloroethane	ND	U	ug/m³	8.3	8.3	20.16	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 20:27	TD
95-50-1	1,2-Dichlorobenzene	ND	U	ug/m³	12	12	20.16	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 20:27	TD
95-63-6	1,2,4-Trimethylbenzene	ND	U	ug/m³	10	10	20.16	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 20:27	TD
120-82-1	1,2,4-Trichlorobenzene	ND	U	ug/m³	15	15	20.16	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 20:27	TD
75-35-4	1,1-Dichloroethylene	ND	U	ug/m³	8.1	8.1	20.16	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 20:27	TD
75-34-3	1,1-Dichloroethane	ND	U	ug/m³	8.3	8.3	20.16	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 20:27	TD
75-69-4	Trichlorofluoromethane (Freon 11)	ND	U	ug/m³	12	12	20.16	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 20:27	TD
79-00-5	1,1,2-Trichloroethane	ND	U	ug/m³	11	11	20.16	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 20:27	TD
76-13-1	,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113	ND	U	ug/m³	16	16	20.16	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 20:27	TD
79-34-5	1,1,2,2-Tetrachloroethane	ND	U	ug/m³	14	14	20.16	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 20:27	TD
71-55-6	1,1,1-Trichloroethane	ND	U	ug/m³	11	11	20.16	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 20:27	TD
75-71-8	Dichlorodifluoromethane	ND	U	ug/m³	10	10	20.16	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 20:27	TD
106-93-4	1,2-Dibromoethane	ND	U	ug/m³	16	16	20.16	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 20:27	TD
124-48-1	Dibromochloromethane	ND	U	ug/m³	16	16	20.16	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 20:27	TD
80-62-6	Methyl Methacrylate	ND	U	ug/m³	8.4	8.4	20.16	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 20:27	TD
108-90-7	Chlorobenzene	ND	U	ug/m³	9.4	9.4	20.16	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 20:27	TD

	Surrogate Recoveries	Result	Acceptance Range
460-00-4	*Surrogate: p-Bromofluorobenzene*	*102 %*	*70-130*

Sample Information

Client Sample ID: SV-3 (01047) **York Sample ID:** 13E0710-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0710	170246501	Soil Vapor	May 20, 2013 3:00 pm	05/21/2013

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND	U	ug/m³	5.4	5.4	20.83	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 21:12	TD
108-05-4	Vinyl acetate	ND	U	ug/m³	7.5	7.5	20.83	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 21:12	TD
79-01-6	Trichloroethylene	ND	U	ug/m³	5.7	5.7	20.83	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 21:12	TD
10061-02-6	trans-1,3-Dichloropropylene	ND	U	ug/m³	9.6	9.6	20.83	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 21:12	TD
156-60-5	trans-1,2-Dichloroethylene	ND	U	ug/m³	8.4	8.4	20.83	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 21:12	TD
108-88-3	Toluene	ND	U	ug/m³	8.0	8.0	20.83	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 21:12	TD
109-99-9	Tetrahydrofuran	ND	U	ug/m³	6.2	6.2	20.83	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 21:12	TD
127-18-4	Tetrachloroethylene	ND	U	ug/m³	14	14	20.83	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 21:12	TD
100-42-5	Styrene	ND	U	ug/m³	9.0	9.0	20.83	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 21:12	TD
115-07-01	Propylene	ND	U	ug/m³	3.6	3.6	20.83	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 21:12	TD
622-96-8	p-Ethyltoluene	ND	U	ug/m³	52	52	20.83	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 21:12	TD
179601-23-1	p- & m- Xylenes	ND	U	ug/m³	18	18	20.83	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 21:12	TD
95-47-6	o-Xylene	ND	U	ug/m³	9.2	9.2	20.83	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 21:12	TD
110-54-3	n-Hexane	**110**	D	ug/m³	7.5	7.5	20.83	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 21:12	TD
142-82-5	n-Heptane	**38**	D	ug/m³	8.7	8.7	20.83	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 21:12	TD
75-09-2	Methylene chloride	**8.8**	D	ug/m³	7.4	7.4	20.83	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 21:12	TD
1634-04-4	Methyl tert-butyl ether (MTBE)	ND	U	ug/m³	7.6	7.6	20.83	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 21:12	TD
108-10-1	4-Methyl-2-pentanone	ND	U	ug/m³	8.7	8.7	20.83	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 21:12	TD
67-63-0	Isopropanol	ND	U	ug/m³	5.2	5.2	20.83	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 21:12	TD
87-68-3	Hexachlorobutadiene	ND	U	ug/m³	23	23	20.83	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 21:12	TD
100-41-4	Ethyl Benzene	ND	U	ug/m³	9.2	9.2	20.83	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 21:12	TD
141-78-6	Ethyl acetate	ND	U	ug/m³	7.6	7.6	20.83	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 21:12	TD
110-82-7	Cyclohexane	ND	U	ug/m³	7.3	7.3	20.83	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 21:12	TD
10061-01-5	cis-1,3-Dichloropropylene	ND	U	ug/m³	9.6	9.6	20.83	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 21:12	TD
156-59-2	cis-1,2-Dichloroethylene	ND	U	ug/m³	8.4	8.4	20.83	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 21:12	TD
74-87-3	Chloromethane	ND	U	ug/m³	4.4	4.4	20.83	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 21:12	TD
67-66-3	Chloroform	ND	U	ug/m³	10	10	20.83	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 21:12	TD
75-00-3	Chloroethane	ND	U	ug/m³	5.6	5.6	20.83	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 21:12	TD
56-23-5	Carbon tetrachloride	ND	U	ug/m³	6.7	6.7	20.83	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 21:12	TD
75-15-0	Carbon disulfide	ND	U	ug/m³	6.6	6.6	20.83	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 21:12	TD
74-83-9	Bromomethane	ND	U	ug/m³	8.2	8.2	20.83	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 21:12	TD
75-25-2	Bromoform	ND	U	ug/m³	22	22	20.83	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 21:12	TD

Sample Information

Client Sample ID: SV-3 (01047) **York Sample ID:** 13E0710-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0710	170246501	Soil Vapor	May 20, 2013 3:00 pm	05/21/2013

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-27-4	Bromodichloromethane	ND	U	ug/m³	13	13	20.83	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 21:12	TD
100-44-7	Benzyl chloride	ND	U	ug/m³	11	11	20.83	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 21:12	TD
71-43-2	Benzene	ND	U	ug/m³	6.8	6.8	20.83	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 21:12	TD
67-64-1	Acetone	**89**	D	ug/m³	5.0	5.0	20.83	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 21:12	TD
591-78-6	2-Hexanone	ND	U	ug/m³	8.7	8.7	20.83	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 21:12	TD
78-93-3	2-Butanone	ND	U	ug/m³	6.2	6.2	20.83	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 21:12	TD
123-91-1	1,4-Dioxane	ND	U	ug/m³	7.6	7.6	20.83	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 21:12	TD
106-46-7	1,4-Dichlorobenzene	ND	U	ug/m³	13	13	20.83	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 21:12	TD
541-73-1	1,3-Dichlorobenzene	ND	U	ug/m³	13	13	20.83	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 21:12	TD
106-99-0	1,3-Butadiene	ND	U	ug/m³	9.2	9.2	20.83	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 21:12	TD
108-67-8	1,3,5-Trimethylbenzene	ND	U	ug/m³	10	10	20.83	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 21:12	TD
76-14-2	1,2-Dichlorotetrafluoroethane	ND	U	ug/m³	15	15	20.83	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 21:12	TD
78-87-5	1,2-Dichloropropane	ND	U	ug/m³	9.8	9.8	20.83	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 21:12	TD
107-06-2	1,2-Dichloroethane	ND	U	ug/m³	8.6	8.6	20.83	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 21:12	TD
95-50-1	1,2-Dichlorobenzene	ND	U	ug/m³	13	13	20.83	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 21:12	TD
95-63-6	1,2,4-Trimethylbenzene	ND	U	ug/m³	10	10	20.83	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 21:12	TD
120-82-1	1,2,4-Trichlorobenzene	ND	U	ug/m³	16	16	20.83	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 21:12	TD
75-35-4	1,1-Dichloroethylene	ND	U	ug/m³	8.4	8.4	20.83	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 21:12	TD
75-34-3	1,1-Dichloroethane	ND	U	ug/m³	8.6	8.6	20.83	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 21:12	TD
75-69-4	Trichlorofluoromethane (Freon 11)	ND	U	ug/m³	12	12	20.83	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 21:12	TD
79-00-5	1,1,2-Trichloroethane	ND	U	ug/m³	12	12	20.83	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 21:12	TD
76-13-1	,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113	ND	U	ug/m³	16	16	20.83	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 21:12	TD
79-34-5	1,1,2,2-Tetrachloroethane	ND	U	ug/m³	15	15	20.83	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 21:12	TD
71-55-6	1,1,1-Trichloroethane	ND	U	ug/m³	12	12	20.83	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 21:12	TD
75-71-8	Dichlorodifluoromethane	ND	U	ug/m³	10	10	20.83	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 21:12	TD
106-93-4	1,2-Dibromoethane	ND	U	ug/m³	16	16	20.83	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 21:12	TD
124-48-1	Dibromochloromethane	ND	U	ug/m³	17	17	20.83	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 21:12	TD
80-62-6	Methyl Methacrylate	ND	U	ug/m³	8.7	8.7	20.83	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 21:12	TD
108-90-7	Chlorobenzene	ND	U	ug/m³	9.8	9.8	20.83	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 21:12	TD

	Surrogate Recoveries	Result	Acceptance Range
460-00-4	*Surrogate: p-Bromofluorobenzene*	*98.6 %*	*70-130*

Sample Information

Client Sample ID: SV-4 (P-01) **York Sample ID:** 13E0710-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0710	170246501	Soil Vapor	May 20, 2013 3:00 pm	05/21/2013

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND	U	ug/m³	4.5	4.5	17.38	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 21:57	TD
108-05-4	Vinyl acetate	ND	U	ug/m³	6.2	6.2	17.38	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 21:57	TD
79-01-6	Trichloroethylene	**400**	D	ug/m³	4.7	4.7	17.38	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 21:57	TD
10061-02-6	trans-1,3-Dichloropropylene	ND	U	ug/m³	8.0	8.0	17.38	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 21:57	TD
156-60-5	trans-1,2-Dichloroethylene	ND	U	ug/m³	7.0	7.0	17.38	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 21:57	TD
108-88-3	Toluene	**12**	D	ug/m³	6.7	6.7	17.38	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 21:57	TD
109-99-9	Tetrahydrofuran	ND	U	ug/m³	5.2	5.2	17.38	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 21:57	TD
127-18-4	Tetrachloroethylene	**18**	D	ug/m³	12	12	17.38	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 21:57	TD
100-42-5	Styrene	ND	U	ug/m³	7.5	7.5	17.38	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 21:57	TD
115-07-01	Propylene	ND	U	ug/m³	3.0	3.0	17.38	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 21:57	TD
622-96-8	p-Ethyltoluene	ND	U	ug/m³	43	43	17.38	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 21:57	TD
179601-23-1	p- & m- Xylenes	ND	U	ug/m³	15	15	17.38	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 21:57	TD
95-47-6	o-Xylene	ND	U	ug/m³	7.7	7.7	17.38	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 21:57	TD
110-54-3	n-Hexane	**120**	D	ug/m³	6.2	6.2	17.38	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 21:57	TD
142-82-5	n-Heptane	**43**	D	ug/m³	7.2	7.2	17.38	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 21:57	TD
75-09-2	Methylene chloride	**8.6**	D	ug/m³	6.1	6.1	17.38	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 21:57	TD
1634-04-4	Methyl tert-butyl ether (MTBE)	ND	U	ug/m³	6.4	6.4	17.38	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 21:57	TD
108-10-1	4-Methyl-2-pentanone	ND	U	ug/m³	7.2	7.2	17.38	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 21:57	TD
67-63-0	Isopropanol	ND	U	ug/m³	4.3	4.3	17.38	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 21:57	TD
87-68-3	Hexachlorobutadiene	ND	U	ug/m³	19	19	17.38	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 21:57	TD
100-41-4	Ethyl Benzene	ND	U	ug/m³	7.7	7.7	17.38	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 21:57	TD
141-78-6	Ethyl acetate	ND	U	ug/m³	6.4	6.4	17.38	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 21:57	TD
110-82-7	Cyclohexane	ND	U	ug/m³	6.1	6.1	17.38	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 21:57	TD
10061-01-5	cis-1,3-Dichloropropylene	ND	U	ug/m³	8.0	8.0	17.38	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 21:57	TD
156-59-2	cis-1,2-Dichloroethylene	ND	U	ug/m³	7.0	7.0	17.38	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 21:57	TD
74-87-3	Chloromethane	ND	U	ug/m³	3.7	3.7	17.38	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 21:57	TD
67-66-3	Chloroform	ND	U	ug/m³	8.6	8.6	17.38	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 21:57	TD
75-00-3	Chloroethane	ND	U	ug/m³	4.7	4.7	17.38	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 21:57	TD
56-23-5	Carbon tetrachloride	ND	U	ug/m³	5.6	5.6	17.38	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 21:57	TD
75-15-0	Carbon disulfide	ND	U	ug/m³	5.5	5.5	17.38	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 21:57	TD
74-83-9	Bromomethane	ND	U	ug/m³	6.9	6.9	17.38	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 21:57	TD
75-25-2	Bromoform	ND	U	ug/m³	18	18	17.38	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 21:57	TD
75-27-4	Bromodichloromethane	ND	U	ug/m³	11	11	17.38	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 21:57	TD

Sample Information

Client Sample ID: SV-4 (P-01) **York Sample ID:** 13E0710-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0710	170246501	Soil Vapor	May 20, 2013 3:00 pm	05/21/2013

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-44-7	Benzyl chloride	ND	U	ug/m³	9.2	9.2	17.38	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 21:57	TD
71-43-2	Benzene	ND	U	ug/m³	5.6	5.6	17.38	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 21:57	TD
67-64-1	Acetone	**30**	D	ug/m³	4.2	4.2	17.38	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 21:57	TD
591-78-6	2-Hexanone	ND	U	ug/m³	7.2	7.2	17.38	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 21:57	TD
78-93-3	2-Butanone	ND	U	ug/m³	5.2	5.2	17.38	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 21:57	TD
123-91-1	1,4-Dioxane	ND	U	ug/m³	6.4	6.4	17.38	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 21:57	TD
106-46-7	1,4-Dichlorobenzene	ND	U	ug/m³	11	11	17.38	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 21:57	TD
541-73-1	1,3-Dichlorobenzene	ND	U	ug/m³	11	11	17.38	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 21:57	TD
106-99-0	1,3-Butadiene	ND	U	ug/m³	7.7	7.7	17.38	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 21:57	TD
108-67-8	1,3,5-Trimethylbenzene	ND	U	ug/m³	8.7	8.7	17.38	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 21:57	TD
76-14-2	1,2-Dichlorotetrafluoroethane	ND	U	ug/m³	12	12	17.38	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 21:57	TD
78-87-5	1,2-Dichloropropane	ND	U	ug/m³	8.2	8.2	17.38	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 21:57	TD
107-06-2	1,2-Dichloroethane	ND	U	ug/m³	7.2	7.2	17.38	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 21:57	TD
95-50-1	1,2-Dichlorobenzene	ND	U	ug/m³	11	11	17.38	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 21:57	TD
95-63-6	1,2,4-Trimethylbenzene	ND	U	ug/m³	8.7	8.7	17.38	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 21:57	TD
120-82-1	1,2,4-Trichlorobenzene	ND	U	ug/m³	13	13	17.38	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 21:57	TD
75-35-4	1,1-Dichloroethylene	ND	U	ug/m³	7.0	7.0	17.38	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 21:57	TD
75-34-3	1,1-Dichloroethane	ND	U	ug/m³	7.2	7.2	17.38	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 21:57	TD
75-69-4	Trichlorofluoromethane (Freon 11)	ND	U	ug/m³	9.9	9.9	17.38	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 21:57	TD
79-00-5	1,1,2-Trichloroethane	ND	U	ug/m³	9.6	9.6	17.38	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 21:57	TD
76-13-1	,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113	ND	U	ug/m³	14	14	17.38	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 21:57	TD
79-34-5	1,1,2,2-Tetrachloroethane	ND	U	ug/m³	12	12	17.38	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 21:57	TD
71-55-6	1,1,1-Trichloroethane	ND	U	ug/m³	9.6	9.6	17.38	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 21:57	TD
75-71-8	Dichlorodifluoromethane	ND	U	ug/m³	8.7	8.7	17.38	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 21:57	TD
106-93-4	1,2-Dibromoethane	ND	U	ug/m³	14	14	17.38	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 21:57	TD
124-48-1	Dibromochloromethane	ND	U	ug/m³	14	14	17.38	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 21:57	TD
80-62-6	Methyl Methacrylate	ND	U	ug/m³	7.2	7.2	17.38	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 21:57	TD
108-90-7	Chlorobenzene	ND	U	ug/m³	8.1	8.1	17.38	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 21:57	TD

	Surrogate Recoveries	Result	Acceptance Range
460-00-4	*Surrogate: p-Bromofluorobenzene*	*103 %*	*70-130*

Sample Information

Client Sample ID: SV-5 (S 18) **York Sample ID:** 13E0710-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0710	170246501	Soil Vapor	May 20, 2013 3:00 pm	05/21/2013

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND	U	ug/m³	5.5	5.5	21	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 22:41	TD
108-05-4	Vinyl acetate	ND	U	ug/m³	7.5	7.5	21	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 22:41	TD
79-01-6	Trichloroethylene	ND	U	ug/m³	5.7	5.7	21	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 22:41	TD
10061-02-6	trans-1,3-Dichloropropylene	ND	U	ug/m³	9.7	9.7	21	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 22:41	TD
156-60-5	trans-1,2-Dichloroethylene	ND	U	ug/m³	8.5	8.5	21	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 22:41	TD
108-88-3	Toluene	**13**	D	ug/m³	8.0	8.0	21	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 22:41	TD
109-99-9	Tetrahydrofuran	ND	U	ug/m³	6.3	6.3	21	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 22:41	TD
127-18-4	Tetrachloroethylene	ND	U	ug/m³	14	14	21	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 22:41	TD
100-42-5	Styrene	ND	U	ug/m³	9.1	9.1	21	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 22:41	TD
115-07-01	Propylene	ND	U	ug/m³	3.7	3.7	21	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 22:41	TD
622-96-8	p-Ethyltoluene	ND	U	ug/m³	52	52	21	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 22:41	TD
179601-23-1	p- & m- Xylenes	ND	U	ug/m³	19	19	21	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 22:41	TD
95-47-6	o-Xylene	ND	U	ug/m³	9.3	9.3	21	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 22:41	TD
110-54-3	n-Hexane	**130**	D	ug/m³	7.5	7.5	21	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 22:41	TD
142-82-5	n-Heptane	**51**	D	ug/m³	8.8	8.8	21	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 22:41	TD
75-09-2	Methylene chloride	**8.9**	D	ug/m³	7.4	7.4	21	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 22:41	TD
1634-04-4	Methyl tert-butyl ether (MTBE)	ND	U	ug/m³	7.7	7.7	21	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 22:41	TD
108-10-1	4-Methyl-2-pentanone	ND	U	ug/m³	8.7	8.7	21	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 22:41	TD
67-63-0	Isopropanol	ND	U	ug/m³	5.2	5.2	21	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 22:41	TD
87-68-3	Hexachlorobutadiene	ND	U	ug/m³	23	23	21	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 22:41	TD
100-41-4	Ethyl Benzene	ND	U	ug/m³	9.3	9.3	21	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 22:41	TD
141-78-6	Ethyl acetate	ND	U	ug/m³	7.7	7.7	21	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 22:41	TD
110-82-7	Cyclohexane	ND	U	ug/m³	7.4	7.4	21	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 22:41	TD
10061-01-5	cis-1,3-Dichloropropylene	ND	U	ug/m³	9.7	9.7	21	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 22:41	TD
156-59-2	cis-1,2-Dichloroethylene	ND	U	ug/m³	8.5	8.5	21	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 22:41	TD
74-87-3	Chloromethane	ND	U	ug/m³	4.4	4.4	21	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 22:41	TD
67-66-3	Chloroform	ND	U	ug/m³	10	10	21	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 22:41	TD
75-00-3	Chloroethane	ND	U	ug/m³	5.6	5.6	21	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 22:41	TD
56-23-5	Carbon tetrachloride	ND	U	ug/m³	6.7	6.7	21	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 22:41	TD
75-15-0	Carbon disulfide	ND	U	ug/m³	6.7	6.7	21	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 22:41	TD
74-83-9	Bromomethane	ND	U	ug/m³	8.3	8.3	21	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 22:41	TD
75-25-2	Bromoform	ND	U	ug/m³	22	22	21	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 22:41	TD

Sample Information

Client Sample ID: SV-5 (S 18) **York Sample ID:** 13E0710-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0710	170246501	Soil Vapor	May 20, 2013 3:00 pm	05/21/2013

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-27-4	Bromodichloromethane	ND	U	ug/m³	13	13	21	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 22:41	TD
100-44-7	Benzyl chloride	ND	U	ug/m³	11	11	21	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 22:41	TD
71-43-2	Benzene	ND	U	ug/m³	6.8	6.8	21	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 22:41	TD
67-64-1	Acetone	**49**	D	ug/m³	5.1	5.1	21	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 22:41	TD
591-78-6	2-Hexanone	ND	U	ug/m³	8.7	8.7	21	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 22:41	TD
78-93-3	2-Butanone	ND	U	ug/m³	6.3	6.3	21	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 22:41	TD
123-91-1	1,4-Dioxane	ND	U	ug/m³	7.7	7.7	21	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 22:41	TD
106-46-7	1,4-Dichlorobenzene	ND	U	ug/m³	13	13	21	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 22:41	TD
541-73-1	1,3-Dichlorobenzene	ND	U	ug/m³	13	13	21	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 22:41	TD
106-99-0	1,3-Butadiene	ND	U	ug/m³	9.3	9.3	21	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 22:41	TD
108-67-8	1,3,5-Trimethylbenzene	ND	U	ug/m³	10	10	21	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 22:41	TD
76-14-2	1,2-Dichlorotetrafluoroethane	ND	U	ug/m³	15	15	21	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 22:41	TD
78-87-5	1,2-Dichloropropane	ND	U	ug/m³	9.9	9.9	21	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 22:41	TD
107-06-2	1,2-Dichloroethane	ND	U	ug/m³	8.6	8.6	21	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 22:41	TD
95-50-1	1,2-Dichlorobenzene	ND	U	ug/m³	13	13	21	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 22:41	TD
95-63-6	1,2,4-Trimethylbenzene	ND	U	ug/m³	10	10	21	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 22:41	TD
120-82-1	1,2,4-Trichlorobenzene	ND	U	ug/m³	16	16	21	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 22:41	TD
75-35-4	1,1-Dichloroethylene	ND	U	ug/m³	8.5	8.5	21	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 22:41	TD
75-34-3	1,1-Dichloroethane	ND	U	ug/m³	8.6	8.6	21	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 22:41	TD
75-69-4	Trichlorofluoromethane (Freon 11)	ND	U	ug/m³	12	12	21	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 22:41	TD
79-00-5	1,1,2-Trichloroethane	ND	U	ug/m³	12	12	21	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 22:41	TD
76-13-1	,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113	ND	U	ug/m³	16	16	21	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 22:41	TD
79-34-5	1,1,2,2-Tetrachloroethane	ND	U	ug/m³	15	15	21	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 22:41	TD
71-55-6	1,1,1-Trichloroethane	ND	U	ug/m³	12	12	21	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 22:41	TD
75-71-8	Dichlorodifluoromethane	ND	U	ug/m³	11	11	21	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 22:41	TD
106-93-4	1,2-Dibromoethane	ND	U	ug/m³	16	16	21	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 22:41	TD
124-48-1	Dibromochloromethane	ND	U	ug/m³	17	17	21	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 22:41	TD
80-62-6	Methyl Methacrylate	ND	U	ug/m³	8.7	8.7	21	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 22:41	TD
108-90-7	Chlorobenzene	ND	U	ug/m³	9.8	9.8	21	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 22:41	TD

	Surrogate Recoveries	Result	Acceptance Range
460-00-4	*Surrogate: p-Bromofluorobenzene*	*102 %*	*70-130*

Sample Information

Client Sample ID: KIC_AA (10091)

York Sample ID: 13E0710-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0710	170246501	Indoor Ambient Air	May 20, 2013 3:00 pm	05/21/2013

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND	U	ug/m³	0.17	0.17	0.66666	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 23:33	TD
108-05-4	Vinyl acetate	ND	U	ug/m³	0.24	0.24	0.66666	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 23:33	TD
79-01-6	Trichloroethylene	ND	U	ug/m³	0.18	0.18	0.66666	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 23:33	TD
10061-02-6	trans-1,3-Dichloropropylene	ND	U	ug/m³	0.31	0.31	0.66666	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 23:33	TD
156-60-5	trans-1,2-Dichloroethylene	ND	U	ug/m³	0.27	0.27	0.66666	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 23:33	TD
108-88-3	Toluene	**27**	D	ug/m³	0.26	0.26	0.66666	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 23:33	TD
109-99-9	Tetrahydrofuran	ND	U	ug/m³	0.20	0.20	0.66666	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 23:33	TD
127-18-4	Tetrachloroethylene	**3.7**	D	ug/m³	0.46	0.46	0.66666	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 23:33	TD
100-42-5	Styrene	ND	U	ug/m³	0.29	0.29	0.66666	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 23:33	TD
115-07-01	Propylene	ND	U	ug/m³	0.12	0.12	0.66666	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 23:33	TD
622-96-8	p-Ethyltoluene	ND	U	ug/m³	1.7	1.7	0.66666	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 23:33	TD
179601-23-1	p- & m- Xylenes	**5.6**	D	ug/m³	0.59	0.59	0.66666	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 23:33	TD
95-47-6	o-Xylene	**1.8**	D	ug/m³	0.29	0.29	0.66666	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 23:33	TD
110-54-3	n-Hexane	**24**	D	ug/m³	0.24	0.24	0.66666	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 23:33	TD
142-82-5	n-Heptane	ND	U	ug/m³	0.28	0.28	0.66666	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 23:33	TD
75-09-2	Methylene chloride	**12**	D	ug/m³	0.24	0.24	0.66666	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 23:33	TD
1634-04-4	Methyl tert-butyl ether (MTBE)	ND	U	ug/m³	0.24	0.24	0.66666	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 23:33	TD
108-10-1	4-Methyl-2-pentanone	ND	U	ug/m³	0.28	0.28	0.66666	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 23:33	TD
67-63-0	Isopropanol	**2.7**	D	ug/m³	0.17	0.17	0.66666	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 23:33	TD
87-68-3	Hexachlorobutadiene	ND	U	ug/m³	0.72	0.72	0.66666	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 23:33	TD
100-41-4	Ethyl Benzene	**1.7**	D	ug/m³	0.29	0.29	0.66666	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 23:33	TD
141-78-6	Ethyl acetate	ND	U	ug/m³	0.24	0.24	0.66666	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 23:33	TD
110-82-7	Cyclohexane	**1.3**	D	ug/m³	0.23	0.23	0.66666	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 23:33	TD
10061-01-5	cis-1,3-Dichloropropylene	ND	U	ug/m³	0.31	0.31	0.66666	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 23:33	TD
156-59-2	cis-1,2-Dichloroethylene	ND	U	ug/m³	0.27	0.27	0.66666	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 23:33	TD
74-87-3	Chloromethane	ND	U	ug/m³	0.14	0.14	0.66666	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 23:33	TD
67-66-3	Chloroform	ND	U	ug/m³	0.33	0.33	0.66666	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 23:33	TD
75-00-3	Chloroethane	ND	U	ug/m³	0.18	0.18	0.66666	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 23:33	TD
56-23-5	Carbon tetrachloride	**0.47**	D	ug/m³	0.21	0.21	0.66666	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 23:33	TD
75-15-0	Carbon disulfide	ND	U	ug/m³	0.21	0.21	0.66666	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 23:33	TD
74-83-9	Bromomethane	ND	U	ug/m³	0.26	0.26	0.66666	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 23:33	TD
75-25-2	Bromoform	ND	U	ug/m³	0.70	0.70	0.66666	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 23:33	TD
75-27-4	Bromodichloromethane	ND	U	ug/m³	0.42	0.42	0.66666	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 23:33	TD

Sample Information

Client Sample ID: KIC_AA (10091) **York Sample ID:** 13E0710-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0710	170246501	Indoor Ambient Air	May 20, 2013 3:00 pm	05/21/2013

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-44-7	Benzyl chloride	ND	U	ug/m³	0.35	0.35	0.66666	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 23:33	TD
71-43-2	Benzene	**2.0**	D	ug/m³	0.22	0.22	0.66666	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 23:33	TD
67-64-1	Acetone	**16**	D	ug/m³	0.16	0.16	0.66666	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 23:33	TD
591-78-6	2-Hexanone	ND	U	ug/m³	0.28	0.28	0.66666	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 23:33	TD
78-93-3	2-Butanone	**1.4**	D	ug/m³	0.20	0.20	0.66666	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 23:33	TD
123-91-1	1,4-Dioxane	ND	U	ug/m³	0.24	0.24	0.66666	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 23:33	TD
106-46-7	1,4-Dichlorobenzene	**0.41**	U, D	ug/m³	0.41	0.41	0.66666	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 23:33	TD
541-73-1	1,3-Dichlorobenzene	ND	U	ug/m³	0.41	0.41	0.66666	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 23:33	TD
106-99-0	1,3-Butadiene	ND	U	ug/m³	0.29	0.29	0.66666	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 23:33	TD
108-67-8	1,3,5-Trimethylbenzene	**0.37**	D	ug/m³	0.33	0.33	0.66666	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 23:33	TD
76-14-2	1,2-Dichlorotetrafluoroethane	ND	U	ug/m³	0.47	0.47	0.66666	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 23:33	TD
78-87-5	1,2-Dichloropropane	ND	U	ug/m³	0.31	0.31	0.66666	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 23:33	TD
107-06-2	1,2-Dichloroethane	ND	U	ug/m³	0.27	0.27	0.66666	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 23:33	TD
95-50-1	1,2-Dichlorobenzene	ND	U	ug/m³	0.41	0.41	0.66666	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 23:33	TD
95-63-6	1,2,4-Trimethylbenzene	**1.2**	D	ug/m³	0.33	0.33	0.66666	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 23:33	TD
120-82-1	1,2,4-Trichlorobenzene	ND	U	ug/m³	0.50	0.50	0.66666	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 23:33	TD
75-35-4	1,1-Dichloroethylene	ND	U	ug/m³	0.27	0.27	0.66666	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 23:33	TD
75-34-3	1,1-Dichloroethane	ND	U	ug/m³	0.27	0.27	0.66666	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 23:33	TD
75-69-4	Trichlorofluoromethane (Freon 11)	**1.9**	D	ug/m³	0.38	0.38	0.66666	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 23:33	TD
79-00-5	1,1,2-Trichloroethane	ND	U	ug/m³	0.37	0.37	0.66666	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 23:33	TD
76-13-1	1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	**0.62**	D	ug/m³	0.52	0.52	0.66666	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 23:33	TD
79-34-5	1,1,2,2-Tetrachloroethane	ND	U	ug/m³	0.47	0.47	0.66666	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 23:33	TD
71-55-6	1,1,1-Trichloroethane	ND	U	ug/m³	0.37	0.37	0.66666	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 23:33	TD
75-71-8	Dichlorodifluoromethane	**2.7**	D	ug/m³	0.34	0.34	0.66666	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 23:33	TD
106-93-4	1,2-Dibromoethane	ND	U	ug/m³	0.52	0.52	0.66666	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 23:33	TD
124-48-1	Dibromochloromethane	ND	U	ug/m³	0.54	0.54	0.66666	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 23:33	TD
80-62-6	Methyl Methacrylate	ND	U	ug/m³	0.28	0.28	0.66666	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 23:33	TD
108-90-7	Chlorobenzene	ND	U	ug/m³	0.31	0.31	0.66666	EPA Compendium TO-15	05/21/2013 09:00	05/22/2013 23:33	TD

	Surrogate Recoveries	Result	Acceptance Range
460-00-4	*Surrogate: p-Bromofluorobenzene*	*98.6 %*	*70-130*

Analytical Batch Summary

Batch ID: BE31148 **Preparation Method:** EPA TO15 PREP **Prepared By:** SR

YORK Sample ID	Client Sample ID	Preparation Date
13E0710-01	SV-1 (SN 01025)	05/21/13
13E0710-02	SV-2 (S 04)	05/21/13
13E0710-03	SV-3 (01047)	05/21/13
13E0710-04	SV-4 (P-01)	05/21/13
13E0710-05	SV-5 (S 18)	05/21/13
13E0710-06	KIC_AA (10091)	05/21/13
BE31148-BLK1	Blank	05/22/13
BE31148-BS1	LCS	05/22/13

Volatile Organic Compounds by EPA Compendium TO14A/TO15 - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BE31148 - EPA TO15 PREP											
Blank (BE31148-BLK1)											Prepared & Analyzed: 05/22/2013
Vinyl Chloride	ND	0.26	ug/m³								
Vinyl acetate	ND	0.36	"								
Trichloroethylene	ND	0.27	"								
trans-1,3-Dichloropropylene	ND	0.46	"								
trans-1,2-Dichloroethylene	ND	0.40	"								
Toluene	ND	0.38	"								
Tetrahydrofuran	ND	0.30	"								
Tetrachloroethylene	ND	0.69	"								
Styrene	ND	0.43	"								
Propylene	ND	0.18	"								
p-Ethyltoluene	ND	2.5	"								
p- & m- Xylenes	ND	0.88	"								
o-Xylene	ND	0.44	"								
n-Hexane	ND	0.36	"								
n-Heptane	ND	0.42	"								
Methylene chloride	ND	0.35	"								
Methyl tert-butyl ether (MTBE)	ND	0.37	"								
4-Methyl-2-pentanone	ND	0.42	"								
Isopropanol	ND	0.25	"								
Hexachlorobutadiene	ND	1.1	"								
Ethyl Benzene	ND	0.44	"								
Ethyl acetate	ND	0.37	"								
Cyclohexane	ND	0.35	"								
cis-1,3-Dichloropropylene	ND	0.46	"								
cis-1,2-Dichloroethylene	ND	0.40	"								
Chloromethane	ND	0.21	"								
Chloroform	ND	0.50	"								
Chloroethane	ND	0.27	"								
Carbon tetrachloride	ND	0.32	"								
Carbon disulfide	ND	0.32	"								
Bromomethane	ND	0.39	"								
Bromoform	ND	1.1	"								
Bromodichloromethane	ND	0.63	"								
Benzyl chloride	ND	0.53	"								
Benzene	ND	0.32	"								
Acetone	ND	0.24	"								
2-Hexanone	ND	0.42	"								
2-Butanone	ND	0.30	"								
1,4-Dioxane	ND	0.37	"								
1,4-Dichlorobenzene	ND	0.61	"								
1,3-Dichlorobenzene	ND	0.61	"								
1,3-Butadiene	ND	0.44	"								
1,3,5-Trimethylbenzene	ND	0.50	"								
1,2-Dichlorotetrafluoroethane	ND	0.71	"								
1,2-Dichloropropane	ND	0.47	"								
1,2-Dichloroethane	ND	0.41	"								
1,2-Dichlorobenzene	ND	0.61	"								
1,2,4-Trimethylbenzene	ND	0.50	"								
1,2,4-Trichlorobenzene	ND	0.75	"								
1,1-Dichloroethylene	ND	0.40	"								
1,1-Dichloroethane	ND	0.41	"								

Volatile Organic Compounds by EPA Compendium TO14A/TO15 - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BE31148 - EPA TO15 PREP											
Blank (BE31148-BLK1)								Prepared & Analyzed: 05/22/2013			
Trichlorofluoromethane (Freon 11)	ND	0.57	ug/m³								
1,1,2-Trichloroethane	ND	0.55	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.78	"								
1,1,2,2-Tetrachloroethane	ND	0.70	"								
1,1,1-Trichloroethane	ND	0.55	"								
Dichlorodifluoromethane	ND	0.50	"								
1,2-Dibromoethane	ND	0.78	"								
Dibromochloromethane	ND	0.82	"								
Methyl Methacrylate	ND	0.42	"								
Chlorobenzene	ND	0.47	"								
Surrogate: p-Bromofluorobenzene	*7.83*		*ppbv*	*10.0*		*78.3*	*70-130*				
LCS (BE31148-BS1)								Prepared & Analyzed: 05/22/2013			
Vinyl Chloride	11.1		ppbv	10.5		106	70-130				
Vinyl acetate	10.7		"	10.4		103	58.1-135				
Trichloroethylene	9.72		"	10.6		91.7	70-130				
trans-1,3-Dichloropropylene	13.2		"	11.5		115	62-135				
trans-1,2-Dichloroethylene	10.1		"	10.3		97.7	58.3-130				
Toluene	12.4		"	11.0		113	64.9-126				
Tetrahydrofuran	11.8		"	10.8		110	44.6-146				
Tetrachloroethylene	10.9		"	10.8		101	70-130				
Styrene	12.1		"	10.9		111	66.4-132				
Propylene	14.8		"	11.5		129	62.4-150				
p-Ethyltoluene	12.8		"	10.4		123	73.8-146				
p- & m- Xylenes	27.0		"	21.8		124	56.6-136				
o-Xylene	13.4		"	11.0		122	67.8-133				
n-Hexane	11.6		"	10.9		106	59.7-130				
n-Heptane	12.4		"	10.9		114	62.3-134				
Methylene chloride	8.43		"	9.70		86.9	62.6-130				
Methyl tert-butyl ether (MTBE)	7.71		"	10.3		74.9	60.7-139				
4-Methyl-2-pentanone	10.7		"	10.6		101	64.5-158				
Isopropanol	1.98		"	10.9		18.2	60-150	Low Bias			
Hexachlorobutadiene	10.2		"	10.2		99.7	61.2-150				
Ethyl Benzene	13.7		"	11.0		125	68.4-125				
Ethyl acetate	13.0		"	11.0		118	40.6-150				
Cyclohexane	11.5		"	10.8		106	60.4-127				
cis-1,3-Dichloropropylene	12.1		"	10.9		111	65.5-129				
cis-1,2-Dichloroethylene	10.0		"	10.8		93.1	51.3-118				
Chloromethane	10.0		"	10.3		97.1	64.9-130				
Chloroform	10.6		"	11.0		95.9	65.1-130				
Chloroethane	10.5		"	10.3		102	52.1-131				
Carbon tetrachloride	9.31		"	10.5		88.7	70-130				
Carbon disulfide	10.2		"	10.5		97.3	61.8-111				
Bromomethane	10.1		"	10.5		96.4	60.1-140				
Bromoform	13.1		"	10.9		121	58.7-150				
Bromodichloromethane	10.4		"	10.6		97.9	65.3-127				
Benzyl chloride	13.6		"	10.8		126	62.5-150				
Benzene	10.8		"	10.8		99.6	69.5-130				
Acetone	11.5		"	11.0		104	55.3-133				
2-Hexanone	7.37		"	10.9		67.6	52-150				
2-Butanone	12.4		"	10.9		114	28.5-154				
1,4-Dioxane	11.6		"	10.6		110	50-150				

Volatile Organic Compounds by EPA Compendium TO14A/TO15 - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BE31148 - EPA TO15 PREP											
LCS (BE31148-BS1)								Prepared & Analyzed: 05/22/2013			
1,4-Dichlorobenzene	14.0		ppbv	10.9		128	62.5-139				
1,3-Dichlorobenzene	13.8		"	10.8		128	71.9-153				
1,3-Butadiene	11.2		"	10.9		102	66.7-127				
1,3,5-Trimethylbenzene	13.2		"	11.0		120	65-152				
1,2-Dichlorotetrafluoroethane	10.5		"	10.5		100	63.3-129				
1,2-Dichloropropane	11.2		"	11.0		102	21.3-152				
1,2-Dichloroethane	10.4		"	10.7		97.5	51.2-124				
1,2-Dichlorobenzene	13.4		"	10.7		125	63.7-148				
1,2,4-Trimethylbenzene	12.9		"	11.0		118	67.9-152				
1,2,4-Trichlorobenzene	9.07		"	10.0		90.7	58-147				
1,1-Dichloroethylene	9.33		"	9.60		97.2	58.1-130				
1,1-Dichloroethane	9.96		"	10.3		96.7	63.3-130				
Trichlorofluoromethane (Freon 11)	10.1		"	11.0		92.1	56-132				
1,1,2-Trichloroethane	11.4		"	11.0		104	66-127				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	8.63		"	9.20		93.8	60.2-125				
1,1,2,2-Tetrachloroethane	13.4		"	11.0		122	63.7-132				
1,1,1-Trichloroethane	10.1		"	10.5		96.1	58.2-126				
Dichlorodifluoromethane	10.4		"	10.2		101	62.8-133				
1,2-Dibromoethane	11.9		"	11.0		108	70-130				
Dibromochloromethane	10.9		"	10.7		102	70-130				
Methyl Methacrylate	10.4		"	10.7		96.7	70-130				
Chlorobenzene	12.4		"	11.0		112	67.6-122				
Surrogate: p-Bromofluorobenzene	*10.5*		*"*	*10.0*		*105*	*70-130*				

Notes and Definitions

U	Analyte included in the analysis, but not detected
QL-02	This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
D	The result reported is from a dilution of the sample due to levels of target compounds found

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ND	Analyte NOT DETECTED at the stated Reporting Limit (RL) or above.
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
MDL	METHOD DETECTION LIMIT - the minimum concentration that can be measured and reported with a 99% confidence that the concentration is greater than zero. If requested or required, a value reported below the RL and above the MDL is considered estimated and is noted with a "J" flag.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two.
For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the MDL, with values between the MDL and the RL being "J" flagged as estimated results.

YORK
ANALYTICAL LABORATORIES, INC.
120 RESEARCH DR. STRATFORD, CT 06615
(203) 325-1371 FAX (203) 357-0166

Field Chain-of-Custody Record - AIR

NOTE: York's Std. Terms & Conditions are listed on the back side of this document.
This document serves as your written authorization to York to proceed with the analyses requested and your signature binds you to York's Std. Terms & Conditions unless superseded by written contract.

York Project No. 13E0710

YOUR Information
Company: Langan Engineering
Address: 30 W 31st St 8th Fl NY, NY 10001
Phone No. (212) 479-5400
Contact Person: Brandon Nuttle
E-Mail Address: BNuttle@langan.com

Report To:
Company: SAME
Address:
Phone No.
Attention: Paul McMahon
E-Mail Address: PMcMahon@langan.com

Invoice To:
Company: SAME
Address:
Phone No.
Attention:
E-Mail Address:

YOUR Project ID
170246501

Purchase Order No.

Samples from: CT ___ NY ✓ NJ ___

Turn-Around Time
- RUSH - Same Day ☐
- RUSH - Next Day ☐
- RUSH - Two Day ☐
- RUSH - Three Day ☐
- RUSH - Four Day ☑
- Standard(5-7 Days) ☐

Report Type/Deliverables
- Summary Report ✓
- Summary w/ QA Summary
- CT RCP Package
- NY ASP A Package
- NY ASP B/CLP Pkg ✓
- NJDEP Reduced
- *Electronic Deliverables:*
- EDD (Specify Type) NYSDEC
- Standard Excel X
- Regulatory Comparison Excel

Print Clearly and Legibly. All Information must be complete. Samples will NOT be logged in and the turn-around time clock will not begin until any questions by York are resolved.

Samples Collected/Authorized By (Signature)

Paul McMahon
Name (printed)

Air Matrix Codes
- AI - INDOOR Ambient Air
- AO- OUTDOOR Amb. Air
- AE- Vapor Extraction Well/ Process Gas/Effluent
- AS- SOIL Vapor/Sub-Slab

TO15 Volatiles and Other Gas Analyses
- EPA TO-15 List
- NYSDEC VI list
- NYSDEC STARS List
- Project Specific List by TO-15
- NJDEP Target List
- CTDEP RCP Target List
- EPA TO-14A List
- Tentatively Identified Compounds
- Air VPH
- Helium
- Methane
- OTHER

Detection Limits Required
- ≤ 1 ug/m³
- NYSDEC VI Limits (VI vapor intrusion)
- NJDEP low level
- Routine Survey
- Other

Special Instructions

Sample Identification	Date Sampled	AIR Matrix	Canister Vacuum Before Sampling (in. Hg)	Canister Vacuum After Sampling (in. Hg)	Choose Analyses Needed from the Menu Above and Enter Below	Sampling Media
SV-1 (SN01025)	5/20/13	AS	-32	-8	EPA TO-15 List	6 Liter Summa canister X / Tedlar Bag
SV-2 (S04)			-29	-5		6 Liter Summa canister X / Tedlar Bag
SV-3 (01047)			-29.5	-7		6 Liter Summa canister X / Tedlar Bag
SV-4 (P-01)			-32	-5		6 Liter Summa canister X / Tedlar Bag
SV-5 (S18)			-28	-6		6 Liter Summa canister X / Tedlar Bag
KIC_AA (10091)		AI	-32	-5		6 Liter Summa canister X / Tedlar Bag
						6 Liter Summa canister ___ / Tedlar Bag
						6 Liter Summa canister ___ / Tedlar Bag
						6 Liter Summa canister ___ / Tedlar Bag
						6 Liter Summa canister ___ / Tedlar Bag

Comments

Paul McMahon — Samples Relinquished By — 5/21/13 8:00 — Date/Time

Samples Relinquished By — Date/Time

R Baker — Samples Received By — 5-21-13 8AM — Date/Time

D Grace — Samples Received in LAB by — 5-21-13 1645 — Date/Time

Technical Report

prepared for:

Langan Engineering & Environmental Services (NYC)
21 Penn Plaza, 360 West 31st Street
New York NY, 10001
Attention: Paul McMahon

Report Date: 05/28/2013
Client Project ID: 170246501
York Project (SDG) No.: 13E0711

Report Date: 05/28/2013
Client Project ID: 170246501
York Project (SDG) No.: 13E0711

Langan Engineering & Environmental Services (NYC)
21 Penn Plaza, 360 West 31st Street
New York NY, 10001
Attention: Paul McMahon

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on May 21, 2013 and listed below. The project was identified as your project: **170246501**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the attachment to this report, and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
13E0711-01	MW-7 (1-5)	Soil	05/20/2013	05/21/2013
13E0711-02	MW-7 (7-9)	Soil	05/20/2013	05/21/2013
13E0711-03	MW-9 (0-2)	Soil	05/20/2013	05/21/2013
13E0711-04	MW-9 (6-8)	Soil	05/20/2013	05/21/2013
13E0711-05	MW-6 (0-2)	Soil	05/20/2013	05/21/2013
13E0711-06	MW-6 (9-11)	Soil	05/20/2013	05/21/2013
13E0711-07	MW-8 (0.5-2.5)	Soil	05/20/2013	05/21/2013
13E0711-08	MW-8 (7.5-9.5)	Soil	05/20/2013	05/21/2013
13E0711-09	TB-052113	Water	05/21/2013	05/21/2013

General Notes for York Project (SDG) No.: 13E0711

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation, unless otherwise noted.
6. All analyses conducted met method or Laboratory SOP requirements. See the Qualifiers and/or Narrative sections for further information.
7. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
8. This report reflects results ples submitted on the attached chain-of-custody form(s) received by York.

Approved By:  **Date:** 05/28/2013

Benjamin Gulizia
Laboratory Director

YORK

Sample Information

Client Sample ID: MW-7 (1-5) **York Sample ID:** 13E0711-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0711	170246501	Soil	May 20, 2013 1:25 pm	05/21/2013

Volatile Organics, 8260 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND	U	mg/kg dry	0.0035	0.0070	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 05:04	SS
71-55-6	1,1,1-Trichloroethane	ND	U	mg/kg dry	0.0035	0.0070	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 05:04	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND	U	mg/kg dry	0.0035	0.0070	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 05:04	SS
76-13-1	1,2-Trichloro-1,2,2-trifluoroethane (Freon 113	ND	U	mg/kg dry	0.0035	0.0070	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 05:04	SS
79-00-5	1,1,2-Trichloroethane	ND	U	mg/kg dry	0.0035	0.0070	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 05:04	SS
75-34-3	1,1-Dichloroethane	ND	U	mg/kg dry	0.0035	0.0070	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 05:04	SS
75-35-4	1,1-Dichloroethylene	ND	U	mg/kg dry	0.0035	0.0070	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 05:04	SS
563-58-6	1,1-Dichloropropylene	ND	U	mg/kg dry	0.0035	0.0070	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 05:04	SS
87-61-6	1,2,3-Trichlorobenzene	ND	U	mg/kg dry	0.0035	0.0070	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 05:04	SS
96-18-4	1,2,3-Trichloropropane	ND	U	mg/kg dry	0.0035	0.0070	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 05:04	SS
120-82-1	1,2,4-Trichlorobenzene	ND	U	mg/kg dry	0.0035	0.0070	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 05:04	SS
95-63-6	1,2,4-Trimethylbenzene	ND	U	mg/kg dry	0.0035	0.0070	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 05:04	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND	U	mg/kg dry	0.0035	0.0070	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 05:04	SS
106-93-4	1,2-Dibromoethane	ND	U	mg/kg dry	0.0035	0.0070	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 05:04	SS
95-50-1	1,2-Dichlorobenzene	ND	U	mg/kg dry	0.0035	0.0070	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 05:04	SS
107-06-2	1,2-Dichloroethane	ND	U	mg/kg dry	0.0035	0.0070	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 05:04	SS
78-87-5	1,2-Dichloropropane	ND	U	mg/kg dry	0.0035	0.0070	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 05:04	SS
108-67-8	1,3,5-Trimethylbenzene	ND	U	mg/kg dry	0.0035	0.0070	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 05:04	SS
541-73-1	1,3-Dichlorobenzene	ND	U	mg/kg dry	0.0035	0.0070	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 05:04	SS
142-28-9	1,3-Dichloropropane	ND	U	mg/kg dry	0.0035	0.0070	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 05:04	SS
106-46-7	1,4-Dichlorobenzene	ND	U	mg/kg dry	0.0035	0.0070	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 05:04	SS
123-91-1	1,4-Dioxane	ND	U	mg/kg dry	0.070	0.14	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 05:04	SS
594-20-7	2,2-Dichloropropane	ND	U	mg/kg dry	0.0035	0.0070	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 05:04	SS
78-93-3	2-Butanone	ND	U	mg/kg dry	0.0035	0.0070	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 05:04	SS
95-49-8	2-Chlorotoluene	ND	U	mg/kg dry	0.0035	0.0070	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 05:04	SS
106-43-4	4-Chlorotoluene	ND	U	mg/kg dry	0.0035	0.0070	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 05:04	SS
67-64-1	Acetone	ND	U	mg/kg dry	0.0035	0.014	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 05:04	SS
71-43-2	Benzene	ND	U	mg/kg dry	0.0035	0.0070	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 05:04	SS
108-86-1	Bromobenzene	ND	U	mg/kg dry	0.0035	0.0070	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 05:04	SS
74-97-5	Bromochloromethane	ND	U	mg/kg dry	0.0035	0.0070	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 05:04	SS
75-27-4	Bromodichloromethane	ND	U	mg/kg dry	0.0035	0.0070	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 05:04	SS
75-25-2	Bromoform	ND	U	mg/kg dry	0.0035	0.0070	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 05:04	SS

Sample Information

Client Sample ID: MW-7 (1-5) **York Sample ID:** 13E0711-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0711	170246501	Soil	May 20, 2013 1:25 pm	05/21/2013

Volatile Organics, 8260 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
74-83-9	Bromomethane	**0.019**		mg/kg dry	0.0035	0.0070	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 05:04	SS
56-23-5	Carbon tetrachloride	ND	U	mg/kg dry	0.0035	0.0070	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 05:04	SS
108-90-7	Chlorobenzene	ND	U	mg/kg dry	0.0035	0.0070	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 05:04	SS
75-00-3	Chloroethane	ND	U	mg/kg dry	0.0035	0.0070	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 05:04	SS
67-66-3	Chloroform	ND	U	mg/kg dry	0.0035	0.0070	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 05:04	SS
74-87-3	Chloromethane	ND	U	mg/kg dry	0.0035	0.0070	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 05:04	SS
156-59-2	cis-1,2-Dichloroethylene	ND	U	mg/kg dry	0.0035	0.0070	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 05:04	SS
10061-01-5	cis-1,3-Dichloropropylene	ND	U	mg/kg dry	0.0035	0.0070	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 05:04	SS
124-48-1	Dibromochloromethane	ND	U	mg/kg dry	0.0035	0.0070	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 05:04	SS
74-95-3	Dibromomethane	ND	U	mg/kg dry	0.0035	0.0070	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 05:04	SS
75-71-8	Dichlorodifluoromethane	ND	U	mg/kg dry	0.0035	0.0070	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 05:04	SS
100-41-4	Ethyl Benzene	ND	U	mg/kg dry	0.0035	0.0070	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 05:04	SS
87-68-3	Hexachlorobutadiene	ND	U	mg/kg dry	0.0035	0.0070	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 05:04	SS
98-82-8	Isopropylbenzene	ND	U	mg/kg dry	0.0035	0.0070	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 05:04	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND	U	mg/kg dry	0.0035	0.0070	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 05:04	SS
75-09-2	Methylene chloride	**0.022**		mg/kg dry	0.0035	0.014	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 05:04	SS
91-20-3	Naphthalene	ND	U	mg/kg dry	0.0035	0.014	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 05:04	SS
104-51-8	n-Butylbenzene	ND	U	mg/kg dry	0.0035	0.0070	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 05:04	SS
103-65-1	n-Propylbenzene	ND	U	mg/kg dry	0.0035	0.0070	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 05:04	SS
95-47-6	o-Xylene	ND	U	mg/kg dry	0.0035	0.0070	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 05:04	SS
179601-23-1	p- & m- Xylenes	ND	U	mg/kg dry	0.0070	0.014	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 05:04	SS
99-87-6	p-Isopropyltoluene	ND	U	mg/kg dry	0.0035	0.0070	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 05:04	SS
135-98-8	sec-Butylbenzene	ND	U	mg/kg dry	0.0035	0.0070	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 05:04	SS
100-42-5	Styrene	ND	U	mg/kg dry	0.0035	0.0070	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 05:04	SS
98-06-6	tert-Butylbenzene	ND	U	mg/kg dry	0.0035	0.0070	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 05:04	SS
127-18-4	Tetrachloroethylene	ND	U	mg/kg dry	0.0035	0.0070	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 05:04	SS
108-88-3	Toluene	ND	U	mg/kg dry	0.0035	0.0070	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 05:04	SS
156-60-5	trans-1,2-Dichloroethylene	ND	U	mg/kg dry	0.0035	0.0070	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 05:04	SS
10061-02-6	trans-1,3-Dichloropropylene	ND	U	mg/kg dry	0.0035	0.0070	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 05:04	SS
79-01-6	Trichloroethylene	ND	U	mg/kg dry	0.0035	0.0070	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 05:04	SS
75-69-4	Trichlorofluoromethane	ND	U	mg/kg dry	0.0035	0.0070	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 05:04	SS
75-01-4	Vinyl Chloride	ND	U	mg/kg dry	0.0035	0.0070	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 05:04	SS

Sample Information

Client Sample ID: MW-7 (1-5) **York Sample ID:** 13E0711-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0711	170246501	Soil	May 20, 2013 1:25 pm	05/21/2013

Volatile Organics, 8260 List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1330-20-7	Xylenes, Total	ND	U	mg/kg dry	0.011	0.021	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 05:04	SS
108-05-4	Vinyl acetate	ND	U	mg/kg dry	0.0035	0.0070	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 05:04	SS

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*126 %*	*73-130*
460-00-4	*Surrogate: p-Bromofluorobenzene*	*99.7 %*	*72-127*
2037-26-5	*Surrogate: Toluene-d8*	*117 %*	*84-117*

Semi-Volatiles, 8270 Target List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND	U	mg/kg dry	0.496	1.37	5	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 15:34	SR
208-96-8	Acenaphthylene	ND	U	mg/kg dry	0.658	1.37	5	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 15:34	SR
62-53-3	Aniline	ND	U	mg/kg dry	0.784	1.37	5	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 15:34	SR
120-12-7	Anthracene	ND	U	mg/kg dry	0.749	1.37	5	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 15:34	SR
56-55-3	Benzo(a)anthracene	**0.554**	J, D	mg/kg dry	0.513	1.37	5	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 15:34	SR
50-32-8	Benzo(a)pyrene	**0.729**	J, D	mg/kg dry	0.543	1.37	5	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 15:34	SR
205-99-2	Benzo(b)fluoranthene	ND	U	mg/kg dry	1.15	1.37	5	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 15:34	SR
191-24-2	Benzo(g,h,i)perylene	ND	U	mg/kg dry	0.455	1.37	5	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 15:34	SR
100-51-6	Benzyl alcohol	ND	U	mg/kg dry	1.37	1.37	5	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 15:34	SR
207-08-9	Benzo(k)fluoranthene	ND	U	mg/kg dry	1.37	1.37	5	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 15:34	SR
85-68-7	Benzyl butyl phthalate	ND	U	mg/kg dry	0.757	1.37	5	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 15:34	SR
101-55-3	4-Bromophenyl phenyl ether	ND	U	mg/kg dry	0.661	1.37	5	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 15:34	SR
59-50-7	4-Chloro-3-methylphenol	ND	U	mg/kg dry	0.924	1.37	5	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 15:34	SR
106-47-8	4-Chloroaniline	ND	U	mg/kg dry	0.357	1.37	5	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 15:34	SR
111-91-1	Bis(2-chloroethoxy)methane	ND	U	mg/kg dry	0.472	1.37	5	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 15:34	SR
111-44-4	Bis(2-chloroethyl)ether	ND	U	mg/kg dry	0.699	1.37	5	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 15:34	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND	U	mg/kg dry	0.483	1.37	5	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 15:34	SR
117-81-7	Bis(2-ethylhexyl)phthalate	ND	U	mg/kg dry	0.946	1.37	5	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 15:34	SR
91-58-7	2-Chloronaphthalene	ND	U	mg/kg dry	0.740	1.37	5	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 15:34	SR
95-57-8	2-Chlorophenol	ND	U	mg/kg dry	0.452	1.37	5	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 15:34	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND	U	mg/kg dry	0.804	1.37	5	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 15:34	SR
218-01-9	Chrysene	**0.655**	J, D	mg/kg dry	0.631	1.37	5	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 15:34	SR
53-70-3	Dibenzo(a,h)anthracene	ND	U	mg/kg dry	0.551	1.37	5	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 15:34	SR
132-64-9	Dibenzofuran	ND	U	mg/kg dry	0.639	1.37	5	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 15:34	SR

Sample Information

Client Sample ID: MW-7 (1-5) **York Sample ID:** 13E0711-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0711	170246501	Soil	May 20, 2013 1:25 pm	05/21/2013

Semi-Volatiles, 8270 Target List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
84-74-2	Di-n-butyl phthalate	ND	U	mg/kg dry	0.557	1.37	5	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 15:34	SR
95-50-1	1,2-Dichlorobenzene	ND	U	mg/kg dry	0.897	1.37	5	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 15:34	SR
106-46-7	1,4-Dichlorobenzene	ND	U	mg/kg dry	0.845	1.37	5	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 15:34	SR
541-73-1	1,3-Dichlorobenzene	ND	U	mg/kg dry	0.433	1.37	5	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 15:34	SR
91-94-1	3,3'-Dichlorobenzidine	ND	U	mg/kg dry	0.719	1.37	5	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 15:34	SR
120-83-2	2,4-Dichlorophenol	ND	U	mg/kg dry	1.12	1.37	5	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 15:34	SR
84-66-2	Diethyl phthalate	ND	U	mg/kg dry	0.861	1.37	5	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 15:34	SR
105-67-9	2,4-Dimethylphenol	ND	U	mg/kg dry	0.960	1.37	5	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 15:34	SR
131-11-3	Dimethyl phthalate	ND	U	mg/kg dry	0.612	1.37	5	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 15:34	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND	U	mg/kg dry	1.73	2.74	5	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 15:34	SR
88-74-4	2-Nitroaniline	ND	U	mg/kg dry	1.20	1.37	5	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 15:34	SR
51-28-5	2,4-Dinitrophenol	ND	U	mg/kg dry	1.15	2.74	5	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 15:34	SR
606-20-2	2,6-Dinitrotoluene	ND	U	mg/kg dry	0.705	1.37	5	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 15:34	SR
121-14-2	2,4-Dinitrotoluene	ND	U	mg/kg dry	0.606	1.37	5	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 15:34	SR
117-84-0	Di-n-octyl phthalate	ND	U	mg/kg dry	1.37	1.37	5	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 15:34	SR
206-44-0	Fluoranthene	**1.04**	J, D	mg/kg dry	0.804	1.37	5	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 15:34	SR
86-73-7	Fluorene	ND	U	mg/kg dry	0.658	1.37	5	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 15:34	SR
118-74-1	Hexachlorobenzene	ND	U	mg/kg dry	0.809	1.37	5	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 15:34	SR
87-68-3	Hexachlorobutadiene	ND	U	mg/kg dry	0.463	1.37	5	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 15:34	SR
77-47-4	Hexachlorocyclopentadiene	ND	U	mg/kg dry	1.02	1.37	5	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 15:34	SR
67-72-1	Hexachloroethane	ND	U	mg/kg dry	0.392	1.37	5	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 15:34	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND	U	mg/kg dry	0.625	1.37	5	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 15:34	SR
78-59-1	Isophorone	ND	U	mg/kg dry	0.472	1.37	5	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 15:34	SR
91-57-6	2-Methylnaphthalene	ND	U	mg/kg dry	1.05	1.37	5	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 15:34	SR
95-48-7	2-Methylphenol	ND	U	mg/kg dry	0.521	1.37	5	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 15:34	SR
65794-96-9	3- & 4-Methylphenols	ND	U	mg/kg dry	0.595	1.37	5	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 15:34	SR
91-20-3	Naphthalene	ND	U	mg/kg dry	0.337	1.37	5	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 15:34	SR
99-09-2	3-Nitroaniline	ND	U	mg/kg dry	1.36	1.37	5	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 15:34	SR
100-01-6	4-Nitroaniline	ND	U	mg/kg dry	0.568	1.37	5	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 15:34	SR
98-95-3	Nitrobenzene	ND	U	mg/kg dry	0.403	1.37	5	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 15:34	SR
100-02-7	4-Nitrophenol	ND	U	mg/kg dry	0.516	1.37	5	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 15:34	SR
88-75-5	2-Nitrophenol	ND	U	mg/kg dry	0.373	1.37	5	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 15:34	SR

Sample Information

Client Sample ID: MW-7 (1-5) **York Sample ID:** 13E0711-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0711	170246501	Soil	May 20, 2013 1:25 pm	05/21/2013

Semi-Volatiles, 8270 Target List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
621-64-7	N-nitroso-di-n-propylamine	ND	U	mg/kg dry	0.458	1.37	5	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 15:34	SR
62-75-9	N-Nitrosodimethylamine	ND	U	mg/kg dry	0.562	1.37	5	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 15:34	SR
86-30-6	N-Nitrosodiphenylamine	ND	U	mg/kg dry	0.620	1.37	5	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 15:34	SR
87-86-5	Pentachlorophenol	ND	U	mg/kg dry	1.03	1.37	5	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 15:34	SR
85-01-8	Phenanthrene	**0.941**	J, D	mg/kg dry	0.716	1.37	5	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 15:34	SR
108-95-2	Phenol	ND	U	mg/kg dry	0.592	1.37	5	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 15:34	SR
129-00-0	Pyrene	**1.30**	J, D	mg/kg dry	0.559	1.37	5	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 15:34	SR
110-86-1	Pyridine	ND	U	mg/kg dry	0.963	1.37	5	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 15:34	SR
120-82-1	1,2,4-Trichlorobenzene	ND	U	mg/kg dry	0.496	1.37	5	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 15:34	SR
95-95-4	2,4,5-Trichlorophenol	ND	U	mg/kg dry	1.06	1.37	5	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 15:34	SR
88-06-2	2,4,6-Trichlorophenol	ND	U	mg/kg dry	0.697	1.37	5	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 15:34	SR

	Surrogate Recoveries	Result	Acceptance Range
5175-83-7	*Surrogate: 2,4,6-Tribromophenol*	*68.5 %*	*15-110*
321-60-8	*Surrogate: 2-Fluorobiphenyl*	*75.2 %*	*30-130*
367-12-4	*Surrogate: 2-Fluorophenol*	*52.4 %*	*15-110*
4165-60-0	*Surrogate: Nitrobenzene-d5*	*61.6 %*	*30-130*
4165-62-2	*Surrogate: Phenol-d5*	*65.8 %*	*15-110*
1718-51-0	*Surrogate: Terphenyl-d14*	*103 %*	*30-130*

Pesticides/PCBs, EPA 8081/8082 List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
8001-35-2	Toxaphene	ND	U	mg/kg dry	0.137	0.137	5	EPA SW 846-8081/8082	05/22/2013 14:35	05/23/2013 10:38	JW
72-43-5	Methoxychlor	ND	U	mg/kg dry	0.0136	0.0136	5	EPA SW 846-8081/8082	05/22/2013 14:35	05/23/2013 10:38	JW
1024-57-3	Heptachlor epoxide	ND	U	mg/kg dry	0.00271	0.00271	5	EPA SW 846-8081/8082	05/22/2013 14:35	05/23/2013 10:38	JW
76-44-8	Heptachlor	ND	U	mg/kg dry	0.00271	0.00271	5	EPA SW 846-8081/8082	05/22/2013 14:35	05/23/2013 10:38	JW
58-89-9	gamma-BHC (Lindane)	ND	U	mg/kg dry	0.00271	0.00271	5	EPA SW 846-8081/8082	05/22/2013 14:35	05/23/2013 10:38	JW
53494-70-5	Endrin ketone	ND	U	mg/kg dry	0.00271	0.00271	5	EPA SW 846-8081/8082	05/22/2013 14:35	05/23/2013 10:38	JW
7421-93-4	Endrin aldehyde	ND	U	mg/kg dry	0.00271	0.00271	5	EPA SW 846-8081/8082	05/22/2013 14:35	05/23/2013 10:38	JW
72-20-8	Endrin	ND	U	mg/kg dry	0.00271	0.00271	5	EPA SW 846-8081/8082	05/22/2013 14:35	05/23/2013 10:38	JW
1031-07-8	Endosulfan sulfate	ND	U	mg/kg dry	0.00271	0.00271	5	EPA SW 846-8081/8082	05/22/2013 14:35	05/23/2013 10:38	JW
33213-65-9	Endosulfan II	ND	U	mg/kg dry	0.00271	0.00271	5	EPA SW 846-8081/8082	05/22/2013 14:35	05/23/2013 10:38	JW
959-98-8	Endosulfan I	ND	U	mg/kg dry	0.00271	0.00271	5	EPA SW 846-8081/8082	05/22/2013 14:35	05/23/2013 10:38	JW
60-57-1	Dieldrin	ND	U	mg/kg dry	0.00271	0.00271	5	EPA SW 846-8081/8082	05/22/2013 14:35	05/23/2013 10:38	JW
319-86-8	delta-BHC	ND	U	mg/kg dry	0.00271	0.00271	5	EPA SW 846-8081/8082	05/22/2013 14:35	05/23/2013 10:38	JW

Sample Information

Client Sample ID: MW-7 (1-5) **York Sample ID:** 13E0711-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0711	170246501	Soil	May 20, 2013 1:25 pm	05/21/2013

Pesticides/PCBs, EPA 8081/8082 List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-74-9	Chlordane, total	ND	U	mg/kg dry	0.0109	0.0109	5	EPA SW 846-8081/8082	05/22/2013 14:35	05/23/2013 10:38	JW
319-85-7	beta-BHC	ND	U	mg/kg dry	0.00271	0.00271	5	EPA SW 846-8081/8082	05/22/2013 14:35	05/23/2013 10:38	JW
319-84-6	alpha-BHC	ND	U	mg/kg dry	0.00271	0.00271	5	EPA SW 846-8081/8082	05/22/2013 14:35	05/23/2013 10:38	JW
309-00-2	Aldrin	ND	U	mg/kg dry	0.00271	0.00271	5	EPA SW 846-8081/8082	05/22/2013 14:35	05/23/2013 10:38	JW
50-29-3	4,4'-DDT	**0.0120**	D	mg/kg dry	0.00271	0.00271	5	EPA SW 846-8081/8082	05/22/2013 14:35	05/23/2013 10:38	JW
72-55-9	4,4'-DDE	**0.00722**	D	mg/kg dry	0.00271	0.00271	5	EPA SW 846-8081/8082	05/22/2013 14:35	05/23/2013 10:38	JW
72-54-8	4,4'-DDD	ND	U	mg/kg dry	0.00271	0.00271	5	EPA SW 846-8081/8082	05/22/2013 14:35	05/23/2013 10:38	JW
11096-82-5	Aroclor 1260	ND	U	mg/kg dry	0.0280	0.0280	1	EPA SW 846-8081/8082	05/22/2013 14:35	05/23/2013 10:15	JW
11097-69-1	Aroclor 1254	ND	U	mg/kg dry	0.0280	0.0280	1	EPA SW 846-8081/8082	05/22/2013 14:35	05/23/2013 10:15	JW
12672-29-6	Aroclor 1248	ND	U	mg/kg dry	0.0280	0.0280	1	EPA SW 846-8081/8082	05/22/2013 14:35	05/23/2013 10:15	JW
53469-21-9	Aroclor 1242	ND	U	mg/kg dry	0.0280	0.0280	1	EPA SW 846-8081/8082	05/22/2013 14:35	05/23/2013 10:15	JW
11141-16-5	Aroclor 1232	ND	U	mg/kg dry	0.0280	0.0280	1	EPA SW 846-8081/8082	05/22/2013 14:35	05/23/2013 10:15	JW
11104-28-2	Aroclor 1221	ND	U	mg/kg dry	0.0280	0.0280	1	EPA SW 846-8081/8082	05/22/2013 14:35	05/23/2013 10:15	JW
12674-11-2	Aroclor 1016	ND	U	mg/kg dry	0.0280	0.0280	1	EPA SW 846-8081/8082	05/22/2013 14:35	05/23/2013 10:15	JW
1336-36-3	Total PCBs	ND	U	mg/kg dry	0.0112	0.0280	1	EPA SW 846-8081/8082	05/22/2013 14:35	05/23/2013 10:15	JW

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*66.3 %*	*30-150*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*50.8 %*	*30-150*

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	**18700**		mg/kg dry	1.12	2.19	1	EPA SW846-6010B	05/22/2013 14:56	05/22/2013 23:09	MW
7440-36-0	Antimony	ND	U	mg/kg dry	0.241	0.548	1	EPA SW846-6010B	05/22/2013 14:56	05/22/2013 23:09	MW
7440-38-2	Arsenic	**6.39**		mg/kg dry	0.373	1.10	1	EPA SW846-6010B	05/22/2013 14:56	05/22/2013 23:09	MW
7440-39-3	Barium	**558**		mg/kg dry	0.143	0.548	1	EPA SW846-6010B	05/22/2013 14:56	05/22/2013 23:09	MW
7440-41-7	Beryllium	ND	U	mg/kg dry	0.110	0.110	1	EPA SW846-6010B	05/22/2013 14:56	05/22/2013 23:09	MW
7440-43-9	Cadmium	**1.17**		mg/kg dry	0.110	0.548	1	EPA SW846-6010B	05/22/2013 14:56	05/22/2013 23:09	MW
7440-70-2	Calcium	**7470**		mg/kg dry	0.044	5.48	1	EPA SW846-6010B	05/22/2013 14:56	05/22/2013 23:09	MW
7440-47-3	Chromium	**25.1**		mg/kg dry	0.132	0.548	1	EPA SW846-6010B	05/22/2013 14:56	05/22/2013 23:09	MW
7440-48-4	Cobalt	**16.7**		mg/kg dry	0.088	0.548	1	EPA SW846-6010B	05/22/2013 14:56	05/22/2013 23:09	MW
7440-50-8	Copper	**50.1**		mg/kg dry	0.132	0.548	1	EPA SW846-6010B	05/22/2013 14:56	05/22/2013 23:09	MW
7439-89-6	Iron	**42500**	E	mg/kg dry	0.713	2.19	1	EPA SW846-6010B	05/22/2013 14:56	05/22/2013 23:09	MW
7439-92-1	Lead	**392**		mg/kg dry	0.186	0.329	1	EPA SW846-6010B	05/22/2013 14:56	05/22/2013 23:09	MW
7439-95-4	Magnesium	**11700**		mg/kg dry	0.494	5.48	1	EPA SW846-6010B	05/22/2013 14:56	05/22/2013 23:09	MW

Sample Information

Client Sample ID: MW-7 (1-5) **York Sample ID:** 13E0711-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0711	170246501	Soil	May 20, 2013 1:25 pm	05/21/2013

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-96-5	Manganese	**432**		mg/kg dry	0.121	1.10	1	EPA SW846-6010B	05/22/2013 14:56	05/22/2013 23:09	MW
7440-02-0	Nickel	**24.3**		mg/kg dry	0.143	0.548	1	EPA SW846-6010B	05/22/2013 14:56	05/22/2013 23:09	MW
7440-09-7	Potassium	**12300**	B	mg/kg dry	3.71	11.0	1	EPA SW846-6010B	05/22/2013 14:56	05/22/2013 23:09	MW
7782-49-2	Selenium	ND	U	mg/kg dry	0.548	0.548	1	EPA SW846-6010B	05/22/2013 14:56	05/22/2013 23:09	MW
7440-22-4	Silver	ND	U	mg/kg dry	0.110	0.548	1	EPA SW846-6010B	05/22/2013 14:56	05/22/2013 23:09	MW
7440-23-5	Sodium	**326**	B	mg/kg dry	5.78	11.0	1	EPA SW846-6010B	05/22/2013 14:56	05/22/2013 23:09	MW
7440-28-0	Thallium	ND	U	mg/kg dry	0.351	0.548	1	EPA SW846-6010B	05/22/2013 14:56	05/22/2013 23:09	MW
7440-62-2	Vanadium	**64.0**		mg/kg dry	0.121	0.548	1	EPA SW846-6010B	05/22/2013 14:56	05/22/2013 23:09	MW
7440-66-6	Zinc	**501**		mg/kg dry	0.099	0.548	1	EPA SW846-6010B	05/22/2013 14:56	05/22/2013 23:09	MW

Mercury by 7470/7471

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-7471

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND	U	mg/kg dry	0.0362	0.0362	1	EPA SW846-7471	05/22/2013 15:05	05/23/2013 09:05	AA

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	**91.2**		%	0.100	0.100	1	SM 2540G	05/22/2013 12:11	05/23/2013 09:58	AMC

Sample Information

Client Sample ID: MW-7 (7-9) **York Sample ID:** 13E0711-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0711	170246501	Soil	May 20, 2013 1:35 pm	05/21/2013

Volatile Organics, 8260 List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND	U	mg/kg dry	0.0024	0.0048	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 05:52	SS
71-55-6	1,1,1-Trichloroethane	ND	U	mg/kg dry	0.0024	0.0048	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 05:52	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND	U	mg/kg dry	0.0024	0.0048	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 05:52	SS
76-13-1	,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113	ND	U	mg/kg dry	0.0024	0.0048	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 05:52	SS
79-00-5	1,1,2-Trichloroethane	ND	U	mg/kg dry	0.0024	0.0048	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 05:52	SS
75-34-3	1,1-Dichloroethane	ND	U	mg/kg dry	0.0024	0.0048	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 05:52	SS
75-35-4	1,1-Dichloroethylene	ND	U	mg/kg dry	0.0024	0.0048	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 05:52	SS

Sample Information

Client Sample ID: MW-7 (7-9) **York Sample ID:** 13E0711-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0711	170246501	Soil	May 20, 2013 1:35 pm	05/21/2013

Volatile Organics, 8260 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
563-58-6	1,1-Dichloropropylene	ND	U	mg/kg dry	0.0024	0.0048	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 05:52	SS
87-61-6	1,2,3-Trichlorobenzene	ND	U	mg/kg dry	0.0024	0.0048	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 05:52	SS
96-18-4	1,2,3-Trichloropropane	ND	U	mg/kg dry	0.0024	0.0048	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 05:52	SS
120-82-1	1,2,4-Trichlorobenzene	ND	U	mg/kg dry	0.0024	0.0048	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 05:52	SS
95-63-6	1,2,4-Trimethylbenzene	ND	U	mg/kg dry	0.0024	0.0048	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 05:52	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND	U	mg/kg dry	0.0024	0.0048	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 05:52	SS
106-93-4	1,2-Dibromoethane	ND	U	mg/kg dry	0.0024	0.0048	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 05:52	SS
95-50-1	1,2-Dichlorobenzene	ND	U	mg/kg dry	0.0024	0.0048	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 05:52	SS
107-06-2	1,2-Dichloroethane	ND	U	mg/kg dry	0.0024	0.0048	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 05:52	SS
78-87-5	1,2-Dichloropropane	ND	U	mg/kg dry	0.0024	0.0048	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 05:52	SS
108-67-8	1,3,5-Trimethylbenzene	ND	U	mg/kg dry	0.0024	0.0048	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 05:52	SS
541-73-1	1,3-Dichlorobenzene	ND	U	mg/kg dry	0.0024	0.0048	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 05:52	SS
142-28-9	1,3-Dichloropropane	ND	U	mg/kg dry	0.0024	0.0048	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 05:52	SS
106-46-7	1,4-Dichlorobenzene	ND	U	mg/kg dry	0.0024	0.0048	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 05:52	SS
123-91-1	1,4-Dioxane	ND	U	mg/kg dry	0.048	0.096	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 05:52	SS
594-20-7	2,2-Dichloropropane	ND	U	mg/kg dry	0.0024	0.0048	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 05:52	SS
78-93-3	2-Butanone	ND	U	mg/kg dry	0.0024	0.0048	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 05:52	SS
95-49-8	2-Chlorotoluene	ND	U	mg/kg dry	0.0024	0.0048	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 05:52	SS
106-43-4	4-Chlorotoluene	ND	U	mg/kg dry	0.0024	0.0048	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 05:52	SS
67-64-1	Acetone	ND	U	mg/kg dry	0.0024	0.0096	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 05:52	SS
71-43-2	Benzene	ND	U	mg/kg dry	0.0024	0.0048	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 05:52	SS
108-86-1	Bromobenzene	ND	U	mg/kg dry	0.0024	0.0048	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 05:52	SS
74-97-5	Bromochloromethane	ND	U	mg/kg dry	0.0024	0.0048	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 05:52	SS
75-27-4	Bromodichloromethane	ND	U	mg/kg dry	0.0024	0.0048	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 05:52	SS
75-25-2	Bromoform	ND	U	mg/kg dry	0.0024	0.0048	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 05:52	SS
74-83-9	Bromomethane	ND	U	mg/kg dry	0.0024	0.0048	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 05:52	SS
56-23-5	Carbon tetrachloride	ND	U	mg/kg dry	0.0024	0.0048	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 05:52	SS
108-90-7	Chlorobenzene	ND	U	mg/kg dry	0.0024	0.0048	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 05:52	SS
75-00-3	Chloroethane	ND	U	mg/kg dry	0.0024	0.0048	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 05:52	SS
67-66-3	Chloroform	ND	U	mg/kg dry	0.0024	0.0048	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 05:52	SS
74-87-3	Chloromethane	ND	U	mg/kg dry	0.0024	0.0048	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 05:52	SS
156-59-2	cis-1,2-Dichloroethylene	ND	U	mg/kg dry	0.0024	0.0048	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 05:52	SS

Sample Information

Client Sample ID: MW-7 (7-9) **York Sample ID:** 13E0711-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0711	170246501	Soil	May 20, 2013 1:35 pm	05/21/2013

Volatile Organics, 8260 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
10061-01-5	cis-1,3-Dichloropropylene	ND	U	mg/kg dry	0.0024	0.0048	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 05:52	SS
124-48-1	Dibromochloromethane	ND	U	mg/kg dry	0.0024	0.0048	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 05:52	SS
74-95-3	Dibromomethane	ND	U	mg/kg dry	0.0024	0.0048	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 05:52	SS
75-71-8	Dichlorodifluoromethane	ND	U	mg/kg dry	0.0024	0.0048	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 05:52	SS
100-41-4	Ethyl Benzene	ND	U	mg/kg dry	0.0024	0.0048	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 05:52	SS
87-68-3	Hexachlorobutadiene	ND	U	mg/kg dry	0.0024	0.0048	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 05:52	SS
98-82-8	Isopropylbenzene	ND	U	mg/kg dry	0.0024	0.0048	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 05:52	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND	U	mg/kg dry	0.0024	0.0048	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 05:52	SS
75-09-2	Methylene chloride	**0.011**		mg/kg dry	0.0024	0.0096	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 05:52	SS
91-20-3	Naphthalene	ND	U	mg/kg dry	0.0024	0.0096	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 05:52	SS
104-51-8	n-Butylbenzene	ND	U	mg/kg dry	0.0024	0.0048	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 05:52	SS
103-65-1	n-Propylbenzene	ND	U	mg/kg dry	0.0024	0.0048	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 05:52	SS
95-47-6	o-Xylene	ND	U	mg/kg dry	0.0024	0.0048	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 05:52	SS
179601-23-1	p- & m- Xylenes	ND	U	mg/kg dry	0.0048	0.0096	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 05:52	SS
99-87-6	p-Isopropyltoluene	ND	U	mg/kg dry	0.0024	0.0048	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 05:52	SS
135-98-8	sec-Butylbenzene	ND	U	mg/kg dry	0.0024	0.0048	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 05:52	SS
100-42-5	Styrene	ND	U	mg/kg dry	0.0024	0.0048	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 05:52	SS
98-06-6	tert-Butylbenzene	ND	U	mg/kg dry	0.0024	0.0048	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 05:52	SS
127-18-4	Tetrachloroethylene	ND	U	mg/kg dry	0.0024	0.0048	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 05:52	SS
108-88-3	Toluene	ND	U	mg/kg dry	0.0024	0.0048	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 05:52	SS
156-60-5	trans-1,2-Dichloroethylene	ND	U	mg/kg dry	0.0024	0.0048	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 05:52	SS
10061-02-6	trans-1,3-Dichloropropylene	ND	U	mg/kg dry	0.0024	0.0048	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 05:52	SS
79-01-6	Trichloroethylene	ND	U	mg/kg dry	0.0024	0.0048	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 05:52	SS
75-69-4	Trichlorofluoromethane	ND	U	mg/kg dry	0.0024	0.0048	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 05:52	SS
75-01-4	Vinyl Chloride	ND	U	mg/kg dry	0.0024	0.0048	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 05:52	SS
1330-20-7	Xylenes, Total	ND	U	mg/kg dry	0.0072	0.014	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 05:52	SS
108-05-4	Vinyl acetate	ND	U	mg/kg dry	0.0024	0.0048	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 05:52	SS

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*107 %*	*73-130*
460-00-4	*Surrogate: p-Bromofluorobenzene*	*100 %*	*72-127*
2037-26-5	*Surrogate: Toluene-d8*	*99.5 %*	*84-117*

Sample Information

Client Sample ID: MW-7 (7-9) **York Sample ID:** 13E0711-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0711	170246501	Soil	May 20, 2013 1:35 pm	05/21/2013

Semi-Volatiles, 8270 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND	U	mg/kg dry	0.0993	0.274	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 16:05	SR
208-96-8	Acenaphthylene	ND	U	mg/kg dry	0.132	0.274	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 16:05	SR
62-53-3	Aniline	ND	U	mg/kg dry	0.157	0.274	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 16:05	SR
120-12-7	Anthracene	ND	U	mg/kg dry	0.150	0.274	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 16:05	SR
56-55-3	Benzo(a)anthracene	ND	U	mg/kg dry	0.103	0.274	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 16:05	SR
50-32-8	Benzo(a)pyrene	ND	U	mg/kg dry	0.109	0.274	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 16:05	SR
205-99-2	Benzo(b)fluoranthene	ND	U	mg/kg dry	0.230	0.274	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 16:05	SR
191-24-2	Benzo(g,h,i)perylene	ND	U	mg/kg dry	0.0910	0.274	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 16:05	SR
100-51-6	Benzyl alcohol	ND	U	mg/kg dry	0.274	0.274	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 16:05	SR
207-08-9	Benzo(k)fluoranthene	ND	U	mg/kg dry	0.274	0.274	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 16:05	SR
85-68-7	Benzyl butyl phthalate	ND	U	mg/kg dry	0.151	0.274	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 16:05	SR
101-55-3	4-Bromophenyl phenyl ether	ND	U	mg/kg dry	0.132	0.274	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 16:05	SR
59-50-7	4-Chloro-3-methylphenol	ND	U	mg/kg dry	0.185	0.274	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 16:05	SR
106-47-8	4-Chloroaniline	ND	U	mg/kg dry	0.0713	0.274	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 16:05	SR
111-91-1	Bis(2-chloroethoxy)methane	ND	U	mg/kg dry	0.0943	0.274	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 16:05	SR
111-44-4	Bis(2-chloroethyl)ether	ND	U	mg/kg dry	0.140	0.274	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 16:05	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND	U	mg/kg dry	0.0965	0.274	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 16:05	SR
117-81-7	Bis(2-ethylhexyl)phthalate	ND	U	mg/kg dry	0.189	0.274	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 16:05	SR
91-58-7	2-Chloronaphthalene	ND	U	mg/kg dry	0.148	0.274	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 16:05	SR
95-57-8	2-Chlorophenol	ND	U	mg/kg dry	0.0905	0.274	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 16:05	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND	U	mg/kg dry	0.161	0.274	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 16:05	SR
218-01-9	Chrysene	ND	U	mg/kg dry	0.126	0.274	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 16:05	SR
53-70-3	Dibenzo(a,h)anthracene	ND	U	mg/kg dry	0.110	0.274	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 16:05	SR
132-64-9	Dibenzofuran	ND	U	mg/kg dry	0.128	0.274	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 16:05	SR
84-74-2	Di-n-butyl phthalate	ND	U	mg/kg dry	0.111	0.274	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 16:05	SR
95-50-1	1,2-Dichlorobenzene	ND	U	mg/kg dry	0.179	0.274	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 16:05	SR
106-46-7	1,4-Dichlorobenzene	ND	U	mg/kg dry	0.169	0.274	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 16:05	SR
541-73-1	1,3-Dichlorobenzene	ND	U	mg/kg dry	0.0866	0.274	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 16:05	SR
91-94-1	3,3'-Dichlorobenzidine	ND	U	mg/kg dry	0.144	0.274	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 16:05	SR
120-83-2	2,4-Dichlorophenol	ND	U	mg/kg dry	0.224	0.274	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 16:05	SR
84-66-2	Diethyl phthalate	ND	U	mg/kg dry	0.172	0.274	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 16:05	SR
105-67-9	2,4-Dimethylphenol	ND	U	mg/kg dry	0.192	0.274	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 16:05	SR

Sample Information

Client Sample ID: MW-7 (7-9) **York Sample ID:** 13E0711-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0711	170246501	Soil	May 20, 2013 1:35 pm	05/21/2013

Semi-Volatiles, 8270 Target List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
131-11-3	Dimethyl phthalate	ND	U	mg/kg dry	0.122	0.274	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 16:05	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND	U	mg/kg dry	0.345	0.548	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 16:05	SR
88-74-4	2-Nitroaniline	ND	U	mg/kg dry	0.239	0.274	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 16:05	SR
51-28-5	2,4-Dinitrophenol	ND	U	mg/kg dry	0.230	0.548	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 16:05	SR
606-20-2	2,6-Dinitrotoluene	ND	U	mg/kg dry	0.141	0.274	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 16:05	SR
121-14-2	2,4-Dinitrotoluene	ND	U	mg/kg dry	0.121	0.274	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 16:05	SR
117-84-0	Di-n-octyl phthalate	ND	U	mg/kg dry	0.274	0.274	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 16:05	SR
206-44-0	Fluoranthene	ND	U	mg/kg dry	0.161	0.274	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 16:05	SR
86-73-7	Fluorene	ND	U	mg/kg dry	0.132	0.274	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 16:05	SR
118-74-1	Hexachlorobenzene	ND	U	mg/kg dry	0.162	0.274	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 16:05	SR
87-68-3	Hexachlorobutadiene	ND	U	mg/kg dry	0.0927	0.274	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 16:05	SR
77-47-4	Hexachlorocyclopentadiene	ND	U	mg/kg dry	0.204	0.274	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 16:05	SR
67-72-1	Hexachloroethane	ND	U	mg/kg dry	0.0784	0.274	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 16:05	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND	U	mg/kg dry	0.125	0.274	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 16:05	SR
78-59-1	Isophorone	ND	U	mg/kg dry	0.0943	0.274	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 16:05	SR
91-57-6	2-Methylnaphthalene	ND	U	mg/kg dry	0.211	0.274	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 16:05	SR
95-48-7	2-Methylphenol	ND	U	mg/kg dry	0.104	0.274	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 16:05	SR
65794-96-9	3- & 4-Methylphenols	ND	U	mg/kg dry	0.119	0.274	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 16:05	SR
91-20-3	Naphthalene	ND	U	mg/kg dry	0.0674	0.274	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 16:05	SR
99-09-2	3-Nitroaniline	ND	U	mg/kg dry	0.273	0.274	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 16:05	SR
100-01-6	4-Nitroaniline	ND	U	mg/kg dry	0.114	0.274	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 16:05	SR
98-95-3	Nitrobenzene	ND	U	mg/kg dry	0.0806	0.274	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 16:05	SR
100-02-7	4-Nitrophenol	ND	U	mg/kg dry	0.103	0.274	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 16:05	SR
88-75-5	2-Nitrophenol	ND	U	mg/kg dry	0.0746	0.274	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 16:05	SR
621-64-7	N-nitroso-di-n-propylamine	ND	U	mg/kg dry	0.0916	0.274	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 16:05	SR
62-75-9	N-Nitrosodimethylamine	ND	U	mg/kg dry	0.112	0.274	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 16:05	SR
86-30-6	N-Nitrosodiphenylamine	ND	U	mg/kg dry	0.124	0.274	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 16:05	SR
87-86-5	Pentachlorophenol	ND	U	mg/kg dry	0.207	0.274	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 16:05	SR
85-01-8	Phenanthrene	ND	U	mg/kg dry	0.143	0.274	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 16:05	SR
108-95-2	Phenol	ND	U	mg/kg dry	0.118	0.274	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 16:05	SR
129-00-0	Pyrene	ND	U	mg/kg dry	0.112	0.274	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 16:05	SR
110-86-1	Pyridine	ND	U	mg/kg dry	0.192	0.274	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 16:05	SR

Sample Information

Client Sample ID: MW-7 (7-9) **York Sample ID:** 13E0711-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0711	170246501	Soil	May 20, 2013 1:35 pm	05/21/2013

Semi-Volatiles, 8270 Target List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
120-82-1	1,2,4-Trichlorobenzene	ND	U	mg/kg dry	0.0993	0.274	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 16:05	SR
95-95-4	2,4,5-Trichlorophenol	ND	U	mg/kg dry	0.213	0.274	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 16:05	SR
88-06-2	2,4,6-Trichlorophenol	ND	U	mg/kg dry	0.139	0.274	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 16:05	SR

	Surrogate Recoveries	Result	Acceptance Range
5175-83-7	*Surrogate: 2,4,6-Tribromophenol*	*78.1 %*	*15-110*
321-60-8	*Surrogate: 2-Fluorobiphenyl*	*65.8 %*	*30-130*
367-12-4	*Surrogate: 2-Fluorophenol*	*52.9 %*	*15-110*
4165-60-0	*Surrogate: Nitrobenzene-d5*	*41.3 %*	*30-130*
4165-62-2	*Surrogate: Phenol-d5*	*66.7 %*	*15-110*
1718-51-0	*Surrogate: Terphenyl-d14*	*108 %*	*30-130*

Polychlorinated Biphenyls (PCB)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0280	0.0280	1	EPA SW 846-8082A	05/22/2013 14:35	05/23/2013 10:44	JW
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0280	0.0280	1	EPA SW 846-8082A	05/22/2013 14:35	05/23/2013 10:44	JW
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0280	0.0280	1	EPA SW 846-8082A	05/22/2013 14:35	05/23/2013 10:44	JW
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0280	0.0280	1	EPA SW 846-8082A	05/22/2013 14:35	05/23/2013 10:44	JW
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0280	0.0280	1	EPA SW 846-8082A	05/22/2013 14:35	05/23/2013 10:44	JW
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0280	0.0280	1	EPA SW 846-8082A	05/22/2013 14:35	05/23/2013 10:44	JW
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0280	0.0280	1	EPA SW 846-8082A	05/22/2013 14:35	05/23/2013 10:44	JW
1336-36-3	Total PCBs	ND		mg/kg dry	0.0280	0.0280	1	EPA SW 846-8082A	05/22/2013 14:35	05/23/2013 10:44	JW

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*60.5 %*	*30-150*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*43.3 %*	*30-150*

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	**9940**		mg/kg dry	1.12	2.19	1	EPA SW846-6010B	05/22/2013 14:56	05/22/2013 23:14	MW
7440-36-0	Antimony	ND	U	mg/kg dry	0.241	0.548	1	EPA SW846-6010B	05/22/2013 14:56	05/22/2013 23:14	MW
7440-38-2	Arsenic	**2.65**		mg/kg dry	0.373	1.10	1	EPA SW846-6010B	05/22/2013 14:56	05/22/2013 23:14	MW
7440-39-3	Barium	**143**		mg/kg dry	0.143	0.548	1	EPA SW846-6010B	05/22/2013 14:56	05/22/2013 23:14	MW
7440-41-7	Beryllium	ND	U	mg/kg dry	0.110	0.110	1	EPA SW846-6010B	05/22/2013 14:56	05/22/2013 23:14	MW
7440-43-9	Cadmium	ND	U	mg/kg dry	0.110	0.548	1	EPA SW846-6010B	05/22/2013 14:56	05/22/2013 23:14	MW
7440-70-2	Calcium	**2980**		mg/kg dry	0.044	5.48	1	EPA SW846-6010B	05/22/2013 14:56	05/22/2013 23:14	MW

Sample Information

Client Sample ID: MW-7 (7-9) **York Sample ID:** 13E0711-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0711	170246501	Soil	May 20, 2013 1:35 pm	05/21/2013

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-47-3	Chromium	**17.0**		mg/kg dry	0.132	0.548	1	EPA SW846-6010B	05/22/2013 14:56	05/22/2013 23:14	MW
7440-48-4	Cobalt	**9.04**		mg/kg dry	0.088	0.548	1	EPA SW846-6010B	05/22/2013 14:56	05/22/2013 23:14	MW
7440-50-8	Copper	**12.9**		mg/kg dry	0.132	0.548	1	EPA SW846-6010B	05/22/2013 14:56	05/22/2013 23:14	MW
7439-89-6	Iron	**16900**		mg/kg dry	0.713	2.19	1	EPA SW846-6010B	05/22/2013 14:56	05/22/2013 23:14	MW
7439-92-1	Lead	**9.87**		mg/kg dry	0.186	0.329	1	EPA SW846-6010B	05/22/2013 14:56	05/22/2013 23:14	MW
7439-95-4	Magnesium	**5410**		mg/kg dry	0.494	5.48	1	EPA SW846-6010B	05/22/2013 14:56	05/22/2013 23:14	MW
7439-96-5	Manganese	**215**		mg/kg dry	0.121	1.10	1	EPA SW846-6010B	05/22/2013 14:56	05/22/2013 23:14	MW
7440-02-0	Nickel	**15.8**		mg/kg dry	0.143	0.548	1	EPA SW846-6010B	05/22/2013 14:56	05/22/2013 23:14	MW
7440-09-7	Potassium	**3820**	B	mg/kg dry	3.71	11.0	1	EPA SW846-6010B	05/22/2013 14:56	05/22/2013 23:14	MW
7782-49-2	Selenium	ND	U	mg/kg dry	0.548	0.548	1	EPA SW846-6010B	05/22/2013 14:56	05/22/2013 23:14	MW
7440-22-4	Silver	ND	U	mg/kg dry	0.110	0.548	1	EPA SW846-6010B	05/22/2013 14:56	05/22/2013 23:14	MW
7440-23-5	Sodium	**188**	B	mg/kg dry	5.78	11.0	1	EPA SW846-6010B	05/22/2013 14:56	05/22/2013 23:14	MW
7440-28-0	Thallium	ND	U	mg/kg dry	0.351	0.548	1	EPA SW846-6010B	05/22/2013 14:56	05/22/2013 23:14	MW
7440-62-2	Vanadium	**36.6**		mg/kg dry	0.121	0.548	1	EPA SW846-6010B	05/22/2013 14:56	05/22/2013 23:14	MW
7440-66-6	Zinc	**49.3**		mg/kg dry	0.099	0.548	1	EPA SW846-6010B	05/22/2013 14:56	05/22/2013 23:14	MW

Mercury by 7470/7471

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-7471

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND	U	mg/kg dry	0.0362	0.0362	1	EPA SW846-7471	05/22/2013 15:05	05/23/2013 09:05	AA

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	**91.2**		%	0.100	0.100	1	SM 2540G	05/22/2013 12:11	05/23/2013 09:58	AMC

Sample Information

Client Sample ID: MW-9 (0-2) **York Sample ID:** 13E0711-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0711	170246501	Soil	May 20, 2013 3:35 pm	05/21/2013

Volatile Organics, 8260 List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND	U	mg/kg dry	0.0026	0.0053	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 06:40	SS
71-55-6	1,1,1-Trichloroethane	ND	U	mg/kg dry	0.0026	0.0053	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 06:40	SS

Sample Information

Client Sample ID: MW-9 (0-2) **York Sample ID:** 13E0711-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0711	170246501	Soil	May 20, 2013 3:35 pm	05/21/2013

Volatile Organics, 8260 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
79-34-5	1,1,2,2-Tetrachloroethane	ND	U	mg/kg dry	0.0026	0.0053	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 06:40	SS
76-13-1	,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113	ND	U	mg/kg dry	0.0026	0.0053	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 06:40	SS
79-00-5	1,1,2-Trichloroethane	ND	U	mg/kg dry	0.0026	0.0053	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 06:40	SS
75-34-3	1,1-Dichloroethane	ND	U	mg/kg dry	0.0026	0.0053	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 06:40	SS
75-35-4	1,1-Dichloroethylene	ND	U	mg/kg dry	0.0026	0.0053	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 06:40	SS
563-58-6	1,1-Dichloropropylene	ND	U	mg/kg dry	0.0026	0.0053	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 06:40	SS
87-61-6	1,2,3-Trichlorobenzene	ND	U	mg/kg dry	0.0026	0.0053	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 06:40	SS
96-18-4	1,2,3-Trichloropropane	ND	U	mg/kg dry	0.0026	0.0053	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 06:40	SS
120-82-1	1,2,4-Trichlorobenzene	ND	U	mg/kg dry	0.0026	0.0053	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 06:40	SS
95-63-6	1,2,4-Trimethylbenzene	ND	U	mg/kg dry	0.0026	0.0053	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 06:40	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND	U	mg/kg dry	0.0026	0.0053	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 06:40	SS
106-93-4	1,2-Dibromoethane	ND	U	mg/kg dry	0.0026	0.0053	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 06:40	SS
95-50-1	1,2-Dichlorobenzene	ND	U	mg/kg dry	0.0026	0.0053	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 06:40	SS
107-06-2	1,2-Dichloroethane	ND	U	mg/kg dry	0.0026	0.0053	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 06:40	SS
78-87-5	1,2-Dichloropropane	ND	U	mg/kg dry	0.0026	0.0053	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 06:40	SS
108-67-8	1,3,5-Trimethylbenzene	ND	U	mg/kg dry	0.0026	0.0053	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 06:40	SS
541-73-1	1,3-Dichlorobenzene	ND	U	mg/kg dry	0.0026	0.0053	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 06:40	SS
142-28-9	1,3-Dichloropropane	ND	U	mg/kg dry	0.0026	0.0053	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 06:40	SS
106-46-7	1,4-Dichlorobenzene	ND	U	mg/kg dry	0.0026	0.0053	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 06:40	SS
123-91-1	1,4-Dioxane	ND	U	mg/kg dry	0.053	0.11	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 06:40	SS
594-20-7	2,2-Dichloropropane	ND	U	mg/kg dry	0.0026	0.0053	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 06:40	SS
78-93-3	2-Butanone	ND	U	mg/kg dry	0.0026	0.0053	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 06:40	SS
95-49-8	2-Chlorotoluene	ND	U	mg/kg dry	0.0026	0.0053	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 06:40	SS
106-43-4	4-Chlorotoluene	ND	U	mg/kg dry	0.0026	0.0053	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 06:40	SS
67-64-1	Acetone	ND	U	mg/kg dry	0.0026	0.011	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 06:40	SS
71-43-2	Benzene	ND	U	mg/kg dry	0.0026	0.0053	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 06:40	SS
108-86-1	Bromobenzene	ND	U	mg/kg dry	0.0026	0.0053	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 06:40	SS
74-97-5	Bromochloromethane	ND	U	mg/kg dry	0.0026	0.0053	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 06:40	SS
75-27-4	Bromodichloromethane	ND	U	mg/kg dry	0.0026	0.0053	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 06:40	SS
75-25-2	Bromoform	ND	U	mg/kg dry	0.0026	0.0053	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 06:40	SS
74-83-9	Bromomethane	ND	U	mg/kg dry	0.0026	0.0053	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 06:40	SS
56-23-5	Carbon tetrachloride	ND	U	mg/kg dry	0.0026	0.0053	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 06:40	SS

Sample Information

Client Sample ID: MW-9 (0-2) **York Sample ID:** 13E0711-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0711	170246501	Soil	May 20, 2013 3:35 pm	05/21/2013

Volatile Organics, 8260 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-90-7	Chlorobenzene	ND	U	mg/kg dry	0.0026	0.0053	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 06:40	SS
75-00-3	Chloroethane	ND	U	mg/kg dry	0.0026	0.0053	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 06:40	SS
67-66-3	Chloroform	ND	U	mg/kg dry	0.0026	0.0053	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 06:40	SS
74-87-3	Chloromethane	ND	U	mg/kg dry	0.0026	0.0053	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 06:40	SS
156-59-2	cis-1,2-Dichloroethylene	ND	U	mg/kg dry	0.0026	0.0053	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 06:40	SS
10061-01-5	cis-1,3-Dichloropropylene	ND	U	mg/kg dry	0.0026	0.0053	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 06:40	SS
124-48-1	Dibromochloromethane	ND	U	mg/kg dry	0.0026	0.0053	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 06:40	SS
74-95-3	Dibromomethane	ND	U	mg/kg dry	0.0026	0.0053	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 06:40	SS
75-71-8	Dichlorodifluoromethane	ND	U	mg/kg dry	0.0026	0.0053	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 06:40	SS
100-41-4	Ethyl Benzene	ND	U	mg/kg dry	0.0026	0.0053	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 06:40	SS
87-68-3	Hexachlorobutadiene	ND	U	mg/kg dry	0.0026	0.0053	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 06:40	SS
98-82-8	Isopropylbenzene	ND	U	mg/kg dry	0.0026	0.0053	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 06:40	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND	U	mg/kg dry	0.0026	0.0053	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 06:40	SS
75-09-2	Methylene chloride	**0.014**		mg/kg dry	0.0026	0.011	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 06:40	SS
91-20-3	Naphthalene	ND	U	mg/kg dry	0.0026	0.011	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 06:40	SS
104-51-8	n-Butylbenzene	ND	U	mg/kg dry	0.0026	0.0053	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 06:40	SS
103-65-1	n-Propylbenzene	ND	U	mg/kg dry	0.0026	0.0053	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 06:40	SS
95-47-6	o-Xylene	ND	U	mg/kg dry	0.0026	0.0053	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 06:40	SS
179601-23-1	p- & m- Xylenes	ND	U	mg/kg dry	0.0053	0.011	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 06:40	SS
99-87-6	p-Isopropyltoluene	ND	U	mg/kg dry	0.0026	0.0053	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 06:40	SS
135-98-8	sec-Butylbenzene	ND	U	mg/kg dry	0.0026	0.0053	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 06:40	SS
100-42-5	Styrene	ND	U	mg/kg dry	0.0026	0.0053	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 06:40	SS
98-06-6	tert-Butylbenzene	ND	U	mg/kg dry	0.0026	0.0053	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 06:40	SS
127-18-4	Tetrachloroethylene	ND	U	mg/kg dry	0.0026	0.0053	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 06:40	SS
108-88-3	Toluene	ND	U	mg/kg dry	0.0026	0.0053	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 06:40	SS
156-60-5	trans-1,2-Dichloroethylene	ND	U	mg/kg dry	0.0026	0.0053	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 06:40	SS
10061-02-6	trans-1,3-Dichloropropylene	ND	U	mg/kg dry	0.0026	0.0053	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 06:40	SS
79-01-6	Trichloroethylene	ND	U	mg/kg dry	0.0026	0.0053	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 06:40	SS
75-69-4	Trichlorofluoromethane	ND	U	mg/kg dry	0.0026	0.0053	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 06:40	SS
75-01-4	Vinyl Chloride	ND	U	mg/kg dry	0.0026	0.0053	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 06:40	SS
1330-20-7	Xylenes, Total	ND	U	mg/kg dry	0.0079	0.016	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 06:40	SS
108-05-4	Vinyl acetate	ND	U	mg/kg dry	0.0026	0.0053	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 06:40	SS

Sample Information

Client Sample ID: MW-9 (0-2) **York Sample ID:** 13E0711-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0711	170246501	Soil	May 20, 2013 3:35 pm	05/21/2013

Volatile Organics, 8260 List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate Recoveries	**Result**		**Acceptance Range**							
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*112 %*		*73-130*							
460-00-4	*Surrogate: p-Bromofluorobenzene*	*98.7 %*		*72-127*							
2037-26-5	*Surrogate: Toluene-d8*	*99.6 %*		*84-117*							

Semi-Volatiles, 8270 Target List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND	U	mg/kg dry	0.0999	0.276	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 16:36	SR
208-96-8	Acenaphthylene	ND	U	mg/kg dry	0.132	0.276	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 16:36	SR
62-53-3	Aniline	ND	U	mg/kg dry	0.158	0.276	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 16:36	SR
120-12-7	Anthracene	ND	U	mg/kg dry	0.151	0.276	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 16:36	SR
56-55-3	Benzo(a)anthracene	**0.361**		mg/kg dry	0.103	0.276	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 16:36	SR
50-32-8	Benzo(a)pyrene	**0.447**		mg/kg dry	0.109	0.276	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 16:36	SR
205-99-2	Benzo(b)fluoranthene	**0.421**		mg/kg dry	0.231	0.276	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 16:36	SR
191-24-2	Benzo(g,h,i)perylene	**0.105**	J	mg/kg dry	0.0916	0.276	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 16:36	SR
100-51-6	Benzyl alcohol	ND	U	mg/kg dry	0.276	0.276	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 16:36	SR
207-08-9	Benzo(k)fluoranthene	**0.369**		mg/kg dry	0.276	0.276	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 16:36	SR
85-68-7	Benzyl butyl phthalate	ND	U	mg/kg dry	0.152	0.276	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 16:36	SR
101-55-3	4-Bromophenyl phenyl ether	ND	U	mg/kg dry	0.133	0.276	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 16:36	SR
59-50-7	4-Chloro-3-methylphenol	ND	U	mg/kg dry	0.186	0.276	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 16:36	SR
106-47-8	4-Chloroaniline	ND	U	mg/kg dry	0.0717	0.276	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 16:36	SR
111-91-1	Bis(2-chloroethoxy)methane	ND	U	mg/kg dry	0.0949	0.276	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 16:36	SR
111-44-4	Bis(2-chloroethyl)ether	ND	U	mg/kg dry	0.141	0.276	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 16:36	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND	U	mg/kg dry	0.0971	0.276	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 16:36	SR
117-81-7	Bis(2-ethylhexyl)phthalate	ND	U	mg/kg dry	0.190	0.276	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 16:36	SR
91-58-7	2-Chloronaphthalene	ND	U	mg/kg dry	0.149	0.276	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 16:36	SR
95-57-8	2-Chlorophenol	ND	U	mg/kg dry	0.0910	0.276	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 16:36	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND	U	mg/kg dry	0.162	0.276	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 16:36	SR
218-01-9	Chrysene	**0.404**		mg/kg dry	0.127	0.276	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 16:36	SR
53-70-3	Dibenzo(a,h)anthracene	ND	U	mg/kg dry	0.111	0.276	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 16:36	SR
132-64-9	Dibenzofuran	ND	U	mg/kg dry	0.129	0.276	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 16:36	SR
84-74-2	Di-n-butyl phthalate	ND	U	mg/kg dry	0.112	0.276	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 16:36	SR
95-50-1	1,2-Dichlorobenzene	ND	U	mg/kg dry	0.180	0.276	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 16:36	SR

Sample Information

Client Sample ID: MW-9 (0-2) **York Sample ID:** 13E0711-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0711	170246501	Soil	May 20, 2013 3:35 pm	05/21/2013

Semi-Volatiles, 8270 Target List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
106-46-7	1,4-Dichlorobenzene	ND	U	mg/kg dry	0.170	0.276	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 16:36	SR
541-73-1	1,3-Dichlorobenzene	ND	U	mg/kg dry	0.0872	0.276	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 16:36	SR
91-94-1	3,3'-Dichlorobenzidine	ND	U	mg/kg dry	0.145	0.276	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 16:36	SR
120-83-2	2,4-Dichlorophenol	ND	U	mg/kg dry	0.225	0.276	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 16:36	SR
84-66-2	Diethyl phthalate	ND	U	mg/kg dry	0.173	0.276	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 16:36	SR
105-67-9	2,4-Dimethylphenol	ND	U	mg/kg dry	0.193	0.276	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 16:36	SR
131-11-3	Dimethyl phthalate	ND	U	mg/kg dry	0.123	0.276	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 16:36	SR
88-74-4	2-Nitroaniline	ND	U	mg/kg dry	0.241	0.276	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 16:36	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND	U	mg/kg dry	0.348	0.552	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 16:36	SR
51-28-5	2,4-Dinitrophenol	ND	U	mg/kg dry	0.232	0.552	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 16:36	SR
606-20-2	2,6-Dinitrotoluene	ND	U	mg/kg dry	0.142	0.276	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 16:36	SR
121-14-2	2,4-Dinitrotoluene	ND	U	mg/kg dry	0.122	0.276	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 16:36	SR
117-84-0	Di-n-octyl phthalate	ND	U	mg/kg dry	0.276	0.276	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 16:36	SR
206-44-0	Fluoranthene	**0.622**		mg/kg dry	0.162	0.276	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 16:36	SR
86-73-7	Fluorene	ND	U	mg/kg dry	0.132	0.276	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 16:36	SR
118-74-1	Hexachlorobenzene	ND	U	mg/kg dry	0.163	0.276	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 16:36	SR
87-68-3	Hexachlorobutadiene	ND	U	mg/kg dry	0.0932	0.276	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 16:36	SR
77-47-4	Hexachlorocyclopentadiene	ND	U	mg/kg dry	0.205	0.276	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 16:36	SR
67-72-1	Hexachloroethane	ND	U	mg/kg dry	0.0789	0.276	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 16:36	SR
193-39-5	Indeno(1,2,3-cd)pyrene	**0.134**	J	mg/kg dry	0.126	0.276	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 16:36	SR
78-59-1	Isophorone	ND	U	mg/kg dry	0.0949	0.276	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 16:36	SR
91-57-6	2-Methylnaphthalene	ND	U	mg/kg dry	0.212	0.276	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 16:36	SR
95-48-7	2-Methylphenol	ND	U	mg/kg dry	0.105	0.276	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 16:36	SR
65794-96-9	3- & 4-Methylphenols	ND	U	mg/kg dry	0.120	0.276	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 16:36	SR
91-20-3	Naphthalene	ND	U	mg/kg dry	0.0679	0.276	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 16:36	SR
99-09-2	3-Nitroaniline	ND	U	mg/kg dry	0.274	0.276	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 16:36	SR
100-01-6	4-Nitroaniline	ND	U	mg/kg dry	0.114	0.276	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 16:36	SR
98-95-3	Nitrobenzene	ND	U	mg/kg dry	0.0811	0.276	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 16:36	SR
100-02-7	4-Nitrophenol	ND	U	mg/kg dry	0.104	0.276	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 16:36	SR
88-75-5	2-Nitrophenol	ND	U	mg/kg dry	0.0750	0.276	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 16:36	SR
621-64-7	N-nitroso-di-n-propylamine	ND	U	mg/kg dry	0.0921	0.276	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 16:36	SR
62-75-9	N-Nitrosodimethylamine	ND	U	mg/kg dry	0.113	0.276	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 16:36	SR

Sample Information

Client Sample ID: MW-9 (0-2) **York Sample ID:** 13E0711-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0711	170246501	Soil	May 20, 2013 3:35 pm	05/21/2013

Semi-Volatiles, 8270 Target List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
86-30-6	N-Nitrosodiphenylamine	ND	U	mg/kg dry	0.125	0.276	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 16:36	SR
87-86-5	Pentachlorophenol	ND	U	mg/kg dry	0.208	0.276	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 16:36	SR
85-01-8	Phenanthrene	**0.424**		mg/kg dry	0.144	0.276	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 16:36	SR
108-95-2	Phenol	ND	U	mg/kg dry	0.119	0.276	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 16:36	SR
129-00-0	Pyrene	**0.803**		mg/kg dry	0.113	0.276	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 16:36	SR
110-86-1	Pyridine	ND	U	mg/kg dry	0.194	0.276	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 16:36	SR
120-82-1	1,2,4-Trichlorobenzene	ND	U	mg/kg dry	0.0999	0.276	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 16:36	SR
95-95-4	2,4,5-Trichlorophenol	ND	U	mg/kg dry	0.214	0.276	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 16:36	SR
88-06-2	2,4,6-Trichlorophenol	ND	U	mg/kg dry	0.140	0.276	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 16:36	SR

	Surrogate Recoveries	Result	Acceptance Range
5175-83-7	*Surrogate: 2,4,6-Tribromophenol*	*64.1 %*	*15-110*
321-60-8	*Surrogate: 2-Fluorobiphenyl*	*51.8 %*	*30-130*
367-12-4	*Surrogate: 2-Fluorophenol*	*44.4 %*	*15-110*
4165-60-0	*Surrogate: Nitrobenzene-d5*	*37.9 %*	*30-130*
4165-62-2	*Surrogate: Phenol-d5*	*54.5 %*	*15-110*
1718-51-0	*Surrogate: Terphenyl-d14*	*98.7 %*	*30-130*

Pesticides/PCBs, EPA 8081/8082 List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
8001-35-2	Toxaphene	ND	U	mg/kg dry	0.138	0.138	5	EPA SW 846-8081/8082	05/22/2013 14:35	05/23/2013 10:53	JW
72-43-5	Methoxychlor	ND	U	mg/kg dry	0.0137	0.0137	5	EPA SW 846-8081/8082	05/22/2013 14:35	05/23/2013 10:53	JW
1024-57-3	Heptachlor epoxide	ND	U	mg/kg dry	0.00273	0.00273	5	EPA SW 846-8081/8082	05/22/2013 14:35	05/23/2013 10:53	JW
76-44-8	Heptachlor	ND	U	mg/kg dry	0.00273	0.00273	5	EPA SW 846-8081/8082	05/22/2013 14:35	05/23/2013 10:53	JW
58-89-9	gamma-BHC (Lindane)	ND	U	mg/kg dry	0.00273	0.00273	5	EPA SW 846-8081/8082	05/22/2013 14:35	05/23/2013 10:53	JW
53494-70-5	Endrin ketone	ND	U	mg/kg dry	0.00273	0.00273	5	EPA SW 846-8081/8082	05/22/2013 14:35	05/23/2013 10:53	JW
7421-93-4	Endrin aldehyde	ND	U	mg/kg dry	0.00273	0.00273	5	EPA SW 846-8081/8082	05/22/2013 14:35	05/23/2013 10:53	JW
72-20-8	Endrin	ND	U	mg/kg dry	0.00273	0.00273	5	EPA SW 846-8081/8082	05/22/2013 14:35	05/23/2013 10:53	JW
1031-07-8	Endosulfan sulfate	ND	U	mg/kg dry	0.00273	0.00273	5	EPA SW 846-8081/8082	05/22/2013 14:35	05/23/2013 10:53	JW
33213-65-9	Endosulfan II	ND	U	mg/kg dry	0.00273	0.00273	5	EPA SW 846-8081/8082	05/22/2013 14:35	05/23/2013 10:53	JW
959-98-8	Endosulfan I	ND	U	mg/kg dry	0.00273	0.00273	5	EPA SW 846-8081/8082	05/22/2013 14:35	05/23/2013 10:53	JW
60-57-1	Dieldrin	ND	U	mg/kg dry	0.00273	0.00273	5	EPA SW 846-8081/8082	05/22/2013 14:35	05/23/2013 10:53	JW
319-86-8	delta-BHC	ND	U	mg/kg dry	0.00273	0.00273	5	EPA SW 846-8081/8082	05/22/2013 14:35	05/23/2013 10:53	JW
57-74-9	Chlordane, total	ND	U	mg/kg dry	0.0109	0.0109	5	EPA SW 846-8081/8082	05/22/2013 14:35	05/23/2013 10:53	JW
319-85-7	beta-BHC	ND	U	mg/kg dry	0.00273	0.00273	5	EPA SW 846-8081/8082	05/22/2013 14:35	05/23/2013 10:53	JW

Sample Information

Client Sample ID: MW-9 (0-2) **York Sample ID:** 13E0711-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0711	170246501	Soil	May 20, 2013 3:35 pm	05/21/2013

Pesticides/PCBs, EPA 8081/8082 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
319-84-6	alpha-BHC	ND	U	mg/kg dry	0.00273	0.00273	5	EPA SW 846-8081/8082	05/22/2013 14:35	05/23/2013 10:53	JW
309-00-2	Aldrin	ND	U	mg/kg dry	0.00273	0.00273	5	EPA SW 846-8081/8082	05/22/2013 14:35	05/23/2013 10:53	JW
50-29-3	4,4'-DDT	ND	U	mg/kg dry	0.00273	0.00273	5	EPA SW 846-8081/8082	05/22/2013 14:35	05/23/2013 10:53	JW
72-55-9	4,4'-DDE	ND	U	mg/kg dry	0.00273	0.00273	5	EPA SW 846-8081/8082	05/22/2013 14:35	05/23/2013 10:53	JW
72-54-8	4,4'-DDD	ND	U	mg/kg dry	0.00273	0.00273	5	EPA SW 846-8081/8082	05/22/2013 14:35	05/23/2013 10:53	JW
11096-82-5	Aroclor 1260	ND	U	mg/kg dry	0.0281	0.0281	1	EPA SW 846-8081/8082	05/22/2013 14:35	05/23/2013 11:43	JW
11097-69-1	Aroclor 1254	ND	U	mg/kg dry	0.0281	0.0281	1	EPA SW 846-8081/8082	05/22/2013 14:35	05/23/2013 11:43	JW
12672-29-6	Aroclor 1248	ND	U	mg/kg dry	0.0281	0.0281	1	EPA SW 846-8081/8082	05/22/2013 14:35	05/23/2013 11:43	JW
53469-21-9	Aroclor 1242	ND	U	mg/kg dry	0.0281	0.0281	1	EPA SW 846-8081/8082	05/22/2013 14:35	05/23/2013 11:43	JW
11141-16-5	Aroclor 1232	ND	U	mg/kg dry	0.0281	0.0281	1	EPA SW 846-8081/8082	05/22/2013 14:35	05/23/2013 11:43	JW
11104-28-2	Aroclor 1221	ND	U	mg/kg dry	0.0281	0.0281	1	EPA SW 846-8081/8082	05/22/2013 14:35	05/23/2013 11:43	JW
12674-11-2	Aroclor 1016	ND	U	mg/kg dry	0.0281	0.0281	1	EPA SW 846-8081/8082	05/22/2013 14:35	05/23/2013 11:43	JW
1336-36-3	Total PCBs	ND	U	mg/kg dry	0.0113	0.0281	1	EPA SW 846-8081/8082	05/22/2013 14:35	05/23/2013 11:43	JW

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*101 %*	*30-150*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*88.1 %*	*30-150*

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	**12200**		mg/kg dry	1.13	2.21	1	EPA SW846-6010B	05/22/2013 14:56	05/22/2013 23:30	MW
7440-36-0	Antimony	ND	U	mg/kg dry	0.243	0.552	1	EPA SW846-6010B	05/22/2013 14:56	05/22/2013 23:30	MW
7440-38-2	Arsenic	**3.39**		mg/kg dry	0.375	1.10	1	EPA SW846-6010B	05/22/2013 14:56	05/22/2013 23:30	MW
7440-39-3	Barium	**99.6**		mg/kg dry	0.143	0.552	1	EPA SW846-6010B	05/22/2013 14:56	05/22/2013 23:30	MW
7440-41-7	Beryllium	ND	U	mg/kg dry	0.110	0.110	1	EPA SW846-6010B	05/22/2013 14:56	05/22/2013 23:30	MW
7440-43-9	Cadmium	ND	U	mg/kg dry	0.110	0.552	1	EPA SW846-6010B	05/22/2013 14:56	05/22/2013 23:30	MW
7440-70-2	Calcium	**11200**		mg/kg dry	0.044	5.52	1	EPA SW846-6010B	05/22/2013 14:56	05/22/2013 23:30	MW
7440-47-3	Chromium	**25.4**		mg/kg dry	0.132	0.552	1	EPA SW846-6010B	05/22/2013 14:56	05/22/2013 23:30	MW
7440-48-4	Cobalt	**9.93**		mg/kg dry	0.088	0.552	1	EPA SW846-6010B	05/22/2013 14:56	05/22/2013 23:30	MW
7440-50-8	Copper	**26.7**		mg/kg dry	0.132	0.552	1	EPA SW846-6010B	05/22/2013 14:56	05/22/2013 23:30	MW
7439-89-6	Iron	**24100**	E	mg/kg dry	0.717	2.21	1	EPA SW846-6010B	05/22/2013 14:56	05/22/2013 23:30	MW
7439-92-1	Lead	**79.5**		mg/kg dry	0.188	0.331	1	EPA SW846-6010B	05/22/2013 14:56	05/22/2013 23:30	MW
7439-95-4	Magnesium	**6270**		mg/kg dry	0.497	5.52	1	EPA SW846-6010B	05/22/2013 14:56	05/22/2013 23:30	MW
7439-96-5	Manganese	**267**		mg/kg dry	0.121	1.10	1	EPA SW846-6010B	05/22/2013 14:56	05/22/2013 23:30	MW
7440-02-0	Nickel	**20.9**		mg/kg dry	0.143	0.552	1	EPA SW846-6010B	05/22/2013 14:56	05/22/2013 23:30	MW

Sample Information

Client Sample ID: MW-9 (0-2) **York Sample ID:** 13E0711-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0711	170246501	Soil	May 20, 2013 3:35 pm	05/21/2013

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-09-7	Potassium	**3010**	B	mg/kg dry	3.73	11.0	1	EPA SW846-6010B	05/22/2013 14:56	05/22/2013 23:30	MW
7782-49-2	Selenium	ND	U	mg/kg dry	0.552	0.552	1	EPA SW846-6010B	05/22/2013 14:56	05/22/2013 23:30	MW
7440-22-4	Silver	ND	U	mg/kg dry	0.110	0.552	1	EPA SW846-6010B	05/22/2013 14:56	05/22/2013 23:30	MW
7440-23-5	Sodium	**339**	B	mg/kg dry	5.82	11.0	1	EPA SW846-6010B	05/22/2013 14:56	05/22/2013 23:30	MW
7440-28-0	Thallium	ND	U	mg/kg dry	0.353	0.552	1	EPA SW846-6010B	05/22/2013 14:56	05/22/2013 23:30	MW
7440-62-2	Vanadium	**36.8**		mg/kg dry	0.121	0.552	1	EPA SW846-6010B	05/22/2013 14:56	05/22/2013 23:30	MW
7440-66-6	Zinc	**76.2**		mg/kg dry	0.099	0.552	1	EPA SW846-6010B	05/22/2013 14:56	05/22/2013 23:30	MW

Mercury by 7470/7471

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-7471

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND	U	mg/kg dry	0.0364	0.0364	1	EPA SW846-7471	05/22/2013 15:05	05/23/2013 09:05	AA

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	**90.6**		%	0.100	0.100	1	SM 2540G	05/22/2013 12:11	05/23/2013 09:58	AMC

Sample Information

Client Sample ID: MW-9 (6-8) **York Sample ID:** 13E0711-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0711	170246501	Soil	May 20, 2013 3:45 pm	05/21/2013

Volatile Organics, 8260 List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND	U	mg/kg dry	0.0026	0.0052	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 07:29	SS
71-55-6	1,1,1-Trichloroethane	ND	U	mg/kg dry	0.0026	0.0052	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 07:29	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND	U	mg/kg dry	0.0026	0.0052	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 07:29	SS
76-13-1	,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113	ND	U	mg/kg dry	0.0026	0.0052	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 07:29	SS
79-00-5	1,1,2-Trichloroethane	ND	U	mg/kg dry	0.0026	0.0052	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 07:29	SS
75-34-3	1,1-Dichloroethane	ND	U	mg/kg dry	0.0026	0.0052	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 07:29	SS
75-35-4	1,1-Dichloroethylene	ND	U	mg/kg dry	0.0026	0.0052	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 07:29	SS
563-58-6	1,1-Dichloropropylene	ND	U	mg/kg dry	0.0026	0.0052	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 07:29	SS
87-61-6	1,2,3-Trichlorobenzene	ND	U	mg/kg dry	0.0026	0.0052	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 07:29	SS

Sample Information

Client Sample ID: MW-9 (6-8) **York Sample ID:** 13E0711-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0711	170246501	Soil	May 20, 2013 3:45 pm	05/21/2013

Volatile Organics, 8260 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
96-18-4	1,2,3-Trichloropropane	ND	U	mg/kg dry	0.0026	0.0052	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 07:29	SS
120-82-1	1,2,4-Trichlorobenzene	ND	U	mg/kg dry	0.0026	0.0052	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 07:29	SS
95-63-6	1,2,4-Trimethylbenzene	ND	U	mg/kg dry	0.0026	0.0052	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 07:29	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND	U	mg/kg dry	0.0026	0.0052	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 07:29	SS
106-93-4	1,2-Dibromoethane	ND	U	mg/kg dry	0.0026	0.0052	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 07:29	SS
95-50-1	1,2-Dichlorobenzene	ND	U	mg/kg dry	0.0026	0.0052	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 07:29	SS
107-06-2	1,2-Dichloroethane	ND	U	mg/kg dry	0.0026	0.0052	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 07:29	SS
78-87-5	1,2-Dichloropropane	ND	U	mg/kg dry	0.0026	0.0052	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 07:29	SS
108-67-8	1,3,5-Trimethylbenzene	ND	U	mg/kg dry	0.0026	0.0052	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 07:29	SS
541-73-1	1,3-Dichlorobenzene	ND	U	mg/kg dry	0.0026	0.0052	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 07:29	SS
142-28-9	1,3-Dichloropropane	ND	U	mg/kg dry	0.0026	0.0052	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 07:29	SS
106-46-7	1,4-Dichlorobenzene	ND	U	mg/kg dry	0.0026	0.0052	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 07:29	SS
123-91-1	1,4-Dioxane	ND	U	mg/kg dry	0.052	0.10	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 07:29	SS
594-20-7	2,2-Dichloropropane	ND	U	mg/kg dry	0.0026	0.0052	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 07:29	SS
78-93-3	2-Butanone	ND	U	mg/kg dry	0.0026	0.0052	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 07:29	SS
95-49-8	2-Chlorotoluene	ND	U	mg/kg dry	0.0026	0.0052	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 07:29	SS
106-43-4	4-Chlorotoluene	ND	U	mg/kg dry	0.0026	0.0052	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 07:29	SS
67-64-1	Acetone	ND	U	mg/kg dry	0.0026	0.010	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 07:29	SS
71-43-2	Benzene	ND	U	mg/kg dry	0.0026	0.0052	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 07:29	SS
108-86-1	Bromobenzene	ND	U	mg/kg dry	0.0026	0.0052	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 07:29	SS
74-97-5	Bromochloromethane	ND	U	mg/kg dry	0.0026	0.0052	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 07:29	SS
75-27-4	Bromodichloromethane	ND	U	mg/kg dry	0.0026	0.0052	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 07:29	SS
75-25-2	Bromoform	ND	U	mg/kg dry	0.0026	0.0052	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 07:29	SS
74-83-9	Bromomethane	**0.0065**		mg/kg dry	0.0026	0.0052	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 07:29	SS
56-23-5	Carbon tetrachloride	ND	U	mg/kg dry	0.0026	0.0052	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 07:29	SS
108-90-7	Chlorobenzene	ND	U	mg/kg dry	0.0026	0.0052	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 07:29	SS
75-00-3	Chloroethane	ND	U	mg/kg dry	0.0026	0.0052	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 07:29	SS
67-66-3	Chloroform	ND	U	mg/kg dry	0.0026	0.0052	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 07:29	SS
74-87-3	Chloromethane	ND	U	mg/kg dry	0.0026	0.0052	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 07:29	SS
156-59-2	cis-1,2-Dichloroethylene	ND	U	mg/kg dry	0.0026	0.0052	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 07:29	SS
10061-01-5	cis-1,3-Dichloropropylene	ND	U	mg/kg dry	0.0026	0.0052	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 07:29	SS
124-48-1	Dibromochloromethane	ND	U	mg/kg dry	0.0026	0.0052	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 07:29	SS

Sample Information

Client Sample ID: MW-9 (6-8) **York Sample ID:** 13E0711-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0711	170246501	Soil	May 20, 2013 3:45 pm	05/21/2013

Volatile Organics, 8260 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
74-95-3	Dibromomethane	ND	U	mg/kg dry	0.0026	0.0052	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 07:29	SS
75-71-8	Dichlorodifluoromethane	ND	U	mg/kg dry	0.0026	0.0052	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 07:29	SS
100-41-4	Ethyl Benzene	ND	U	mg/kg dry	0.0026	0.0052	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 07:29	SS
87-68-3	Hexachlorobutadiene	ND	U	mg/kg dry	0.0026	0.0052	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 07:29	SS
98-82-8	Isopropylbenzene	ND	U	mg/kg dry	0.0026	0.0052	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 07:29	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND	U	mg/kg dry	0.0026	0.0052	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 07:29	SS
75-09-2	Methylene chloride	**0.015**		mg/kg dry	0.0026	0.010	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 07:29	SS
91-20-3	Naphthalene	ND	U	mg/kg dry	0.0026	0.010	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 07:29	SS
104-51-8	n-Butylbenzene	ND	U	mg/kg dry	0.0026	0.0052	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 07:29	SS
103-65-1	n-Propylbenzene	ND	U	mg/kg dry	0.0026	0.0052	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 07:29	SS
95-47-6	o-Xylene	ND	U	mg/kg dry	0.0026	0.0052	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 07:29	SS
179601-23-1	p- & m- Xylenes	ND	U	mg/kg dry	0.0052	0.010	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 07:29	SS
99-87-6	p-Isopropyltoluene	ND	U	mg/kg dry	0.0026	0.0052	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 07:29	SS
135-98-8	sec-Butylbenzene	ND	U	mg/kg dry	0.0026	0.0052	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 07:29	SS
100-42-5	Styrene	ND	U	mg/kg dry	0.0026	0.0052	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 07:29	SS
98-06-6	tert-Butylbenzene	ND	U	mg/kg dry	0.0026	0.0052	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 07:29	SS
127-18-4	Tetrachloroethylene	ND	U	mg/kg dry	0.0026	0.0052	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 07:29	SS
108-88-3	Toluene	ND	U	mg/kg dry	0.0026	0.0052	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 07:29	SS
156-60-5	trans-1,2-Dichloroethylene	ND	U	mg/kg dry	0.0026	0.0052	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 07:29	SS
10061-02-6	trans-1,3-Dichloropropylene	ND	U	mg/kg dry	0.0026	0.0052	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 07:29	SS
79-01-6	Trichloroethylene	ND	U	mg/kg dry	0.0026	0.0052	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 07:29	SS
75-69-4	Trichlorofluoromethane	ND	U	mg/kg dry	0.0026	0.0052	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 07:29	SS
75-01-4	Vinyl Chloride	ND	U	mg/kg dry	0.0026	0.0052	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 07:29	SS
1330-20-7	Xylenes, Total	ND	U	mg/kg dry	0.0079	0.016	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 07:29	SS
108-05-4	Vinyl acetate	ND	U	mg/kg dry	0.0026	0.0052	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 07:29	SS

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*101 %*	*73-130*
460-00-4	*Surrogate: p-Bromofluorobenzene*	*93.7 %*	*72-127*
2037-26-5	*Surrogate: Toluene-d8*	*99.9 %*	*84-117*

Sample Information

Client Sample ID: MW-9 (6-8) **York Sample ID:** 13E0711-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0711	170246501	Soil	May 20, 2013 3:45 pm	05/21/2013

Semi-Volatiles, 8270 Target List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND	U	mg/kg dry	0.108	0.299	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 17:08	SR
208-96-8	Acenaphthylene	ND	U	mg/kg dry	0.144	0.299	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 17:08	SR
62-53-3	Aniline	ND	U	mg/kg dry	0.171	0.299	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 17:08	SR
120-12-7	Anthracene	ND	U	mg/kg dry	0.163	0.299	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 17:08	SR
56-55-3	Benzo(a)anthracene	ND	U	mg/kg dry	0.112	0.299	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 17:08	SR
50-32-8	Benzo(a)pyrene	ND	U	mg/kg dry	0.118	0.299	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 17:08	SR
205-99-2	Benzo(b)fluoranthene	ND	U	mg/kg dry	0.251	0.299	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 17:08	SR
191-24-2	Benzo(g,h,i)perylene	ND	U	mg/kg dry	0.0993	0.299	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 17:08	SR
100-51-6	Benzyl alcohol	ND	U	mg/kg dry	0.299	0.299	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 17:08	SR
207-08-9	Benzo(k)fluoranthene	ND	U	mg/kg dry	0.299	0.299	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 17:08	SR
85-68-7	Benzyl butyl phthalate	ND	U	mg/kg dry	0.165	0.299	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 17:08	SR
101-55-3	4-Bromophenyl phenyl ether	ND	U	mg/kg dry	0.144	0.299	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 17:08	SR
59-50-7	4-Chloro-3-methylphenol	ND	U	mg/kg dry	0.202	0.299	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 17:08	SR
106-47-8	4-Chloroaniline	ND	U	mg/kg dry	0.0777	0.299	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 17:08	SR
111-91-1	Bis(2-chloroethoxy)methane	ND	U	mg/kg dry	0.103	0.299	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 17:08	SR
111-44-4	Bis(2-chloroethyl)ether	ND	U	mg/kg dry	0.152	0.299	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 17:08	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND	U	mg/kg dry	0.105	0.299	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 17:08	SR
117-81-7	Bis(2-ethylhexyl)phthalate	ND	U	mg/kg dry	0.206	0.299	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 17:08	SR
91-58-7	2-Chloronaphthalene	ND	U	mg/kg dry	0.161	0.299	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 17:08	SR
95-57-8	2-Chlorophenol	ND	U	mg/kg dry	0.0987	0.299	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 17:08	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND	U	mg/kg dry	0.175	0.299	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 17:08	SR
218-01-9	Chrysene	ND	U	mg/kg dry	0.138	0.299	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 17:08	SR
53-70-3	Dibenzo(a,h)anthracene	ND	U	mg/kg dry	0.120	0.299	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 17:08	SR
132-64-9	Dibenzofuran	ND	U	mg/kg dry	0.139	0.299	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 17:08	SR
84-74-2	Di-n-butyl phthalate	ND	U	mg/kg dry	0.121	0.299	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 17:08	SR
95-50-1	1,2-Dichlorobenzene	ND	U	mg/kg dry	0.196	0.299	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 17:08	SR
106-46-7	1,4-Dichlorobenzene	ND	U	mg/kg dry	0.184	0.299	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 17:08	SR
541-73-1	1,3-Dichlorobenzene	ND	U	mg/kg dry	0.0945	0.299	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 17:08	SR
91-94-1	3,3'-Dichlorobenzidine	ND	U	mg/kg dry	0.157	0.299	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 17:08	SR
120-83-2	2,4-Dichlorophenol	ND	U	mg/kg dry	0.244	0.299	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 17:08	SR
84-66-2	Diethyl phthalate	ND	U	mg/kg dry	0.188	0.299	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 17:08	SR
105-67-9	2,4-Dimethylphenol	ND	U	mg/kg dry	0.209	0.299	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 17:08	SR

Sample Information

Client Sample ID: MW-9 (6-8) **York Sample ID:** 13E0711-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0711	170246501	Soil	May 20, 2013 3:45 pm	05/21/2013

Semi-Volatiles, 8270 Target List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
131-11-3	Dimethyl phthalate	ND	U	mg/kg dry	0.133	0.299	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 17:08	SR
88-74-4	2-Nitroaniline	ND	U	mg/kg dry	0.261	0.299	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 17:08	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND	U	mg/kg dry	0.377	0.598	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 17:08	SR
51-28-5	2,4-Dinitrophenol	ND	U	mg/kg dry	0.251	0.598	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 17:08	SR
606-20-2	2,6-Dinitrotoluene	ND	U	mg/kg dry	0.154	0.299	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 17:08	SR
121-14-2	2,4-Dinitrotoluene	ND	U	mg/kg dry	0.132	0.299	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 17:08	SR
117-84-0	Di-n-octyl phthalate	ND	U	mg/kg dry	0.299	0.299	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 17:08	SR
206-44-0	Fluoranthene	ND	U	mg/kg dry	0.175	0.299	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 17:08	SR
86-73-7	Fluorene	ND	U	mg/kg dry	0.144	0.299	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 17:08	SR
118-74-1	Hexachlorobenzene	ND	U	mg/kg dry	0.176	0.299	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 17:08	SR
87-68-3	Hexachlorobutadiene	ND	U	mg/kg dry	0.101	0.299	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 17:08	SR
77-47-4	Hexachlorocyclopentadiene	ND	U	mg/kg dry	0.222	0.299	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 17:08	SR
67-72-1	Hexachloroethane	ND	U	mg/kg dry	0.0855	0.299	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 17:08	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND	U	mg/kg dry	0.136	0.299	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 17:08	SR
78-59-1	Isophorone	ND	U	mg/kg dry	0.103	0.299	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 17:08	SR
91-57-6	2-Methylnaphthalene	ND	U	mg/kg dry	0.230	0.299	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 17:08	SR
95-48-7	2-Methylphenol	ND	U	mg/kg dry	0.114	0.299	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 17:08	SR
65794-96-9	3- & 4-Methylphenols	ND	U	mg/kg dry	0.130	0.299	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 17:08	SR
91-20-3	Naphthalene	ND	U	mg/kg dry	0.0736	0.299	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 17:08	SR
99-09-2	3-Nitroaniline	ND	U	mg/kg dry	0.297	0.299	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 17:08	SR
100-01-6	4-Nitroaniline	ND	U	mg/kg dry	0.124	0.299	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 17:08	SR
98-95-3	Nitrobenzene	ND	U	mg/kg dry	0.0879	0.299	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 17:08	SR
100-02-7	4-Nitrophenol	ND	U	mg/kg dry	0.112	0.299	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 17:08	SR
88-75-5	2-Nitrophenol	ND	U	mg/kg dry	0.0813	0.299	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 17:08	SR
621-64-7	N-nitroso-di-n-propylamine	ND	U	mg/kg dry	0.0999	0.299	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 17:08	SR
62-75-9	N-Nitrosodimethylamine	ND	U	mg/kg dry	0.123	0.299	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 17:08	SR
86-30-6	N-Nitrosodiphenylamine	ND	U	mg/kg dry	0.135	0.299	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 17:08	SR
87-86-5	Pentachlorophenol	ND	U	mg/kg dry	0.225	0.299	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 17:08	SR
85-01-8	Phenanthrene	ND	U	mg/kg dry	0.156	0.299	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 17:08	SR
108-95-2	Phenol	ND	U	mg/kg dry	0.129	0.299	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 17:08	SR
129-00-0	Pyrene	ND	U	mg/kg dry	0.122	0.299	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 17:08	SR
110-86-1	Pyridine	ND	U	mg/kg dry	0.210	0.299	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 17:08	SR

Sample Information

Client Sample ID: MW-9 (6-8) **York Sample ID:** 13E0711-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0711	170246501	Soil	May 20, 2013 3:45 pm	05/21/2013

Semi-Volatiles, 8270 Target List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
120-82-1	1,2,4-Trichlorobenzene	ND	U	mg/kg dry	0.108	0.299	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 17:08	SR
95-95-4	2,4,5-Trichlorophenol	ND	U	mg/kg dry	0.232	0.299	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 17:08	SR
88-06-2	2,4,6-Trichlorophenol	ND	U	mg/kg dry	0.152	0.299	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 17:08	SR

	Surrogate Recoveries	Result	Acceptance Range
5175-83-7	*Surrogate: 2,4,6-Tribromophenol*	*64.2 %*	*15-110*
321-60-8	*Surrogate: 2-Fluorobiphenyl*	*56.0 %*	*30-130*
367-12-4	*Surrogate: 2-Fluorophenol*	*41.0 %*	*15-110*
4165-60-0	*Surrogate: Nitrobenzene-d5*	*33.5 %*	*30-130*
4165-62-2	*Surrogate: Phenol-d5*	*54.2 %*	*15-110*
1718-51-0	*Surrogate: Terphenyl-d14*	*92.0 %*	*30-130*

Polychlorinated Biphenyls (PCB)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0305	0.0305	1	EPA SW 846-8082A	05/22/2013 14:35	05/23/2013 12:12	JW
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0305	0.0305	1	EPA SW 846-8082A	05/22/2013 14:35	05/23/2013 12:12	JW
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0305	0.0305	1	EPA SW 846-8082A	05/22/2013 14:35	05/23/2013 12:12	JW
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0305	0.0305	1	EPA SW 846-8082A	05/22/2013 14:35	05/23/2013 12:12	JW
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0305	0.0305	1	EPA SW 846-8082A	05/22/2013 14:35	05/23/2013 12:12	JW
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0305	0.0305	1	EPA SW 846-8082A	05/22/2013 14:35	05/23/2013 12:12	JW
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0305	0.0305	1	EPA SW 846-8082A	05/22/2013 14:35	05/23/2013 12:12	JW
1336-36-3	Total PCBs	ND		mg/kg dry	0.0305	0.0305	1	EPA SW 846-8082A	05/22/2013 14:35	05/23/2013 12:12	JW

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*80.5 %*	*30-150*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*78.6 %*	*30-150*

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	**9140**		mg/kg dry	1.22	2.39	1	EPA SW846-6010B	05/22/2013 14:56	05/22/2013 23:34	MW
7440-36-0	Antimony	ND	U	mg/kg dry	0.263	0.598	1	EPA SW846-6010B	05/22/2013 14:56	05/22/2013 23:34	MW
7440-38-2	Arsenic	**3.99**		mg/kg dry	0.407	1.20	1	EPA SW846-6010B	05/22/2013 14:56	05/22/2013 23:34	MW
7440-39-3	Barium	**53.6**		mg/kg dry	0.155	0.598	1	EPA SW846-6010B	05/22/2013 14:56	05/22/2013 23:34	MW
7440-41-7	Beryllium	ND	U	mg/kg dry	0.120	0.120	1	EPA SW846-6010B	05/22/2013 14:56	05/22/2013 23:34	MW
7440-43-9	Cadmium	ND	U	mg/kg dry	0.120	0.598	1	EPA SW846-6010B	05/22/2013 14:56	05/22/2013 23:34	MW
7440-70-2	Calcium	**10800**		mg/kg dry	0.048	5.98	1	EPA SW846-6010B	05/22/2013 14:56	05/22/2013 23:34	MW

Sample Information

Client Sample ID: MW-9 (6-8) **York Sample ID:** 13E0711-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0711	170246501	Soil	May 20, 2013 3:45 pm	05/21/2013

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-47-3	Chromium	**23.0**		mg/kg dry	0.144	0.598	1	EPA SW846-6010B	05/22/2013 14:56	05/22/2013 23:34	MW
7440-48-4	Cobalt	**9.20**		mg/kg dry	0.096	0.598	1	EPA SW846-6010B	05/22/2013 14:56	05/22/2013 23:34	MW
7440-50-8	Copper	**20.9**		mg/kg dry	0.144	0.598	1	EPA SW846-6010B	05/22/2013 14:56	05/22/2013 23:34	MW
7439-89-6	Iron	**16300**		mg/kg dry	0.777	2.39	1	EPA SW846-6010B	05/22/2013 14:56	05/22/2013 23:34	MW
7439-92-1	Lead	**7.59**		mg/kg dry	0.203	0.359	1	EPA SW846-6010B	05/22/2013 14:56	05/22/2013 23:34	MW
7439-95-4	Magnesium	**9030**		mg/kg dry	0.538	5.98	1	EPA SW846-6010B	05/22/2013 14:56	05/22/2013 23:34	MW
7439-96-5	Manganese	**219**		mg/kg dry	0.132	1.20	1	EPA SW846-6010B	05/22/2013 14:56	05/22/2013 23:34	MW
7440-02-0	Nickel	**21.2**		mg/kg dry	0.155	0.598	1	EPA SW846-6010B	05/22/2013 14:56	05/22/2013 23:34	MW
7440-09-7	Potassium	**2570**	B	mg/kg dry	4.04	12.0	1	EPA SW846-6010B	05/22/2013 14:56	05/22/2013 23:34	MW
7782-49-2	Selenium	ND	U	mg/kg dry	0.598	0.598	1	EPA SW846-6010B	05/22/2013 14:56	05/22/2013 23:34	MW
7440-22-4	Silver	ND	U	mg/kg dry	0.120	0.598	1	EPA SW846-6010B	05/22/2013 14:56	05/22/2013 23:34	MW
7440-23-5	Sodium	**301**	B	mg/kg dry	6.30	12.0	1	EPA SW846-6010B	05/22/2013 14:56	05/22/2013 23:34	MW
7440-28-0	Thallium	ND	U	mg/kg dry	0.383	0.598	1	EPA SW846-6010B	05/22/2013 14:56	05/22/2013 23:34	MW
7440-62-2	Vanadium	**35.3**		mg/kg dry	0.132	0.598	1	EPA SW846-6010B	05/22/2013 14:56	05/22/2013 23:34	MW
7440-66-6	Zinc	**46.1**		mg/kg dry	0.108	0.598	1	EPA SW846-6010B	05/22/2013 14:56	05/22/2013 23:34	MW

Mercury by 7470/7471

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-7471

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND	U	mg/kg dry	0.0395	0.0395	1	EPA SW846-7471	05/22/2013 15:05	05/23/2013 09:05	AA

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	**83.6**		%	0.100	0.100	1	SM 2540G	05/22/2013 12:11	05/23/2013 09:58	AMC

Sample Information

Client Sample ID: MW-6 (0-2) **York Sample ID:** 13E0711-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0711	170246501	Soil	May 20, 2013 3:00 pm	05/21/2013

Volatile Organics, 8260 List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND	U	mg/kg dry	0.0030	0.0060	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 08:17	SS
71-55-6	1,1,1-Trichloroethane	ND	U	mg/kg dry	0.0030	0.0060	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 08:17	SS

Sample Information

Client Sample ID: MW-6 (0-2) **York Sample ID:** 13E0711-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0711	170246501	Soil	May 20, 2013 3:00 pm	05/21/2013

Volatile Organics, 8260 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
79-34-5	1,1,2,2-Tetrachloroethane	ND	U	mg/kg dry	0.0030	0.0060	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 08:17	SS
76-13-1	,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113	ND	U	mg/kg dry	0.0030	0.0060	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 08:17	SS
79-00-5	1,1,2-Trichloroethane	ND	U	mg/kg dry	0.0030	0.0060	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 08:17	SS
75-34-3	1,1-Dichloroethane	ND	U	mg/kg dry	0.0030	0.0060	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 08:17	SS
75-35-4	1,1-Dichloroethylene	ND	U	mg/kg dry	0.0030	0.0060	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 08:17	SS
563-58-6	1,1-Dichloropropylene	ND	U	mg/kg dry	0.0030	0.0060	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 08:17	SS
87-61-6	1,2,3-Trichlorobenzene	ND	U	mg/kg dry	0.0030	0.0060	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 08:17	SS
96-18-4	1,2,3-Trichloropropane	ND	U	mg/kg dry	0.0030	0.0060	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 08:17	SS
120-82-1	1,2,4-Trichlorobenzene	ND	U	mg/kg dry	0.0030	0.0060	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 08:17	SS
95-63-6	1,2,4-Trimethylbenzene	ND	U	mg/kg dry	0.0030	0.0060	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 08:17	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND	U	mg/kg dry	0.0030	0.0060	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 08:17	SS
106-93-4	1,2-Dibromoethane	ND	U	mg/kg dry	0.0030	0.0060	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 08:17	SS
95-50-1	1,2-Dichlorobenzene	ND	U	mg/kg dry	0.0030	0.0060	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 08:17	SS
107-06-2	1,2-Dichloroethane	ND	U	mg/kg dry	0.0030	0.0060	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 08:17	SS
78-87-5	1,2-Dichloropropane	ND	U	mg/kg dry	0.0030	0.0060	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 08:17	SS
108-67-8	1,3,5-Trimethylbenzene	ND	U	mg/kg dry	0.0030	0.0060	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 08:17	SS
541-73-1	1,3-Dichlorobenzene	ND	U	mg/kg dry	0.0030	0.0060	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 08:17	SS
142-28-9	1,3-Dichloropropane	ND	U	mg/kg dry	0.0030	0.0060	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 08:17	SS
106-46-7	1,4-Dichlorobenzene	ND	U	mg/kg dry	0.0030	0.0060	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 08:17	SS
123-91-1	1,4-Dioxane	ND	U	mg/kg dry	0.060	0.12	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 08:17	SS
594-20-7	2,2-Dichloropropane	ND	U	mg/kg dry	0.0030	0.0060	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 08:17	SS
78-93-3	2-Butanone	ND	U	mg/kg dry	0.0030	0.0060	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 08:17	SS
95-49-8	2-Chlorotoluene	ND	U	mg/kg dry	0.0030	0.0060	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 08:17	SS
106-43-4	4-Chlorotoluene	ND	U	mg/kg dry	0.0030	0.0060	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 08:17	SS
67-64-1	Acetone	ND	U	mg/kg dry	0.0030	0.012	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 08:17	SS
71-43-2	Benzene	ND	U	mg/kg dry	0.0030	0.0060	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 08:17	SS
108-86-1	Bromobenzene	ND	U	mg/kg dry	0.0030	0.0060	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 08:17	SS
74-97-5	Bromochloromethane	ND	U	mg/kg dry	0.0030	0.0060	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 08:17	SS
75-27-4	Bromodichloromethane	ND	U	mg/kg dry	0.0030	0.0060	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 08:17	SS
75-25-2	Bromoform	ND	U	mg/kg dry	0.0030	0.0060	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 08:17	SS
74-83-9	Bromomethane	ND	U	mg/kg dry	0.0030	0.0060	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 08:17	SS
56-23-5	Carbon tetrachloride	ND	U	mg/kg dry	0.0030	0.0060	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 08:17	SS

Sample Information

Client Sample ID: MW-6 (0-2) **York Sample ID:** 13E0711-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0711	170246501	Soil	May 20, 2013 3:00 pm	05/21/2013

Volatile Organics, 8260 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-90-7	Chlorobenzene	ND	U	mg/kg dry	0.0030	0.0060	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 08:17	SS
75-00-3	Chloroethane	ND	U	mg/kg dry	0.0030	0.0060	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 08:17	SS
67-66-3	Chloroform	ND	U	mg/kg dry	0.0030	0.0060	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 08:17	SS
74-87-3	Chloromethane	ND	U	mg/kg dry	0.0030	0.0060	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 08:17	SS
156-59-2	cis-1,2-Dichloroethylene	ND	U	mg/kg dry	0.0030	0.0060	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 08:17	SS
10061-01-5	cis-1,3-Dichloropropylene	ND	U	mg/kg dry	0.0030	0.0060	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 08:17	SS
124-48-1	Dibromochloromethane	ND	U	mg/kg dry	0.0030	0.0060	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 08:17	SS
74-95-3	Dibromomethane	ND	U	mg/kg dry	0.0030	0.0060	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 08:17	SS
75-71-8	Dichlorodifluoromethane	ND	U	mg/kg dry	0.0030	0.0060	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 08:17	SS
100-41-4	Ethyl Benzene	ND	U	mg/kg dry	0.0030	0.0060	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 08:17	SS
87-68-3	Hexachlorobutadiene	ND	U	mg/kg dry	0.0030	0.0060	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 08:17	SS
98-82-8	Isopropylbenzene	ND	U	mg/kg dry	0.0030	0.0060	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 08:17	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND	U	mg/kg dry	0.0030	0.0060	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 08:17	SS
75-09-2	Methylene chloride	**0.014**		mg/kg dry	0.0030	0.012	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 08:17	SS
91-20-3	Naphthalene	ND	U	mg/kg dry	0.0030	0.012	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 08:17	SS
104-51-8	n-Butylbenzene	ND	U	mg/kg dry	0.0030	0.0060	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 08:17	SS
103-65-1	n-Propylbenzene	ND	U	mg/kg dry	0.0030	0.0060	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 08:17	SS
95-47-6	o-Xylene	ND	U	mg/kg dry	0.0030	0.0060	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 08:17	SS
179601-23-1	p- & m- Xylenes	ND	U	mg/kg dry	0.0060	0.012	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 08:17	SS
99-87-6	p-Isopropyltoluene	ND	U	mg/kg dry	0.0030	0.0060	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 08:17	SS
135-98-8	sec-Butylbenzene	ND	U	mg/kg dry	0.0030	0.0060	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 08:17	SS
100-42-5	Styrene	ND	U	mg/kg dry	0.0030	0.0060	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 08:17	SS
98-06-6	tert-Butylbenzene	ND	U	mg/kg dry	0.0030	0.0060	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 08:17	SS
127-18-4	Tetrachloroethylene	ND	U	mg/kg dry	0.0030	0.0060	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 08:17	SS
108-88-3	Toluene	ND	U	mg/kg dry	0.0030	0.0060	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 08:17	SS
156-60-5	trans-1,2-Dichloroethylene	ND	U	mg/kg dry	0.0030	0.0060	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 08:17	SS
10061-02-6	trans-1,3-Dichloropropylene	ND	U	mg/kg dry	0.0030	0.0060	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 08:17	SS
79-01-6	Trichloroethylene	ND	U	mg/kg dry	0.0030	0.0060	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 08:17	SS
75-69-4	Trichlorofluoromethane	ND	U	mg/kg dry	0.0030	0.0060	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 08:17	SS
75-01-4	Vinyl Chloride	ND	U	mg/kg dry	0.0030	0.0060	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 08:17	SS
1330-20-7	Xylenes, Total	ND	U	mg/kg dry	0.0090	0.018	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 08:17	SS
108-05-4	Vinyl acetate	ND	U	mg/kg dry	0.0030	0.0060	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 08:17	SS

Sample Information

Client Sample ID: MW-6 (0-2) **York Sample ID:** 13E0711-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0711	170246501	Soil	May 20, 2013 3:00 pm	05/21/2013

Volatile Organics, 8260 List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate Recoveries	**Result**		**Acceptance Range**							
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*116 %*		*73-130*							
460-00-4	*Surrogate: p-Bromofluorobenzene*	*112 %*		*72-127*							
2037-26-5	*Surrogate: Toluene-d8*	*125 %*	*S-04*	*84-117*							

Semi-Volatiles, 8270 Target List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND	U	mg/kg dry	0.0971	0.268	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 17:39	SR
208-96-8	Acenaphthylene	ND	U	mg/kg dry	0.129	0.268	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 17:39	SR
62-53-3	Aniline	ND	U	mg/kg dry	0.153	0.268	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 17:39	SR
120-12-7	Anthracene	ND	U	mg/kg dry	0.146	0.268	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 17:39	SR
56-55-3	Benzo(a)anthracene	**0.243**	J	mg/kg dry	0.100	0.268	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 17:39	SR
50-32-8	Benzo(a)pyrene	**0.326**		mg/kg dry	0.106	0.268	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 17:39	SR
205-99-2	Benzo(b)fluoranthene	ND	U	mg/kg dry	0.225	0.268	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 17:39	SR
191-24-2	Benzo(g,h,i)perylene	ND	U	mg/kg dry	0.0891	0.268	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 17:39	SR
100-51-6	Benzyl alcohol	ND	U	mg/kg dry	0.268	0.268	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 17:39	SR
207-08-9	Benzo(k)fluoranthene	**0.290**		mg/kg dry	0.268	0.268	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 17:39	SR
85-68-7	Benzyl butyl phthalate	ND	U	mg/kg dry	0.148	0.268	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 17:39	SR
101-55-3	4-Bromophenyl phenyl ether	ND	U	mg/kg dry	0.129	0.268	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 17:39	SR
59-50-7	4-Chloro-3-methylphenol	ND	U	mg/kg dry	0.181	0.268	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 17:39	SR
106-47-8	4-Chloroaniline	ND	U	mg/kg dry	0.0697	0.268	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 17:39	SR
111-91-1	Bis(2-chloroethoxy)methane	ND	U	mg/kg dry	0.0923	0.268	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 17:39	SR
111-44-4	Bis(2-chloroethyl)ether	ND	U	mg/kg dry	0.137	0.268	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 17:39	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND	U	mg/kg dry	0.0944	0.268	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 17:39	SR
117-81-7	Bis(2-ethylhexyl)phthalate	ND	U	mg/kg dry	0.185	0.268	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 17:39	SR
91-58-7	2-Chloronaphthalene	ND	U	mg/kg dry	0.145	0.268	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 17:39	SR
95-57-8	2-Chlorophenol	ND	U	mg/kg dry	0.0885	0.268	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 17:39	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND	U	mg/kg dry	0.157	0.268	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 17:39	SR
218-01-9	Chrysene	**0.312**		mg/kg dry	0.123	0.268	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 17:39	SR
53-70-3	Dibenzo(a,h)anthracene	ND	U	mg/kg dry	0.108	0.268	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 17:39	SR
132-64-9	Dibenzofuran	ND	U	mg/kg dry	0.125	0.268	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 17:39	SR
84-74-2	Di-n-butyl phthalate	ND	U	mg/kg dry	0.109	0.268	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 17:39	SR
95-50-1	1,2-Dichlorobenzene	ND	U	mg/kg dry	0.175	0.268	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 17:39	SR

Sample Information

Client Sample ID: MW-6 (0-2) **York Sample ID:** 13E0711-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0711	170246501	Soil	May 20, 2013 3:00 pm	05/21/2013

Semi-Volatiles, 8270 Target List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
106-46-7	1,4-Dichlorobenzene	ND	U	mg/kg dry	0.165	0.268	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 17:39	SR
541-73-1	1,3-Dichlorobenzene	ND	U	mg/kg dry	0.0848	0.268	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 17:39	SR
91-94-1	3,3'-Dichlorobenzidine	ND	U	mg/kg dry	0.141	0.268	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 17:39	SR
120-83-2	2,4-Dichlorophenol	ND	U	mg/kg dry	0.219	0.268	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 17:39	SR
84-66-2	Diethyl phthalate	ND	U	mg/kg dry	0.168	0.268	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 17:39	SR
105-67-9	2,4-Dimethylphenol	ND	U	mg/kg dry	0.188	0.268	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 17:39	SR
131-11-3	Dimethyl phthalate	ND	U	mg/kg dry	0.120	0.268	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 17:39	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND	U	mg/kg dry	0.338	0.537	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 17:39	SR
88-74-4	2-Nitroaniline	ND	U	mg/kg dry	0.234	0.268	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 17:39	SR
51-28-5	2,4-Dinitrophenol	ND	U	mg/kg dry	0.225	0.537	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 17:39	SR
606-20-2	2,6-Dinitrotoluene	ND	U	mg/kg dry	0.138	0.268	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 17:39	SR
121-14-2	2,4-Dinitrotoluene	ND	U	mg/kg dry	0.119	0.268	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 17:39	SR
117-84-0	Di-n-octyl phthalate	ND	U	mg/kg dry	0.268	0.268	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 17:39	SR
206-44-0	Fluoranthene	**0.362**		mg/kg dry	0.157	0.268	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 17:39	SR
86-73-7	Fluorene	ND	U	mg/kg dry	0.129	0.268	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 17:39	SR
118-74-1	Hexachlorobenzene	ND	U	mg/kg dry	0.158	0.268	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 17:39	SR
87-68-3	Hexachlorobutadiene	ND	U	mg/kg dry	0.0907	0.268	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 17:39	SR
77-47-4	Hexachlorocyclopentadiene	ND	U	mg/kg dry	0.200	0.268	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 17:39	SR
67-72-1	Hexachloroethane	ND	U	mg/kg dry	0.0767	0.268	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 17:39	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND	U	mg/kg dry	0.122	0.268	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 17:39	SR
78-59-1	Isophorone	ND	U	mg/kg dry	0.0923	0.268	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 17:39	SR
91-57-6	2-Methylnaphthalene	ND	U	mg/kg dry	0.206	0.268	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 17:39	SR
95-48-7	2-Methylphenol	ND	U	mg/kg dry	0.102	0.268	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 17:39	SR
65794-96-9	3- & 4-Methylphenols	ND	U	mg/kg dry	0.116	0.268	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 17:39	SR
91-20-3	Naphthalene	ND	U	mg/kg dry	0.0660	0.268	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 17:39	SR
99-09-2	3-Nitroaniline	ND	U	mg/kg dry	0.267	0.268	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 17:39	SR
100-01-6	4-Nitroaniline	ND	U	mg/kg dry	0.111	0.268	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 17:39	SR
98-95-3	Nitrobenzene	ND	U	mg/kg dry	0.0789	0.268	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 17:39	SR
100-02-7	4-Nitrophenol	ND	U	mg/kg dry	0.101	0.268	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 17:39	SR
88-75-5	2-Nitrophenol	ND	U	mg/kg dry	0.0730	0.268	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 17:39	SR
621-64-7	N-nitroso-di-n-propylamine	ND	U	mg/kg dry	0.0896	0.268	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 17:39	SR
62-75-9	N-Nitrosodimethylamine	ND	U	mg/kg dry	0.110	0.268	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 17:39	SR

Sample Information

Client Sample ID: MW-6 (0-2) **York Sample ID:** 13E0711-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0711	170246501	Soil	May 20, 2013 3:00 pm	05/21/2013

Semi-Volatiles, 8270 Target List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
86-30-6	N-Nitrosodiphenylamine	ND	U	mg/kg dry	0.121	0.268	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 17:39	SR
87-86-5	Pentachlorophenol	ND	U	mg/kg dry	0.202	0.268	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 17:39	SR
85-01-8	Phenanthrene	**0.167**	J	mg/kg dry	0.140	0.268	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 17:39	SR
108-95-2	Phenol	ND	U	mg/kg dry	0.116	0.268	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 17:39	SR
129-00-0	Pyrene	**0.486**		mg/kg dry	0.109	0.268	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 17:39	SR
110-86-1	Pyridine	ND	U	mg/kg dry	0.188	0.268	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 17:39	SR
120-82-1	1,2,4-Trichlorobenzene	ND	U	mg/kg dry	0.0971	0.268	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 17:39	SR
95-95-4	2,4,5-Trichlorophenol	ND	U	mg/kg dry	0.208	0.268	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 17:39	SR
88-06-2	2,4,6-Trichlorophenol	ND	U	mg/kg dry	0.136	0.268	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 17:39	SR

	Surrogate Recoveries	Result	Acceptance Range
5175-83-7	*Surrogate: 2,4,6-Tribromophenol*	*63.7 %*	*15-110*
321-60-8	*Surrogate: 2-Fluorobiphenyl*	*52.2 %*	*30-130*
367-12-4	*Surrogate: 2-Fluorophenol*	*26.7 %*	*15-110*
4165-60-0	*Surrogate: Nitrobenzene-d5*	*33.8 %*	*30-130*
4165-62-2	*Surrogate: Phenol-d5*	*43.4 %*	*15-110*
1718-51-0	*Surrogate: Terphenyl-d14*	*98.8 %*	*30-130*

Pesticides/PCBs, EPA 8081/8082 List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
8001-35-2	Toxaphene	ND	U	mg/kg dry	0.134	0.134	5	EPA SW 846-8081/8082	05/22/2013 14:35	05/23/2013 11:23	JW
72-43-5	Methoxychlor	ND	U	mg/kg dry	0.0133	0.0133	5	EPA SW 846-8081/8082	05/22/2013 14:35	05/23/2013 11:23	JW
1024-57-3	Heptachlor epoxide	ND	U	mg/kg dry	0.00266	0.00266	5	EPA SW 846-8081/8082	05/22/2013 14:35	05/23/2013 11:23	JW
76-44-8	Heptachlor	ND	U	mg/kg dry	0.00266	0.00266	5	EPA SW 846-8081/8082	05/22/2013 14:35	05/23/2013 11:23	JW
58-89-9	gamma-BHC (Lindane)	ND	U	mg/kg dry	0.00266	0.00266	5	EPA SW 846-8081/8082	05/22/2013 14:35	05/23/2013 11:23	JW
53494-70-5	Endrin ketone	ND	U	mg/kg dry	0.00266	0.00266	5	EPA SW 846-8081/8082	05/22/2013 14:35	05/23/2013 11:23	JW
7421-93-4	Endrin aldehyde	ND	U	mg/kg dry	0.00266	0.00266	5	EPA SW 846-8081/8082	05/22/2013 14:35	05/23/2013 11:23	JW
72-20-8	Endrin	ND	U	mg/kg dry	0.00266	0.00266	5	EPA SW 846-8081/8082	05/22/2013 14:35	05/23/2013 11:23	JW
1031-07-8	Endosulfan sulfate	ND	U	mg/kg dry	0.00266	0.00266	5	EPA SW 846-8081/8082	05/22/2013 14:35	05/23/2013 11:23	JW
33213-65-9	Endosulfan II	ND	U	mg/kg dry	0.00266	0.00266	5	EPA SW 846-8081/8082	05/22/2013 14:35	05/23/2013 11:23	JW
959-98-8	Endosulfan I	ND	U	mg/kg dry	0.00266	0.00266	5	EPA SW 846-8081/8082	05/22/2013 14:35	05/23/2013 11:23	JW
60-57-1	Dieldrin	ND	U	mg/kg dry	0.00266	0.00266	5	EPA SW 846-8081/8082	05/22/2013 14:35	05/23/2013 11:23	JW
319-86-8	delta-BHC	ND	U	mg/kg dry	0.00266	0.00266	5	EPA SW 846-8081/8082	05/22/2013 14:35	05/23/2013 11:23	JW
57-74-9	Chlordane, total	ND	U	mg/kg dry	0.0106	0.0106	5	EPA SW 846-8081/8082	05/22/2013 14:35	05/23/2013 11:23	JW
319-85-7	beta-BHC	ND	U	mg/kg dry	0.00266	0.00266	5	EPA SW 846-8081/8082	05/22/2013 14:35	05/23/2013 11:23	JW

Sample Information

Client Sample ID: MW-6 (0-2) **York Sample ID:** 13E0711-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0711	170246501	Soil	May 20, 2013 3:00 pm	05/21/2013

Pesticides/PCBs, EPA 8081/8082 List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
319-84-6	alpha-BHC	ND	U	mg/kg dry	0.00266	0.00266	5	EPA SW 846-8081/8082	05/22/2013 14:35	05/23/2013 11:23	JW
309-00-2	Aldrin	ND	U	mg/kg dry	0.00266	0.00266	5	EPA SW 846-8081/8082	05/22/2013 14:35	05/23/2013 11:23	JW
50-29-3	4,4'-DDT	ND	U	mg/kg dry	0.00266	0.00266	5	EPA SW 846-8081/8082	05/22/2013 14:35	05/23/2013 11:23	JW
72-55-9	4,4'-DDE	ND	U	mg/kg dry	0.00266	0.00266	5	EPA SW 846-8081/8082	05/22/2013 14:35	05/23/2013 11:23	JW
72-54-8	4,4'-DDD	ND	U	mg/kg dry	0.00266	0.00266	5	EPA SW 846-8081/8082	05/22/2013 14:35	05/23/2013 11:23	JW
11096-82-5	Aroclor 1260	ND	U	mg/kg dry	0.0274	0.0274	1	EPA SW 846-8081/8082	05/22/2013 14:35	05/23/2013 12:41	JW
11097-69-1	Aroclor 1254	ND	U	mg/kg dry	0.0274	0.0274	1	EPA SW 846-8081/8082	05/22/2013 14:35	05/23/2013 12:41	JW
12672-29-6	Aroclor 1248	ND	U	mg/kg dry	0.0274	0.0274	1	EPA SW 846-8081/8082	05/22/2013 14:35	05/23/2013 12:41	JW
53469-21-9	Aroclor 1242	ND	U	mg/kg dry	0.0274	0.0274	1	EPA SW 846-8081/8082	05/22/2013 14:35	05/23/2013 12:41	JW
11141-16-5	Aroclor 1232	ND	U	mg/kg dry	0.0274	0.0274	1	EPA SW 846-8081/8082	05/22/2013 14:35	05/23/2013 12:41	JW
11104-28-2	Aroclor 1221	ND	U	mg/kg dry	0.0274	0.0274	1	EPA SW 846-8081/8082	05/22/2013 14:35	05/23/2013 12:41	JW
12674-11-2	Aroclor 1016	ND	U	mg/kg dry	0.0274	0.0274	1	EPA SW 846-8081/8082	05/22/2013 14:35	05/23/2013 12:41	JW
1336-36-3	Total PCBs	ND	U	mg/kg dry	0.0109	0.0274	1	EPA SW 846-8081/8082	05/22/2013 14:35	05/23/2013 12:41	JW

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*70.6 %*	*30-150*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*63.4 %*	*30-150*

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	**8150**		mg/kg dry	1.09	2.15	1	EPA SW846-6010B	05/22/2013 14:56	05/22/2013 23:39	MW
7440-36-0	Antimony	ND	U	mg/kg dry	0.236	0.537	1	EPA SW846-6010B	05/22/2013 14:56	05/22/2013 23:39	MW
7440-38-2	Arsenic	**3.66**		mg/kg dry	0.365	1.07	1	EPA SW846-6010B	05/22/2013 14:56	05/22/2013 23:39	MW
7440-39-3	Barium	**244**		mg/kg dry	0.139	0.537	1	EPA SW846-6010B	05/22/2013 14:56	05/22/2013 23:39	MW
7440-41-7	Beryllium	ND	U	mg/kg dry	0.107	0.107	1	EPA SW846-6010B	05/22/2013 14:56	05/22/2013 23:39	MW
7440-43-9	Cadmium	ND	U	mg/kg dry	0.107	0.537	1	EPA SW846-6010B	05/22/2013 14:56	05/22/2013 23:39	MW
7440-70-2	Calcium	**7170**		mg/kg dry	0.043	5.37	1	EPA SW846-6010B	05/22/2013 14:56	05/22/2013 23:39	MW
7440-47-3	Chromium	**25.6**		mg/kg dry	0.129	0.537	1	EPA SW846-6010B	05/22/2013 14:56	05/22/2013 23:39	MW
7440-48-4	Cobalt	**8.14**		mg/kg dry	0.086	0.537	1	EPA SW846-6010B	05/22/2013 14:56	05/22/2013 23:39	MW
7440-50-8	Copper	**29.6**		mg/kg dry	0.129	0.537	1	EPA SW846-6010B	05/22/2013 14:56	05/22/2013 23:39	MW
7439-89-6	Iron	**13900**		mg/kg dry	0.697	2.15	1	EPA SW846-6010B	05/22/2013 14:56	05/22/2013 23:39	MW
7439-92-1	Lead	**134**		mg/kg dry	0.182	0.322	1	EPA SW846-6010B	05/22/2013 14:56	05/22/2013 23:39	MW
7439-95-4	Magnesium	**5180**		mg/kg dry	0.483	5.37	1	EPA SW846-6010B	05/22/2013 14:56	05/22/2013 23:39	MW
7439-96-5	Manganese	**210**		mg/kg dry	0.118	1.07	1	EPA SW846-6010B	05/22/2013 14:56	05/22/2013 23:39	MW
7440-02-0	Nickel	**21.4**		mg/kg dry	0.139	0.537	1	EPA SW846-6010B	05/22/2013 14:56	05/22/2013 23:39	MW

Sample Information

Client Sample ID: MW-6 (0-2) **York Sample ID:** 13E0711-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0711	170246501	Soil	May 20, 2013 3:00 pm	05/21/2013

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-09-7	Potassium	**2220**	B	mg/kg dry	3.63	10.7	1	EPA SW846-6010B	05/22/2013 14:56	05/22/2013 23:39	MW
7782-49-2	Selenium	ND	U	mg/kg dry	0.537	0.537	1	EPA SW846-6010B	05/22/2013 14:56	05/22/2013 23:39	MW
7440-22-4	Silver	ND	U	mg/kg dry	0.107	0.537	1	EPA SW846-6010B	05/22/2013 14:56	05/22/2013 23:39	MW
7440-23-5	Sodium	**284**	B	mg/kg dry	5.65	10.7	1	EPA SW846-6010B	05/22/2013 14:56	05/22/2013 23:39	MW
7440-28-0	Thallium	ND	U	mg/kg dry	0.343	0.537	1	EPA SW846-6010B	05/22/2013 14:56	05/22/2013 23:39	MW
7440-62-2	Vanadium	**27.4**		mg/kg dry	0.118	0.537	1	EPA SW846-6010B	05/22/2013 14:56	05/22/2013 23:39	MW
7440-66-6	Zinc	**112**		mg/kg dry	0.097	0.537	1	EPA SW846-6010B	05/22/2013 14:56	05/22/2013 23:39	MW

Mercury by 7470/7471

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-7471

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND	U	mg/kg dry	0.0354	0.0354	1	EPA SW846-7471	05/22/2013 15:05	05/23/2013 09:05	AA

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	**93.2**		%	0.100	0.100	1	SM 2540G	05/22/2013 12:11	05/23/2013 09:58	AMC

Sample Information

Client Sample ID: MW-6 (9-11) **York Sample ID:** 13E0711-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0711	170246501	Soil	May 20, 2013 3:18 pm	05/21/2013

Volatile Organics, 8260 List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND	U	mg/kg dry	0.0027	0.0054	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 09:53	SS
71-55-6	1,1,1-Trichloroethane	ND	U	mg/kg dry	0.0027	0.0054	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 09:53	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND	U	mg/kg dry	0.0027	0.0054	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 09:53	SS
76-13-1	,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113	ND	U	mg/kg dry	0.0027	0.0054	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 09:53	SS
79-00-5	1,1,2-Trichloroethane	ND	U	mg/kg dry	0.0027	0.0054	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 09:53	SS
75-34-3	1,1-Dichloroethane	ND	U	mg/kg dry	0.0027	0.0054	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 09:53	SS
75-35-4	1,1-Dichloroethylene	ND	U	mg/kg dry	0.0027	0.0054	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 09:53	SS
563-58-6	1,1-Dichloropropylene	ND	U	mg/kg dry	0.0027	0.0054	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 09:53	SS
87-61-6	1,2,3-Trichlorobenzene	ND	U	mg/kg dry	0.0027	0.0054	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 09:53	SS

Sample Information

Client Sample ID: MW-6 (9-11) **York Sample ID:** 13E0711-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0711	170246501	Soil	May 20, 2013 3:18 pm	05/21/2013

Volatile Organics, 8260 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
96-18-4	1,2,3-Trichloropropane	ND	U	mg/kg dry	0.0027	0.0054	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 09:53	SS
120-82-1	1,2,4-Trichlorobenzene	ND	U	mg/kg dry	0.0027	0.0054	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 09:53	SS
95-63-6	1,2,4-Trimethylbenzene	ND	U	mg/kg dry	0.0027	0.0054	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 09:53	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND	U	mg/kg dry	0.0027	0.0054	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 09:53	SS
106-93-4	1,2-Dibromoethane	ND	U	mg/kg dry	0.0027	0.0054	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 09:53	SS
95-50-1	1,2-Dichlorobenzene	ND	U	mg/kg dry	0.0027	0.0054	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 09:53	SS
107-06-2	1,2-Dichloroethane	ND	U	mg/kg dry	0.0027	0.0054	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 09:53	SS
78-87-5	1,2-Dichloropropane	ND	U	mg/kg dry	0.0027	0.0054	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 09:53	SS
108-67-8	1,3,5-Trimethylbenzene	ND	U	mg/kg dry	0.0027	0.0054	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 09:53	SS
541-73-1	1,3-Dichlorobenzene	ND	U	mg/kg dry	0.0027	0.0054	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 09:53	SS
142-28-9	1,3-Dichloropropane	ND	U	mg/kg dry	0.0027	0.0054	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 09:53	SS
106-46-7	1,4-Dichlorobenzene	ND	U	mg/kg dry	0.0027	0.0054	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 09:53	SS
123-91-1	1,4-Dioxane	ND	U	mg/kg dry	0.054	0.11	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 09:53	SS
594-20-7	2,2-Dichloropropane	ND	U	mg/kg dry	0.0027	0.0054	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 09:53	SS
78-93-3	2-Butanone	ND	U	mg/kg dry	0.0027	0.0054	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 09:53	SS
95-49-8	2-Chlorotoluene	ND	U	mg/kg dry	0.0027	0.0054	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 09:53	SS
106-43-4	4-Chlorotoluene	ND	U	mg/kg dry	0.0027	0.0054	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 09:53	SS
67-64-1	Acetone	ND	U	mg/kg dry	0.0027	0.011	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 09:53	SS
71-43-2	Benzene	ND	U	mg/kg dry	0.0027	0.0054	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 09:53	SS
108-86-1	Bromobenzene	ND	U	mg/kg dry	0.0027	0.0054	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 09:53	SS
74-97-5	Bromochloromethane	ND	U	mg/kg dry	0.0027	0.0054	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 09:53	SS
75-27-4	Bromodichloromethane	ND	U	mg/kg dry	0.0027	0.0054	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 09:53	SS
75-25-2	Bromoform	ND	U	mg/kg dry	0.0027	0.0054	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 09:53	SS
74-83-9	Bromomethane	**0.011**		mg/kg dry	0.0027	0.0054	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 09:53	SS
56-23-5	Carbon tetrachloride	ND	U	mg/kg dry	0.0027	0.0054	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 09:53	SS
108-90-7	Chlorobenzene	ND	U	mg/kg dry	0.0027	0.0054	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 09:53	SS
75-00-3	Chloroethane	ND	U	mg/kg dry	0.0027	0.0054	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 09:53	SS
67-66-3	Chloroform	ND	U	mg/kg dry	0.0027	0.0054	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 09:53	SS
74-87-3	Chloromethane	ND	U	mg/kg dry	0.0027	0.0054	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 09:53	SS
156-59-2	cis-1,2-Dichloroethylene	ND	U	mg/kg dry	0.0027	0.0054	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 09:53	SS
10061-01-5	cis-1,3-Dichloropropylene	ND	U	mg/kg dry	0.0027	0.0054	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 09:53	SS
124-48-1	Dibromochloromethane	ND	U	mg/kg dry	0.0027	0.0054	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 09:53	SS

Sample Information

Client Sample ID: MW-6 (9-11) **York Sample ID:** 13E0711-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0711	170246501	Soil	May 20, 2013 3:18 pm	05/21/2013

Volatile Organics, 8260 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
74-95-3	Dibromomethane	ND	U	mg/kg dry	0.0027	0.0054	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 09:53	SS
75-71-8	Dichlorodifluoromethane	ND	U	mg/kg dry	0.0027	0.0054	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 09:53	SS
100-41-4	Ethyl Benzene	ND	U	mg/kg dry	0.0027	0.0054	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 09:53	SS
87-68-3	Hexachlorobutadiene	ND	U	mg/kg dry	0.0027	0.0054	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 09:53	SS
98-82-8	Isopropylbenzene	ND	U	mg/kg dry	0.0027	0.0054	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 09:53	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND	U	mg/kg dry	0.0027	0.0054	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 09:53	SS
75-09-2	Methylene chloride	**0.017**		mg/kg dry	0.0027	0.011	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 09:53	SS
91-20-3	Naphthalene	ND	U	mg/kg dry	0.0027	0.011	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 09:53	SS
104-51-8	n-Butylbenzene	ND	U	mg/kg dry	0.0027	0.0054	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 09:53	SS
103-65-1	n-Propylbenzene	ND	U	mg/kg dry	0.0027	0.0054	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 09:53	SS
95-47-6	o-Xylene	ND	U	mg/kg dry	0.0027	0.0054	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 09:53	SS
179601-23-1	p- & m- Xylenes	ND	U	mg/kg dry	0.0054	0.011	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 09:53	SS
99-87-6	p-Isopropyltoluene	ND	U	mg/kg dry	0.0027	0.0054	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 09:53	SS
135-98-8	sec-Butylbenzene	ND	U	mg/kg dry	0.0027	0.0054	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 09:53	SS
100-42-5	Styrene	ND	U	mg/kg dry	0.0027	0.0054	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 09:53	SS
98-06-6	tert-Butylbenzene	ND	U	mg/kg dry	0.0027	0.0054	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 09:53	SS
127-18-4	Tetrachloroethylene	ND	U	mg/kg dry	0.0027	0.0054	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 09:53	SS
108-88-3	Toluene	ND	U	mg/kg dry	0.0027	0.0054	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 09:53	SS
156-60-5	trans-1,2-Dichloroethylene	ND	U	mg/kg dry	0.0027	0.0054	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 09:53	SS
10061-02-6	trans-1,3-Dichloropropylene	ND	U	mg/kg dry	0.0027	0.0054	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 09:53	SS
79-01-6	Trichloroethylene	ND	U	mg/kg dry	0.0027	0.0054	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 09:53	SS
75-69-4	Trichlorofluoromethane	ND	U	mg/kg dry	0.0027	0.0054	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 09:53	SS
75-01-4	Vinyl Chloride	ND	U	mg/kg dry	0.0027	0.0054	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 09:53	SS
1330-20-7	Xylenes, Total	ND	U	mg/kg dry	0.0081	0.016	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 09:53	SS
108-05-4	Vinyl acetate	ND	U	mg/kg dry	0.0027	0.0054	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 09:53	SS

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*109 %*	*73-130*
460-00-4	*Surrogate: p-Bromofluorobenzene*	*89.4 %*	*72-127*
2037-26-5	*Surrogate: Toluene-d8*	*102 %*	*84-117*

Sample Information

Client Sample ID: MW-6 (9-11) **York Sample ID:** 13E0711-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0711	170246501	Soil	May 20, 2013 3:18 pm	05/21/2013

Semi-Volatiles, 8270 Target List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND	U	mg/kg dry	0.107	0.294	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 18:10	SR
208-96-8	Acenaphthylene	ND	U	mg/kg dry	0.141	0.294	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 18:10	SR
62-53-3	Aniline	ND	U	mg/kg dry	0.168	0.294	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 18:10	SR
120-12-7	Anthracene	ND	U	mg/kg dry	0.161	0.294	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 18:10	SR
56-55-3	Benzo(a)anthracene	ND	U	mg/kg dry	0.110	0.294	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 18:10	SR
50-32-8	Benzo(a)pyrene	ND	U	mg/kg dry	0.117	0.294	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 18:10	SR
205-99-2	Benzo(b)fluoranthene	ND	U	mg/kg dry	0.247	0.294	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 18:10	SR
191-24-2	Benzo(g,h,i)perylene	ND	U	mg/kg dry	0.0977	0.294	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 18:10	SR
100-51-6	Benzyl alcohol	ND	U	mg/kg dry	0.294	0.294	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 18:10	SR
207-08-9	Benzo(k)fluoranthene	ND	U	mg/kg dry	0.294	0.294	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 18:10	SR
85-68-7	Benzyl butyl phthalate	ND	U	mg/kg dry	0.162	0.294	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 18:10	SR
101-55-3	4-Bromophenyl phenyl ether	ND	U	mg/kg dry	0.142	0.294	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 18:10	SR
59-50-7	4-Chloro-3-methylphenol	ND	U	mg/kg dry	0.198	0.294	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 18:10	SR
106-47-8	4-Chloroaniline	ND	U	mg/kg dry	0.0765	0.294	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 18:10	SR
111-91-1	Bis(2-chloroethoxy)methane	ND	U	mg/kg dry	0.101	0.294	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 18:10	SR
111-44-4	Bis(2-chloroethyl)ether	ND	U	mg/kg dry	0.150	0.294	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 18:10	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND	U	mg/kg dry	0.104	0.294	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 18:10	SR
117-81-7	Bis(2-ethylhexyl)phthalate	ND	U	mg/kg dry	0.203	0.294	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 18:10	SR
91-58-7	2-Chloronaphthalene	ND	U	mg/kg dry	0.159	0.294	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 18:10	SR
95-57-8	2-Chlorophenol	ND	U	mg/kg dry	0.0971	0.294	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 18:10	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND	U	mg/kg dry	0.172	0.294	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 18:10	SR
218-01-9	Chrysene	ND	U	mg/kg dry	0.135	0.294	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 18:10	SR
53-70-3	Dibenzo(a,h)anthracene	ND	U	mg/kg dry	0.118	0.294	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 18:10	SR
132-64-9	Dibenzofuran	ND	U	mg/kg dry	0.137	0.294	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 18:10	SR
84-74-2	Di-n-butyl phthalate	ND	U	mg/kg dry	0.119	0.294	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 18:10	SR
95-50-1	1,2-Dichlorobenzene	ND	U	mg/kg dry	0.192	0.294	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 18:10	SR
106-46-7	1,4-Dichlorobenzene	ND	U	mg/kg dry	0.181	0.294	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 18:10	SR
541-73-1	1,3-Dichlorobenzene	ND	U	mg/kg dry	0.0930	0.294	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 18:10	SR
91-94-1	3,3'-Dichlorobenzidine	ND	U	mg/kg dry	0.154	0.294	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 18:10	SR
120-83-2	2,4-Dichlorophenol	ND	U	mg/kg dry	0.240	0.294	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 18:10	SR
84-66-2	Diethyl phthalate	ND	U	mg/kg dry	0.185	0.294	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 18:10	SR
105-67-9	2,4-Dimethylphenol	ND	U	mg/kg dry	0.206	0.294	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 18:10	SR

Sample Information

Client Sample ID: MW-6 (9-11) **York Sample ID:** 13E0711-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0711	170246501	Soil	May 20, 2013 3:18 pm	05/21/2013

Semi-Volatiles, 8270 Target List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
131-11-3	Dimethyl phthalate	ND	U	mg/kg dry	0.131	0.294	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 18:10	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND	U	mg/kg dry	0.371	0.588	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 18:10	SR
88-74-4	2-Nitroaniline	ND	U	mg/kg dry	0.257	0.294	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 18:10	SR
51-28-5	2,4-Dinitrophenol	ND	U	mg/kg dry	0.247	0.588	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 18:10	SR
606-20-2	2,6-Dinitrotoluene	ND	U	mg/kg dry	0.151	0.294	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 18:10	SR
121-14-2	2,4-Dinitrotoluene	ND	U	mg/kg dry	0.130	0.294	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 18:10	SR
117-84-0	Di-n-octyl phthalate	ND	U	mg/kg dry	0.294	0.294	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 18:10	SR
206-44-0	Fluoranthene	ND	U	mg/kg dry	0.172	0.294	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 18:10	SR
86-73-7	Fluorene	ND	U	mg/kg dry	0.141	0.294	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 18:10	SR
118-74-1	Hexachlorobenzene	ND	U	mg/kg dry	0.174	0.294	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 18:10	SR
87-68-3	Hexachlorobutadiene	ND	U	mg/kg dry	0.0994	0.294	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 18:10	SR
77-47-4	Hexachlorocyclopentadiene	ND	U	mg/kg dry	0.219	0.294	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 18:10	SR
67-72-1	Hexachloroethane	ND	U	mg/kg dry	0.0841	0.294	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 18:10	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND	U	mg/kg dry	0.134	0.294	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 18:10	SR
78-59-1	Isophorone	ND	U	mg/kg dry	0.101	0.294	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 18:10	SR
91-57-6	2-Methylnaphthalene	ND	U	mg/kg dry	0.226	0.294	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 18:10	SR
95-48-7	2-Methylphenol	ND	U	mg/kg dry	0.112	0.294	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 18:10	SR
65794-96-9	3- & 4-Methylphenols	ND	U	mg/kg dry	0.128	0.294	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 18:10	SR
91-20-3	Naphthalene	ND	U	mg/kg dry	0.0724	0.294	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 18:10	SR
99-09-2	3-Nitroaniline	ND	U	mg/kg dry	0.292	0.294	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 18:10	SR
100-01-6	4-Nitroaniline	ND	U	mg/kg dry	0.122	0.294	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 18:10	SR
98-95-3	Nitrobenzene	ND	U	mg/kg dry	0.0865	0.294	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 18:10	SR
100-02-7	4-Nitrophenol	ND	U	mg/kg dry	0.111	0.294	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 18:10	SR
88-75-5	2-Nitrophenol	ND	U	mg/kg dry	0.0800	0.294	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 18:10	SR
621-64-7	N-nitroso-di-n-propylamine	ND	U	mg/kg dry	0.0983	0.294	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 18:10	SR
62-75-9	N-Nitrosodimethylamine	ND	U	mg/kg dry	0.121	0.294	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 18:10	SR
86-30-6	N-Nitrosodiphenylamine	ND	U	mg/kg dry	0.133	0.294	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 18:10	SR
87-86-5	Pentachlorophenol	ND	U	mg/kg dry	0.222	0.294	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 18:10	SR
85-01-8	Phenanthrene	ND	U	mg/kg dry	0.154	0.294	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 18:10	SR
108-95-2	Phenol	ND	U	mg/kg dry	0.127	0.294	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 18:10	SR
129-00-0	Pyrene	ND	U	mg/kg dry	0.120	0.294	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 18:10	SR
110-86-1	Pyridine	ND	U	mg/kg dry	0.207	0.294	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 18:10	SR

Sample Information

Client Sample ID: MW-6 (9-11) **York Sample ID:** 13E0711-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0711	170246501	Soil	May 20, 2013 3:18 pm	05/21/2013

Semi-Volatiles, 8270 Target List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
120-82-1	1,2,4-Trichlorobenzene	ND	U	mg/kg dry	0.107	0.294	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 18:10	SR
95-95-4	2,4,5-Trichlorophenol	ND	U	mg/kg dry	0.228	0.294	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 18:10	SR
88-06-2	2,4,6-Trichlorophenol	ND	U	mg/kg dry	0.149	0.294	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 18:10	SR

	Surrogate Recoveries	Result	Acceptance Range
5175-83-7	*Surrogate: 2,4,6-Tribromophenol*	*54.8 %*	*15-110*
321-60-8	*Surrogate: 2-Fluorobiphenyl*	*49.9 %*	*30-130*
367-12-4	*Surrogate: 2-Fluorophenol*	*35.0 %*	*15-110*
4165-60-0	*Surrogate: Nitrobenzene-d5*	*34.1 %*	*30-130*
4165-62-2	*Surrogate: Phenol-d5*	*46.3 %*	*15-110*
1718-51-0	*Surrogate: Terphenyl-d14*	*91.4 %*	*30-130*

Polychlorinated Biphenyls (PCB)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0300	0.0300	1	EPA SW 846-8082A	05/22/2013 14:35	05/23/2013 13:11	JW
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0300	0.0300	1	EPA SW 846-8082A	05/22/2013 14:35	05/23/2013 13:11	JW
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0300	0.0300	1	EPA SW 846-8082A	05/22/2013 14:35	05/23/2013 13:11	JW
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0300	0.0300	1	EPA SW 846-8082A	05/22/2013 14:35	05/23/2013 13:11	JW
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0300	0.0300	1	EPA SW 846-8082A	05/22/2013 14:35	05/23/2013 13:11	JW
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0300	0.0300	1	EPA SW 846-8082A	05/22/2013 14:35	05/23/2013 13:11	JW
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0300	0.0300	1	EPA SW 846-8082A	05/22/2013 14:35	05/23/2013 13:11	JW
1336-36-3	Total PCBs	ND		mg/kg dry	0.0300	0.0300	1	EPA SW 846-8082A	05/22/2013 14:35	05/23/2013 13:11	JW

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*75.5 %*	*30-150*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*77.6 %*	*30-150*

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	**5460**		mg/kg dry	1.20	2.35	1	EPA SW846-6010B	05/22/2013 14:56	05/22/2013 23:43	MW
7440-36-0	Antimony	ND	U	mg/kg dry	0.259	0.588	1	EPA SW846-6010B	05/22/2013 14:56	05/22/2013 23:43	MW
7440-38-2	Arsenic	**6.06**		mg/kg dry	0.400	1.18	1	EPA SW846-6010B	05/22/2013 14:56	05/22/2013 23:43	MW
7440-39-3	Barium	**52.1**		mg/kg dry	0.153	0.588	1	EPA SW846-6010B	05/22/2013 14:56	05/22/2013 23:43	MW
7440-41-7	Beryllium	ND	U	mg/kg dry	0.118	0.118	1	EPA SW846-6010B	05/22/2013 14:56	05/22/2013 23:43	MW
7440-43-9	Cadmium	ND	U	mg/kg dry	0.118	0.588	1	EPA SW846-6010B	05/22/2013 14:56	05/22/2013 23:43	MW
7440-70-2	Calcium	**9570**		mg/kg dry	0.047	5.88	1	EPA SW846-6010B	05/22/2013 14:56	05/22/2013 23:43	MW

Sample Information

Client Sample ID: MW-6 (9-11) **York Sample ID:** 13E0711-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0711	170246501	Soil	May 20, 2013 3:18 pm	05/21/2013

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-47-3	Chromium	**13.4**		mg/kg dry	0.141	0.588	1	EPA SW846-6010B	05/22/2013 14:56	05/22/2013 23:43	MW
7440-48-4	Cobalt	**6.35**		mg/kg dry	0.094	0.588	1	EPA SW846-6010B	05/22/2013 14:56	05/22/2013 23:43	MW
7440-50-8	Copper	**12.7**		mg/kg dry	0.141	0.588	1	EPA SW846-6010B	05/22/2013 14:56	05/22/2013 23:43	MW
7439-89-6	Iron	**10800**		mg/kg dry	0.765	2.35	1	EPA SW846-6010B	05/22/2013 14:56	05/22/2013 23:43	MW
7439-92-1	Lead	**4.57**		mg/kg dry	0.200	0.353	1	EPA SW846-6010B	05/22/2013 14:56	05/22/2013 23:43	MW
7439-95-4	Magnesium	**7160**		mg/kg dry	0.530	5.88	1	EPA SW846-6010B	05/22/2013 14:56	05/22/2013 23:43	MW
7439-96-5	Manganese	**286**		mg/kg dry	0.129	1.18	1	EPA SW846-6010B	05/22/2013 14:56	05/22/2013 23:43	MW
7440-02-0	Nickel	**23.6**		mg/kg dry	0.153	0.588	1	EPA SW846-6010B	05/22/2013 14:56	05/22/2013 23:43	MW
7440-09-7	Potassium	**1500**	B	mg/kg dry	3.98	11.8	1	EPA SW846-6010B	05/22/2013 14:56	05/22/2013 23:43	MW
7782-49-2	Selenium	ND	U	mg/kg dry	0.588	0.588	1	EPA SW846-6010B	05/22/2013 14:56	05/22/2013 23:43	MW
7440-22-4	Silver	ND	U	mg/kg dry	0.118	0.588	1	EPA SW846-6010B	05/22/2013 14:56	05/22/2013 23:43	MW
7440-23-5	Sodium	**219**	B	mg/kg dry	6.20	11.8	1	EPA SW846-6010B	05/22/2013 14:56	05/22/2013 23:43	MW
7440-28-0	Thallium	ND	U	mg/kg dry	0.377	0.588	1	EPA SW846-6010B	05/22/2013 14:56	05/22/2013 23:43	MW
7440-62-2	Vanadium	**18.2**		mg/kg dry	0.129	0.588	1	EPA SW846-6010B	05/22/2013 14:56	05/22/2013 23:43	MW
7440-66-6	Zinc	**27.2**		mg/kg dry	0.106	0.588	1	EPA SW846-6010B	05/22/2013 14:56	05/22/2013 23:43	MW

Mercury by 7470/7471

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-7471

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND	U	mg/kg dry	0.0388	0.0388	1	EPA SW846-7471	05/22/2013 15:05	05/23/2013 09:05	AA

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	**85.0**		%	0.100	0.100	1	SM 2540G	05/22/2013 12:11	05/23/2013 09:58	AMC

Sample Information

Client Sample ID: MW-8 (0.5-2.5) **York Sample ID:** 13E0711-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0711	170246501	Soil	May 20, 2013 2:00 pm	05/21/2013

Volatile Organics, 8260 List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND	U	mg/kg dry	0.0029	0.0057	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 10:41	SS
71-55-6	1,1,1-Trichloroethane	ND	U	mg/kg dry	0.0029	0.0057	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 10:41	SS

Sample Information

Client Sample ID: MW-8 (0.5-2.5) **York Sample ID:** 13E0711-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0711	170246501	Soil	May 20, 2013 2:00 pm	05/21/2013

Volatile Organics, 8260 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
79-34-5	1,1,2,2-Tetrachloroethane	ND	U	mg/kg dry	0.0029	0.0057	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 10:41	SS
76-13-1	,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113	ND	U	mg/kg dry	0.0029	0.0057	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 10:41	SS
79-00-5	1,1,2-Trichloroethane	ND	U	mg/kg dry	0.0029	0.0057	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 10:41	SS
75-34-3	1,1-Dichloroethane	ND	U	mg/kg dry	0.0029	0.0057	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 10:41	SS
75-35-4	1,1-Dichloroethylene	ND	U	mg/kg dry	0.0029	0.0057	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 10:41	SS
563-58-6	1,1-Dichloropropylene	ND	U	mg/kg dry	0.0029	0.0057	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 10:41	SS
87-61-6	1,2,3-Trichlorobenzene	ND	U	mg/kg dry	0.0029	0.0057	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 10:41	SS
96-18-4	1,2,3-Trichloropropane	ND	U	mg/kg dry	0.0029	0.0057	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 10:41	SS
120-82-1	1,2,4-Trichlorobenzene	ND	U	mg/kg dry	0.0029	0.0057	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 10:41	SS
95-63-6	1,2,4-Trimethylbenzene	ND	U	mg/kg dry	0.0029	0.0057	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 10:41	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND	U	mg/kg dry	0.0029	0.0057	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 10:41	SS
106-93-4	1,2-Dibromoethane	ND	U	mg/kg dry	0.0029	0.0057	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 10:41	SS
95-50-1	1,2-Dichlorobenzene	ND	U	mg/kg dry	0.0029	0.0057	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 10:41	SS
107-06-2	1,2-Dichloroethane	ND	U	mg/kg dry	0.0029	0.0057	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 10:41	SS
78-87-5	1,2-Dichloropropane	ND	U	mg/kg dry	0.0029	0.0057	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 10:41	SS
108-67-8	1,3,5-Trimethylbenzene	ND	U	mg/kg dry	0.0029	0.0057	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 10:41	SS
541-73-1	1,3-Dichlorobenzene	ND	U	mg/kg dry	0.0029	0.0057	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 10:41	SS
142-28-9	1,3-Dichloropropane	ND	U	mg/kg dry	0.0029	0.0057	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 10:41	SS
106-46-7	1,4-Dichlorobenzene	ND	U	mg/kg dry	0.0029	0.0057	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 10:41	SS
123-91-1	1,4-Dioxane	ND	U	mg/kg dry	0.057	0.11	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 10:41	SS
594-20-7	2,2-Dichloropropane	ND	U	mg/kg dry	0.0029	0.0057	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 10:41	SS
78-93-3	2-Butanone	ND	U	mg/kg dry	0.0029	0.0057	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 10:41	SS
95-49-8	2-Chlorotoluene	ND	U	mg/kg dry	0.0029	0.0057	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 10:41	SS
106-43-4	4-Chlorotoluene	ND	U	mg/kg dry	0.0029	0.0057	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 10:41	SS
67-64-1	Acetone	ND	U	mg/kg dry	0.0029	0.011	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 10:41	SS
71-43-2	Benzene	ND	U	mg/kg dry	0.0029	0.0057	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 10:41	SS
108-86-1	Bromobenzene	ND	U	mg/kg dry	0.0029	0.0057	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 10:41	SS
74-97-5	Bromochloromethane	ND	U	mg/kg dry	0.0029	0.0057	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 10:41	SS
75-27-4	Bromodichloromethane	ND	U	mg/kg dry	0.0029	0.0057	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 10:41	SS
75-25-2	Bromoform	ND	U	mg/kg dry	0.0029	0.0057	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 10:41	SS
74-83-9	Bromomethane	**0.012**		mg/kg dry	0.0029	0.0057	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 10:41	SS
56-23-5	Carbon tetrachloride	ND	U	mg/kg dry	0.0029	0.0057	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 10:41	SS

Sample Information

Client Sample ID: MW-8 (0.5-2.5) **York Sample ID:** 13E0711-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0711	170246501	Soil	May 20, 2013 2:00 pm	05/21/2013

Volatile Organics, 8260 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-90-7	Chlorobenzene	ND	U	mg/kg dry	0.0029	0.0057	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 10:41	SS
75-00-3	Chloroethane	ND	U	mg/kg dry	0.0029	0.0057	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 10:41	SS
67-66-3	Chloroform	ND	U	mg/kg dry	0.0029	0.0057	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 10:41	SS
74-87-3	Chloromethane	ND	U	mg/kg dry	0.0029	0.0057	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 10:41	SS
156-59-2	cis-1,2-Dichloroethylene	ND	U	mg/kg dry	0.0029	0.0057	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 10:41	SS
10061-01-5	cis-1,3-Dichloropropylene	ND	U	mg/kg dry	0.0029	0.0057	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 10:41	SS
124-48-1	Dibromochloromethane	ND	U	mg/kg dry	0.0029	0.0057	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 10:41	SS
74-95-3	Dibromomethane	ND	U	mg/kg dry	0.0029	0.0057	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 10:41	SS
75-71-8	Dichlorodifluoromethane	ND	U	mg/kg dry	0.0029	0.0057	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 10:41	SS
100-41-4	Ethyl Benzene	ND	U	mg/kg dry	0.0029	0.0057	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 10:41	SS
87-68-3	Hexachlorobutadiene	ND	U	mg/kg dry	0.0029	0.0057	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 10:41	SS
98-82-8	Isopropylbenzene	ND	U	mg/kg dry	0.0029	0.0057	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 10:41	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND	U	mg/kg dry	0.0029	0.0057	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 10:41	SS
75-09-2	Methylene chloride	**0.016**		mg/kg dry	0.0029	0.011	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 10:41	SS
91-20-3	Naphthalene	ND	U	mg/kg dry	0.0029	0.011	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 10:41	SS
104-51-8	n-Butylbenzene	ND	U	mg/kg dry	0.0029	0.0057	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 10:41	SS
103-65-1	n-Propylbenzene	ND	U	mg/kg dry	0.0029	0.0057	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 10:41	SS
95-47-6	o-Xylene	ND	U	mg/kg dry	0.0029	0.0057	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 10:41	SS
179601-23-1	p- & m- Xylenes	ND	U	mg/kg dry	0.0057	0.011	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 10:41	SS
99-87-6	p-Isopropyltoluene	ND	U	mg/kg dry	0.0029	0.0057	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 10:41	SS
135-98-8	sec-Butylbenzene	ND	U	mg/kg dry	0.0029	0.0057	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 10:41	SS
100-42-5	Styrene	ND	U	mg/kg dry	0.0029	0.0057	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 10:41	SS
98-06-6	tert-Butylbenzene	ND	U	mg/kg dry	0.0029	0.0057	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 10:41	SS
127-18-4	Tetrachloroethylene	ND	U	mg/kg dry	0.0029	0.0057	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 10:41	SS
108-88-3	Toluene	ND	U	mg/kg dry	0.0029	0.0057	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 10:41	SS
156-60-5	trans-1,2-Dichloroethylene	ND	U	mg/kg dry	0.0029	0.0057	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 10:41	SS
10061-02-6	trans-1,3-Dichloropropylene	ND	U	mg/kg dry	0.0029	0.0057	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 10:41	SS
79-01-6	Trichloroethylene	ND	U	mg/kg dry	0.0029	0.0057	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 10:41	SS
75-69-4	Trichlorofluoromethane	ND	U	mg/kg dry	0.0029	0.0057	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 10:41	SS
75-01-4	Vinyl Chloride	ND	U	mg/kg dry	0.0029	0.0057	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 10:41	SS
1330-20-7	Xylenes, Total	ND	U	mg/kg dry	0.0086	0.017	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 10:41	SS
108-05-4	Vinyl acetate	ND	U	mg/kg dry	0.0029	0.0057	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 10:41	SS

Sample Information

Client Sample ID: MW-8 (0.5-2.5) **York Sample ID:** 13E0711-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0711	170246501	Soil	May 20, 2013 2:00 pm	05/21/2013

Volatile Organics, 8260 List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate Recoveries	**Result**		**Acceptance Range**							
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*119 %*		*73-130*							
460-00-4	*Surrogate: p-Bromofluorobenzene*	*94.7 %*		*72-127*							
2037-26-5	*Surrogate: Toluene-d8*	*105 %*		*84-117*							

Semi-Volatiles, 8270 Target List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND	U	mg/kg dry	0.0971	0.268	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 18:41	SR
208-96-8	Acenaphthylene	ND	U	mg/kg dry	0.129	0.268	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 18:41	SR
62-53-3	Aniline	ND	U	mg/kg dry	0.153	0.268	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 18:41	SR
120-12-7	Anthracene	ND	U	mg/kg dry	0.146	0.268	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 18:41	SR
56-55-3	Benzo(a)anthracene	**0.570**		mg/kg dry	0.100	0.268	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 18:41	SR
50-32-8	Benzo(a)pyrene	**0.689**		mg/kg dry	0.106	0.268	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 18:41	SR
205-99-2	Benzo(b)fluoranthene	**0.505**		mg/kg dry	0.225	0.268	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 18:41	SR
191-24-2	Benzo(g,h,i)perylene	**0.0896**	J	mg/kg dry	0.0891	0.268	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 18:41	SR
100-51-6	Benzyl alcohol	ND	U	mg/kg dry	0.268	0.268	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 18:41	SR
207-08-9	Benzo(k)fluoranthene	**0.617**		mg/kg dry	0.268	0.268	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 18:41	SR
85-68-7	Benzyl butyl phthalate	ND	U	mg/kg dry	0.148	0.268	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 18:41	SR
101-55-3	4-Bromophenyl phenyl ether	ND	U	mg/kg dry	0.129	0.268	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 18:41	SR
59-50-7	4-Chloro-3-methylphenol	ND	U	mg/kg dry	0.181	0.268	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 18:41	SR
106-47-8	4-Chloroaniline	ND	U	mg/kg dry	0.0697	0.268	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 18:41	SR
111-91-1	Bis(2-chloroethoxy)methane	ND	U	mg/kg dry	0.0923	0.268	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 18:41	SR
111-44-4	Bis(2-chloroethyl)ether	ND	U	mg/kg dry	0.137	0.268	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 18:41	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND	U	mg/kg dry	0.0944	0.268	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 18:41	SR
117-81-7	Bis(2-ethylhexyl)phthalate	ND	U	mg/kg dry	0.185	0.268	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 18:41	SR
91-58-7	2-Chloronaphthalene	ND	U	mg/kg dry	0.145	0.268	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 18:41	SR
95-57-8	2-Chlorophenol	ND	U	mg/kg dry	0.0885	0.268	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 18:41	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND	U	mg/kg dry	0.157	0.268	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 18:41	SR
218-01-9	Chrysene	**0.633**		mg/kg dry	0.123	0.268	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 18:41	SR
53-70-3	Dibenzo(a,h)anthracene	ND	U	mg/kg dry	0.108	0.268	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 18:41	SR
132-64-9	Dibenzofuran	ND	U	mg/kg dry	0.125	0.268	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 18:41	SR
84-74-2	Di-n-butyl phthalate	ND	U	mg/kg dry	0.109	0.268	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 18:41	SR
95-50-1	1,2-Dichlorobenzene	ND	U	mg/kg dry	0.175	0.268	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 18:41	SR

Sample Information

Client Sample ID: MW-8 (0.5-2.5) **York Sample ID:** 13E0711-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0711	170246501	Soil	May 20, 2013 2:00 pm	05/21/2013

Semi-Volatiles, 8270 Target List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
106-46-7	1,4-Dichlorobenzene	ND	U	mg/kg dry	0.165	0.268	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 18:41	SR
541-73-1	1,3-Dichlorobenzene	ND	U	mg/kg dry	0.0848	0.268	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 18:41	SR
91-94-1	3,3'-Dichlorobenzidine	ND	U	mg/kg dry	0.141	0.268	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 18:41	SR
120-83-2	2,4-Dichlorophenol	ND	U	mg/kg dry	0.219	0.268	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 18:41	SR
84-66-2	Diethyl phthalate	ND	U	mg/kg dry	0.168	0.268	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 18:41	SR
105-67-9	2,4-Dimethylphenol	ND	U	mg/kg dry	0.188	0.268	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 18:41	SR
131-11-3	Dimethyl phthalate	ND	U	mg/kg dry	0.120	0.268	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 18:41	SR
88-74-4	2-Nitroaniline	ND	U	mg/kg dry	0.234	0.268	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 18:41	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND	U	mg/kg dry	0.338	0.536	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 18:41	SR
51-28-5	2,4-Dinitrophenol	ND	U	mg/kg dry	0.225	0.536	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 18:41	SR
606-20-2	2,6-Dinitrotoluene	ND	U	mg/kg dry	0.138	0.268	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 18:41	SR
121-14-2	2,4-Dinitrotoluene	ND	U	mg/kg dry	0.119	0.268	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 18:41	SR
117-84-0	Di-n-octyl phthalate	ND	U	mg/kg dry	0.268	0.268	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 18:41	SR
206-44-0	Fluoranthene	**0.941**		mg/kg dry	0.157	0.268	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 18:41	SR
86-73-7	Fluorene	ND	U	mg/kg dry	0.129	0.268	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 18:41	SR
118-74-1	Hexachlorobenzene	ND	U	mg/kg dry	0.158	0.268	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 18:41	SR
87-68-3	Hexachlorobutadiene	ND	U	mg/kg dry	0.0907	0.268	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 18:41	SR
77-47-4	Hexachlorocyclopentadiene	ND	U	mg/kg dry	0.200	0.268	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 18:41	SR
67-72-1	Hexachloroethane	ND	U	mg/kg dry	0.0767	0.268	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 18:41	SR
193-39-5	Indeno(1,2,3-cd)pyrene	**0.140**	J	mg/kg dry	0.122	0.268	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 18:41	SR
78-59-1	Isophorone	ND	U	mg/kg dry	0.0923	0.268	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 18:41	SR
91-57-6	2-Methylnaphthalene	ND	U	mg/kg dry	0.206	0.268	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 18:41	SR
95-48-7	2-Methylphenol	ND	U	mg/kg dry	0.102	0.268	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 18:41	SR
65794-96-9	3- & 4-Methylphenols	ND	U	mg/kg dry	0.116	0.268	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 18:41	SR
91-20-3	Naphthalene	ND	U	mg/kg dry	0.0660	0.268	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 18:41	SR
99-09-2	3-Nitroaniline	ND	U	mg/kg dry	0.267	0.268	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 18:41	SR
100-01-6	4-Nitroaniline	ND	U	mg/kg dry	0.111	0.268	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 18:41	SR
98-95-3	Nitrobenzene	ND	U	mg/kg dry	0.0789	0.268	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 18:41	SR
100-02-7	4-Nitrophenol	ND	U	mg/kg dry	0.101	0.268	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 18:41	SR
88-75-5	2-Nitrophenol	ND	U	mg/kg dry	0.0730	0.268	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 18:41	SR
621-64-7	N-nitroso-di-n-propylamine	ND	U	mg/kg dry	0.0896	0.268	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 18:41	SR
62-75-9	N-Nitrosodimethylamine	ND	U	mg/kg dry	0.110	0.268	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 18:41	SR

Sample Information

Client Sample ID: MW-8 (0.5-2.5) **York Sample ID:** 13E0711-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0711	170246501	Soil	May 20, 2013 2:00 pm	05/21/2013

Semi-Volatiles, 8270 Target List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
86-30-6	N-Nitrosodiphenylamine	ND	U	mg/kg dry	0.121	0.268	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 18:41	SR
87-86-5	Pentachlorophenol	ND	U	mg/kg dry	0.202	0.268	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 18:41	SR
85-01-8	Phenanthrene	**0.667**		mg/kg dry	0.140	0.268	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 18:41	SR
108-95-2	Phenol	ND	U	mg/kg dry	0.116	0.268	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 18:41	SR
129-00-0	Pyrene	**1.20**		mg/kg dry	0.109	0.268	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 18:41	SR
110-86-1	Pyridine	ND	U	mg/kg dry	0.188	0.268	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 18:41	SR
120-82-1	1,2,4-Trichlorobenzene	ND	U	mg/kg dry	0.0971	0.268	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 18:41	SR
95-95-4	2,4,5-Trichlorophenol	ND	U	mg/kg dry	0.208	0.268	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 18:41	SR
88-06-2	2,4,6-Trichlorophenol	ND	U	mg/kg dry	0.136	0.268	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 18:41	SR

	Surrogate Recoveries	Result		Acceptance Range
5175-83-7	*Surrogate: 2,4,6-Tribromophenol*	*69.4 %*		*15-110*
321-60-8	*Surrogate: 2-Fluorobiphenyl*	*54.5 %*		*30-130*
367-12-4	*Surrogate: 2-Fluorophenol*	*33.0 %*		*15-110*
4165-60-0	*Surrogate: Nitrobenzene-d5*	*27.9 %*	*S-BN*	*30-130*
4165-62-2	*Surrogate: Phenol-d5*	*47.9 %*		*15-110*
1718-51-0	*Surrogate: Terphenyl-d14*	*100 %*		*30-130*

Pesticides/PCBs, EPA 8081/8082 List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
8001-35-2	Toxaphene	ND	U	mg/kg dry	0.134	0.134	5	EPA SW 846-8081/8082	05/22/2013 14:35	05/23/2013 11:38	JW
72-43-5	Methoxychlor	ND	U	mg/kg dry	0.0133	0.0133	5	EPA SW 846-8081/8082	05/22/2013 14:35	05/23/2013 11:38	JW
1024-57-3	Heptachlor epoxide	ND	U	mg/kg dry	0.00266	0.00266	5	EPA SW 846-8081/8082	05/22/2013 14:35	05/23/2013 11:38	JW
76-44-8	Heptachlor	ND	U	mg/kg dry	0.00266	0.00266	5	EPA SW 846-8081/8082	05/22/2013 14:35	05/23/2013 11:38	JW
58-89-9	gamma-BHC (Lindane)	ND	U	mg/kg dry	0.00266	0.00266	5	EPA SW 846-8081/8082	05/22/2013 14:35	05/23/2013 11:38	JW
53494-70-5	Endrin ketone	ND	U	mg/kg dry	0.00266	0.00266	5	EPA SW 846-8081/8082	05/22/2013 14:35	05/23/2013 11:38	JW
7421-93-4	Endrin aldehyde	ND	U	mg/kg dry	0.00266	0.00266	5	EPA SW 846-8081/8082	05/22/2013 14:35	05/23/2013 11:38	JW
72-20-8	Endrin	ND	U	mg/kg dry	0.00266	0.00266	5	EPA SW 846-8081/8082	05/22/2013 14:35	05/23/2013 11:38	JW
1031-07-8	Endosulfan sulfate	ND	U	mg/kg dry	0.00266	0.00266	5	EPA SW 846-8081/8082	05/22/2013 14:35	05/23/2013 11:38	JW
33213-65-9	Endosulfan II	ND	U	mg/kg dry	0.00266	0.00266	5	EPA SW 846-8081/8082	05/22/2013 14:35	05/23/2013 11:38	JW
959-98-8	Endosulfan I	ND	U	mg/kg dry	0.00266	0.00266	5	EPA SW 846-8081/8082	05/22/2013 14:35	05/23/2013 11:38	JW
60-57-1	Dieldrin	ND	U	mg/kg dry	0.00266	0.00266	5	EPA SW 846-8081/8082	05/22/2013 14:35	05/23/2013 11:38	JW
319-86-8	delta-BHC	ND	U	mg/kg dry	0.00266	0.00266	5	EPA SW 846-8081/8082	05/22/2013 14:35	05/23/2013 11:38	JW
57-74-9	Chlordane, total	ND	U	mg/kg dry	0.0106	0.0106	5	EPA SW 846-8081/8082	05/22/2013 14:35	05/23/2013 11:38	JW
319-85-7	beta-BHC	ND	U	mg/kg dry	0.00266	0.00266	5	EPA SW 846-8081/8082	05/22/2013 14:35	05/23/2013 11:38	JW

Sample Information

Client Sample ID: MW-8 (0.5-2.5) **York Sample ID:** 13E0711-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0711	170246501	Soil	May 20, 2013 2:00 pm	05/21/2013

Pesticides/PCBs, EPA 8081/8082 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
319-84-6	alpha-BHC	ND	U	mg/kg dry	0.00266	0.00266	5	EPA SW 846-8081/8082	05/22/2013 14:35	05/23/2013 11:38	JW
309-00-2	Aldrin	ND	U	mg/kg dry	0.00266	0.00266	5	EPA SW 846-8081/8082	05/22/2013 14:35	05/23/2013 11:38	JW
50-29-3	4,4'-DDT	ND	U	mg/kg dry	0.00266	0.00266	5	EPA SW 846-8081/8082	05/22/2013 14:35	05/23/2013 11:38	JW
72-55-9	4,4'-DDE	ND	U	mg/kg dry	0.00266	0.00266	5	EPA SW 846-8081/8082	05/22/2013 14:35	05/23/2013 11:38	JW
72-54-8	4,4'-DDD	ND	U	mg/kg dry	0.00266	0.00266	5	EPA SW 846-8081/8082	05/22/2013 14:35	05/23/2013 11:38	JW
11096-82-5	Aroclor 1260	ND	U	mg/kg dry	0.0274	0.0274	1	EPA SW 846-8081/8082	05/22/2013 14:35	05/23/2013 13:40	JW
11097-69-1	Aroclor 1254	ND	U	mg/kg dry	0.0274	0.0274	1	EPA SW 846-8081/8082	05/22/2013 14:35	05/23/2013 13:40	JW
12672-29-6	Aroclor 1248	ND	U	mg/kg dry	0.0274	0.0274	1	EPA SW 846-8081/8082	05/22/2013 14:35	05/23/2013 13:40	JW
53469-21-9	Aroclor 1242	ND	U	mg/kg dry	0.0274	0.0274	1	EPA SW 846-8081/8082	05/22/2013 14:35	05/23/2013 13:40	JW
11141-16-5	Aroclor 1232	ND	U	mg/kg dry	0.0274	0.0274	1	EPA SW 846-8081/8082	05/22/2013 14:35	05/23/2013 13:40	JW
11104-28-2	Aroclor 1221	ND	U	mg/kg dry	0.0274	0.0274	1	EPA SW 846-8081/8082	05/22/2013 14:35	05/23/2013 13:40	JW
12674-11-2	Aroclor 1016	ND	U	mg/kg dry	0.0274	0.0274	1	EPA SW 846-8081/8082	05/22/2013 14:35	05/23/2013 13:40	JW
1336-36-3	Total PCBs	ND	U	mg/kg dry	0.0109	0.0274	1	EPA SW 846-8081/8082	05/22/2013 14:35	05/23/2013 13:40	JW

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*84.5 %*	*30-150*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*65.0 %*	*30-150*

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	**12700**		mg/kg dry	1.09	2.15	1	EPA SW846-6010B	05/22/2013 14:56	05/22/2013 23:48	MW
7440-36-0	Antimony	ND	U	mg/kg dry	0.236	0.536	1	EPA SW846-6010B	05/22/2013 14:56	05/22/2013 23:48	MW
7440-38-2	Arsenic	**4.65**		mg/kg dry	0.365	1.07	1	EPA SW846-6010B	05/22/2013 14:56	05/22/2013 23:48	MW
7440-39-3	Barium	**226**		mg/kg dry	0.139	0.536	1	EPA SW846-6010B	05/22/2013 14:56	05/22/2013 23:48	MW
7440-41-7	Beryllium	ND	U	mg/kg dry	0.107	0.107	1	EPA SW846-6010B	05/22/2013 14:56	05/22/2013 23:48	MW
7440-43-9	Cadmium	ND	U	mg/kg dry	0.107	0.536	1	EPA SW846-6010B	05/22/2013 14:56	05/22/2013 23:48	MW
7440-70-2	Calcium	**11200**		mg/kg dry	0.043	5.36	1	EPA SW846-6010B	05/22/2013 14:56	05/22/2013 23:48	MW
7440-47-3	Chromium	**19.7**		mg/kg dry	0.129	0.536	1	EPA SW846-6010B	05/22/2013 14:56	05/22/2013 23:48	MW
7440-48-4	Cobalt	**11.7**		mg/kg dry	0.086	0.536	1	EPA SW846-6010B	05/22/2013 14:56	05/22/2013 23:48	MW
7440-50-8	Copper	**27.6**		mg/kg dry	0.129	0.536	1	EPA SW846-6010B	05/22/2013 14:56	05/22/2013 23:48	MW
7439-89-6	Iron	**26100**	E	mg/kg dry	0.697	2.15	1	EPA SW846-6010B	05/22/2013 14:56	05/22/2013 23:48	MW
7439-92-1	Lead	**155**		mg/kg dry	0.182	0.322	1	EPA SW846-6010B	05/22/2013 14:56	05/22/2013 23:48	MW
7439-95-4	Magnesium	**6690**		mg/kg dry	0.483	5.36	1	EPA SW846-6010B	05/22/2013 14:56	05/22/2013 23:48	MW
7439-96-5	Manganese	**321**		mg/kg dry	0.118	1.07	1	EPA SW846-6010B	05/22/2013 14:56	05/22/2013 23:48	MW
7440-02-0	Nickel	**21.5**		mg/kg dry	0.139	0.536	1	EPA SW846-6010B	05/22/2013 14:56	05/22/2013 23:48	MW

Sample Information

Client Sample ID: MW-8 (0.5-2.5) **York Sample ID:** 13E0711-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0711	170246501	Soil	May 20, 2013 2:00 pm	05/21/2013

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-09-7	Potassium	**5340**	B	mg/kg dry	3.63	10.7	1	EPA SW846-6010B	05/22/2013 14:56	05/22/2013 23:48	MW
7782-49-2	Selenium	**1.39**		mg/kg dry	0.536	0.536	1	EPA SW846-6010B	05/22/2013 14:56	05/22/2013 23:48	MW
7440-22-4	Silver	ND	U	mg/kg dry	0.107	0.536	1	EPA SW846-6010B	05/22/2013 14:56	05/22/2013 23:48	MW
7440-23-5	Sodium	**426**	B	mg/kg dry	5.65	10.7	1	EPA SW846-6010B	05/22/2013 14:56	05/22/2013 23:48	MW
7440-28-0	Thallium	ND	U	mg/kg dry	0.343	0.536	1	EPA SW846-6010B	05/22/2013 14:56	05/22/2013 23:48	MW
7440-62-2	Vanadium	**47.9**		mg/kg dry	0.118	0.536	1	EPA SW846-6010B	05/22/2013 14:56	05/22/2013 23:48	MW
7440-66-6	Zinc	**203**		mg/kg dry	0.097	0.536	1	EPA SW846-6010B	05/22/2013 14:56	05/22/2013 23:48	MW

Mercury by 7470/7471

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-7471

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND	U	mg/kg dry	0.0354	0.0354	1	EPA SW846-7471	05/22/2013 15:05	05/23/2013 09:05	AA

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	**93.2**		%	0.100	0.100	1	SM 2540G	05/22/2013 12:11	05/23/2013 09:58	AMC

Sample Information

Client Sample ID: MW-8 (7.5-9.5) **York Sample ID:** 13E0711-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0711	170246501	Soil	May 20, 2013 2:10 pm	05/21/2013

Volatile Organics, 8260 List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND	U	mg/kg dry	0.0027	0.0054	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 11:29	SS
71-55-6	1,1,1-Trichloroethane	ND	U	mg/kg dry	0.0027	0.0054	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 11:29	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND	U	mg/kg dry	0.0027	0.0054	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 11:29	SS
76-13-1	,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113	ND	U	mg/kg dry	0.0027	0.0054	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 11:29	SS
79-00-5	1,1,2-Trichloroethane	ND	U	mg/kg dry	0.0027	0.0054	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 11:29	SS
75-34-3	1,1-Dichloroethane	ND	U	mg/kg dry	0.0027	0.0054	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 11:29	SS
75-35-4	1,1-Dichloroethylene	ND	U	mg/kg dry	0.0027	0.0054	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 11:29	SS
563-58-6	1,1-Dichloropropylene	ND	U	mg/kg dry	0.0027	0.0054	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 11:29	SS
87-61-6	1,2,3-Trichlorobenzene	ND	U	mg/kg dry	0.0027	0.0054	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 11:29	SS

Sample Information

Client Sample ID: MW-8 (7.5-9.5) **York Sample ID:** 13E0711-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0711	170246501	Soil	May 20, 2013 2:10 pm	05/21/2013

Volatile Organics, 8260 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
96-18-4	1,2,3-Trichloropropane	ND	U	mg/kg dry	0.0027	0.0054	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 11:29	SS
120-82-1	1,2,4-Trichlorobenzene	ND	U	mg/kg dry	0.0027	0.0054	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 11:29	SS
95-63-6	1,2,4-Trimethylbenzene	ND	U	mg/kg dry	0.0027	0.0054	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 11:29	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND	U	mg/kg dry	0.0027	0.0054	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 11:29	SS
106-93-4	1,2-Dibromoethane	ND	U	mg/kg dry	0.0027	0.0054	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 11:29	SS
95-50-1	1,2-Dichlorobenzene	ND	U	mg/kg dry	0.0027	0.0054	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 11:29	SS
107-06-2	1,2-Dichloroethane	ND	U	mg/kg dry	0.0027	0.0054	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 11:29	SS
78-87-5	1,2-Dichloropropane	ND	U	mg/kg dry	0.0027	0.0054	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 11:29	SS
108-67-8	1,3,5-Trimethylbenzene	ND	U	mg/kg dry	0.0027	0.0054	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 11:29	SS
541-73-1	1,3-Dichlorobenzene	ND	U	mg/kg dry	0.0027	0.0054	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 11:29	SS
142-28-9	1,3-Dichloropropane	ND	U	mg/kg dry	0.0027	0.0054	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 11:29	SS
106-46-7	1,4-Dichlorobenzene	ND	U	mg/kg dry	0.0027	0.0054	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 11:29	SS
123-91-1	1,4-Dioxane	ND	U	mg/kg dry	0.054	0.11	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 11:29	SS
594-20-7	2,2-Dichloropropane	ND	U	mg/kg dry	0.0027	0.0054	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 11:29	SS
78-93-3	2-Butanone	ND	U	mg/kg dry	0.0027	0.0054	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 11:29	SS
95-49-8	2-Chlorotoluene	ND	U	mg/kg dry	0.0027	0.0054	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 11:29	SS
106-43-4	4-Chlorotoluene	ND	U	mg/kg dry	0.0027	0.0054	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 11:29	SS
67-64-1	Acetone	ND	U	mg/kg dry	0.0027	0.011	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 11:29	SS
71-43-2	Benzene	ND	U	mg/kg dry	0.0027	0.0054	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 11:29	SS
108-86-1	Bromobenzene	ND	U	mg/kg dry	0.0027	0.0054	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 11:29	SS
74-97-5	Bromochloromethane	ND	U	mg/kg dry	0.0027	0.0054	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 11:29	SS
75-27-4	Bromodichloromethane	ND	U	mg/kg dry	0.0027	0.0054	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 11:29	SS
75-25-2	Bromoform	ND	U	mg/kg dry	0.0027	0.0054	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 11:29	SS
74-83-9	Bromomethane	**0.0059**		mg/kg dry	0.0027	0.0054	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 11:29	SS
56-23-5	Carbon tetrachloride	ND	U	mg/kg dry	0.0027	0.0054	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 11:29	SS
108-90-7	Chlorobenzene	ND	U	mg/kg dry	0.0027	0.0054	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 11:29	SS
75-00-3	Chloroethane	ND	U	mg/kg dry	0.0027	0.0054	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 11:29	SS
67-66-3	Chloroform	ND	U	mg/kg dry	0.0027	0.0054	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 11:29	SS
74-87-3	Chloromethane	ND	U	mg/kg dry	0.0027	0.0054	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 11:29	SS
156-59-2	cis-1,2-Dichloroethylene	ND	U	mg/kg dry	0.0027	0.0054	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 11:29	SS
10061-01-5	cis-1,3-Dichloropropylene	ND	U	mg/kg dry	0.0027	0.0054	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 11:29	SS
124-48-1	Dibromochloromethane	ND	U	mg/kg dry	0.0027	0.0054	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 11:29	SS

Sample Information

Client Sample ID: **MW-8 (7.5-9.5)** **York Sample ID:** **13E0711-08**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0711	170246501	Soil	May 20, 2013 2:10 pm	05/21/2013

Volatile Organics, 8260 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
74-95-3	Dibromomethane	ND	U	mg/kg dry	0.0027	0.0054	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 11:29	SS
75-71-8	Dichlorodifluoromethane	ND	U	mg/kg dry	0.0027	0.0054	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 11:29	SS
100-41-4	Ethyl Benzene	ND	U	mg/kg dry	0.0027	0.0054	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 11:29	SS
87-68-3	Hexachlorobutadiene	ND	U	mg/kg dry	0.0027	0.0054	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 11:29	SS
98-82-8	Isopropylbenzene	ND	U	mg/kg dry	0.0027	0.0054	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 11:29	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND	U	mg/kg dry	0.0027	0.0054	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 11:29	SS
75-09-2	Methylene chloride	**0.016**		mg/kg dry	0.0027	0.011	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 11:29	SS
91-20-3	Naphthalene	ND	U	mg/kg dry	0.0027	0.011	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 11:29	SS
104-51-8	n-Butylbenzene	ND	U	mg/kg dry	0.0027	0.0054	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 11:29	SS
103-65-1	n-Propylbenzene	ND	U	mg/kg dry	0.0027	0.0054	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 11:29	SS
95-47-6	o-Xylene	ND	U	mg/kg dry	0.0027	0.0054	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 11:29	SS
179601-23-1	p- & m- Xylenes	ND	U	mg/kg dry	0.0054	0.011	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 11:29	SS
99-87-6	p-Isopropyltoluene	ND	U	mg/kg dry	0.0027	0.0054	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 11:29	SS
135-98-8	sec-Butylbenzene	ND	U	mg/kg dry	0.0027	0.0054	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 11:29	SS
100-42-5	Styrene	ND	U	mg/kg dry	0.0027	0.0054	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 11:29	SS
98-06-6	tert-Butylbenzene	ND	U	mg/kg dry	0.0027	0.0054	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 11:29	SS
127-18-4	Tetrachloroethylene	ND	U	mg/kg dry	0.0027	0.0054	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 11:29	SS
108-88-3	Toluene	ND	U	mg/kg dry	0.0027	0.0054	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 11:29	SS
156-60-5	trans-1,2-Dichloroethylene	ND	U	mg/kg dry	0.0027	0.0054	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 11:29	SS
10061-02-6	trans-1,3-Dichloropropylene	ND	U	mg/kg dry	0.0027	0.0054	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 11:29	SS
79-01-6	Trichloroethylene	ND	U	mg/kg dry	0.0027	0.0054	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 11:29	SS
75-69-4	Trichlorofluoromethane	ND	U	mg/kg dry	0.0027	0.0054	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 11:29	SS
75-01-4	Vinyl Chloride	ND	U	mg/kg dry	0.0027	0.0054	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 11:29	SS
1330-20-7	Xylenes, Total	ND	U	mg/kg dry	0.0081	0.016	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 11:29	SS
108-05-4	Vinyl acetate	ND	U	mg/kg dry	0.0027	0.0054	1	EPA SW846-8260B	05/22/2013 14:10	05/23/2013 11:29	SS

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*124 %*	*73-130*
460-00-4	*Surrogate: p-Bromofluorobenzene*	*94.4 %*	*72-127*
2037-26-5	*Surrogate: Toluene-d8*	*104 %*	*84-117*

Sample Information

Client Sample ID: MW-8 (7.5-9.5) **York Sample ID:** 13E0711-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0711	170246501	Soil	May 20, 2013 2:10 pm	05/21/2013

Semi-Volatiles, 8270 Target List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND	U	mg/kg dry	0.107	0.294	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 19:12	SR
208-96-8	Acenaphthylene	ND	U	mg/kg dry	0.141	0.294	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 19:12	SR
62-53-3	Aniline	ND	U	mg/kg dry	0.168	0.294	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 19:12	SR
120-12-7	Anthracene	ND	U	mg/kg dry	0.161	0.294	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 19:12	SR
56-55-3	Benzo(a)anthracene	ND	U	mg/kg dry	0.110	0.294	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 19:12	SR
50-32-8	Benzo(a)pyrene	ND	U	mg/kg dry	0.117	0.294	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 19:12	SR
205-99-2	Benzo(b)fluoranthene	ND	U	mg/kg dry	0.247	0.294	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 19:12	SR
191-24-2	Benzo(g,h,i)perylene	ND	U	mg/kg dry	0.0977	0.294	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 19:12	SR
100-51-6	Benzyl alcohol	ND	U	mg/kg dry	0.294	0.294	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 19:12	SR
207-08-9	Benzo(k)fluoranthene	ND	U	mg/kg dry	0.294	0.294	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 19:12	SR
85-68-7	Benzyl butyl phthalate	ND	U	mg/kg dry	0.163	0.294	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 19:12	SR
101-55-3	4-Bromophenyl phenyl ether	ND	U	mg/kg dry	0.142	0.294	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 19:12	SR
59-50-7	4-Chloro-3-methylphenol	ND	U	mg/kg dry	0.198	0.294	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 19:12	SR
106-47-8	4-Chloroaniline	ND	U	mg/kg dry	0.0765	0.294	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 19:12	SR
111-91-1	Bis(2-chloroethoxy)methane	ND	U	mg/kg dry	0.101	0.294	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 19:12	SR
111-44-4	Bis(2-chloroethyl)ether	ND	U	mg/kg dry	0.150	0.294	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 19:12	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND	U	mg/kg dry	0.104	0.294	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 19:12	SR
117-81-7	Bis(2-ethylhexyl)phthalate	ND	U	mg/kg dry	0.203	0.294	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 19:12	SR
91-58-7	2-Chloronaphthalene	ND	U	mg/kg dry	0.159	0.294	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 19:12	SR
95-57-8	2-Chlorophenol	ND	U	mg/kg dry	0.0972	0.294	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 19:12	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND	U	mg/kg dry	0.173	0.294	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 19:12	SR
218-01-9	Chrysene	ND	U	mg/kg dry	0.135	0.294	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 19:12	SR
53-70-3	Dibenzo(a,h)anthracene	ND	U	mg/kg dry	0.118	0.294	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 19:12	SR
132-64-9	Dibenzofuran	ND	U	mg/kg dry	0.137	0.294	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 19:12	SR
84-74-2	Di-n-butyl phthalate	ND	U	mg/kg dry	0.120	0.294	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 19:12	SR
95-50-1	1,2-Dichlorobenzene	ND	U	mg/kg dry	0.193	0.294	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 19:12	SR
106-46-7	1,4-Dichlorobenzene	ND	U	mg/kg dry	0.181	0.294	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 19:12	SR
541-73-1	1,3-Dichlorobenzene	ND	U	mg/kg dry	0.0930	0.294	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 19:12	SR
91-94-1	3,3'-Dichlorobenzidine	ND	U	mg/kg dry	0.154	0.294	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 19:12	SR
120-83-2	2,4-Dichlorophenol	ND	U	mg/kg dry	0.240	0.294	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 19:12	SR
84-66-2	Diethyl phthalate	ND	U	mg/kg dry	0.185	0.294	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 19:12	SR
105-67-9	2,4-Dimethylphenol	ND	U	mg/kg dry	0.206	0.294	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 19:12	SR

Sample Information

Client Sample ID: MW-8 (7.5-9.5) **York Sample ID:** 13E0711-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0711	170246501	Soil	May 20, 2013 2:10 pm	05/21/2013

Semi-Volatiles, 8270 Target List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
131-11-3	Dimethyl phthalate	ND	U	mg/kg dry	0.131	0.294	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 19:12	SR
88-74-4	2-Nitroaniline	ND	U	mg/kg dry	0.257	0.294	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 19:12	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND	U	mg/kg dry	0.371	0.589	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 19:12	SR
51-28-5	2,4-Dinitrophenol	ND	U	mg/kg dry	0.247	0.589	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 19:12	SR
606-20-2	2,6-Dinitrotoluene	ND	U	mg/kg dry	0.151	0.294	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 19:12	SR
121-14-2	2,4-Dinitrotoluene	ND	U	mg/kg dry	0.130	0.294	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 19:12	SR
117-84-0	Di-n-octyl phthalate	ND	U	mg/kg dry	0.294	0.294	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 19:12	SR
206-44-0	Fluoranthene	ND	U	mg/kg dry	0.173	0.294	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 19:12	SR
86-73-7	Fluorene	ND	U	mg/kg dry	0.141	0.294	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 19:12	SR
118-74-1	Hexachlorobenzene	ND	U	mg/kg dry	0.174	0.294	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 19:12	SR
87-68-3	Hexachlorobutadiene	ND	U	mg/kg dry	0.0995	0.294	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 19:12	SR
77-47-4	Hexachlorocyclopentadiene	ND	U	mg/kg dry	0.219	0.294	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 19:12	SR
67-72-1	Hexachloroethane	ND	U	mg/kg dry	0.0842	0.294	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 19:12	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND	U	mg/kg dry	0.134	0.294	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 19:12	SR
78-59-1	Isophorone	ND	U	mg/kg dry	0.101	0.294	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 19:12	SR
91-57-6	2-Methylnaphthalene	ND	U	mg/kg dry	0.226	0.294	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 19:12	SR
95-48-7	2-Methylphenol	ND	U	mg/kg dry	0.112	0.294	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 19:12	SR
65794-96-9	3- & 4-Methylphenols	ND	U	mg/kg dry	0.128	0.294	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 19:12	SR
91-20-3	Naphthalene	ND	U	mg/kg dry	0.0724	0.294	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 19:12	SR
99-09-2	3-Nitroaniline	ND	U	mg/kg dry	0.293	0.294	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 19:12	SR
100-01-6	4-Nitroaniline	ND	U	mg/kg dry	0.122	0.294	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 19:12	SR
98-95-3	Nitrobenzene	ND	U	mg/kg dry	0.0866	0.294	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 19:12	SR
100-02-7	4-Nitrophenol	ND	U	mg/kg dry	0.111	0.294	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 19:12	SR
88-75-5	2-Nitrophenol	ND	U	mg/kg dry	0.0801	0.294	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 19:12	SR
621-64-7	N-nitroso-di-n-propylamine	ND	U	mg/kg dry	0.0983	0.294	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 19:12	SR
62-75-9	N-Nitrosodimethylamine	ND	U	mg/kg dry	0.121	0.294	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 19:12	SR
86-30-6	N-Nitrosodiphenylamine	ND	U	mg/kg dry	0.133	0.294	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 19:12	SR
87-86-5	Pentachlorophenol	ND	U	mg/kg dry	0.222	0.294	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 19:12	SR
85-01-8	Phenanthrene	ND	U	mg/kg dry	0.154	0.294	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 19:12	SR
108-95-2	Phenol	ND	U	mg/kg dry	0.127	0.294	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 19:12	SR
129-00-0	Pyrene	ND	U	mg/kg dry	0.120	0.294	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 19:12	SR
110-86-1	Pyridine	ND	U	mg/kg dry	0.207	0.294	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 19:12	SR

Sample Information

Client Sample ID: MW-8 (7.5-9.5) **York Sample ID:** 13E0711-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0711	170246501	Soil	May 20, 2013 2:10 pm	05/21/2013

Semi-Volatiles, 8270 Target List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
120-82-1	1,2,4-Trichlorobenzene	ND	U	mg/kg dry	0.107	0.294	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 19:12	SR
95-95-4	2,4,5-Trichlorophenol	ND	U	mg/kg dry	0.228	0.294	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 19:12	SR
88-06-2	2,4,6-Trichlorophenol	ND	U	mg/kg dry	0.150	0.294	1	EPA SW-846 8270C	05/22/2013 14:29	05/23/2013 19:12	SR

	Surrogate Recoveries	Result		Acceptance Range
5175-83-7	*Surrogate: 2,4,6-Tribromophenol*	*60.5 %*		*15-110*
321-60-8	*Surrogate: 2-Fluorobiphenyl*	*55.0 %*		*30-130*
367-12-4	*Surrogate: 2-Fluorophenol*	*40.6 %*		*15-110*
4165-60-0	*Surrogate: Nitrobenzene-d5*	*29.3 %*	*S-BN*	*30-130*
4165-62-2	*Surrogate: Phenol-d5*	*55.4 %*		*15-110*
1718-51-0	*Surrogate: Terphenyl-d14*	*94.6 %*		*30-130*

Polychlorinated Biphenyls (PCB)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0300	0.0300	1	EPA SW 846-8082A	05/22/2013 14:35	05/23/2013 14:09	JW
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0300	0.0300	1	EPA SW 846-8082A	05/22/2013 14:35	05/23/2013 14:09	JW
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0300	0.0300	1	EPA SW 846-8082A	05/22/2013 14:35	05/23/2013 14:09	JW
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0300	0.0300	1	EPA SW 846-8082A	05/22/2013 14:35	05/23/2013 14:09	JW
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0300	0.0300	1	EPA SW 846-8082A	05/22/2013 14:35	05/23/2013 14:09	JW
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0300	0.0300	1	EPA SW 846-8082A	05/22/2013 14:35	05/23/2013 14:09	JW
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0300	0.0300	1	EPA SW 846-8082A	05/22/2013 14:35	05/23/2013 14:09	JW
1336-36-3	Total PCBs	ND		mg/kg dry	0.0300	0.0300	1	EPA SW 846-8082A	05/22/2013 14:35	05/23/2013 14:09	JW

	Surrogate Recoveries	Result		Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*77.0 %*		*30-150*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*77.1 %*		*30-150*

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	**8380**		mg/kg dry	1.20	2.36	1	EPA SW846-6010B	05/22/2013 14:56	05/22/2013 23:53	MW
7440-36-0	Antimony	ND	U	mg/kg dry	0.259	0.589	1	EPA SW846-6010B	05/22/2013 14:56	05/22/2013 23:53	MW
7440-38-2	Arsenic	**3.09**		mg/kg dry	0.400	1.18	1	EPA SW846-6010B	05/22/2013 14:56	05/22/2013 23:53	MW
7440-39-3	Barium	**64.9**		mg/kg dry	0.153	0.589	1	EPA SW846-6010B	05/22/2013 14:56	05/22/2013 23:53	MW
7440-41-7	Beryllium	ND	U	mg/kg dry	0.118	0.118	1	EPA SW846-6010B	05/22/2013 14:56	05/22/2013 23:53	MW
7440-43-9	Cadmium	ND	U	mg/kg dry	0.118	0.589	1	EPA SW846-6010B	05/22/2013 14:56	05/22/2013 23:53	MW
7440-70-2	Calcium	**5190**		mg/kg dry	0.047	5.89	1	EPA SW846-6010B	05/22/2013 14:56	05/22/2013 23:53	MW

Sample Information

Client Sample ID: MW-8 (7.5-9.5) **York Sample ID:** 13E0711-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0711	170246501	Soil	May 20, 2013 2:10 pm	05/21/2013

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-47-3	Chromium	**13.6**		mg/kg dry	0.141	0.589	1	EPA SW846-6010B	05/22/2013 14:56	05/22/2013 23:53	MW
7440-48-4	Cobalt	**6.28**		mg/kg dry	0.094	0.589	1	EPA SW846-6010B	05/22/2013 14:56	05/22/2013 23:53	MW
7440-50-8	Copper	**9.68**		mg/kg dry	0.141	0.589	1	EPA SW846-6010B	05/22/2013 14:56	05/22/2013 23:53	MW
7439-89-6	Iron	**17300**		mg/kg dry	0.765	2.36	1	EPA SW846-6010B	05/22/2013 14:56	05/22/2013 23:53	MW
7439-92-1	Lead	**7.88**		mg/kg dry	0.200	0.353	1	EPA SW846-6010B	05/22/2013 14:56	05/22/2013 23:53	MW
7439-95-4	Magnesium	**3000**		mg/kg dry	0.530	5.89	1	EPA SW846-6010B	05/22/2013 14:56	05/22/2013 23:53	MW
7439-96-5	Manganese	**115**		mg/kg dry	0.130	1.18	1	EPA SW846-6010B	05/22/2013 14:56	05/22/2013 23:53	MW
7440-02-0	Nickel	**16.5**		mg/kg dry	0.153	0.589	1	EPA SW846-6010B	05/22/2013 14:56	05/22/2013 23:53	MW
7440-09-7	Potassium	**768**	B	mg/kg dry	3.98	11.8	1	EPA SW846-6010B	05/22/2013 14:56	05/22/2013 23:53	MW
7782-49-2	Selenium	**0.780**		mg/kg dry	0.589	0.589	1	EPA SW846-6010B	05/22/2013 14:56	05/22/2013 23:53	MW
7440-22-4	Silver	ND	U	mg/kg dry	0.118	0.589	1	EPA SW846-6010B	05/22/2013 14:56	05/22/2013 23:53	MW
7440-23-5	Sodium	**205**	B	mg/kg dry	6.21	11.8	1	EPA SW846-6010B	05/22/2013 14:56	05/22/2013 23:53	MW
7440-28-0	Thallium	ND	U	mg/kg dry	0.377	0.589	1	EPA SW846-6010B	05/22/2013 14:56	05/22/2013 23:53	MW
7440-62-2	Vanadium	**18.3**		mg/kg dry	0.130	0.589	1	EPA SW846-6010B	05/22/2013 14:56	05/22/2013 23:53	MW
7440-66-6	Zinc	**37.6**		mg/kg dry	0.106	0.589	1	EPA SW846-6010B	05/22/2013 14:56	05/22/2013 23:53	MW

Mercury by 7470/7471

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-7471

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND	U	mg/kg dry	0.0389	0.0389	1	EPA SW846-7471	05/22/2013 15:05	05/23/2013 09:05	AA

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	**84.9**		%	0.100	0.100	1	SM 2540G	05/22/2013 12:11	05/23/2013 09:58	AMC

Sample Information

Client Sample ID: TB-052113 **York Sample ID:** 13E0711-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0711	170246501	Water	May 21, 2013 12:00 am	05/21/2013

Volatile Organics, 8260 List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/23/2013 11:55	05/23/2013 18:08	SS
71-55-6	1,1,1-Trichloroethane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/23/2013 11:55	05/23/2013 18:08	SS

Sample Information

Client Sample ID: TB-052113 **York Sample ID:** 13E0711-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0711	170246501	Water	May 21, 2013 12:00 am	05/21/2013

Volatile Organics, 8260 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
79-34-5	1,1,2,2-Tetrachloroethane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/23/2013 11:55	05/23/2013 18:08	SS
76-13-1	,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/23/2013 11:55	05/23/2013 18:08	SS
79-00-5	1,1,2-Trichloroethane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/23/2013 11:55	05/23/2013 18:08	SS
75-34-3	1,1-Dichloroethane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/23/2013 11:55	05/23/2013 18:08	SS
75-35-4	1,1-Dichloroethylene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/23/2013 11:55	05/23/2013 18:08	SS
563-58-6	1,1-Dichloropropylene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/23/2013 11:55	05/23/2013 18:08	SS
87-61-6	1,2,3-Trichlorobenzene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/23/2013 11:55	05/23/2013 18:08	SS
96-18-4	1,2,3-Trichloropropane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/23/2013 11:55	05/23/2013 18:08	SS
120-82-1	1,2,4-Trichlorobenzene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/23/2013 11:55	05/23/2013 18:08	SS
95-63-6	1,2,4-Trimethylbenzene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/23/2013 11:55	05/23/2013 18:08	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/23/2013 11:55	05/23/2013 18:08	SS
106-93-4	1,2-Dibromoethane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/23/2013 11:55	05/23/2013 18:08	SS
95-50-1	1,2-Dichlorobenzene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/23/2013 11:55	05/23/2013 18:08	SS
107-06-2	1,2-Dichloroethane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/23/2013 11:55	05/23/2013 18:08	SS
78-87-5	1,2-Dichloropropane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/23/2013 11:55	05/23/2013 18:08	SS
108-67-8	1,3,5-Trimethylbenzene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/23/2013 11:55	05/23/2013 18:08	SS
541-73-1	1,3-Dichlorobenzene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/23/2013 11:55	05/23/2013 18:08	SS
142-28-9	1,3-Dichloropropane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/23/2013 11:55	05/23/2013 18:08	SS
106-46-7	1,4-Dichlorobenzene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/23/2013 11:55	05/23/2013 18:08	SS
594-20-7	2,2-Dichloropropane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/23/2013 11:55	05/23/2013 18:08	SS
78-93-3	2-Butanone	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/23/2013 11:55	05/23/2013 18:08	SS
95-49-8	2-Chlorotoluene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/23/2013 11:55	05/23/2013 18:08	SS
106-43-4	4-Chlorotoluene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/23/2013 11:55	05/23/2013 18:08	SS
67-64-1	Acetone	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/23/2013 11:55	05/23/2013 18:08	SS
71-43-2	Benzene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/23/2013 11:55	05/23/2013 18:08	SS
108-86-1	Bromobenzene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/23/2013 11:55	05/23/2013 18:08	SS
74-97-5	Bromochloromethane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/23/2013 11:55	05/23/2013 18:08	SS
75-27-4	Bromodichloromethane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/23/2013 11:55	05/23/2013 18:08	SS
75-25-2	Bromoform	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/23/2013 11:55	05/23/2013 18:08	SS
74-83-9	Bromomethane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/23/2013 11:55	05/23/2013 18:08	SS
56-23-5	Carbon tetrachloride	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/23/2013 11:55	05/23/2013 18:08	SS
108-90-7	Chlorobenzene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/23/2013 11:55	05/23/2013 18:08	SS

Sample Information

Client Sample ID: TB-052113 **York Sample ID:** 13E0711-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0711	170246501	Water	May 21, 2013 12:00 am	05/21/2013

Volatile Organics, 8260 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-00-3	Chloroethane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/23/2013 11:55	05/23/2013 18:08	SS
67-66-3	Chloroform	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/23/2013 11:55	05/23/2013 18:08	SS
74-87-3	Chloromethane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/23/2013 11:55	05/23/2013 18:08	SS
156-59-2	cis-1,2-Dichloroethylene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/23/2013 11:55	05/23/2013 18:08	SS
10061-01-5	cis-1,3-Dichloropropylene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/23/2013 11:55	05/23/2013 18:08	SS
124-48-1	Dibromochloromethane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/23/2013 11:55	05/23/2013 18:08	SS
74-95-3	Dibromomethane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/23/2013 11:55	05/23/2013 18:08	SS
75-71-8	Dichlorodifluoromethane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/23/2013 11:55	05/23/2013 18:08	SS
100-41-4	Ethyl Benzene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/23/2013 11:55	05/23/2013 18:08	SS
87-68-3	Hexachlorobutadiene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/23/2013 11:55	05/23/2013 18:08	SS
98-82-8	Isopropylbenzene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/23/2013 11:55	05/23/2013 18:08	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/23/2013 11:55	05/23/2013 18:08	SS
75-09-2	Methylene chloride	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/23/2013 11:55	05/23/2013 18:08	SS
91-20-3	Naphthalene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/23/2013 11:55	05/23/2013 18:08	SS
104-51-8	n-Butylbenzene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/23/2013 11:55	05/23/2013 18:08	SS
103-65-1	n-Propylbenzene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/23/2013 11:55	05/23/2013 18:08	SS
95-47-6	o-Xylene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/23/2013 11:55	05/23/2013 18:08	SS
179601-23-1	p- & m- Xylenes	ND	U	ug/L	5.0	10	1	EPA SW846-8260B	05/23/2013 11:55	05/23/2013 18:08	SS
99-87-6	p-Isopropyltoluene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/23/2013 11:55	05/23/2013 18:08	SS
135-98-8	sec-Butylbenzene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/23/2013 11:55	05/23/2013 18:08	SS
100-42-5	Styrene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/23/2013 11:55	05/23/2013 18:08	SS
98-06-6	tert-Butylbenzene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/23/2013 11:55	05/23/2013 18:08	SS
127-18-4	Tetrachloroethylene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/23/2013 11:55	05/23/2013 18:08	SS
108-88-3	Toluene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/23/2013 11:55	05/23/2013 18:08	SS
156-60-5	trans-1,2-Dichloroethylene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/23/2013 11:55	05/23/2013 18:08	SS
10061-02-6	trans-1,3-Dichloropropylene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/23/2013 11:55	05/23/2013 18:08	SS
79-01-6	Trichloroethylene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/23/2013 11:55	05/23/2013 18:08	SS
75-69-4	Trichlorofluoromethane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/23/2013 11:55	05/23/2013 18:08	SS
75-01-4	Vinyl Chloride	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/23/2013 11:55	05/23/2013 18:08	SS
1330-20-7	Xylenes, Total	ND	U	ug/L	7.5	15	1	EPA SW846-8260B	05/23/2013 11:55	05/23/2013 18:08	SS
108-05-4	Vinyl acetate	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/23/2013 11:55	05/23/2013 18:08	SS

Surrogate Recoveries	Result	Acceptance Range

Sample Information

Client Sample ID: TB-052113 **York Sample ID:** 13E0711-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0711	170246501	Water	May 21, 2013 12:00 am	05/21/2013

Volatile Organics, 8260 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*105 %*			*72.6-129*						
460-00-4	*Surrogate: p-Bromofluorobenzene*	*104 %*			*63.5-145*						
2037-26-5	*Surrogate: Toluene-d8*	*102 %*			*81.2-127*						

Analytical Batch Summary

Batch ID: BE31025 **Preparation Method:** % Solids Prep **Prepared By:** AMC

YORK Sample ID	Client Sample ID	Preparation Date
13E0711-01	MW-7 (1-5)	05/22/13
13E0711-02	MW-7 (7-9)	05/22/13
13E0711-03	MW-9 (0-2)	05/22/13
13E0711-04	MW-9 (6-8)	05/22/13
13E0711-05	MW-6 (0-2)	05/22/13
13E0711-06	MW-6 (9-11)	05/22/13
13E0711-07	MW-8 (0.5-2.5)	05/22/13
13E0711-08	MW-8 (7.5-9.5)	05/22/13

Batch ID: BE31031 **Preparation Method:** EPA 3550B **Prepared By:** DB

YORK Sample ID	Client Sample ID	Preparation Date
13E0711-01	MW-7 (1-5)	05/22/13
13E0711-02	MW-7 (7-9)	05/22/13
13E0711-03	MW-9 (0-2)	05/22/13
13E0711-04	MW-9 (6-8)	05/22/13
13E0711-05	MW-6 (0-2)	05/22/13
13E0711-06	MW-6 (9-11)	05/22/13
13E0711-07	MW-8 (0.5-2.5)	05/22/13
13E0711-08	MW-8 (7.5-9.5)	05/22/13
BE31031-BLK1	Blank	05/22/13
BE31031-BS1	LCS	05/22/13
BE31031-BSD1	LCS Dup	05/22/13
BE31031-MS1	Matrix Spike	05/22/13

Batch ID: BE31033 **Preparation Method:** EPA 3550B **Prepared By:** DB

YORK Sample ID	Client Sample ID	Preparation Date
13E0711-01	MW-7 (1-5)	05/22/13
13E0711-02	MW-7 (7-9)	05/22/13
13E0711-03	MW-9 (0-2)	05/22/13
13E0711-04	MW-9 (6-8)	05/22/13
13E0711-05	MW-6 (0-2)	05/22/13
13E0711-06	MW-6 (9-11)	05/22/13
13E0711-07	MW-8 (0.5-2.5)	05/22/13
13E0711-08	MW-8 (7.5-9.5)	05/22/13
BE31033-BLK1	Blank	05/22/13
BE31033-BLK1	Blank	05/22/13
BE31033-BS1	LCS	05/22/13
BE31033-BS2	LCS	05/22/13
BE31033-BS2	LCS	05/22/13
BE31033-BSD1	LCS Dup	05/22/13
BE31033-BSD2	LCS Dup	05/22/13
BE31033-BSD2	LCS Dup	05/22/13
BE31033-MS1	Matrix Spike	05/22/13
BE31033-MS2	Matrix Spike	05/22/13

Batch ID: BE31035 **Preparation Method:** EPA 5035A **Prepared By:** EKM

YORK Sample ID	Client Sample ID	Preparation Date
13E0711-01	MW-7 (1-5)	05/22/13
13E0711-02	MW-7 (7-9)	05/22/13
13E0711-03	MW-9 (0-2)	05/22/13
13E0711-04	MW-9 (6-8)	05/22/13
13E0711-05	MW-6 (0-2)	05/22/13
13E0711-06	MW-6 (9-11)	05/22/13
13E0711-07	MW-8 (0.5-2.5)	05/22/13
13E0711-08	MW-8 (7.5-9.5)	05/22/13
BE31035-BLK1	Blank	05/22/13
BE31035-BS1	LCS	05/22/13
BE31035-BSD1	LCS Dup	05/22/13
BE31035-MS1	Matrix Spike	05/22/13

Batch ID: BE31041 **Preparation Method:** EPA 3050B **Prepared By:** MW

YORK Sample ID	Client Sample ID	Preparation Date
13E0711-01	MW-7 (1-5)	05/22/13
13E0711-02	MW-7 (7-9)	05/22/13
13E0711-03	MW-9 (0-2)	05/22/13
13E0711-04	MW-9 (6-8)	05/22/13
13E0711-05	MW-6 (0-2)	05/22/13
13E0711-06	MW-6 (9-11)	05/22/13
13E0711-07	MW-8 (0.5-2.5)	05/22/13
13E0711-08	MW-8 (7.5-9.5)	05/22/13
BE31041-BLK1	Blank	05/22/13
BE31041-DUP1	Duplicate	05/22/13
BE31041-MS1	Matrix Spike	05/22/13
BE31041-SRM1	Reference	05/22/13

Batch ID: BE31043 **Preparation Method:** EPA SW846-7471 **Prepared By:** AA

YORK Sample ID	Client Sample ID	Preparation Date
13E0711-01	MW-7 (1-5)	05/22/13
13E0711-02	MW-7 (7-9)	05/22/13
13E0711-03	MW-9 (0-2)	05/22/13
13E0711-04	MW-9 (6-8)	05/22/13
13E0711-05	MW-6 (0-2)	05/22/13
13E0711-06	MW-6 (9-11)	05/22/13
13E0711-07	MW-8 (0.5-2.5)	05/22/13
13E0711-08	MW-8 (7.5-9.5)	05/22/13
BE31043-BLK1	Blank	05/22/13
BE31043-BS1	LCS	05/22/13
BE31043-DUP1	Duplicate	05/22/13
BE31043-MS1	Matrix Spike	05/22/13

Batch ID: BE31080 **Preparation Method:** EPA 5030B **Prepared By:** KH

YORK Sample ID	Client Sample ID	Preparation Date
13E0711-09	TB-052113	05/23/13
BE31080-BLK1	Blank	05/23/13
BE31080-BS1	LCS	05/23/13
BE31080-BSD1	LCS Dup	05/23/13

Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BE31035 - EPA 5035A											
Blank (BE31035-BLK1)											
Prepared: 05/22/2013 Analyzed: 05/23/2013											
1,1,1,2-Tetrachloroethane	ND	0.0050	mg/kg wet								
1,1,1-Trichloroethane	ND	0.0050	"								
1,1,2,2-Tetrachloroethane	ND	0.0050	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0050	"								
1,1,2-Trichloroethane	ND	0.0050	"								
1,1-Dichloroethane	ND	0.0050	"								
1,1-Dichloroethylene	ND	0.0050	"								
1,1-Dichloropropylene	ND	0.0050	"								
1,2,3-Trichlorobenzene	ND	0.0050	"								
1,2,3-Trichloropropane	ND	0.0050	"								
1,2,4-Trichlorobenzene	ND	0.0050	"								
1,2,4-Trimethylbenzene	ND	0.0050	"								
1,2-Dibromo-3-chloropropane	ND	0.0050	"								
1,2-Dibromoethane	ND	0.0050	"								
1,2-Dichlorobenzene	ND	0.0050	"								
1,2-Dichloroethane	ND	0.0050	"								
1,2-Dichloropropane	ND	0.0050	"								
1,3,5-Trimethylbenzene	ND	0.0050	"								
1,3-Dichlorobenzene	ND	0.0050	"								
1,3-Dichloropropane	ND	0.0050	"								
1,4-Dichlorobenzene	ND	0.0050	"								
1,4-Dioxane	ND	0.10	"								
2,2-Dichloropropane	ND	0.0050	"								
2-Butanone	ND	0.0050	"								
2-Chlorotoluene	ND	0.0050	"								
4-Chlorotoluene	ND	0.0050	"								
Acetone	ND	0.010	"								
Benzene	ND	0.0050	"								
Bromobenzene	ND	0.0050	"								
Bromochloromethane	ND	0.0050	"								
Bromodichloromethane	ND	0.0050	"								
Bromoform	ND	0.0050	"								
Bromomethane	ND	0.0050	"								
Carbon tetrachloride	ND	0.0050	"								
Chlorobenzene	ND	0.0050	"								
Chloroethane	ND	0.0050	"								
Chloroform	ND	0.0050	"								
Chloromethane	ND	0.0050	"								
cis-1,2-Dichloroethylene	ND	0.0050	"								
cis-1,3-Dichloropropylene	ND	0.0050	"								
Dibromochloromethane	ND	0.0050	"								
Dibromomethane	ND	0.0050	"								
Dichlorodifluoromethane	ND	0.0050	"								
Ethyl Benzene	ND	0.0050	"								
Hexachlorobutadiene	ND	0.0050	"								
Isopropylbenzene	ND	0.0050	"								
Methyl tert-butyl ether (MTBE)	ND	0.0050	"								
Methylene chloride	ND	0.010	"								
Naphthalene	0.0025	0.010	"								
n-Butylbenzene	ND	0.0050	"								
n-Propylbenzene	ND	0.0050	"								



Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BE31035 - EPA 5035A											
Blank (BE31035-BLK1)								Prepared: 05/22/2013 Analyzed: 05/23/2013			
o-Xylene	ND	0.0050	mg/kg wet								
p- & m- Xylenes	ND	0.010	"								
p-Isopropyltoluene	ND	0.0050	"								
sec-Butylbenzene	ND	0.0050	"								
Styrene	ND	0.0050	"								
tert-Butylbenzene	ND	0.0050	"								
Tetrachloroethylene	ND	0.0050	"								
Toluene	ND	0.0050	"								
trans-1,2-Dichloroethylene	ND	0.0050	"								
trans-1,3-Dichloropropylene	ND	0.0050	"								
Trichloroethylene	ND	0.0050	"								
Trichlorofluoromethane	ND	0.0050	"								
Vinyl Chloride	ND	0.0050	"								
Xylenes, Total	ND	0.015	"								
Vinyl acetate	ND	0.0050	"								
Surrogate: 1,2-Dichloroethane-d4	*57.3*		*ug/L*	*50.0*		*115*	*73-130*				
Surrogate: p-Bromofluorobenzene	*48.9*		*"*	*50.0*		*97.7*	*72-127*				
Surrogate: Toluene-d8	*51.6*		*"*	*50.0*		*103*	*84-117*				
LCS (BE31035-BS1)								Prepared: 05/22/2013 Analyzed: 05/23/2013			
1,1,1,2-Tetrachloroethane	52		ug/L	50.0		105	72-132				
1,1,1-Trichloroethane	41		"	50.0		81.4	77-131				
1,1,2,2-Tetrachloroethane	52		"	50.0		105	68-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	37		"	50.0		74.7	75-143	Low Bias			
1,1,2-Trichloroethane	52		"	50.0		105	72-128				
1,1-Dichloroethane	40		"	50.0		79.7	78-133				
1,1-Dichloroethylene	38		"	50.0		76.5	71-142				
1,1-Dichloropropylene	41		"	50.0		81.4	77-124				
1,2,3-Trichlorobenzene	50		"	50.0		99.6	65-134				
1,2,3-Trichloropropane	51		"	50.0		103	65-127				
1,2,4-Trichlorobenzene	47		"	50.0		93.7	59-133				
1,2,4-Trimethylbenzene	47		"	50.0		94.6	68-128				
1,2-Dibromo-3-chloropropane	68		"	50.0		137	58-145				
1,2-Dibromoethane	54		"	50.0		107	73-128				
1,2-Dichlorobenzene	49		"	50.0		98.4	69-126				
1,2-Dichloroethane	53		"	50.0		106	78-131				
1,2-Dichloropropane	57		"	50.0		114	72-129				
1,3,5-Trimethylbenzene	49		"	50.0		97.3	67-125				
1,3-Dichlorobenzene	48		"	50.0		95.4	67-125				
1,3-Dichloropropane	53		"	50.0		106	73-126				
1,4-Dichlorobenzene	48		"	50.0		96.4	67-127				
1,4-Dioxane	56		"	50.0		112	10-265				
2,2-Dichloropropane	36		"	50.0		72.5	68-133				
2-Butanone	47		"	50.0		93.5	49-138				
2-Chlorotoluene	47		"	50.0		93.6	61-121				
4-Chlorotoluene	49		"	50.0		97.2	65-126				
Acetone	31		"	50.0		61.1	21-131				
Benzene	45		"	50.0		90.3	81-125				
Bromobenzene	51		"	50.0		102	65-125				
Bromochloromethane	43		"	50.0		86.5	78-127				
Bromodichloromethane	57		"	50.0		114	73-131				
Bromoform	56		"	50.0		113	66-137				

Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BE31035 - EPA 5035A											
LCS (BE31035-BS1)								Prepared: 05/22/2013 Analyzed: 05/23/2013			
Bromomethane	36		ug/L	50.0		72.8	55-144				
Carbon tetrachloride	48		"	50.0		96.3	74-137				
Chlorobenzene	49		"	50.0		98.2	75-127				
Chloroethane	37		"	50.0		73.8	65-138				
Chloroform	41		"	50.0		82.3	82-128				
Chloromethane	20		"	50.0		39.7	51-138	Low Bias			
cis-1,2-Dichloroethylene	41		"	50.0		81.4	77-130				
cis-1,3-Dichloropropylene	53		"	50.0		106	68-123				
Dibromochloromethane	56		"	50.0		113	73-136				
Dibromomethane	60		"	50.0		120	75-131				
Dichlorodifluoromethane	15		"	50.0		30.3	10-183				
Ethyl Benzene	52		"	50.0		103	75-130				
Hexachlorobutadiene	48		"	50.0		95.5	59-130				
Isopropylbenzene	48		"	50.0		96.3	68-135				
Methyl tert-butyl ether (MTBE)	43		"	50.0		86.4	76-136				
Methylene chloride	39		"	50.0		77.3	55-143				
Naphthalene	54		"	50.0		109	65-140				
n-Butylbenzene	46		"	50.0		92.6	63-123				
n-Propylbenzene	48		"	50.0		95.3	65-127				
o-Xylene	49		"	50.0		97.8	71-123				
p- & m- Xylenes	100		"	100		100	72-127				
p-Isopropyltoluene	48		"	50.0		95.3	69-128				
sec-Butylbenzene	49		"	50.0		98.2	69-125				
Styrene	51		"	50.0		102	74-127				
tert-Butylbenzene	46		"	50.0		91.3	59-164				
Tetrachloroethylene	69		"	50.0		137	65-151				
Toluene	50		"	50.0		99.7	72-127				
trans-1,2-Dichloroethylene	40		"	50.0		79.2	73-137				
trans-1,3-Dichloropropylene	51		"	50.0		101	67-131				
Trichloroethylene	58		"	50.0		117	73-129				
Trichlorofluoromethane	35		"	50.0		69.2	69-136				
Vinyl Chloride	28		"	50.0		56.4	58-132	Low Bias			
Vinyl acetate	29		"	50.0		57.8	10-84				
Surrogate: 1,2-Dichloroethane-d4	*51.9*		*"*	*50.0*		*104*	*73-130*				
Surrogate: p-Bromofluorobenzene	*49.8*		*"*	*50.0*		*99.6*	*72-127*				
Surrogate: Toluene-d8	*51.6*		*"*	*50.0*		*103*	*84-117*				

Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BE31035 - EPA 5035A											
LCS Dup (BE31035-BSD1)								Prepared: 05/22/2013 Analyzed: 05/23/2013			
1,1,1,2-Tetrachloroethane	53		ug/L	50.0		107	72-132		1.74	30	
1,1,1-Trichloroethane	43		"	50.0		85.1	77-131		4.35	30	
1,1,2,2-Tetrachloroethane	52		"	50.0		105	68-129		0.363	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	41		"	50.0		81.1	75-143		8.19	30	
1,1,2-Trichloroethane	51		"	50.0		103	72-128		1.80	30	
1,1-Dichloroethane	43		"	50.0		86.3	78-133		7.93	30	
1,1-Dichloroethylene	39		"	50.0		79.0	71-142		3.16	30	
1,1-Dichloropropylene	40		"	50.0		79.3	77-124		2.61	30	
1,2,3-Trichlorobenzene	51		"	50.0		102	65-134		2.42	30	
1,2,3-Trichloropropane	53		"	50.0		106	65-127		2.80	30	
1,2,4-Trichlorobenzene	48		"	50.0		96.6	59-133		3.09	30	
1,2,4-Trimethylbenzene	47		"	50.0		94.3	68-128		0.381	30	
1,2-Dibromo-3-chloropropane	69		"	50.0		137	58-145		0.496	30	
1,2-Dibromoethane	54		"	50.0		108	73-128		0.130	30	
1,2-Dichlorobenzene	50		"	50.0		101	69-126		2.21	30	
1,2-Dichloroethane	48		"	50.0		96.2	78-131		9.60	30	
1,2-Dichloropropane	55		"	50.0		110	72-129		3.69	30	
1,3,5-Trimethylbenzene	48		"	50.0		95.8	67-125		1.55	30	
1,3-Dichlorobenzene	48		"	50.0		95.3	67-125		0.168	30	
1,3-Dichloropropane	53		"	50.0		106	73-126		0.264	30	
1,4-Dichlorobenzene	48		"	50.0		95.6	67-127		0.854	30	
1,4-Dioxane	41		"	50.0		82.8	10-265		29.6	30	
2,2-Dichloropropane	37		"	50.0		74.5	68-133		2.72	30	
2-Butanone	49		"	50.0		98.1	49-138		4.82	30	
2-Chlorotoluene	46		"	50.0		92.2	61-121		1.59	30	
4-Chlorotoluene	48		"	50.0		96.4	65-126		0.868	30	
Acetone	30		"	50.0		60.8	21-131		0.492	30	
Benzene	41		"	50.0		82.7	81-125		8.83	30	
Bromobenzene	50		"	50.0		99.4	65-125		2.09	30	
Bromochloromethane	43		"	50.0		85.6	78-127		1.07	30	
Bromodichloromethane	56		"	50.0		113	73-131		1.07	30	
Bromoform	55		"	50.0		109	66-137		3.10	30	
Bromomethane	41		"	50.0		82.8	55-144		12.8	30	
Carbon tetrachloride	44		"	50.0		87.6	74-137		9.46	30	
Chlorobenzene	50		"	50.0		99.6	75-127		1.46	30	
Chloroethane	37		"	50.0		73.0	65-138		1.06	30	
Chloroform	43		"	50.0		85.3	82-128		3.63	30	
Chloromethane	20		"	50.0		39.9	51-138	Low Bias	0.553	30	
cis-1,2-Dichloroethylene	42		"	50.0		85.0	77-130		4.28	30	
cis-1,3-Dichloropropylene	54		"	50.0		108	68-123		2.19	30	
Dibromochloromethane	58		"	50.0		115	73-136		2.09	30	
Dibromomethane	59		"	50.0		118	75-131		1.83	30	
Dichlorodifluoromethane	15		"	50.0		30.0	10-183		0.796	30	
Ethyl Benzene	52		"	50.0		104	75-130		0.658	30	
Hexachlorobutadiene	49		"	50.0		98.7	59-130		3.32	30	
Isopropylbenzene	47		"	50.0		94.0	68-135		2.33	30	
Methyl tert-butyl ether (MTBE)	46		"	50.0		91.2	76-136		5.45	30	
Methylene chloride	41		"	50.0		81.4	55-143		5.14	30	
Naphthalene	55		"	50.0		109	65-140		0.422	30	
n-Butylbenzene	46		"	50.0		92.3	63-123		0.389	30	
n-Propylbenzene	47		"	50.0		94.7	65-127		0.589	30	

Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BE31035 - EPA 5035A											
LCS Dup (BE31035-BSD1)								Prepared: 05/22/2013 Analyzed: 05/23/2013			
o-Xylene	50		ug/L	50.0		100	71-123		2.62	30	
p- & m- Xylenes	100		"	100		103	72-127		2.54	30	
p-Isopropyltoluene	47		"	50.0		94.6	69-128		0.779	30	
sec-Butylbenzene	49		"	50.0		97.3	69-125		0.900	30	
Styrene	52		"	50.0		104	74-127		1.96	30	
tert-Butylbenzene	47		"	50.0		93.8	59-164		2.66	30	
Tetrachloroethylene	58		"	50.0		116	65-151		16.6	30	
Toluene	51		"	50.0		102	72-127		1.85	30	
trans-1,2-Dichloroethylene	40		"	50.0		80.7	73-137		1.88	30	
trans-1,3-Dichloropropylene	51		"	50.0		103	67-131		1.41	30	
Trichloroethylene	56		"	50.0		112	73-129		4.20	30	
Trichlorofluoromethane	36		"	50.0		71.7	69-136		3.63	30	
Vinyl Chloride	30		"	50.0		59.1	58-132		4.68	30	
Vinyl acetate	34		"	50.0		67.5	10-84		15.4	30	
Surrogate: 1,2-Dichloroethane-d4	*45.9*		*"*	*50.0*		*91.8*	*73-130*				
Surrogate: p-Bromofluorobenzene	*48.3*		*"*	*50.0*		*96.6*	*72-127*				
Surrogate: Toluene-d8	*50.5*		*"*	*50.0*		*101*	*84-117*				
Matrix Spike (BE31035-MS1)	*Source sample: 13E0711-01 (MW-7 (1-5))							Prepared: 05/22/2013 Analyzed: 05/23/2013			
1,1,1,2-Tetrachloroethane	49		ug/L	50.0	ND	97.2	48-129				
1,1,1-Trichloroethane	57		"	50.0	ND	115	60-128				
1,1,2,2-Tetrachloroethane	23		"	50.0	ND	46.8	20-143				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	50		"	50.0	ND	101	52-129				
1,1,2-Trichloroethane	48		"	50.0	ND	95.9	53-126				
1,1-Dichloroethane	57		"	50.0	ND	114	62-129				
1,1-Dichloroethylene	51		"	50.0	ND	103	50-138				
1,1-Dichloropropylene	43		"	50.0	ND	86.8	49-120				
1,2,3-Trichlorobenzene	18		"	50.0	ND	36.3	10-120				
1,2,3-Trichloropropane	47		"	50.0	ND	93.7	42-132				
1,2,4-Trichlorobenzene	17		"	50.0	ND	34.7	10-113				
1,2,4-Trimethylbenzene	37		"	50.0	ND	73.4	10-173				
1,2-Dibromo-3-chloropropane	51		"	50.0	ND	103	16-151				
1,2-Dibromoethane	42		"	50.0	ND	83.6	37-134				
1,2-Dichlorobenzene	30		"	50.0	ND	60.6	12-121				
1,2-Dichloroethane	55		"	50.0	ND	110	53-133				
1,2-Dichloropropane	52		"	50.0	ND	105	58-126				
1,3,5-Trimethylbenzene	42		"	50.0	ND	83.0	10-155				
1,3-Dichlorobenzene	26		"	50.0	ND	52.7	12-116				
1,3-Dichloropropane	47		"	50.0	ND	94.2	50-127				
1,4-Dichlorobenzene	24		"	50.0	ND	48.3	9-118				
1,4-Dioxane	32		"	50.0	ND	63.7	10-249				
2,2-Dichloropropane	30		"	50.0	ND	60.9	47-119				
2-Butanone	46		"	50.0	ND	91.6	13-140				
2-Chlorotoluene	36		"	50.0	ND	71.7	24-115				
4-Chlorotoluene	33		"	50.0	ND	66.7	22-115				
Acetone	47		"	50.0	ND	93.8	10-130				
Benzene	46		"	50.0	ND	91.9	52-127				
Bromobenzene	35		"	50.0	ND	70.1	27-119				
Bromochloromethane	51		"	50.0	ND	103	52-129				
Bromodichloromethane	55		"	50.0	ND	111	50-132				
Bromoform	46		"	50.0	ND	91.4	31-138				
Bromomethane	47		"	50.0	18	58.5	20-141				

Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BE31035 - EPA 5035A											
Matrix Spike (BE31035-MS1)	*Source sample: 13E0711-01 (MW-7 (1-5))							Prepared: 05/22/2013 Analyzed: 05/23/2013			
Carbon tetrachloride	55		ug/L	50.0	ND	111	52-131				
Chlorobenzene	37		"	50.0	ND	74.4	36-125				
Chloroethane	44		"	50.0	ND	87.6	35-143				
Chloroform	58		"	50.0	ND	117	62-127				
Chloromethane	24		"	50.0	1.9	44.6	36-128				
cis-1,2-Dichloroethylene	49		"	50.0	ND	98.6	51-128				
cis-1,3-Dichloropropylene	38		"	50.0	ND	75.5	27-126				
Dibromochloromethane	49		"	50.0	ND	98.2	42-137				
Dibromomethane	58		"	50.0	ND	117	47-136				
Dichlorodifluoromethane	15		"	50.0	ND	30.3	10-143				
Ethyl Benzene	44		"	50.0	ND	87.6	32-131				
Hexachlorobutadiene	31		"	50.0	ND	62.7	10-109				
Isopropylbenzene	42		"	50.0	ND	84.4	21-143				
Methyl tert-butyl ether (MTBE)	51		"	50.0	ND	101	55-144				
Methylene chloride	52		"	50.0	20	63.2	17-147				
Naphthalene	17		"	50.0	1.6	31.2	10-142				
n-Butylbenzene	31		"	50.0	ND	61.3	10-116				
n-Propylbenzene	37		"	50.0	ND	73.5	70-130				
o-Xylene	42		"	50.0	ND	83.9	70-130				
p- & m- Xylenes	85		"	100	ND	84.5	70-130				
p-Isopropyltoluene	37		"	50.0	ND	73.8	70-130				
sec-Butylbenzene	40		"	50.0	ND	80.0	12-129				
Styrene	33		"	50.0	ND	66.1	13-130				
tert-Butylbenzene	38		"	50.0	ND	76.4	20-149				
Tetrachloroethylene	75		"	50.0	ND	151	26-179				
Toluene	45		"	50.0	ND	90.3	30-138				
trans-1,2-Dichloroethylene	46		"	50.0	ND	92.5	46-132				
trans-1,3-Dichloropropylene	32		"	50.0	ND	63.3	20-132				
Trichloroethylene	66		"	50.0	ND	131	31-152				
Trichlorofluoromethane	48		"	50.0	ND	95.9	50-129				
Vinyl Chloride	34		"	50.0	ND	68.0	41-124				
Vinyl acetate	1.1		"	50.0	ND	2.20	10-62	Low Bias			
Surrogate: 1,2-Dichloroethane-d4	*63.0*		*"*	*50.0*		*126*	*73-130*				
Surrogate: p-Bromofluorobenzene	*49.3*		*"*	*50.0*		*98.5*	*72-127*				
Surrogate: Toluene-d8	*51.3*		*"*	*50.0*		*103*	*84-117*				

Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BE31080 - EPA 5030B											
Blank (BE31080-BLK1)											
1,1,1,2-Tetrachloroethane	ND	5.0	ug/L								
1,1,1-Trichloroethane	ND	5.0	"								
1,1,2,2-Tetrachloroethane	ND	5.0	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	5.0	"								
1,1,2-Trichloroethane	ND	5.0	"								
1,1-Dichloroethane	ND	5.0	"								
1,1-Dichloroethylene	ND	5.0	"								
1,1-Dichloropropylene	ND	5.0	"								
1,2,3-Trichlorobenzene	ND	5.0	"								
1,2,3-Trichloropropane	ND	5.0	"								
1,2,4-Trichlorobenzene	ND	5.0	"								
1,2,4-Trimethylbenzene	ND	5.0	"								
1,2-Dibromo-3-chloropropane	ND	5.0	"								
1,2-Dibromoethane	ND	5.0	"								
1,2-Dichlorobenzene	ND	5.0	"								
1,2-Dichloroethane	ND	5.0	"								
1,2-Dichloropropane	ND	5.0	"								
1,3,5-Trimethylbenzene	ND	5.0	"								
1,3-Dichlorobenzene	ND	5.0	"								
1,3-Dichloropropane	ND	5.0	"								
1,4-Dichlorobenzene	ND	5.0	"								
2,2-Dichloropropane	ND	5.0	"								
2-Butanone	ND	5.0	"								
2-Chlorotoluene	ND	5.0	"								
4-Chlorotoluene	ND	5.0	"								
Acetone	2.6	5.0	"								
Benzene	ND	5.0	"								
Bromobenzene	ND	5.0	"								
Bromochloromethane	ND	5.0	"								
Bromodichloromethane	ND	5.0	"								
Bromoform	ND	5.0	"								
Bromomethane	ND	5.0	"								
Carbon tetrachloride	ND	5.0	"								
Chlorobenzene	ND	5.0	"								
Chloroethane	ND	5.0	"								
Chloroform	ND	5.0	"								
Chloromethane	ND	5.0	"								
cis-1,2-Dichloroethylene	ND	5.0	"								
cis-1,3-Dichloropropylene	ND	5.0	"								
Dibromochloromethane	ND	5.0	"								
Dibromomethane	ND	5.0	"								
Dichlorodifluoromethane	ND	5.0	"								
Ethyl Benzene	ND	5.0	"								
Hexachlorobutadiene	ND	5.0	"								
Isopropylbenzene	ND	5.0	"								
Methyl tert-butyl ether (MTBE)	ND	5.0	"								
Methylene chloride	ND	5.0	"								
Naphthalene	ND	5.0	"								
n-Butylbenzene	ND	5.0	"								
n-Propylbenzene	ND	5.0	"								
o-Xylene	ND	5.0	"								

Prepared & Analyzed: 05/23/2013

Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BE31080 - EPA 5030B											
Blank (BE31080-BLK1)								Prepared & Analyzed: 05/23/2013			
p- & m- Xylenes	ND	10	ug/L								
p-Isopropyltoluene	ND	5.0	"								
sec-Butylbenzene	ND	5.0	"								
Styrene	ND	5.0	"								
tert-Butylbenzene	ND	5.0	"								
Tetrachloroethylene	ND	5.0	"								
Toluene	ND	5.0	"								
trans-1,2-Dichloroethylene	ND	5.0	"								
trans-1,3-Dichloropropylene	ND	5.0	"								
Trichloroethylene	ND	5.0	"								
Trichlorofluoromethane	ND	5.0	"								
Vinyl Chloride	ND	5.0	"								
Xylenes, Total	ND	15	"								
Vinyl acetate	ND	5.0	"								
Surrogate: 1,2-Dichloroethane-d4	*55.6*		*"*	*50.0*		*111*	*72.6-129*				
Surrogate: p-Bromofluorobenzene	*50.0*		*"*	*50.0*		*100*	*63.5-145*				
Surrogate: Toluene-d8	*51.8*		*"*	*50.0*		*104*	*81.2-127*				
LCS (BE31080-BS1)								Prepared & Analyzed: 05/23/2013			
1,1,1,2-Tetrachloroethane	54		ug/L	50.0		108	82.3-130				
1,1,1-Trichloroethane	58		"	50.0		116	75.6-137				
1,1,2,2-Tetrachloroethane	52		"	50.0		104	71.3-131				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	54		"	50.0		108	71.1-129				
1,1,2-Trichloroethane	51		"	50.0		102	74.5-129				
1,1-Dichloroethane	52		"	50.0		104	79.6-132				
1,1-Dichloroethylene	53		"	50.0		107	80.2-146				
1,1-Dichloropropylene	51		"	50.0		102	75-136				
1,2,3-Trichlorobenzene	53		"	50.0		105	66.1-136				
1,2,3-Trichloropropane	52		"	50.0		104	63-131				
1,2,4-Trichlorobenzene	54		"	50.0		108	70.6-136				
1,2,4-Trimethylbenzene	50		"	50.0		101	75.3-135				
1,2-Dibromo-3-chloropropane	68		"	50.0		136	58.9-140				
1,2-Dibromoethane	53		"	50.0		106	79-130				
1,2-Dichlorobenzene	50		"	50.0		100	76.1-122				
1,2-Dichloroethane	57		"	50.0		113	74.6-132				
1,2-Dichloropropane	53		"	50.0		106	76.9-129				
1,3,5-Trimethylbenzene	53		"	50.0		105	70.6-127				
1,3-Dichlorobenzene	50		"	50.0		99.5	77-124				
1,3-Dichloropropane	52		"	50.0		105	75.8-126				
1,4-Dichlorobenzene	51		"	50.0		102	76.6-125				
2,2-Dichloropropane	57		"	50.0		114	69-133				
2-Butanone	45		"	50.0		89.2	70-130				
2-Chlorotoluene	50		"	50.0		101	66.3-119				
4-Chlorotoluene	53		"	50.0		106	69.2-127				
Acetone	38		"	50.0		76.7	70-130				
Benzene	49		"	50.0		98.8	76.2-129				
Bromobenzene	52		"	50.0		104	71.3-123				
Bromochloromethane	52		"	50.0		104	70.8-137				
Bromodichloromethane	59		"	50.0		118	79.7-134				
Bromoform	55		"	50.0		111	70.5-141				
Bromomethane	48		"	50.0		96.6	43.9-147				
Carbon tetrachloride	58		"	50.0		117	78.1-138				

Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BE31080 - EPA 5030B											
LCS (BE31080-BS1)							Prepared & Analyzed: 05/23/2013				
Chlorobenzene	52		ug/L	50.0		103	80.4-125				
Chloroethane	47		"	50.0		93.6	55.8-140				
Chloroform	55		"	50.0		109	76.6-133				
Chloromethane	29		"	50.0		58.0	48.8-115				
cis-1,2-Dichloroethylene	53		"	50.0		106	75.1-128				
cis-1,3-Dichloropropylene	56		"	50.0		111	74.5-128				
Dibromochloromethane	58		"	50.0		115	79.8-134				
Dibromomethane	56		"	50.0		113	79-130				
Dichlorodifluoromethane	38		"	50.0		77.0	47.1-101				
Ethyl Benzene	55		"	50.0		110	80.8-128				
Hexachlorobutadiene	55		"	50.0		111	64.8-128				
Isopropylbenzene	51		"	50.0		102	75.5-135				
Methyl tert-butyl ether (MTBE)	51		"	50.0		102	65.1-140				
Methylene chloride	49		"	50.0		99.0	61.3-120				
Naphthalene	50		"	50.0		99.6	62.3-148				
n-Butylbenzene	51		"	50.0		102	67.2-123				
n-Propylbenzene	51		"	50.0		101	70.5-127				
o-Xylene	53		"	50.0		106	75.9-122				
p- & m- Xylenes	110		"	100		110	77.7-127				
p-Isopropyltoluene	52		"	50.0		103	75.6-129				
sec-Butylbenzene	52		"	50.0		105	71.5-125				
Styrene	53		"	50.0		106	77.8-123				
tert-Butylbenzene	51		"	50.0		103	75.9-151				
Tetrachloroethylene	52		"	50.0		104	63.6-167				
Toluene	53		"	50.0		106	77-123				
trans-1,2-Dichloroethylene	52		"	50.0		104	76.3-139				
trans-1,3-Dichloropropylene	55		"	50.0		109	72.5-137				
Trichloroethylene	57		"	50.0		114	77.9-130				
Trichlorofluoromethane	54		"	50.0		109	57.4-133				
Vinyl Chloride	42		"	50.0		84.4	54.9-124				
Vinyl acetate	37		"	50.0		74.8	70-130				
Surrogate: 1,2-Dichloroethane-d4	*57.0*		*"*	*50.0*		*114*	*72.6-129*				
Surrogate: p-Bromofluorobenzene	*51.6*		*"*	*50.0*		*103*	*63.5-145*				
Surrogate: Toluene-d8	*51.1*		*"*	*50.0*		*102*	*81.2-127*				

Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BE31080 - EPA 5030B											
LCS Dup (BE31080-BSD1)								Prepared & Analyzed: 05/23/2013			
1,1,1,2-Tetrachloroethane	60		ug/L	50.0		119	82.3-130		9.67	21.1	
1,1,1-Trichloroethane	61		"	50.0		122	75.6-137		4.87	19.7	
1,1,2,2-Tetrachloroethane	54		"	50.0		107	71.3-131		2.44	20.8	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	55		"	50.0		109	71.1-129		1.18	21.7	
1,1,2-Trichloroethane	55		"	50.0		111	74.5-129		8.03	20.3	
1,1-Dichloroethane	54		"	50.0		108	79.6-132		3.41	20.6	
1,1-Dichloroethylene	55		"	50.0		109	80.2-146		2.27	20	
1,1-Dichloropropylene	51		"	50.0		102	75-136		0.352	19.3	
1,2,3-Trichlorobenzene	56		"	50.0		113	66.1-136		6.85	21.6	
1,2,3-Trichloropropane	54		"	50.0		107	63-131		2.89	23.9	
1,2,4-Trichlorobenzene	57		"	50.0		113	70.6-136		4.80	21.7	
1,2,4-Trimethylbenzene	55		"	50.0		111	75.3-135		9.12	18.8	
1,2-Dibromo-3-chloropropane	68		"	50.0		136	58.9-140		0.441	27.7	
1,2-Dibromoethane	56		"	50.0		112	79-130		6.05	23	
1,2-Dichlorobenzene	56		"	50.0		112	76.1-122		11.0	19.8	
1,2-Dichloroethane	57		"	50.0		114	74.6-132		1.00	20.2	
1,2-Dichloropropane	52		"	50.0		104	76.9-129		2.09	20.7	
1,3,5-Trimethylbenzene	56		"	50.0		113	70.6-127		6.62	18.9	
1,3-Dichlorobenzene	54		"	50.0		108	77-124		8.18	19.2	
1,3-Dichloropropane	56		"	50.0		111	75.8-126		6.17	22.1	
1,4-Dichlorobenzene	54		"	50.0		108	76.6-125		5.83	18.6	
2,2-Dichloropropane	58		"	50.0		115	69-133		1.15	19.8	
2-Butanone	49		"	50.0		98.9	70-130		10.4	30	
2-Chlorotoluene	55		"	50.0		110	66.3-119		8.51	21.6	
4-Chlorotoluene	57		"	50.0		114	69.2-127		7.00	19	
Acetone	30		"	50.0		60.0	70-130	Low Bias	24.4	30	
Benzene	51		"	50.0		101	76.2-129		2.38	19	
Bromobenzene	56		"	50.0		112	71.3-123		7.39	20.3	
Bromochloromethane	54		"	50.0		108	70.8-137		3.91	23.9	
Bromodichloromethane	62		"	50.0		123	79.7-134		4.18	21	
Bromoform	58		"	50.0		116	70.5-141		4.47	21.8	
Bromomethane	55		"	50.0		110	43.9-147		12.8	28.4	
Carbon tetrachloride	61		"	50.0		123	78.1-138		4.64	20.1	
Chlorobenzene	55		"	50.0		111	80.4-125		7.23	19.9	
Chloroethane	48		"	50.0		96.5	55.8-140		3.09	23.3	
Chloroform	57		"	50.0		115	76.6-133		4.98	20.3	
Chloromethane	29		"	50.0		57.9	48.8-115		0.173	24.5	
cis-1,2-Dichloroethylene	53		"	50.0		106	75.1-128		0.510	20.5	
cis-1,3-Dichloropropylene	58		"	50.0		116	74.5-128		4.65	19.9	
Dibromochloromethane	61		"	50.0		121	79.8-134		4.82	21.3	
Dibromomethane	59		"	50.0		118	79-130		4.71	22.4	
Dichlorodifluoromethane	39		"	50.0		77.6	47.1-101		0.802	23.9	
Ethyl Benzene	59		"	50.0		118	80.8-128		7.11	19.2	
Hexachlorobutadiene	61		"	50.0		121	64.8-128		9.01	20.6	
Isopropylbenzene	55		"	50.0		109	75.5-135		6.81	20	
Methyl tert-butyl ether (MTBE)	49		"	50.0		98.8	65.1-140		3.36	23.6	
Methylene chloride	48		"	50.0		95.6	61.3-120		3.43	20.4	
Naphthalene	52		"	50.0		103	62.3-148		3.45	27.1	
n-Butylbenzene	56		"	50.0		112	67.2-123		9.08	19.1	
n-Propylbenzene	55		"	50.0		110	70.5-127		8.05	23.4	
o-Xylene	58		"	50.0		115	75.9-122		8.52	19.3	

Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BE31080 - EPA 5030B											
LCS Dup (BE31080-BSD1)								Prepared & Analyzed: 05/23/2013			
p- & m- Xylenes	120		ug/L	100		118	77.7-127		7.51	18.6	
p-Isopropyltoluene	57		"	50.0		113	75.6-129		9.53	19.1	
sec-Butylbenzene	57		"	50.0		113	71.5-125		7.76	18.9	
Styrene	58		"	50.0		116	77.8-123		8.87	20.9	
tert-Butylbenzene	57		"	50.0		114	75.9-151		10.4	20.9	
Tetrachloroethylene	55		"	50.0		110	63.6-167		5.52	27.7	
Toluene	55		"	50.0		111	77-123		4.17	18.7	
trans-1,2-Dichloroethylene	52		"	50.0		104	76.3-139		0.0577	19.5	
trans-1,3-Dichloropropylene	57		"	50.0		114	72.5-137		4.29	19.3	
Trichloroethylene	55		"	50.0		110	77.9-130		4.09	20.5	
Trichlorofluoromethane	56		"	50.0		113	57.4-133		3.58	21.4	
Vinyl Chloride	40		"	50.0		80.7	54.9-124		4.46	22.3	
Vinyl acetate	38		"	50.0		75.1	70-130		0.400	30	
Surrogate: 1,2-Dichloroethane-d4	*53.3*		*"*	*50.0*		*107*	*72.6-129*				
Surrogate: p-Bromofluorobenzene	*50.3*		*"*	*50.0*		*101*	*63.5-145*				
Surrogate: Toluene-d8	*51.8*		*"*	*50.0*		*104*	*81.2-127*				



Semivolatile Organic Compounds by EPA Method 8270C - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BE31031 - EPA 3550B											
Blank (BE31031-BLK1)											
Prepared: 05/22/2013 Analyzed: 05/23/2013											
Acenaphthene	ND	0.250	mg/kg wet								
Acenaphthylene	ND	0.250	"								
Aniline	ND	0.250	"								
Anthracene	ND	0.250	"								
Benzo(a)anthracene	ND	0.250	"								
Benzo(a)pyrene	ND	0.250	"								
Benzo(b)fluoranthene	ND	0.250	"								
Benzo(g,h,i)perylene	ND	0.250	"								
Benzyl alcohol	ND	0.250	"								
Benzo(k)fluoranthene	ND	0.250	"								
Benzyl butyl phthalate	ND	0.250	"								
4-Bromophenyl phenyl ether	ND	0.250	"								
4-Chloro-3-methylphenol	ND	0.250	"								
4-Chloroaniline	ND	0.250	"								
Bis(2-chloroethoxy)methane	ND	0.250	"								
Bis(2-chloroethyl)ether	ND	0.250	"								
Bis(2-chloroisopropyl)ether	ND	0.250	"								
Bis(2-ethylhexyl)phthalate	ND	0.250	"								
2-Chloronaphthalene	ND	0.250	"								
2-Chlorophenol	ND	0.250	"								
4-Chlorophenyl phenyl ether	ND	0.250	"								
Chrysene	ND	0.250	"								
Dibenzo(a,h)anthracene	ND	0.250	"								
Dibenzofuran	ND	0.250	"								
Di-n-butyl phthalate	ND	0.250	"								
1,2-Dichlorobenzene	ND	0.250	"								
1,4-Dichlorobenzene	ND	0.250	"								
1,3-Dichlorobenzene	ND	0.250	"								
3,3'-Dichlorobenzidine	ND	0.250	"								
2,4-Dichlorophenol	ND	0.250	"								
Diethyl phthalate	ND	0.250	"								
2,4-Dimethylphenol	ND	0.250	"								
Dimethyl phthalate	ND	0.250	"								
2-Nitroaniline	ND	0.250	"								
4,6-Dinitro-2-methylphenol	ND	0.500	"								
2,4-Dinitrophenol	ND	0.500	"								
2,6-Dinitrotoluene	ND	0.250	"								
2,4-Dinitrotoluene	ND	0.250	"								
Di-n-octyl phthalate	ND	0.250	"								
Fluoranthene	ND	0.250	"								
Fluorene	ND	0.250	"								
Hexachlorobenzene	ND	0.250	"								
Hexachlorobutadiene	ND	0.250	"								
Hexachlorocyclopentadiene	ND	0.250	"								
Hexachloroethane	ND	0.250	"								
Indeno(1,2,3-cd)pyrene	ND	0.250	"								
Isophorone	ND	0.250	"								
2-Methylnaphthalene	ND	0.250	"								
2-Methylphenol	ND	0.250	"								
3- & 4-Methylphenols	ND	0.250	"								
Naphthalene	ND	0.250	"								

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BE31031 - EPA 3550B											
Blank (BE31031-BLK1)											Prepared: 05/22/2013 Analyzed: 05/23/2013
3-Nitroaniline	ND	0.250	mg/kg wet								
4-Nitroaniline	ND	0.250	"								
Nitrobenzene	ND	0.250	"								
4-Nitrophenol	ND	0.250	"								
2-Nitrophenol	ND	0.250	"								
N-nitroso-di-n-propylamine	ND	0.250	"								
N-Nitrosodimethylamine	ND	0.250	"								
N-Nitrosodiphenylamine	ND	0.250	"								
Pentachlorophenol	ND	0.250	"								
Phenanthrene	ND	0.250	"								
Phenol	ND	0.250	"								
Pyrene	ND	0.250	"								
Pyridine	ND	0.250	"								
1,2,4-Trichlorobenzene	ND	0.250	"								
2,4,5-Trichlorophenol	ND	0.250	"								
2,4,6-Trichlorophenol	ND	0.250	"								
Surrogate: 2,4,6-Tribromophenol	*2.56*		*"*	*3.75*		*68.4*	*15-110*				
Surrogate: 2-Fluorobiphenyl	*1.56*		*"*	*2.50*		*62.4*	*30-130*				
Surrogate: 2-Fluorophenol	*1.31*		*"*	*3.75*		*35.0*	*15-110*				
Surrogate: Nitrobenzene-d5	*0.606*		*"*	*2.50*		*24.3*	*30-130*				
Surrogate: Phenol-d5	*2.20*		*"*	*3.76*		*58.6*	*15-110*				
Surrogate: Terphenyl-d14	*2.37*		*"*	*2.50*		*94.8*	*30-130*				
LCS (BE31031-BS1)											Prepared: 05/22/2013 Analyzed: 05/23/2013
Acenaphthene	2.22	0.250	mg/kg wet	2.50		89.0	31.1-109				
Acenaphthylene	2.11	0.250	"	2.50		84.6	31.1-106				
Aniline	1.61	0.250	"	2.50		64.6	5.07-149				
Anthracene	2.27	0.250	"	2.50		90.9	31.5-107				
Benzo(a)anthracene	2.15	0.250	"	2.50		86.0	31.5-115				
Benzo(a)pyrene	2.58	0.250	"	2.50		103	29.1-138				
Benzo(b)fluoranthene	2.05	0.250	"	2.50		82.0	14.9-131				
Benzo(g,h,i)perylene	1.19	0.250	"	2.50		47.4	6.56-121				
Benzyl alcohol	2.05	0.250	"	2.50		82.1	25.4-119				
Benzo(k)fluoranthene	2.24	0.250	"	2.50		89.6	29.1-121				
Benzyl butyl phthalate	2.35	0.250	"	2.50		93.9	31.3-112				
4-Bromophenyl phenyl ether	2.19	0.250	"	2.50		87.8	25.2-113				
4-Chloro-3-methylphenol	2.20	0.250	"	2.50		87.9	29.5-124				
4-Chloroaniline	1.84	0.250	"	2.50		73.6	10-177				
Bis(2-chloroethoxy)methane	2.02	0.250	"	2.50		80.6	27.9-111				
Bis(2-chloroethyl)ether	1.96	0.250	"	2.50		78.6	18-122				
Bis(2-chloroisopropyl)ether	1.90	0.250	"	2.50		76.1	9.62-123				
Bis(2-ethylhexyl)phthalate	2.40	0.250	"	2.50		96.1	25-105				
2-Chloronaphthalene	2.08	0.250	"	2.50		83.2	31.7-108				
2-Chlorophenol	1.97	0.250	"	2.50		78.7	20.3-125				
4-Chlorophenyl phenyl ether	2.38	0.250	"	2.50		95.1	23.6-110				
Chrysene	2.26	0.250	"	2.50		90.4	27.4-117				
Dibenzo(a,h)anthracene	1.74	0.250	"	2.50		69.7	14.6-119				
Dibenzofuran	2.24	0.250	"	2.50		89.6	30.2-108				
Di-n-butyl phthalate	2.19	0.250	"	2.50		87.4	33.5-100				
1,2-Dichlorobenzene	1.76	0.250	"	2.50		70.3	22.8-114				
1,4-Dichlorobenzene	1.86	0.250	"	2.50		74.3	19.8-121				



Semivolatile Organic Compounds by EPA Method 8270C - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BE31031 - EPA 3550B											
LCS (BE31031-BS1)								Prepared: 05/22/2013 Analyzed: 05/23/2013			
1,3-Dichlorobenzene	1.72	0.250	mg/kg wet	2.50		68.9	20.6-119				
3,3'-Dichlorobenzidine	2.15	0.250	"	2.50		86.0	10-180				
2,4-Dichlorophenol	2.15	0.250	"	2.50		85.9	23.3-125				
Diethyl phthalate	2.28	0.250	"	2.50		91.2	29.7-111				
2,4-Dimethylphenol	2.00	0.250	"	2.50		80.0	29.8-115				
Dimethyl phthalate	2.17	0.250	"	2.50		86.8	27-118				
2-Nitroaniline	2.27	0.250	"	2.50		90.9	40-140				
4,6-Dinitro-2-methylphenol	2.15	0.500	"	2.50		86.1	10-122				
2,4-Dinitrophenol	2.01	0.500	"	2.50		80.4	10-151				
2,6-Dinitrotoluene	2.36	0.250	"	2.50		94.5	26.1-119				
2,4-Dinitrotoluene	2.34	0.250	"	2.50		93.5	21.4-126				
Di-n-octyl phthalate	2.29	0.250	"	2.50		91.4	19-129				
Fluoranthene	2.22	0.250	"	2.50		88.8	31.3-110				
Fluorene	2.36	0.250	"	2.50		94.4	29.9-108				
Hexachlorobenzene	2.13	0.250	"	2.50		85.2	31.7-102				
Hexachlorobutadiene	2.01	0.250	"	2.50		80.4	10.1-134				
Hexachlorocyclopentadiene	1.62	0.250	"	2.50		65.0	10-122				
Hexachloroethane	1.81	0.250	"	2.50		72.5	20.2-114				
Indeno(1,2,3-cd)pyrene	1.71	0.250	"	2.50		68.4	12.6-120				
Isophorone	2.00	0.250	"	2.50		79.9	27.2-113				
2-Methylnaphthalene	2.05	0.250	"	2.50		81.8	17.4-119				
2-Methylphenol	2.11	0.250	"	2.50		84.5	23.6-125				
3- & 4-Methylphenols	2.04	0.250	"	2.50		81.4	21.3-115				
Naphthalene	2.01	0.250	"	2.50		80.4	25.2-111				
3-Nitroaniline	2.16	0.250	"	2.50		86.5	9.73-147				
4-Nitroaniline	2.03	0.250	"	2.50		81.1	6.42-169				
Nitrobenzene	1.86	0.250	"	2.50		74.6	21.8-118				
4-Nitrophenol	2.37	0.250	"	2.50		94.9	10-136				
2-Nitrophenol	1.98	0.250	"	2.50		79.3	20.6-119				
N-nitroso-di-n-propylamine	2.10	0.250	"	2.50		83.9	25.3-118				
N-Nitrosodimethylamine	1.68	0.250	"	2.50		67.3	10-142				
N-Nitrosodiphenylamine	2.80	0.250	"	2.50		112	35.8-132				
Pentachlorophenol	2.30	0.250	"	2.50		92.1	3.68-146				
Phenanthrene	2.21	0.250	"	2.50		88.2	31.2-105				
Phenol	2.00	0.250	"	2.50		80.0	23.2-117				
Pyrene	2.44	0.250	"	2.50		97.7	26.3-124				
Pyridine	1.47	0.250	"	2.50		58.7	10-122				
1,2,4-Trichlorobenzene	1.99	0.250	"	2.50		79.7	19.3-128				
2,4,5-Trichlorophenol	2.18	0.250	"	2.50		87.2	19.5-131				
2,4,6-Trichlorophenol	2.11	0.250	"	2.50		84.3	24.2-123				
Surrogate: 2,4,6-Tribromophenol	*3.44*		*"*	*3.75*		*91.6*	*15-110*				
Surrogate: 2-Fluorobiphenyl	*2.02*		*"*	*2.50*		*80.5*	*30-130*				
Surrogate: 2-Fluorophenol	*2.88*		*"*	*3.75*		*76.9*	*15-110*				
Surrogate: Nitrobenzene-d5	*1.73*		*"*	*2.50*		*69.3*	*30-130*				
Surrogate: Phenol-d5	*2.98*		*"*	*3.76*		*79.3*	*15-110*				
Surrogate: Terphenyl-d14	*2.48*		*"*	*2.50*		*99.2*	*30-130*				



Semivolatile Organic Compounds by EPA Method 8270C - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BE31031 - EPA 3550B											
LCS Dup (BE31031-BSD1)								Prepared: 05/22/2013 Analyzed: 05/23/2013			
Acenaphthene	2.10	0.250	mg/kg wet	2.50		84.2	31.1-109		5.57	30	
Acenaphthylene	2.02	0.250	"	2.50		80.8	31.1-106		4.55	30	
Aniline	1.52	0.250	"	2.50		60.9	5.07-149		5.83	30	
Anthracene	2.21	0.250	"	2.50		88.6	31.5-107		2.54	30	
Benzo(a)anthracene	2.03	0.250	"	2.50		81.4	31.5-115		5.54	30	
Benzo(a)pyrene	2.27	0.250	"	2.50		90.7	29.1-138		12.9	30	
Benzo(b)fluoranthene	1.93	0.250	"	2.50		77.2	14.9-131		6.03	30	
Benzo(g,h,i)perylene	1.10	0.250	"	2.50		43.9	6.56-121		7.80	30	
Benzyl alcohol	1.93	0.250	"	2.50		77.2	25.4-119		6.20	30	
Benzo(k)fluoranthene	2.11	0.250	"	2.50		84.4	29.1-121		5.93	30	
Benzyl butyl phthalate	2.17	0.250	"	2.50		86.8	31.3-112		7.84	30	
4-Bromophenyl phenyl ether	2.12	0.250	"	2.50		84.7	25.2-113		3.60	30	
4-Chloro-3-methylphenol	2.02	0.250	"	2.50		80.9	29.5-124		8.29	30	
4-Chloroaniline	1.79	0.250	"	2.50		71.7	10-177		2.53	30	
Bis(2-chloroethoxy)methane	1.90	0.250	"	2.50		76.2	27.9-111		5.64	30	
Bis(2-chloroethyl)ether	1.83	0.250	"	2.50		73.2	18-122		7.06	30	
Bis(2-chloroisopropyl)ether	1.75	0.250	"	2.50		69.8	9.62-123		8.58	30	
Bis(2-ethylhexyl)phthalate	2.24	0.250	"	2.50		89.8	25-105		6.80	30	
2-Chloronaphthalene	2.03	0.250	"	2.50		81.2	31.7-108		2.53	30	
2-Chlorophenol	1.85	0.250	"	2.50		73.9	20.3-125		6.27	30	
4-Chlorophenyl phenyl ether	2.26	0.250	"	2.50		90.5	23.6-110		4.94	30	
Chrysene	2.11	0.250	"	2.50		84.4	27.4-117		6.93	30	
Dibenzo(a,h)anthracene	1.56	0.250	"	2.50		62.3	14.6-119		11.2	30	
Dibenzofuran	2.14	0.250	"	2.50		85.4	30.2-108		4.82	30	
Di-n-butyl phthalate	2.08	0.250	"	2.50		83.0	33.5-100		5.16	30	
1,2-Dichlorobenzene	1.66	0.250	"	2.50		66.4	22.8-114		5.65	30	
1,4-Dichlorobenzene	1.74	0.250	"	2.50		69.7	19.8-121		6.36	30	
1,3-Dichlorobenzene	1.66	0.250	"	2.50		66.3	20.6-119		3.84	30	
3,3'-Dichlorobenzidine	2.07	0.250	"	2.50		82.9	10-180		3.74	30	
2,4-Dichlorophenol	2.02	0.250	"	2.50		80.6	23.3-125		6.41	30	
Diethyl phthalate	2.07	0.250	"	2.50		82.8	29.7-111		9.67	30	
2,4-Dimethylphenol	1.82	0.250	"	2.50		72.7	29.8-115		9.58	30	
Dimethyl phthalate	2.02	0.250	"	2.50		80.8	27-118		7.14	30	
2-Nitroaniline	2.14	0.250	"	2.50		85.5	40-140		6.08	30	
4,6-Dinitro-2-methylphenol	2.02	0.500	"	2.50		80.8	10-122		6.30	30	
2,4-Dinitrophenol	1.84	0.500	"	2.50		73.5	10-151		8.94	30	
2,6-Dinitrotoluene	2.21	0.250	"	2.50		88.5	26.1-119		6.60	30	
2,4-Dinitrotoluene	2.17	0.250	"	2.50		86.9	21.4-126		7.29	30	
Di-n-octyl phthalate	2.16	0.250	"	2.50		86.3	19-129		5.72	30	
Fluoranthene	2.19	0.250	"	2.50		87.7	31.3-110		1.25	30	
Fluorene	2.23	0.250	"	2.50		89.4	29.9-108		5.42	30	
Hexachlorobenzene	2.03	0.250	"	2.50		81.2	31.7-102		4.86	30	
Hexachlorobutadiene	1.87	0.250	"	2.50		74.6	10.1-134		7.41	30	
Hexachlorocyclopentadiene	1.59	0.250	"	2.50		63.5	10-122		2.37	30	
Hexachloroethane	1.72	0.250	"	2.50		68.8	20.2-114		5.30	30	
Indeno(1,2,3-cd)pyrene	1.55	0.250	"	2.50		62.2	12.6-120		9.50	30	
Isophorone	1.86	0.250	"	2.50		74.5	27.2-113		7.04	30	
2-Methylnaphthalene	1.92	0.250	"	2.50		76.7	17.4-119		6.51	30	
2-Methylphenol	2.02	0.250	"	2.50		80.6	23.6-125		4.70	30	
3- & 4-Methylphenols	1.93	0.250	"	2.50		77.1	21.3-115		5.43	30	
Naphthalene	1.87	0.250	"	2.50		74.9	25.2-111		7.11	30	

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BE31031 - EPA 3550B											
LCS Dup (BE31031-BSD1)								Prepared: 05/22/2013 Analyzed: 05/23/2013			
3-Nitroaniline	2.13	0.250	mg/kg wet	2.50		85.2	9.73-147		1.54	30	
4-Nitroaniline	2.02	0.250	"	2.50		80.9	6.42-169		0.247	30	
Nitrobenzene	1.74	0.250	"	2.50		69.8	21.8-118		6.65	30	
4-Nitrophenol	2.18	0.250	"	2.50		87.0	10-136		8.64	30	
2-Nitrophenol	1.85	0.250	"	2.50		74.1	20.6-119		6.78	30	
N-nitroso-di-n-propylamine	1.98	0.250	"	2.50		79.3	25.3-118		5.59	30	
N-Nitrosodimethylamine	1.61	0.250	"	2.50		64.4	10-142		4.43	30	
N-Nitrosodiphenylamine	2.71	0.250	"	2.50		109	35.8-132		3.23	30	
Pentachlorophenol	2.22	0.250	"	2.50		88.8	3.68-146		3.63	30	
Phenanthrene	2.09	0.250	"	2.50		83.8	31.2-105		5.21	30	
Phenol	1.88	0.250	"	2.50		75.2	23.2-117		6.18	30	
Pyrene	2.23	0.250	"	2.50		89.0	26.3-124		9.34	30	
Pyridine	1.39	0.250	"	2.50		55.8	10-122		5.07	30	
1,2,4-Trichlorobenzene	1.85	0.250	"	2.50		73.8	19.3-128		7.64	30	
2,4,5-Trichlorophenol	2.07	0.250	"	2.50		82.9	19.5-131		5.03	30	
2,4,6-Trichlorophenol	2.07	0.250	"	2.50		82.7	24.2-123		1.92	30	
Surrogate: 2,4,6-Tribromophenol	*3.28*		*"*	*3.75*		*87.3*	*15-110*				
Surrogate: 2-Fluorobiphenyl	*1.92*		*"*	*2.50*		*76.7*	*30-130*				
Surrogate: 2-Fluorophenol	*2.73*		*"*	*3.75*		*72.7*	*15-110*				
Surrogate: Nitrobenzene-d5	*1.63*		*"*	*2.50*		*65.3*	*30-130*				
Surrogate: Phenol-d5	*2.79*		*"*	*3.76*		*74.2*	*15-110*				
Surrogate: Terphenyl-d14	*2.25*		*"*	*2.50*		*89.9*	*30-130*				
Matrix Spike (BE31031-MS1)	*Source sample: 13E0711-02 (MW-7 (7-9))							Prepared: 05/22/2013 Analyzed: 05/23/2013			
Acenaphthene	2.12	0.274	mg/kg dry	2.74	ND	77.4	31.1-109				
Acenaphthylene	1.98	0.274	"	2.74	ND	72.3	31.1-106				
Aniline	1.31	0.274	"	2.74	ND	47.7	21-140				
Anthracene	2.18	0.274	"	2.74	ND	79.7	31.5-107				
Benzo(a)anthracene	1.99	0.274	"	2.74	ND	72.5	31.5-115				
Benzo(a)pyrene	2.41	0.274	"	2.74	ND	87.8	29.1-138				
Benzo(b)fluoranthene	1.96	0.274	"	2.74	ND	71.4	14.9-131				
Benzo(g,h,i)perylene	1.62	0.274	"	2.74	ND	59.0	6.56-121				
Benzyl alcohol	1.88	0.274	"	2.74	ND	68.5	25.4-119				
Benzo(k)fluoranthene	2.02	0.274	"	2.74	ND	73.8	29.1-121				
Benzyl butyl phthalate	2.27	0.274	"	2.74	ND	82.9	31.3-112				
4-Bromophenyl phenyl ether	2.12	0.274	"	2.74	ND	77.3	25.2-113				
4-Chloro-3-methylphenol	2.02	0.274	"	2.74	ND	73.7	29.5-124				
4-Chloroaniline	1.89	0.274	"	2.74	ND	68.9	10-177				
Bis(2-chloroethoxy)methane	1.74	0.274	"	2.74	ND	63.3	27.9-111				
Bis(2-chloroethyl)ether	1.53	0.274	"	2.74	ND	56.0	18-122				
Bis(2-chloroisopropyl)ether	1.39	0.274	"	2.74	ND	50.6	9.62-123				
Bis(2-ethylhexyl)phthalate	2.38	0.274	"	2.74	ND	86.8	25-105				
2-Chloronaphthalene	1.94	0.274	"	2.74	ND	70.7	31.7-108				
2-Chlorophenol	1.61	0.274	"	2.74	ND	58.8	20.3-125				
4-Chlorophenyl phenyl ether	2.22	0.274	"	2.74	ND	80.9	23.6-110				
Chrysene	2.22	0.274	"	2.74	ND	80.8	27.4-117				
Dibenzo(a,h)anthracene	2.05	0.274	"	2.74	ND	74.9	14.6-119				
Dibenzofuran	2.16	0.274	"	2.74	ND	78.7	30.2-108				
Di-n-butyl phthalate	2.09	0.274	"	2.74	ND	76.3	33.5-100				
1,2-Dichlorobenzene	1.28	0.274	"	2.74	ND	46.7	22.8-114				
1,4-Dichlorobenzene	1.34	0.274	"	2.74	ND	49.0	19.8-121				

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BE31031 - EPA 3550B											
Matrix Spike (BE31031-MS1)	*Source sample: 13E0711-02 (MW-7 (7-9))							Prepared: 05/22/2013 Analyzed: 05/23/2013			
1,3-Dichlorobenzene	1.22	0.274	mg/kg dry	2.74	ND	44.5	20.6-119				
3,3'-Dichlorobenzidine	1.58	0.274	"	2.74	ND	57.6	10-180				
2,4-Dichlorophenol	1.95	0.274	"	2.74	ND	71.2	23.3-125				
Diethyl phthalate	2.05	0.274	"	2.74	ND	74.9	29.7-111				
2,4-Dimethylphenol	1.23	0.274	"	2.74	ND	44.8	29.8-115				
Dimethyl phthalate	1.98	0.274	"	2.74	ND	72.2	27-118				
2-Nitroaniline	2.16	0.274	"	2.74	ND	78.8	40-140				
4,6-Dinitro-2-methylphenol	1.87	0.548	"	2.74	ND	68.2	10-122				
2,4-Dinitrophenol	1.58	0.548	"	2.74	ND	57.5	10-151				
2,6-Dinitrotoluene	2.19	0.274	"	2.74	ND	79.8	26.1-119				
2,4-Dinitrotoluene	2.17	0.274	"	2.74	ND	79.1	21.4-126				
Di-n-octyl phthalate	2.14	0.274	"	2.74	ND	78.0	19-129				
Fluoranthene	2.13	0.274	"	2.74	ND	77.6	31.3-110				
Fluorene	2.24	0.274	"	2.74	ND	81.8	29.9-108				
Hexachlorobenzene	2.10	0.274	"	2.74	ND	76.5	31.7-102				
Hexachlorobutadiene	1.38	0.274	"	2.74	ND	50.5	10.1-134				
Hexachlorocyclopentadiene	1.13	0.274	"	2.74	ND	41.1	10-122				
Hexachloroethane	1.28	0.274	"	2.74	ND	46.7	20.2-114				
Indeno(1,2,3-cd)pyrene	1.99	0.274	"	2.74	ND	72.4	12.6-120				
Isophorone	1.75	0.274	"	2.74	ND	63.7	27.2-113				
2-Methylnaphthalene	1.80	0.274	"	2.74	ND	65.8	17.4-119				
2-Methylphenol	1.68	0.274	"	2.74	ND	61.4	23.6-125				
3- & 4-Methylphenols	1.71	0.274	"	2.74	ND	62.2	21.3-115				
Naphthalene	1.63	0.274	"	2.74	ND	59.3	25.2-111				
3-Nitroaniline	2.27	0.274	"	2.74	ND	82.8	9.73-147				
4-Nitroaniline	2.35	0.274	"	2.74	ND	85.8	6.42-169				
Nitrobenzene	1.52	0.274	"	2.74	ND	55.4	21.8-118				
4-Nitrophenol	2.29	0.274	"	2.74	ND	83.6	10-136				
2-Nitrophenol	1.62	0.274	"	2.74	ND	59.1	20.6-119				
N-nitroso-di-n-propylamine	1.81	0.274	"	2.74	ND	65.8	25.3-118				
N-Nitrosodimethylamine	1.36	0.274	"	2.74	ND	49.7	21-140				
N-Nitrosodiphenylamine	2.13	0.274	"	2.74	ND	77.7	35.8-132				
Pentachlorophenol	2.17	0.274	"	2.74	ND	79.2	3.68-146				
Phenanthrene	2.15	0.274	"	2.74	ND	78.5	31.2-105				
Phenol	1.72	0.274	"	2.74	ND	62.6	23.2-117				
Pyrene	2.50	0.274	"	2.74	ND	91.1	26.3-124				
Pyridine	1.10	0.274	"	2.74	ND	40.2	21-140				
1,2,4-Trichlorobenzene	1.52	0.274	"	2.74	ND	55.5	19.3-128				
2,4,5-Trichlorophenol	2.05	0.274	"	2.74	ND	74.9	19.5-131				
2,4,6-Trichlorophenol	1.95	0.274	"	2.74	ND	70.9	24.2-123				
Surrogate: 2,4,6-Tribromophenol	*3.05*		*"*	*4.11*		*74.3*	*15-110*				
Surrogate: 2-Fluorobiphenyl	*1.68*		*"*	*2.75*		*61.1*	*30-130*				
Surrogate: 2-Fluorophenol	*1.90*		*"*	*4.11*		*46.2*	*15-110*				
Surrogate: Nitrobenzene-d5	*1.04*		*"*	*2.74*		*37.8*	*30-130*				
Surrogate: Phenol-d5	*2.37*		*"*	*4.12*		*57.4*	*15-110*				
Surrogate: Terphenyl-d14	*2.50*		*"*	*2.74*		*91.1*	*30-130*				

Organochlorine Pesticides by EPA SW 846-8081 - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BE31033 - EPA 3550B											
Blank (BE31033-BLK1)											
Prepared: 05/22/2013 Analyzed: 05/23/2013											
Toxaphene	ND	0.0250	mg/kg wet								
Methoxychlor	ND	0.00248	"								
Heptachlor epoxide	ND	0.000495	"								
Heptachlor	ND	0.000495	"								
gamma-BHC (Lindane)	ND	0.000495	"								
Endrin ketone	ND	0.000495	"								
Endrin aldehyde	ND	0.000495	"								
Endrin	ND	0.000495	"								
Endosulfan sulfate	ND	0.000495	"								
Endosulfan II	ND	0.000495	"								
Endosulfan I	ND	0.000495	"								
Dieldrin	ND	0.000495	"								
delta-BHC	ND	0.000495	"								
Chlordane, total	ND	0.00198	"								
beta-BHC	ND	0.000495	"								
alpha-BHC	ND	0.000495	"								
Aldrin	ND	0.000495	"								
4,4'-DDT	ND	0.000495	"								
4,4'-DDE	ND	0.000495	"								
4,4'-DDD	ND	0.000495	"								
Aroclor 1260	ND	0.0255	"								
Aroclor 1254	ND	0.0255	"								
Aroclor 1248	ND	0.0255	"								
Aroclor 1242	ND	0.0255	"								
Aroclor 1232	ND	0.0255	"								
Aroclor 1221	ND	0.0255	"								
Aroclor 1016	ND	0.0255	"								
Total PCBs	ND	0.0255	"								
Surrogate: Tetrachloro-m-xylene	*0.0801*		"	*0.100*		*80.1*	*30-150*				
Surrogate: Decachlorobiphenyl	*0.0739*		"	*0.100*		*73.5*	*30-150*				



Organochlorine Pesticides by EPA SW 846-8081 - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BE31033 - EPA 3550B											
LCS (BE31033-BS1)								Prepared: 05/22/2013 Analyzed: 05/23/2013			
Methoxychlor	0.0353	0.00248	mg/kg wet	0.0500		70.6	40-140				
Heptachlor epoxide	0.0378	0.000495	"	0.0500		75.6	40-140				
Heptachlor	0.0301	0.000495	"	0.0500		60.2	40-140				
gamma-BHC (Lindane)	0.0391	0.000495	"	0.0500		78.2	40-140				
Endrin ketone	0.0348	0.000495	"	0.0500		69.6	40-140				
Endrin aldehyde	0.0361	0.000495	"	0.0500		72.3	40-140				
Endrin	0.0350	0.000495	"	0.0500		70.0	40-140				
Endosulfan sulfate	0.0267	0.000495	"	0.0500		53.4	40-140				
Endosulfan II	0.0304	0.000495	"	0.0500		60.8	40-140				
Endosulfan I	0.0376	0.000495	"	0.0500		75.3	40-140				
Dieldrin	0.0390	0.000495	"	0.0500		77.9	40-140				
delta-BHC	0.0364	0.000495	"	0.0500		72.8	40-140				
beta-BHC	0.0384	0.000495	"	0.0500		76.8	40-140				
alpha-BHC	0.0402	0.000495	"	0.0500		80.3	40-140				
Aldrin	0.0404	0.000495	"	0.0500		80.9	40-140				
4,4'-DDT	0.0438	0.000495	"	0.0500		87.6	40-140				
4,4'-DDE	0.0394	0.000495	"	0.0500		78.8	40-140				
4,4'-DDD	0.0400	0.000495	"	0.0500		80.1	40-140				
Surrogate: Tetrachloro-m-xylene	*0.0807*		*"*	*0.100*		*80.7*	*30-150*				
Surrogate: Decachlorobiphenyl	*0.0755*		*"*	*0.100*		*75.2*	*30-150*				
LCS (BE31033-BS2)								Prepared: 05/22/2013 Analyzed: 05/23/2013			
Aroclor 1260	0.359	0.0255	mg/kg wet	0.500		71.7	40-140				
Aroclor 1016	0.393	0.0255	"	0.500		78.6	40-140				
Surrogate: Tetrachloro-m-xylene	*0.0735*		*"*	*0.100*		*73.5*	*30-150*				
Surrogate: Decachlorobiphenyl	*0.0640*		*"*	*0.100*		*63.7*	*30-150*				
LCS Dup (BE31033-BSD1)								Prepared: 05/22/2013 Analyzed: 05/23/2013			
Methoxychlor	0.0347	0.00248	mg/kg wet	0.0500		69.4	40-140		1.79	200	
Heptachlor epoxide	0.0392	0.000495	"	0.0500		78.4	40-140		3.65	200	
Heptachlor	0.0324	0.000495	"	0.0500		64.7	40-140		7.21	200	
gamma-BHC (Lindane)	0.0403	0.000495	"	0.0500		80.5	40-140		2.90	200	
Endrin ketone	0.0361	0.000495	"	0.0500		72.2	40-140		3.71	200	
Endrin aldehyde	0.0382	0.000495	"	0.0500		76.3	40-140		5.44	200	
Endrin	0.0359	0.000495	"	0.0500		71.8	40-140		2.44	200	
Endosulfan sulfate	0.0281	0.000495	"	0.0500		56.2	40-140		5.07	200	
Endosulfan II	0.0330	0.000495	"	0.0500		66.0	40-140		8.17	200	
Endosulfan I	0.0397	0.000495	"	0.0500		79.3	40-140		5.21	200	
Dieldrin	0.0409	0.000495	"	0.0500		81.8	40-140		4.83	200	
delta-BHC	0.0373	0.000495	"	0.0500		74.7	40-140		2.60	200	
beta-BHC	0.0398	0.000495	"	0.0500		79.5	40-140		3.42	200	
alpha-BHC	0.0411	0.000495	"	0.0500		82.3	40-140		2.36	200	
Aldrin	0.0405	0.000495	"	0.0500		81.0	40-140		0.151	200	
4,4'-DDT	0.0446	0.000495	"	0.0500		89.2	40-140		1.75	200	
4,4'-DDE	0.0395	0.000495	"	0.0500		79.0	40-140		0.255	200	
4,4'-DDD	0.0403	0.000495	"	0.0500		80.5	40-140		0.578	200	
Surrogate: Tetrachloro-m-xylene	*0.0846*		*"*	*0.100*		*84.6*	*30-150*				
Surrogate: Decachlorobiphenyl	*0.0750*		*"*	*0.100*		*74.7*	*30-150*				

Organochlorine Pesticides by EPA SW 846-8081 - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BE31033 - EPA 3550B											
LCS Dup (BE31033-BSD2)									Prepared: 05/22/2013 Analyzed: 05/23/2013		
Aroclor 1260	0.340	0.0255	mg/kg wet	0.500		68.1	40-140		5.24	25	
Aroclor 1016	0.377	0.0255	"	0.500		75.5	40-140		4.05	25	
Surrogate: Tetrachloro-m-xylene	*0.0700*		*"*	*0.100*		*70.0*	*30-150*				
Surrogate: Decachlorobiphenyl	*0.0600*		*"*	*0.100*		*59.7*	*30-150*				
Matrix Spike (BE31033-MS1)	*Source sample: 13E0711-03 (MW-9 (0-2))								Prepared: 05/22/2013 Analyzed: 05/23/2013		
Methoxychlor	0.0450	0.0137	mg/kg dry	0.0552	ND	81.6	30-150				
Heptachlor epoxide	0.0462	0.00273	"	0.0552	ND	83.7	30-150				
Heptachlor	0.0494	0.00273	"	0.0552	ND	89.5	30-150				
gamma-BHC (Lindane)	0.0470	0.00273	"	0.0552	ND	85.2	30-150				
Endrin ketone	0.0428	0.00273	"	0.0552	ND	77.6	30-150				
Endrin aldehyde	0.0402	0.00273	"	0.0552	ND	72.9	30-150				
Endrin	0.0506	0.00273	"	0.0552	ND	91.7	30-150				
Endosulfan sulfate	0.0382	0.00273	"	0.0552	ND	69.3	30-150				
Endosulfan II	0.0398	0.00273	"	0.0552	ND	72.1	30-150				
Endosulfan I	0.0400	0.00273	"	0.0552	ND	72.6	30-150				
Dieldrin	0.0449	0.00273	"	0.0552	ND	81.3	30-150				
delta-BHC	0.0414	0.00273	"	0.0552	ND	75.0	30-150				
beta-BHC	0.0364	0.00273	"	0.0552	ND	66.1	30-150				
alpha-BHC	0.0446	0.00273	"	0.0552	ND	80.8	30-150				
Aldrin	0.0463	0.00273	"	0.0552	ND	84.0	30-150				
4,4'-DDT	0.0463	0.00273	"	0.0552	ND	83.9	30-150				
4,4'-DDE	0.0360	0.00273	"	0.0552	ND	65.2	30-150				
4,4'-DDD	0.0458	0.00273	"	0.0552	ND	82.9	30-150				
Surrogate: Tetrachloro-m-xylene	*0.106*		*"*	*0.110*		*96.5*	*30-150*				
Surrogate: Decachlorobiphenyl	*0.0874*		*"*	*0.111*		*78.8*	*30-150*				

Polychlorinated Biphenyls (PCB) by EPA SW 846-8082/EPA Compendium Methods - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BE31033 - EPA 3550B											
Blank (BE31033-BLK1)									Prepared: 05/22/2013 Analyzed: 05/23/2013		
Aroclor 1016	ND	0.0255	mg/kg wet								
Aroclor 1221	ND	0.0255	"								
Aroclor 1232	ND	0.0255	"								
Aroclor 1242	ND	0.0255	"								
Aroclor 1248	ND	0.0255	"								
Aroclor 1254	ND	0.0255	"								
Aroclor 1260	ND	0.0255	"								
Total PCBs	ND	0.0255	"								
Surrogate: Tetrachloro-m-xylene	*0.0865*		*"*	*0.100*		*86.5*	*30-150*				
Surrogate: Decachlorobiphenyl	*0.0690*		*"*	*0.100*		*68.7*	*30-150*				
LCS (BE31033-BS2)									Prepared: 05/22/2013 Analyzed: 05/23/2013		
Aroclor 1016	0.393	0.0255	mg/kg wet	0.500		78.6	40-140				
Aroclor 1260	0.359	0.0255	"	0.500		71.7	40-140				
Surrogate: Tetrachloro-m-xylene	*0.0735*		*"*	*0.100*		*73.5*	*30-150*				
Surrogate: Decachlorobiphenyl	*0.0640*		*"*	*0.100*		*63.7*	*30-150*				
LCS Dup (BE31033-BSD2)									Prepared: 05/22/2013 Analyzed: 05/23/2013		
Aroclor 1016	0.377	0.0255	mg/kg wet	0.500		75.5	40-140		4.05	25	
Aroclor 1260	0.340	0.0255	"	0.500		68.1	40-140		5.24	25	
Surrogate: Tetrachloro-m-xylene	*0.0700*		*"*	*0.100*		*70.0*	*30-150*				
Surrogate: Decachlorobiphenyl	*0.0600*		*"*	*0.100*		*59.7*	*30-150*				
Matrix Spike (BE31033-MS2)	*Source sample: 13E0711-02 (MW-7 (7-9))								Prepared: 05/22/2013 Analyzed: 05/23/2013		
Aroclor 1016	0.362	0.0280	mg/kg dry	0.548	ND	66.0	40-140				
Aroclor 1260	0.295	0.0280	"	0.548	ND	53.7	40-140				
Surrogate: Tetrachloro-m-xylene	*0.0669*		*"*	*0.110*		*61.0*	*30-150*				
Surrogate: Decachlorobiphenyl	*0.0521*		*"*	*0.110*		*47.3*	*30-150*				

Metals by EPA 6000 Series Methods - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BE31041 - EPA 3050B											
Blank (BE31041-BLK1)									Prepared & Analyzed: 05/22/2013		
Aluminum	ND	2.00	mg/kg wet								
Antimony	ND	0.500	"								
Arsenic	ND	1.00	"								
Barium	ND	0.500	"								
Beryllium	ND	0.100	"								
Cadmium	ND	0.500	"								
Calcium	ND	5.00	"								
Chromium	ND	0.500	"								
Cobalt	ND	0.500	"								
Copper	ND	0.500	"								
Iron	ND	2.00	"								
Lead	ND	0.300	"								
Magnesium	ND	5.00	"								
Manganese	ND	1.00	"								
Nickel	ND	0.500	"								
Potassium	19.2	10.0	"								
Selenium	ND	0.500	"								
Silver	ND	0.500	"								
Sodium	159	10.0	"								
Thallium	ND	0.500	"								
Vanadium	ND	0.500	"								
Zinc	ND	0.500	"								
Duplicate (BE31041-DUP1)	*Source sample: 13E0711-02 (MW-7 (7-9))								Prepared & Analyzed: 05/22/2013		
Aluminum	9910	2.19	mg/kg dry		9940				0.314	35	
Antimony	ND	0.548	"		ND					35	
Arsenic	2.67	1.10	"		2.65				0.816	35	
Barium	144	0.548	"		143				0.942	35	
Beryllium	ND	0.110	"		ND					35	
Cadmium	ND	0.548	"		ND					35	
Calcium	2990	5.48	"		2980				0.351	35	
Chromium	17.1	0.548	"		17.0				0.670	35	
Cobalt	9.13	0.548	"		9.04				1.06	35	
Copper	13.1	0.548	"		12.9				1.02	35	
Iron	16900	2.19	"		16900				0.0446	35	
Lead	9.52	0.329	"		9.87				3.58	35	
Magnesium	5380	5.48	"		5410				0.639	35	
Manganese	219	1.10	"		215				1.52	35	
Nickel	15.8	0.548	"		15.8				0.124	35	
Potassium	3810	11.0	"		3820				0.279	35	
Selenium	ND	0.548	"		ND					35	
Silver	ND	0.548	"		ND					35	
Sodium	186	11.0	"		188				0.886	35	
Thallium	ND	0.548	"		ND					35	
Vanadium	36.9	0.548	"		36.6				0.604	35	
Zinc	48.9	0.548	"		49.3				0.768	35	

Metals by EPA 6000 Series Methods - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BE31041 - EPA 3050B											
Matrix Spike (BE31041-MS1)	*Source sample: 13E0711-02 (MW-7 (7-9))							Prepared & Analyzed: 05/22/2013			
Aluminum	10100	2.19	mg/kg dry	219	9940	69.9	75-125	Low Bias			
Antimony	30.0	0.548	"	27.4	ND	109	75-125				
Arsenic	231	1.10	"	219	2.65	104	75-125				
Barium	366	0.548	"	219	143	102	75-125				
Beryllium	0.769	0.110	"	5.48	ND	14.0	75-125	Low Bias			
Cadmium	5.57	0.548	"	5.48	ND	101	75-125				
Chromium	41.0	0.548	"	21.9	17.0	109	75-125				
Cobalt	66.5	0.548	"	54.8	9.04	105	75-125				
Copper	41.7	0.548	"	27.4	12.9	105	75-125				
Iron	17200	2.19	"	110	16900	302	75-125	High Bias			
Lead	64.8	0.329	"	54.8	9.87	100	75-125				
Magnesium	5430	5.48	"		5410		75-125				
Manganese	270	1.10	"	54.8	215	99.3	75-125				
Nickel	73.8	0.548	"	54.8	15.8	106	75-125				
Potassium	3760	11.0	"		3820		75-125				
Silver	ND	0.548	"	5.48	ND		75-125	Low Bias			
Sodium	181	11.0	"		188		75-125				
Thallium	214	0.548	"	219	ND	97.7	75-125				
Vanadium	89.3	0.548	"	54.8	36.6	96.0	75-125				
Zinc	106	0.548	"	54.8	49.3	104	75-125				
Reference (BE31041-SRM1)								Prepared & Analyzed: 05/22/2013			
Aluminum	8730	2.00	mg/kg wet	8360		104	40.4-159				
Antimony	102	0.500	"	92.9		110	24.8-272				
Arsenic	97.4	1.00	"	94.5		103	69.2-131				
Barium	163	0.500	"	166		98.4	72.9-127				
Beryllium	53.7	0.100	"	52.6		102	73-127				
Cadmium	58.7	0.500	"	59.9		98.0	73.1-127				
Calcium	5860	5.00	"	6160		95.1	73.9-126				
Chromium	69.5	0.500	"	69.3		100	68.4-132				
Cobalt	106	0.500	"	101		104	74.2-125				
Copper	83.2	0.500	"	78.0		107	73.6-126				
Iron	13100	2.00	"	12800		102	31.8-168				
Lead	89.3	0.300	"	91.7		97.4	70.2-130				
Magnesium	3000	5.00	"	3030		98.9	66-134				
Manganese	283	1.00	"	283		99.9	73.9-125				
Nickel	64.4	0.500	"	56.6		114	70-130				
Potassium	3830	10.0	"	3820		100	64.7-136				
Selenium	164	0.500	"	159		103	67.9-133				
Silver	33.1	0.500	"	33.9		97.8	65.5-135				
Sodium	852	10.0	"	652		131	55.1-145				
Thallium	114	0.500	"	119		96.1	67.6-133				
Vanadium	55.9	0.500	"	56.3		99.3	53.3-147				
Zinc	138	0.500	"	137		101	67.4-133				

Mercury by EPA 7000/200 Series Methods - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BE31043 - EPA SW846-7471											
Blank (BE31043-BLK1)									Prepared: 05/22/2013 Analyzed: 05/23/2013		
Mercury	ND	0.0330	mg/kg wet								
LCS (BE31043-BS1)									Prepared: 05/22/2013 Analyzed: 05/23/2013		
Mercury	3.01		mg/kg	3.73		80.7	67.6-131				
Duplicate (BE31043-DUP1)	*Source sample: 13E0711-01 (MW-7 (1-5))								Prepared: 05/22/2013 Analyzed: 05/23/2013		
Mercury	ND	0.0362	mg/kg dry		ND					35	
Matrix Spike (BE31043-MS1)	*Source sample: 13E0711-01 (MW-7 (1-5))								Prepared: 05/22/2013 Analyzed: 05/23/2013		
Mercury	0.320		mg/kg	0.333	ND	96.1	75-125				

Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
13E0711-01	MW-7 (1-5)	Encore Sampler
13E0711-02	MW-7 (7-9)	Encore Sampler
13E0711-03	MW-9 (0-2)	Encore Sampler
13E0711-04	MW-9 (6-8)	Encore Sampler
13E0711-05	MW-6 (0-2)	Encore Sampler
13E0711-06	MW-6 (9-11)	Encore Sampler
13E0711-07	MW-8 (0.5-2.5)	Encore Sampler
13E0711-08	MW-8 (7.5-9.5)	Encore Sampler
13E0711-09	TB-052113	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C

Notes and Definitions

U	Analyte included in the analysis, but not detected
S-BN	Base/Neutral surrogate recovery outside of control limits. The data was accepted based on valid recovery of remaining two base/neutral surrogates.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
QL-02	This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
J	Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL); therefore, the result is an estimated concentration.
E	The concentration indicated for this analyte is an estimated value above the calibration range of the instrument. This value is considered an estimate.
D	The result reported is from a dilution of the sample due to levels of target compounds found
B	Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants. Data users should consider anything <10x the blank value as artifact.

ND	Analyte NOT DETECTED at the stated Reporting Limit (RL) or above.
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
MDL	METHOD DETECTION LIMIT - the minimum concentration that can be measured and reported with a 99% confidence that the concentration is greater than zero. If requested or required, a value reported below the RL and above the MDL is considered estimated and is noted with a "J" flag.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.

High Bias — High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.

Non-Dir. — Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two.
For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the MDL, with values between the MDL and the RL being "J" flagged as estimated results.

YORK ANALYTICAL LABORATORIES
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(203) 325-1371
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Field Chain-of-Custody Record

NOTE: York's Std. Terms & Conditions are listed on the back side of this document. This document serves as your written authorization to York to proceed with the analyses requested and your signature binds you to York's Std. Terms & Conditions.

York Project No. 13E0711

YOUR Information

Company: Langan Engineering
Address: 360 W 31st St 8th Fl NY, NY 10001
Phone No. (212)479-5400
Contact Person: Brandon Nathe
E-Mail Address: BNathe@langan.com

Report To:

Company: SAME
Address:
Phone No.
Attention: Paul McMahon
E-Mail Address: PMcMahon@langan.com

Invoice To:

Company: SAME
Address:
Phone No.
Attention:
E-Mail Address:

YOUR Project ID

170246501

Purchase Order No.

Samples from: CT ___ NY ✓ NJ ___

Turn-Around Time

- RUSH - Same Day ☐
- RUSH - Next Day ☐
- RUSH - Two Day ☐
- RUSH - Three Day ☐
- RUSH - Four Day ✓
- Standard(5-7 Days) ☐

Report Type

- Summary Report X
- Summary w/ QA Summary
- CT RCP Package
- CTRCP DQA/DUE Pkg
- NY ASP A Package
- NY ASP B Package X
- NJDEP Red. Deliv.

Electronic Data Deliverables (EDD)

- Simple Excel
- NYSDEC EQuIS X
- EQuIS (std)
- EZ-EDD (EQuIS)
- NJDEP SRP HazSite EDD
- GIS/KEY (std)
- Other

York Regulatory Comparison Excel Spreadsheet X
Compare to the following Regs. (please fill in): Part 375 Unrestricted

Print Clearly and Legibly. All Information must be complete. Samples will NOT be logged in and the turn-around time clock will not begin until any questions by York are resolved.

Samples Collected/Authorized By (Signature)

Paul McMahon
Name (printed)

Matrix Codes
S - soil
Other - specify(oil, etc.)
WW - wastewater
GW - groundwater
DW - drinking water
Air-A - ambient air
Air-SV - soil vapor

Volatiles		Semi-Vols.	Pest/PCB/Herb	Metals	Misc. Org.	Full Lists	Misc.
8260 full	TICs	8270 or 625	8082PCB	RCRA8	TPH GRO	Pri.Poll.	Corrosivity
624	Site Spec.	STARS list	8081Pest	PP13 list	TPH DRO	TCL Organics	Reactivity
STARS list	Nassau Co.	BN Only	8151Herb	TAL	CT ETPH	TAL Met/CN	Ignitability
BTEX	Suffolk Co.	Acids Only	CT RCP	CT15 list	NY 310-13	Full TCLP	Flash Point
MTBE	Ketones	PAH list	App. IX	TAGM list	TPH 1664	Full App. IX	Sieve Anal.
TCL list	Oxygenates	TAGM list	Site Spec.	NJDEP list	Air TO14A	Part 360-Routine	Heterotrophs
TAGM list	TCLP list	CT RCP list	SPLP or TCLP	Total	Air TO15	Part 360-Baseline	TOX
CT RCP list	524.2	TCL list	TCLP Pest	Dissolved	Air STARS	Part 360-Expanded No Dioxins/Furans	BTU/lb.
Arom. only	502.2	NJDEP list	TCLP Herb	SPLP or TCLP	Air VPH	Part 360-Expanded Full List	Aquatic Tox.
Halog.only	NJDEP list	App. IX	Chlordane	Indiv. Metals	Air TICs	NYCDEP Sewer	TOC
App.IX list	SPLP or TCLP	TCLP BNA	608 Pest	LIST Below	Methane	NYSDEC Sewer	Asbestos
8021B list		SPLP or TCLP	608 PCB		Helium	TAGM	Silica

Sample Identification	Date/Time Sampled	Sample Matrix	Choose Analyses Needed from the Menu Above and Enter Below	Container Description(s)
MW-7 (1-5)	5/20/13 13:25	S	VOC/SVOC/Metals/PCB/Pest (see circled)	1oz, 3 encore, 1 VOA vial
MW-7 (7-9)	5/20/13 13:35		VOC/SVOC/Metals/PCB	
MW-9 (0-2)	5/20/13 15:35		VOC/SVOC/Metals/PCB/Pest	
MW-9 (6-8)	5/20/13 15:45		VOC/SVOC/Metals/PCB	
MW-6 (0-2)	5/20/13 15:00		VOC/SVOC/Metals/PCB/Pest	
MW-6 (9-11)	5/20/13 15:18		VOC/SVOC/Metals/PCB	
MW-8 (0.5-2.5)	5/20/13 14:00		VOC/SVOC/Metals/PCB/Pest	
MW-8 (7.5-9.5)	5/20/13 14:40		VOC/SVOC/Metals/PCB	
TB-052113	5/21/13	DI Water	VOC	1 VOA

Comments

Preservation Check those Applicable: 4°C ___ Frozen ___ HCl ___ MeOH ___ HNO_3 ___ H_2SO_4 ___ NaOH ___ ZnAc ___ Ascorbic Acid ___ Other ___

Special Instructions

Field Filtered ☐
Lab to Filter ☐

Paul McMahon	5/20/13 8:00	JKBaker	5-21-13 8AM
Samples Relinquished By	Date/Time	Samples Received By	Date/Time
		Pfree	5-21-13 1645
Samples Relinquished By	Date/Time	Samples Received in LAB by	Date/Time

Temperature on Receipt 3.6 °C

Technical Report

prepared for:

Langan Engineering & Environmental Services (NYC)
21 Penn Plaza, 360 West 31st Street
New York NY, 10001
Attention: Paul McMahon

Report Date: 05/29/2013
Client Project ID: 170246501
York Project (SDG) No.: 13E0744

CT Cert. No. PH-0723 New Jersey Cert. No. CT-005 New York Cert. No. 10854 PA Cert. No. 68-04440

120 RESEARCH DRIVE STRATFORD, CT 06615 (203) 325-1371 FAX (203) 357-0166

Report Date: 05/29/2013
Client Project ID: 170246501
York Project (SDG) No.: 13E0744

Langan Engineering & Environmental Services (NYC)
21 Penn Plaza, 360 West 31st Street
New York NY, 10001
Attention: Paul McMahon

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on May 22, 2013 and listed below. The project was identified as your project: **170246501**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the attachment to this report, and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
13E0744-01	MW-5 (0-2)	Soil	05/21/2013	05/22/2013
13E0744-02	MW-5 (6-8)	Soil	05/21/2013	05/22/2013
13E0744-03	LG-20 (0-2)	Soil	05/21/2013	05/22/2013
13E0744-04	LG-20 (22-24)	Soil	05/21/2013	05/22/2013
13E0744-05	LG-21 (0-2)	Soil	05/21/2013	05/22/2013
13E0744-06	LG-21 (20-22)	Soil	05/21/2013	05/22/2013
13E0744-07	MW-10 (1-3)	Soil	05/21/2013	05/22/2013
13E0744-08	MW-10 (32-34)	Soil	05/21/2013	05/22/2013
13E0744-09	LG-19 (0-2)	Soil	05/21/2013	05/22/2013
13E0744-10	LG-19 (26-28)	Soil	05/21/2013	05/22/2013
13E0744-11	DUP-1 (052113)	Soil	05/21/2013	05/22/2013
13E0744-12	TB_052113	Water	05/21/2013	05/22/2013

General Notes for York Project (SDG) No.: 13E0744

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation, unless otherwise noted.
6. All analyses conducted met method or Laboratory SOP requirements. See the Qualifiers and/or Narrative sections for further information.
7. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
8. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.

Approved By: 

Date: 05/29/2013

Benjamin Gulizia
Laboratory Director

YORK

Sample Information

Client Sample ID: MW-5 (0-2) **York Sample ID:** 13E0744-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0744	170246501	Soil	May 21, 2013 10:25 am	05/22/2013

Volatile Organics, 8260 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND	U	mg/kg dry	0.0027	0.0054	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 14:02	SS
71-55-6	1,1,1-Trichloroethane	ND	U	mg/kg dry	0.0027	0.0054	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 14:02	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND	U	mg/kg dry	0.0027	0.0054	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 14:02	SS
76-13-1	,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113	ND	U	mg/kg dry	0.0027	0.0054	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 14:02	SS
79-00-5	1,1,2-Trichloroethane	ND	U	mg/kg dry	0.0027	0.0054	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 14:02	SS
75-34-3	1,1-Dichloroethane	ND	U	mg/kg dry	0.0027	0.0054	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 14:02	SS
75-35-4	1,1-Dichloroethylene	ND	U	mg/kg dry	0.0027	0.0054	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 14:02	SS
563-58-6	1,1-Dichloropropylene	ND	U	mg/kg dry	0.0027	0.0054	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 14:02	SS
87-61-6	1,2,3-Trichlorobenzene	ND	U	mg/kg dry	0.0027	0.0054	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 14:02	SS
96-18-4	1,2,3-Trichloropropane	ND	U	mg/kg dry	0.0027	0.0054	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 14:02	SS
120-82-1	1,2,4-Trichlorobenzene	ND	U	mg/kg dry	0.0027	0.0054	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 14:02	SS
95-63-6	1,2,4-Trimethylbenzene	ND	U	mg/kg dry	0.0027	0.0054	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 14:02	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND	U	mg/kg dry	0.0027	0.0054	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 14:02	SS
106-93-4	1,2-Dibromoethane	ND	U	mg/kg dry	0.0027	0.0054	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 14:02	SS
95-50-1	1,2-Dichlorobenzene	ND	U	mg/kg dry	0.0027	0.0054	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 14:02	SS
107-06-2	1,2-Dichloroethane	ND	U	mg/kg dry	0.0027	0.0054	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 14:02	SS
78-87-5	1,2-Dichloropropane	ND	U	mg/kg dry	0.0027	0.0054	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 14:02	SS
108-67-8	1,3,5-Trimethylbenzene	ND	U	mg/kg dry	0.0027	0.0054	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 14:02	SS
541-73-1	1,3-Dichlorobenzene	ND	U	mg/kg dry	0.0027	0.0054	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 14:02	SS
142-28-9	1,3-Dichloropropane	ND	U	mg/kg dry	0.0027	0.0054	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 14:02	SS
106-46-7	1,4-Dichlorobenzene	ND	U	mg/kg dry	0.0027	0.0054	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 14:02	SS
123-91-1	1,4-Dioxane	ND	U	mg/kg dry	0.054	0.11	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 14:02	SS
594-20-7	2,2-Dichloropropane	ND	U	mg/kg dry	0.0027	0.0054	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 14:02	SS
78-93-3	2-Butanone	ND	U	mg/kg dry	0.0027	0.0054	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 14:02	SS
95-49-8	2-Chlorotoluene	ND	U	mg/kg dry	0.0027	0.0054	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 14:02	SS
106-43-4	4-Chlorotoluene	ND	U	mg/kg dry	0.0027	0.0054	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 14:02	SS
67-64-1	Acetone	**0.0029**	J, B	mg/kg dry	0.0027	0.011	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 14:02	SS
71-43-2	Benzene	ND	U	mg/kg dry	0.0027	0.0054	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 14:02	SS
108-86-1	Bromobenzene	ND	U	mg/kg dry	0.0027	0.0054	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 14:02	SS
74-97-5	Bromochloromethane	ND	U	mg/kg dry	0.0027	0.0054	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 14:02	SS
75-27-4	Bromodichloromethane	ND	U	mg/kg dry	0.0027	0.0054	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 14:02	SS
75-25-2	Bromoform	ND	U	mg/kg dry	0.0027	0.0054	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 14:02	SS

Sample Information

Client Sample ID: MW-5 (0-2) **York Sample ID:** 13E0744-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0744	170246501	Soil	May 21, 2013 10:25 am	05/22/2013

Volatile Organics, 8260 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
74-83-9	Bromomethane	ND	U	mg/kg dry	0.0027	0.0054	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 14:02	SS
56-23-5	Carbon tetrachloride	ND	U	mg/kg dry	0.0027	0.0054	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 14:02	SS
108-90-7	Chlorobenzene	ND	U	mg/kg dry	0.0027	0.0054	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 14:02	SS
75-00-3	Chloroethane	ND	U	mg/kg dry	0.0027	0.0054	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 14:02	SS
67-66-3	Chloroform	ND	U	mg/kg dry	0.0027	0.0054	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 14:02	SS
74-87-3	Chloromethane	ND	U	mg/kg dry	0.0027	0.0054	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 14:02	SS
156-59-2	cis-1,2-Dichloroethylene	ND	U	mg/kg dry	0.0027	0.0054	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 14:02	SS
10061-01-5	cis-1,3-Dichloropropylene	ND	U	mg/kg dry	0.0027	0.0054	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 14:02	SS
124-48-1	Dibromochloromethane	ND	U	mg/kg dry	0.0027	0.0054	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 14:02	SS
74-95-3	Dibromomethane	ND	U	mg/kg dry	0.0027	0.0054	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 14:02	SS
75-71-8	Dichlorodifluoromethane	ND	U	mg/kg dry	0.0027	0.0054	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 14:02	SS
100-41-4	Ethyl Benzene	ND	U	mg/kg dry	0.0027	0.0054	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 14:02	SS
87-68-3	Hexachlorobutadiene	ND	U	mg/kg dry	0.0027	0.0054	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 14:02	SS
98-82-8	Isopropylbenzene	ND	U	mg/kg dry	0.0027	0.0054	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 14:02	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND	U	mg/kg dry	0.0027	0.0054	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 14:02	SS
75-09-2	Methylene chloride	**0.0063**	J	mg/kg dry	0.0027	0.011	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 14:02	SS
91-20-3	Naphthalene	ND	U	mg/kg dry	0.0027	0.011	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 14:02	SS
104-51-8	n-Butylbenzene	ND	U	mg/kg dry	0.0027	0.0054	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 14:02	SS
103-65-1	n-Propylbenzene	ND	U	mg/kg dry	0.0027	0.0054	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 14:02	SS
95-47-6	o-Xylene	ND	U	mg/kg dry	0.0027	0.0054	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 14:02	SS
179601-23-1	p- & m- Xylenes	ND	U	mg/kg dry	0.0054	0.011	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 14:02	SS
99-87-6	p-Isopropyltoluene	ND	U	mg/kg dry	0.0027	0.0054	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 14:02	SS
135-98-8	sec-Butylbenzene	ND	U	mg/kg dry	0.0027	0.0054	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 14:02	SS
100-42-5	Styrene	ND	U	mg/kg dry	0.0027	0.0054	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 14:02	SS
98-06-6	tert-Butylbenzene	ND	U	mg/kg dry	0.0027	0.0054	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 14:02	SS
127-18-4	Tetrachloroethylene	ND	U	mg/kg dry	0.0027	0.0054	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 14:02	SS
108-88-3	Toluene	ND	U	mg/kg dry	0.0027	0.0054	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 14:02	SS
156-60-5	trans-1,2-Dichloroethylene	ND	U	mg/kg dry	0.0027	0.0054	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 14:02	SS
10061-02-6	trans-1,3-Dichloropropylene	ND	U	mg/kg dry	0.0027	0.0054	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 14:02	SS
79-01-6	Trichloroethylene	ND	U	mg/kg dry	0.0027	0.0054	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 14:02	SS
75-69-4	Trichlorofluoromethane	ND	U	mg/kg dry	0.0027	0.0054	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 14:02	SS
75-01-4	Vinyl Chloride	ND	U	mg/kg dry	0.0027	0.0054	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 14:02	SS

Sample Information

Client Sample ID: MW-5 (0-2) **York Sample ID:** 13E0744-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0744	170246501	Soil	May 21, 2013 10:25 am	05/22/2013

Volatile Organics, 8260 List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1330-20-7	Xylenes, Total	ND	U	mg/kg dry	0.0081	0.016	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 14:02	SS
108-05-4	Vinyl acetate	ND	U	mg/kg dry	0.0027	0.0054	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 14:02	SS

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*100 %*	*73-130*
460-00-4	*Surrogate: p-Bromofluorobenzene*	*110 %*	*72-127*
2037-26-5	*Surrogate: Toluene-d8*	*100 %*	*84-117*

Semi-Volatiles, 8270 Target List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND	U	mg/kg dry	0.0706	0.195	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 17:59	SR
208-96-8	Acenaphthylene	ND	U	mg/kg dry	0.0936	0.195	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 17:59	SR
62-53-3	Aniline	ND	U	mg/kg dry	0.112	0.195	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 17:59	SR
120-12-7	Anthracene	ND	U	mg/kg dry	0.106	0.195	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 17:59	SR
56-55-3	Benzo(a)anthracene	ND	U	mg/kg dry	0.0729	0.195	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 17:59	SR
50-32-8	Benzo(a)pyrene	ND	U	mg/kg dry	0.0772	0.195	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 17:59	SR
205-99-2	Benzo(b)fluoranthene	ND	U	mg/kg dry	0.163	0.195	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 17:59	SR
191-24-2	Benzo(g,h,i)perylene	ND	U	mg/kg dry	0.0648	0.195	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 17:59	SR
100-51-6	Benzyl alcohol	ND	U	mg/kg dry	0.195	0.195	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 17:59	SR
207-08-9	Benzo(k)fluoranthene	ND	U	mg/kg dry	0.195	0.195	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 17:59	SR
85-68-7	Benzyl butyl phthalate	ND	U	mg/kg dry	0.108	0.195	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 17:59	SR
101-55-3	4-Bromophenyl phenyl ether	ND	U	mg/kg dry	0.0940	0.195	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 17:59	SR
59-50-7	4-Chloro-3-methylphenol	ND	U	mg/kg dry	0.131	0.195	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 17:59	SR
106-47-8	4-Chloroaniline	ND	U	mg/kg dry	0.0507	0.195	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 17:59	SR
111-91-1	Bis(2-chloroethoxy)methane	ND	U	mg/kg dry	0.0671	0.195	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 17:59	SR
111-44-4	Bis(2-chloroethyl)ether	ND	U	mg/kg dry	0.0995	0.195	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 17:59	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND	U	mg/kg dry	0.0687	0.195	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 17:59	SR
117-81-7	Bis(2-ethylhexyl)phthalate	ND	U	mg/kg dry	0.135	0.195	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 17:59	SR
91-58-7	2-Chloronaphthalene	ND	U	mg/kg dry	0.105	0.195	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 17:59	SR
95-57-8	2-Chlorophenol	ND	U	mg/kg dry	0.0644	0.195	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 17:59	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND	U	mg/kg dry	0.114	0.195	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 17:59	SR
218-01-9	Chrysene	ND	U	mg/kg dry	0.0897	0.195	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 17:59	SR
53-70-3	Dibenzo(a,h)anthracene	ND	U	mg/kg dry	0.0784	0.195	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 17:59	SR
132-64-9	Dibenzofuran	ND	U	mg/kg dry	0.0909	0.195	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 17:59	SR

Sample Information

Client Sample ID: MW-5 (0-2) **York Sample ID:** 13E0744-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0744	170246501	Soil	May 21, 2013 10:25 am	05/22/2013

Semi-Volatiles, 8270 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
84-74-2	Di-n-butyl phthalate	ND	U	mg/kg dry	0.0792	0.195	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 17:59	SR
95-50-1	1,2-Dichlorobenzene	ND	U	mg/kg dry	0.128	0.195	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 17:59	SR
106-46-7	1,4-Dichlorobenzene	ND	U	mg/kg dry	0.120	0.195	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 17:59	SR
541-73-1	1,3-Dichlorobenzene	ND	U	mg/kg dry	0.0616	0.195	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 17:59	SR
91-94-1	3,3'-Dichlorobenzidine	ND	U	mg/kg dry	0.102	0.195	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 17:59	SR
120-83-2	2,4-Dichlorophenol	ND	U	mg/kg dry	0.159	0.195	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 17:59	SR
84-66-2	Diethyl phthalate	ND	U	mg/kg dry	0.122	0.195	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 17:59	SR
105-67-9	2,4-Dimethylphenol	ND	U	mg/kg dry	0.137	0.195	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 17:59	SR
131-11-3	Dimethyl phthalate	ND	U	mg/kg dry	0.0870	0.195	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 17:59	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND	U	mg/kg dry	0.246	0.390	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 17:59	SR
88-74-4	2-Nitroaniline	ND	U	mg/kg dry	0.170	0.195	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 17:59	SR
51-28-5	2,4-Dinitrophenol	ND	U	mg/kg dry	0.164	0.390	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 17:59	SR
606-20-2	2,6-Dinitrotoluene	ND	U	mg/kg dry	0.100	0.195	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 17:59	SR
121-14-2	2,4-Dinitrotoluene	ND	U	mg/kg dry	0.0862	0.195	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 17:59	SR
117-84-0	Di-n-octyl phthalate	ND	U	mg/kg dry	0.195	0.195	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 17:59	SR
206-44-0	Fluoranthene	ND	U	mg/kg dry	0.114	0.195	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 17:59	SR
86-73-7	Fluorene	ND	U	mg/kg dry	0.0936	0.195	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 17:59	SR
118-74-1	Hexachlorobenzene	ND	U	mg/kg dry	0.115	0.195	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 17:59	SR
87-68-3	Hexachlorobutadiene	ND	U	mg/kg dry	0.0659	0.195	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 17:59	SR
77-47-4	Hexachlorocyclopentadiene	ND	U	mg/kg dry	0.145	0.195	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 17:59	SR
67-72-1	Hexachloroethane	ND	U	mg/kg dry	0.0558	0.195	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 17:59	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND	U	mg/kg dry	0.0889	0.195	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 17:59	SR
78-59-1	Isophorone	ND	U	mg/kg dry	0.0671	0.195	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 17:59	SR
91-57-6	2-Methylnaphthalene	ND	U	mg/kg dry	0.150	0.195	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 17:59	SR
95-48-7	2-Methylphenol	ND	U	mg/kg dry	0.0741	0.195	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 17:59	SR
65794-96-9	3- & 4-Methylphenols	ND	U	mg/kg dry	0.0847	0.195	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 17:59	SR
91-20-3	Naphthalene	ND	U	mg/kg dry	0.0480	0.195	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 17:59	SR
99-09-2	3-Nitroaniline	ND	U	mg/kg dry	0.194	0.195	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 17:59	SR
100-01-6	4-Nitroaniline	ND	U	mg/kg dry	0.0807	0.195	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 17:59	SR
98-95-3	Nitrobenzene	ND	U	mg/kg dry	0.0573	0.195	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 17:59	SR
100-02-7	4-Nitrophenol	ND	U	mg/kg dry	0.0733	0.195	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 17:59	SR
88-75-5	2-Nitrophenol	ND	U	mg/kg dry	0.0531	0.195	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 17:59	SR

Sample Information

Client Sample ID: MW-5 (0-2) **York Sample ID:** 13E0744-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0744	170246501	Soil	May 21, 2013 10:25 am	05/22/2013

Semi-Volatiles, 8270 Target List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
621-64-7	N-nitroso-di-n-propylamine	ND	U	mg/kg dry	0.0651	0.195	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 17:59	SR
62-75-9	N-Nitrosodimethylamine	ND	U	mg/kg dry	0.0800	0.195	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 17:59	SR
86-30-6	N-Nitrosodiphenylamine	ND	U	mg/kg dry	0.0882	0.195	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 17:59	SR
87-86-5	Pentachlorophenol	ND	U	mg/kg dry	0.147	0.195	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 17:59	SR
85-01-8	Phenanthrene	ND	U	mg/kg dry	0.102	0.195	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 17:59	SR
108-95-2	Phenol	ND	U	mg/kg dry	0.0843	0.195	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 17:59	SR
129-00-0	Pyrene	ND	U	mg/kg dry	0.0796	0.195	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 17:59	SR
110-86-1	Pyridine	ND	U	mg/kg dry	0.137	0.195	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 17:59	SR
120-82-1	1,2,4-Trichlorobenzene	ND	U	mg/kg dry	0.0706	0.195	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 17:59	SR
95-95-4	2,4,5-Trichlorophenol	ND	U	mg/kg dry	0.151	0.195	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 17:59	SR
88-06-2	2,4,6-Trichlorophenol	ND	U	mg/kg dry	0.0991	0.195	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 17:59	SR

	Surrogate Recoveries	Result	Acceptance Range
5175-83-7	*Surrogate: 2,4,6-Tribromophenol*	*69.4 %*	*15-110*
321-60-8	*Surrogate: 2-Fluorobiphenyl*	*52.2 %*	*30-130*
367-12-4	*Surrogate: 2-Fluorophenol*	*55.5 %*	*15-110*
4165-60-0	*Surrogate: Nitrobenzene-d5*	*58.7 %*	*30-130*
4165-62-2	*Surrogate: Phenol-d5*	*56.6 %*	*15-110*
1718-51-0	*Surrogate: Terphenyl-d14*	*55.6 %*	*30-130*

Pesticides/PCBs, EPA 8081/8082 List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
8001-35-2	Toxaphene	ND	U	mg/kg dry	0.0977	0.0977	5	EPA SW 846-8081/8082	05/24/2013 08:59	05/28/2013 13:47	JW
72-43-5	Methoxychlor	ND	U	mg/kg dry	0.00965	0.00965	5	EPA SW 846-8081/8082	05/24/2013 08:59	05/28/2013 13:47	JW
1024-57-3	Heptachlor epoxide	ND	U	mg/kg dry	0.00193	0.00193	5	EPA SW 846-8081/8082	05/24/2013 08:59	05/28/2013 13:47	JW
76-44-8	Heptachlor	ND	U	mg/kg dry	0.00193	0.00193	5	EPA SW 846-8081/8082	05/24/2013 08:59	05/28/2013 13:47	JW
58-89-9	gamma-BHC (Lindane)	ND	U	mg/kg dry	0.00193	0.00193	5	EPA SW 846-8081/8082	05/24/2013 08:59	05/28/2013 13:47	JW
53494-70-5	Endrin ketone	ND	U	mg/kg dry	0.00193	0.00193	5	EPA SW 846-8081/8082	05/24/2013 08:59	05/28/2013 13:47	JW
7421-93-4	Endrin aldehyde	ND	U	mg/kg dry	0.00193	0.00193	5	EPA SW 846-8081/8082	05/24/2013 08:59	05/28/2013 13:47	JW
72-20-8	Endrin	ND	U	mg/kg dry	0.00193	0.00193	5	EPA SW 846-8081/8082	05/24/2013 08:59	05/28/2013 13:47	JW
1031-07-8	Endosulfan sulfate	ND	U	mg/kg dry	0.00193	0.00193	5	EPA SW 846-8081/8082	05/24/2013 08:59	05/28/2013 13:47	JW
33213-65-9	Endosulfan II	ND	U	mg/kg dry	0.00193	0.00193	5	EPA SW 846-8081/8082	05/24/2013 08:59	05/28/2013 13:47	JW
959-98-8	Endosulfan I	ND	U	mg/kg dry	0.00193	0.00193	5	EPA SW 846-8081/8082	05/24/2013 08:59	05/28/2013 13:47	JW
60-57-1	Dieldrin	ND	U	mg/kg dry	0.00193	0.00193	5	EPA SW 846-8081/8082	05/24/2013 08:59	05/28/2013 13:47	JW

Sample Information

Client Sample ID: MW-5 (0-2) **York Sample ID:** 13E0744-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0744	170246501	Soil	May 21, 2013 10:25 am	05/22/2013

Pesticides/PCBs, EPA 8081/8082 List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
319-86-8	delta-BHC	ND	U	mg/kg dry	0.00193	0.00193	5	EPA SW 846-8081/8082	05/24/2013 08:59	05/28/2013 13:47	JW
57-74-9	Chlordane, total	ND	U	mg/kg dry	0.00772	0.00772	5	EPA SW 846-8081/8082	05/24/2013 08:59	05/28/2013 13:47	JW
319-85-7	beta-BHC	ND	U	mg/kg dry	0.00193	0.00193	5	EPA SW 846-8081/8082	05/24/2013 08:59	05/28/2013 13:47	JW
319-84-6	alpha-BHC	ND	U	mg/kg dry	0.00193	0.00193	5	EPA SW 846-8081/8082	05/24/2013 08:59	05/28/2013 13:47	JW
309-00-2	Aldrin	ND	U	mg/kg dry	0.00193	0.00193	5	EPA SW 846-8081/8082	05/24/2013 08:59	05/28/2013 13:47	JW
50-29-3	4,4'-DDT	ND	U	mg/kg dry	0.00193	0.00193	5	EPA SW 846-8081/8082	05/24/2013 08:59	05/28/2013 13:47	JW
72-55-9	4,4'-DDE	ND	U	mg/kg dry	0.00193	0.00193	5	EPA SW 846-8081/8082	05/24/2013 08:59	05/28/2013 13:47	JW
72-54-8	4,4'-DDD	ND	U	mg/kg dry	0.00193	0.00193	5	EPA SW 846-8081/8082	05/24/2013 08:59	05/28/2013 13:47	JW
11096-82-5	Aroclor 1260	ND	U	mg/kg dry	0.0199	0.0199	1	EPA SW 846-8081/8082	05/24/2013 08:59	05/28/2013 11:26	JW
11097-69-1	Aroclor 1254	ND	U	mg/kg dry	0.0199	0.0199	1	EPA SW 846-8081/8082	05/24/2013 08:59	05/28/2013 11:26	JW
12672-29-6	Aroclor 1248	ND	U	mg/kg dry	0.0199	0.0199	1	EPA SW 846-8081/8082	05/24/2013 08:59	05/28/2013 11:26	JW
53469-21-9	Aroclor 1242	ND	U	mg/kg dry	0.0199	0.0199	1	EPA SW 846-8081/8082	05/24/2013 08:59	05/28/2013 11:26	JW
11141-16-5	Aroclor 1232	ND	U	mg/kg dry	0.0199	0.0199	1	EPA SW 846-8081/8082	05/24/2013 08:59	05/28/2013 11:26	JW
11104-28-2	Aroclor 1221	ND	U	mg/kg dry	0.0199	0.0199	1	EPA SW 846-8081/8082	05/24/2013 08:59	05/28/2013 11:26	JW
12674-11-2	Aroclor 1016	ND	U	mg/kg dry	0.0199	0.0199	1	EPA SW 846-8081/8082	05/24/2013 08:59	05/28/2013 11:26	JW
1336-36-3	Total PCBs	ND	U	mg/kg dry	0.00796	0.0199	1	EPA SW 846-8081/8082	05/24/2013 08:59	05/28/2013 11:26	JW

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*83.3 %*	*30-150*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*74.7 %*	*30-150*

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	**7490**		mg/kg dry	1.19	2.34	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 20:21	MW
7440-36-0	Antimony	ND	U	mg/kg dry	0.257	0.585	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 20:21	MW
7440-38-2	Arsenic	**2.33**		mg/kg dry	0.398	1.17	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 20:21	MW
7440-39-3	Barium	**71.7**		mg/kg dry	0.152	0.585	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 20:21	MW
7440-41-7	Beryllium	ND	U	mg/kg dry	0.117	0.117	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 20:21	MW
7440-43-9	Cadmium	ND	U	mg/kg dry	0.117	0.585	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 20:21	MW
7440-70-2	Calcium	**22100**		mg/kg dry	0.047	5.85	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 20:21	MW
7440-47-3	Chromium	**20.4**		mg/kg dry	0.140	0.585	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 20:21	MW
7440-48-4	Cobalt	**7.35**		mg/kg dry	0.094	0.585	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 20:21	MW
7440-50-8	Copper	**16.7**		mg/kg dry	0.140	0.585	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 20:21	MW
7439-89-6	Iron	**13900**		mg/kg dry	0.761	2.34	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 20:21	MW

Sample Information

Client Sample ID: MW-5 (0-2) **York Sample ID:** 13E0744-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0744	170246501	Soil	May 21, 2013 10:25 am	05/22/2013

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**4.56**		mg/kg dry	0.199	0.351	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 20:21	MW
7439-95-4	Magnesium	**13300**		mg/kg dry	0.527	5.85	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 20:21	MW
7439-96-5	Manganese	**340**		mg/kg dry	0.129	1.17	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 20:21	MW
7440-02-0	Nickel	**17.4**		mg/kg dry	0.152	0.585	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 20:21	MW
7440-09-7	Potassium	**3170**		mg/kg dry	3.96	11.7	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 20:21	MW
7782-49-2	Selenium	ND	U	mg/kg dry	0.585	0.585	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 20:21	MW
7440-22-4	Silver	ND	U	mg/kg dry	0.117	0.585	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 20:21	MW
7440-23-5	Sodium	**275**	B	mg/kg dry	6.17	11.7	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 20:21	MW
7440-28-0	Thallium	ND	U	mg/kg dry	0.374	0.585	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 20:21	MW
7440-62-2	Vanadium	**23.8**		mg/kg dry	0.129	0.585	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 20:21	MW
7440-66-6	Zinc	**37.0**		mg/kg dry	0.105	0.585	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 20:21	MW

Mercury by 7470/7471

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-7471

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND	U	mg/kg dry	0.0386	0.0386	1	EPA SW846-7471	05/24/2013 10:58	05/24/2013 18:33	AA

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	**85.4**		%	0.100	0.100	1	SM 2540G	05/23/2013 09:08	05/23/2013 12:26	AMC

Sample Information

Client Sample ID: MW-5 (6-8) **York Sample ID:** 13E0744-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0744	170246501	Soil	May 21, 2013 10:35 am	05/22/2013

Volatile Organics, 8260 List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND	U	mg/kg dry	0.0027	0.0053	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 14:43	SS
71-55-6	1,1,1-Trichloroethane	ND	U	mg/kg dry	0.0027	0.0053	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 14:43	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND	U	mg/kg dry	0.0027	0.0053	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 14:43	SS
76-13-1	,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113	ND	U	mg/kg dry	0.0027	0.0053	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 14:43	SS
79-00-5	1,1,2-Trichloroethane	ND	U	mg/kg dry	0.0027	0.0053	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 14:43	SS

Sample Information

Client Sample ID: MW-5 (6-8) **York Sample ID:** 13E0744-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0744	170246501	Soil	May 21, 2013 10:35 am	05/22/2013

Volatile Organics, 8260 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-34-3	1,1-Dichloroethane	ND	U	mg/kg dry	0.0027	0.0053	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 14:43	SS
75-35-4	1,1-Dichloroethylene	ND	U	mg/kg dry	0.0027	0.0053	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 14:43	SS
563-58-6	1,1-Dichloropropylene	ND	U	mg/kg dry	0.0027	0.0053	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 14:43	SS
87-61-6	1,2,3-Trichlorobenzene	ND	U	mg/kg dry	0.0027	0.0053	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 14:43	SS
96-18-4	1,2,3-Trichloropropane	ND	U	mg/kg dry	0.0027	0.0053	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 14:43	SS
120-82-1	1,2,4-Trichlorobenzene	ND	U	mg/kg dry	0.0027	0.0053	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 14:43	SS
95-63-6	1,2,4-Trimethylbenzene	ND	U	mg/kg dry	0.0027	0.0053	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 14:43	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND	U	mg/kg dry	0.0027	0.0053	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 14:43	SS
106-93-4	1,2-Dibromoethane	ND	U	mg/kg dry	0.0027	0.0053	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 14:43	SS
95-50-1	1,2-Dichlorobenzene	ND	U	mg/kg dry	0.0027	0.0053	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 14:43	SS
107-06-2	1,2-Dichloroethane	ND	U	mg/kg dry	0.0027	0.0053	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 14:43	SS
78-87-5	1,2-Dichloropropane	ND	U	mg/kg dry	0.0027	0.0053	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 14:43	SS
108-67-8	1,3,5-Trimethylbenzene	ND	U	mg/kg dry	0.0027	0.0053	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 14:43	SS
541-73-1	1,3-Dichlorobenzene	ND	U	mg/kg dry	0.0027	0.0053	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 14:43	SS
142-28-9	1,3-Dichloropropane	ND	U	mg/kg dry	0.0027	0.0053	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 14:43	SS
106-46-7	1,4-Dichlorobenzene	ND	U	mg/kg dry	0.0027	0.0053	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 14:43	SS
123-91-1	1,4-Dioxane	ND	U	mg/kg dry	0.053	0.11	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 14:43	SS
594-20-7	2,2-Dichloropropane	ND	U	mg/kg dry	0.0027	0.0053	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 14:43	SS
78-93-3	2-Butanone	ND	U	mg/kg dry	0.0027	0.0053	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 14:43	SS
95-49-8	2-Chlorotoluene	ND	U	mg/kg dry	0.0027	0.0053	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 14:43	SS
106-43-4	4-Chlorotoluene	ND	U	mg/kg dry	0.0027	0.0053	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 14:43	SS
67-64-1	Acetone	**0.0040**	J, B	mg/kg dry	0.0027	0.011	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 14:43	SS
71-43-2	Benzene	ND	U	mg/kg dry	0.0027	0.0053	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 14:43	SS
108-86-1	Bromobenzene	ND	U	mg/kg dry	0.0027	0.0053	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 14:43	SS
74-97-5	Bromochloromethane	ND	U	mg/kg dry	0.0027	0.0053	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 14:43	SS
75-27-4	Bromodichloromethane	ND	U	mg/kg dry	0.0027	0.0053	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 14:43	SS
75-25-2	Bromoform	ND	U	mg/kg dry	0.0027	0.0053	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 14:43	SS
74-83-9	Bromomethane	ND	U	mg/kg dry	0.0027	0.0053	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 14:43	SS
56-23-5	Carbon tetrachloride	ND	U	mg/kg dry	0.0027	0.0053	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 14:43	SS
108-90-7	Chlorobenzene	ND	U	mg/kg dry	0.0027	0.0053	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 14:43	SS
75-00-3	Chloroethane	ND	U	mg/kg dry	0.0027	0.0053	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 14:43	SS
67-66-3	Chloroform	ND	U	mg/kg dry	0.0027	0.0053	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 14:43	SS

Sample Information

Client Sample ID: **MW-5 (6-8)** **York Sample ID:** **13E0744-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0744	170246501	Soil	May 21, 2013 10:35 am	05/22/2013

Volatile Organics, 8260 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
74-87-3	Chloromethane	ND	U	mg/kg dry	0.0027	0.0053	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 14:43	SS
156-59-2	cis-1,2-Dichloroethylene	ND	U	mg/kg dry	0.0027	0.0053	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 14:43	SS
10061-01-5	cis-1,3-Dichloropropylene	ND	U	mg/kg dry	0.0027	0.0053	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 14:43	SS
124-48-1	Dibromochloromethane	ND	U	mg/kg dry	0.0027	0.0053	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 14:43	SS
74-95-3	Dibromomethane	ND	U	mg/kg dry	0.0027	0.0053	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 14:43	SS
75-71-8	Dichlorodifluoromethane	ND	U	mg/kg dry	0.0027	0.0053	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 14:43	SS
100-41-4	Ethyl Benzene	ND	U	mg/kg dry	0.0027	0.0053	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 14:43	SS
87-68-3	Hexachlorobutadiene	ND	U	mg/kg dry	0.0027	0.0053	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 14:43	SS
98-82-8	Isopropylbenzene	ND	U	mg/kg dry	0.0027	0.0053	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 14:43	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND	U	mg/kg dry	0.0027	0.0053	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 14:43	SS
75-09-2	Methylene chloride	**0.0054**	J	mg/kg dry	0.0027	0.011	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 14:43	SS
91-20-3	Naphthalene	ND	U	mg/kg dry	0.0027	0.011	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 14:43	SS
104-51-8	n-Butylbenzene	ND	U	mg/kg dry	0.0027	0.0053	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 14:43	SS
103-65-1	n-Propylbenzene	ND	U	mg/kg dry	0.0027	0.0053	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 14:43	SS
95-47-6	o-Xylene	ND	U	mg/kg dry	0.0027	0.0053	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 14:43	SS
179601-23-1	p- & m- Xylenes	ND	U	mg/kg dry	0.0053	0.011	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 14:43	SS
99-87-6	p-Isopropyltoluene	ND	U	mg/kg dry	0.0027	0.0053	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 14:43	SS
135-98-8	sec-Butylbenzene	ND	U	mg/kg dry	0.0027	0.0053	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 14:43	SS
100-42-5	Styrene	ND	U	mg/kg dry	0.0027	0.0053	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 14:43	SS
98-06-6	tert-Butylbenzene	ND	U	mg/kg dry	0.0027	0.0053	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 14:43	SS
127-18-4	Tetrachloroethylene	ND	U	mg/kg dry	0.0027	0.0053	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 14:43	SS
108-88-3	Toluene	ND	U	mg/kg dry	0.0027	0.0053	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 14:43	SS
156-60-5	trans-1,2-Dichloroethylene	ND	U	mg/kg dry	0.0027	0.0053	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 14:43	SS
10061-02-6	trans-1,3-Dichloropropylene	ND	U	mg/kg dry	0.0027	0.0053	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 14:43	SS
79-01-6	Trichloroethylene	ND	U	mg/kg dry	0.0027	0.0053	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 14:43	SS
75-69-4	Trichlorofluoromethane	ND	U	mg/kg dry	0.0027	0.0053	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 14:43	SS
75-01-4	Vinyl Chloride	ND	U	mg/kg dry	0.0027	0.0053	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 14:43	SS
1330-20-7	Xylenes, Total	ND	U	mg/kg dry	0.0080	0.016	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 14:43	SS
108-05-4	Vinyl acetate	ND	U	mg/kg dry	0.0027	0.0053	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 14:43	SS

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*108 %*	*73-130*
460-00-4	*Surrogate: p-Bromofluorobenzene*	*113 %*	*72-127*
2037-26-5	*Surrogate: Toluene-d8*	*99.0 %*	*84-117*

Sample Information

Client Sample ID: MW-5 (6-8) **York Sample ID:** 13E0744-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0744	170246501	Soil	May 21, 2013 10:35 am	05/22/2013

Semi-Volatiles, 8270 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND	U	mg/kg dry	0.0670	0.185	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 18:29	SR
208-96-8	Acenaphthylene	ND	U	mg/kg dry	0.0889	0.185	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 18:29	SR
62-53-3	Aniline	ND	U	mg/kg dry	0.106	0.185	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 18:29	SR
120-12-7	Anthracene	ND	U	mg/kg dry	0.101	0.185	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 18:29	SR
56-55-3	Benzo(a)anthracene	ND	U	mg/kg dry	0.0693	0.185	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 18:29	SR
50-32-8	Benzo(a)pyrene	ND	U	mg/kg dry	0.0733	0.185	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 18:29	SR
205-99-2	Benzo(b)fluoranthene	ND	U	mg/kg dry	0.155	0.185	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 18:29	SR
191-24-2	Benzo(g,h,i)perylene	ND	U	mg/kg dry	0.0615	0.185	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 18:29	SR
100-51-6	Benzyl alcohol	ND	U	mg/kg dry	0.185	0.185	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 18:29	SR
207-08-9	Benzo(k)fluoranthene	ND	U	mg/kg dry	0.185	0.185	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 18:29	SR
85-68-7	Benzyl butyl phthalate	ND	U	mg/kg dry	0.102	0.185	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 18:29	SR
101-55-3	4-Bromophenyl phenyl ether	ND	U	mg/kg dry	0.0892	0.185	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 18:29	SR
59-50-7	4-Chloro-3-methylphenol	ND	U	mg/kg dry	0.125	0.185	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 18:29	SR
106-47-8	4-Chloroaniline	ND	U	mg/kg dry	0.0481	0.185	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 18:29	SR
111-91-1	Bis(2-chloroethoxy)methane	ND	U	mg/kg dry	0.0637	0.185	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 18:29	SR
111-44-4	Bis(2-chloroethyl)ether	ND	U	mg/kg dry	0.0944	0.185	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 18:29	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND	U	mg/kg dry	0.0652	0.185	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 18:29	SR
117-81-7	Bis(2-ethylhexyl)phthalate	ND	U	mg/kg dry	0.128	0.185	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 18:29	SR
91-58-7	2-Chloronaphthalene	ND	U	mg/kg dry	0.100	0.185	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 18:29	SR
95-57-8	2-Chlorophenol	ND	U	mg/kg dry	0.0611	0.185	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 18:29	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND	U	mg/kg dry	0.109	0.185	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 18:29	SR
218-01-9	Chrysene	ND	U	mg/kg dry	0.0852	0.185	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 18:29	SR
53-70-3	Dibenzo(a,h)anthracene	ND	U	mg/kg dry	0.0744	0.185	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 18:29	SR
132-64-9	Dibenzofuran	ND	U	mg/kg dry	0.0863	0.185	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 18:29	SR
84-74-2	Di-n-butyl phthalate	ND	U	mg/kg dry	0.0752	0.185	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 18:29	SR
95-50-1	1,2-Dichlorobenzene	ND	U	mg/kg dry	0.121	0.185	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 18:29	SR
106-46-7	1,4-Dichlorobenzene	ND	U	mg/kg dry	0.114	0.185	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 18:29	SR
541-73-1	1,3-Dichlorobenzene	ND	U	mg/kg dry	0.0585	0.185	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 18:29	SR
91-94-1	3,3'-Dichlorobenzidine	ND	U	mg/kg dry	0.0970	0.185	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 18:29	SR
120-83-2	2,4-Dichlorophenol	ND	U	mg/kg dry	0.151	0.185	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 18:29	SR
84-66-2	Diethyl phthalate	ND	U	mg/kg dry	0.116	0.185	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 18:29	SR
105-67-9	2,4-Dimethylphenol	ND	U	mg/kg dry	0.130	0.185	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 18:29	SR

Sample Information

Client Sample ID: MW-5 (6-8) **York Sample ID:** 13E0744-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0744	170246501	Soil	May 21, 2013 10:35 am	05/22/2013

Semi-Volatiles, 8270 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
131-11-3	Dimethyl phthalate	ND	U	mg/kg dry	0.0826	0.185	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 18:29	SR
88-74-4	2-Nitroaniline	ND	U	mg/kg dry	0.161	0.185	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 18:29	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND	U	mg/kg dry	0.233	0.370	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 18:29	SR
51-28-5	2,4-Dinitrophenol	ND	U	mg/kg dry	0.156	0.370	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 18:29	SR
606-20-2	2,6-Dinitrotoluene	ND	U	mg/kg dry	0.0952	0.185	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 18:29	SR
121-14-2	2,4-Dinitrotoluene	ND	U	mg/kg dry	0.0818	0.185	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 18:29	SR
117-84-0	Di-n-octyl phthalate	ND	U	mg/kg dry	0.185	0.185	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 18:29	SR
206-44-0	Fluoranthene	ND	U	mg/kg dry	0.109	0.185	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 18:29	SR
86-73-7	Fluorene	ND	U	mg/kg dry	0.0889	0.185	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 18:29	SR
118-74-1	Hexachlorobenzene	ND	U	mg/kg dry	0.109	0.185	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 18:29	SR
87-68-3	Hexachlorobutadiene	ND	U	mg/kg dry	0.0626	0.185	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 18:29	SR
77-47-4	Hexachlorocyclopentadiene	ND	U	mg/kg dry	0.138	0.185	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 18:29	SR
67-72-1	Hexachloroethane	ND	U	mg/kg dry	0.0530	0.185	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 18:29	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND	U	mg/kg dry	0.0844	0.185	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 18:29	SR
78-59-1	Isophorone	ND	U	mg/kg dry	0.0637	0.185	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 18:29	SR
91-57-6	2-Methylnaphthalene	ND	U	mg/kg dry	0.142	0.185	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 18:29	SR
95-48-7	2-Methylphenol	ND	U	mg/kg dry	0.0704	0.185	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 18:29	SR
65794-96-9	3- & 4-Methylphenols	ND	U	mg/kg dry	0.0804	0.185	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 18:29	SR
91-20-3	Naphthalene	ND	U	mg/kg dry	0.0456	0.185	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 18:29	SR
99-09-2	3-Nitroaniline	ND	U	mg/kg dry	0.184	0.185	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 18:29	SR
100-01-6	4-Nitroaniline	ND	U	mg/kg dry	0.0767	0.185	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 18:29	SR
98-95-3	Nitrobenzene	ND	U	mg/kg dry	0.0544	0.185	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 18:29	SR
100-02-7	4-Nitrophenol	ND	U	mg/kg dry	0.0696	0.185	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 18:29	SR
88-75-5	2-Nitrophenol	ND	U	mg/kg dry	0.0504	0.185	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 18:29	SR
621-64-7	N-nitroso-di-n-propylamine	ND	U	mg/kg dry	0.0618	0.185	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 18:29	SR
62-75-9	N-Nitrosodimethylamine	ND	U	mg/kg dry	0.0759	0.185	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 18:29	SR
86-30-6	N-Nitrosodiphenylamine	ND	U	mg/kg dry	0.0837	0.185	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 18:29	SR
87-86-5	Pentachlorophenol	ND	U	mg/kg dry	0.140	0.185	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 18:29	SR
85-01-8	Phenanthrene	ND	U	mg/kg dry	0.0967	0.185	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 18:29	SR
108-95-2	Phenol	ND	U	mg/kg dry	0.0800	0.185	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 18:29	SR
129-00-0	Pyrene	ND	U	mg/kg dry	0.0755	0.185	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 18:29	SR
110-86-1	Pyridine	ND	U	mg/kg dry	0.130	0.185	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 18:29	SR

Sample Information

Client Sample ID: MW-5 (6-8) **York Sample ID:** 13E0744-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0744	170246501	Soil	May 21, 2013 10:35 am	05/22/2013

Semi-Volatiles, 8270 Target List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
120-82-1	1,2,4-Trichlorobenzene	ND	U	mg/kg dry	0.0670	0.185	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 18:29	SR
95-95-4	2,4,5-Trichlorophenol	ND	U	mg/kg dry	0.144	0.185	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 18:29	SR
88-06-2	2,4,6-Trichlorophenol	ND	U	mg/kg dry	0.0941	0.185	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 18:29	SR

	Surrogate Recoveries	Result	Acceptance Range
5175-83-7	*Surrogate: 2,4,6-Tribromophenol*	*55.8 %*	*15-110*
321-60-8	*Surrogate: 2-Fluorobiphenyl*	*50.3 %*	*30-130*
367-12-4	*Surrogate: 2-Fluorophenol*	*49.5 %*	*15-110*
4165-60-0	*Surrogate: Nitrobenzene-d5*	*51.1 %*	*30-130*
4165-62-2	*Surrogate: Phenol-d5*	*52.2 %*	*15-110*
1718-51-0	*Surrogate: Terphenyl-d14*	*53.3 %*	*30-130*

Polychlorinated Biphenyls (PCB)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0189	0.0189	1	EPA SW 846-8082A	05/24/2013 06:50	05/28/2013 11:56	JW
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0189	0.0189	1	EPA SW 846-8082A	05/24/2013 06:50	05/28/2013 11:56	JW
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0189	0.0189	1	EPA SW 846-8082A	05/24/2013 06:50	05/28/2013 11:56	JW
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0189	0.0189	1	EPA SW 846-8082A	05/24/2013 06:50	05/28/2013 11:56	JW
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0189	0.0189	1	EPA SW 846-8082A	05/24/2013 06:50	05/28/2013 11:56	JW
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0189	0.0189	1	EPA SW 846-8082A	05/24/2013 06:50	05/28/2013 11:56	JW
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0189	0.0189	1	EPA SW 846-8082A	05/24/2013 06:50	05/28/2013 11:56	JW
1336-36-3	Total PCBs	ND		mg/kg dry	0.0189	0.0189	1	EPA SW 846-8082A	05/24/2013 06:50	05/28/2013 11:56	JW

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*56.5 %*	*30-150*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*55.7 %*	*30-150*

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	**12300**		mg/kg dry	1.13	2.22	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 20:38	MW
7440-36-0	Antimony	ND	U	mg/kg dry	0.244	0.555	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 20:38	MW
7440-38-2	Arsenic	**2.95**		mg/kg dry	0.378	1.11	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 20:38	MW
7440-39-3	Barium	**69.0**		mg/kg dry	0.144	0.555	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 20:38	MW
7440-41-7	Beryllium	ND	U	mg/kg dry	0.111	0.111	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 20:38	MW
7440-43-9	Cadmium	ND	U	mg/kg dry	0.111	0.555	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 20:38	MW
7440-70-2	Calcium	**3100**		mg/kg dry	0.044	5.55	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 20:38	MW

Sample Information

Client Sample ID: MW-5 (6-8) **York Sample ID:** 13E0744-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0744	170246501	Soil	May 21, 2013 10:35 am	05/22/2013

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-47-3	Chromium	**23.4**		mg/kg dry	0.133	0.555	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 20:38	MW
7440-48-4	Cobalt	**9.30**		mg/kg dry	0.089	0.555	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 20:38	MW
7440-50-8	Copper	**16.5**		mg/kg dry	0.133	0.555	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 20:38	MW
7439-89-6	Iron	**22700**	E	mg/kg dry	0.722	2.22	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 20:38	MW
7439-92-1	Lead	**3.06**		mg/kg dry	0.189	0.333	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 20:38	MW
7439-95-4	Magnesium	**7840**		mg/kg dry	0.500	5.55	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 20:38	MW
7439-96-5	Manganese	**332**		mg/kg dry	0.122	1.11	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 20:38	MW
7440-02-0	Nickel	**15.7**		mg/kg dry	0.144	0.555	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 20:38	MW
7440-09-7	Potassium	**6600**		mg/kg dry	3.76	11.1	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 20:38	MW
7782-49-2	Selenium	**0.753**		mg/kg dry	0.555	0.555	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 20:38	MW
7440-22-4	Silver	ND	U	mg/kg dry	0.111	0.555	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 20:38	MW
7440-23-5	Sodium	**258**	B	mg/kg dry	5.85	11.1	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 20:38	MW
7440-28-0	Thallium	ND	U	mg/kg dry	0.356	0.555	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 20:38	MW
7440-62-2	Vanadium	**41.2**		mg/kg dry	0.122	0.555	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 20:38	MW
7440-66-6	Zinc	**42.4**		mg/kg dry	0.100	0.555	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 20:38	MW

Mercury by 7470/7471

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-7471

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND	U	mg/kg dry	0.0367	0.0367	1	EPA SW846-7471	05/24/2013 10:58	05/24/2013 18:33	AA

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	**90.0**		%	0.100	0.100	1	SM 2540G	05/23/2013 09:08	05/23/2013 12:26	AMC

Sample Information

Client Sample ID: LG-20 (0-2) **York Sample ID:** 13E0744-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0744	170246501	Soil	May 21, 2013 11:44 am	05/22/2013

Volatile Organics, 8260 List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND	U	mg/kg dry	0.0027	0.0053	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 15:23	SS
71-55-6	1,1,1-Trichloroethane	ND	U	mg/kg dry	0.0027	0.0053	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 15:23	SS

Sample Information

Client Sample ID: LG-20 (0-2) **York Sample ID:** 13E0744-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0744	170246501	Soil	May 21, 2013 11:44 am	05/22/2013

Volatile Organics, 8260 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
79-34-5	1,1,2,2-Tetrachloroethane	ND	U	mg/kg dry	0.0027	0.0053	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 15:23	SS
76-13-1	,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113	ND	U	mg/kg dry	0.0027	0.0053	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 15:23	SS
79-00-5	1,1,2-Trichloroethane	ND	U	mg/kg dry	0.0027	0.0053	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 15:23	SS
75-34-3	1,1-Dichloroethane	ND	U	mg/kg dry	0.0027	0.0053	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 15:23	SS
75-35-4	1,1-Dichloroethylene	ND	U	mg/kg dry	0.0027	0.0053	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 15:23	SS
563-58-6	1,1-Dichloropropylene	ND	U	mg/kg dry	0.0027	0.0053	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 15:23	SS
87-61-6	1,2,3-Trichlorobenzene	ND	U	mg/kg dry	0.0027	0.0053	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 15:23	SS
96-18-4	1,2,3-Trichloropropane	ND	U	mg/kg dry	0.0027	0.0053	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 15:23	SS
120-82-1	1,2,4-Trichlorobenzene	ND	U	mg/kg dry	0.0027	0.0053	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 15:23	SS
95-63-6	1,2,4-Trimethylbenzene	ND	U	mg/kg dry	0.0027	0.0053	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 15:23	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND	U	mg/kg dry	0.0027	0.0053	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 15:23	SS
106-93-4	1,2-Dibromoethane	ND	U	mg/kg dry	0.0027	0.0053	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 15:23	SS
95-50-1	1,2-Dichlorobenzene	ND	U	mg/kg dry	0.0027	0.0053	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 15:23	SS
107-06-2	1,2-Dichloroethane	ND	U	mg/kg dry	0.0027	0.0053	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 15:23	SS
78-87-5	1,2-Dichloropropane	ND	U	mg/kg dry	0.0027	0.0053	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 15:23	SS
108-67-8	1,3,5-Trimethylbenzene	ND	U	mg/kg dry	0.0027	0.0053	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 15:23	SS
541-73-1	1,3-Dichlorobenzene	ND	U	mg/kg dry	0.0027	0.0053	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 15:23	SS
142-28-9	1,3-Dichloropropane	ND	U	mg/kg dry	0.0027	0.0053	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 15:23	SS
106-46-7	1,4-Dichlorobenzene	ND	U	mg/kg dry	0.0027	0.0053	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 15:23	SS
123-91-1	1,4-Dioxane	ND	U	mg/kg dry	0.053	0.11	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 15:23	SS
594-20-7	2,2-Dichloropropane	ND	U	mg/kg dry	0.0027	0.0053	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 15:23	SS
78-93-3	2-Butanone	ND	U	mg/kg dry	0.0027	0.0053	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 15:23	SS
95-49-8	2-Chlorotoluene	ND	U	mg/kg dry	0.0027	0.0053	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 15:23	SS
106-43-4	4-Chlorotoluene	ND	U	mg/kg dry	0.0027	0.0053	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 15:23	SS
67-64-1	Acetone	ND	U	mg/kg dry	0.0027	0.011	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 15:23	SS
71-43-2	Benzene	ND	U	mg/kg dry	0.0027	0.0053	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 15:23	SS
108-86-1	Bromobenzene	ND	U	mg/kg dry	0.0027	0.0053	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 15:23	SS
74-97-5	Bromochloromethane	ND	U	mg/kg dry	0.0027	0.0053	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 15:23	SS
75-27-4	Bromodichloromethane	ND	U	mg/kg dry	0.0027	0.0053	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 15:23	SS
75-25-2	Bromoform	ND	U	mg/kg dry	0.0027	0.0053	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 15:23	SS
74-83-9	Bromomethane	ND	U	mg/kg dry	0.0027	0.0053	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 15:23	SS
56-23-5	Carbon tetrachloride	ND	U	mg/kg dry	0.0027	0.0053	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 15:23	SS

Sample Information

Client Sample ID: LG-20 (0-2) **York Sample ID:** 13E0744-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0744	170246501	Soil	May 21, 2013 11:44 am	05/22/2013

Volatile Organics, 8260 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-90-7	Chlorobenzene	ND	U	mg/kg dry	0.0027	0.0053	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 15:23	SS
75-00-3	Chloroethane	ND	U	mg/kg dry	0.0027	0.0053	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 15:23	SS
67-66-3	Chloroform	ND	U	mg/kg dry	0.0027	0.0053	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 15:23	SS
74-87-3	Chloromethane	ND	U	mg/kg dry	0.0027	0.0053	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 15:23	SS
156-59-2	cis-1,2-Dichloroethylene	ND	U	mg/kg dry	0.0027	0.0053	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 15:23	SS
10061-01-5	cis-1,3-Dichloropropylene	ND	U	mg/kg dry	0.0027	0.0053	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 15:23	SS
124-48-1	Dibromochloromethane	ND	U	mg/kg dry	0.0027	0.0053	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 15:23	SS
74-95-3	Dibromomethane	ND	U	mg/kg dry	0.0027	0.0053	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 15:23	SS
75-71-8	Dichlorodifluoromethane	ND	U	mg/kg dry	0.0027	0.0053	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 15:23	SS
100-41-4	Ethyl Benzene	ND	U	mg/kg dry	0.0027	0.0053	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 15:23	SS
87-68-3	Hexachlorobutadiene	ND	U	mg/kg dry	0.0027	0.0053	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 15:23	SS
98-82-8	Isopropylbenzene	ND	U	mg/kg dry	0.0027	0.0053	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 15:23	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND	U	mg/kg dry	0.0027	0.0053	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 15:23	SS
75-09-2	Methylene chloride	**0.0058**	J	mg/kg dry	0.0027	0.011	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 15:23	SS
91-20-3	Naphthalene	ND	U	mg/kg dry	0.0027	0.011	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 15:23	SS
104-51-8	n-Butylbenzene	ND	U	mg/kg dry	0.0027	0.0053	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 15:23	SS
103-65-1	n-Propylbenzene	ND	U	mg/kg dry	0.0027	0.0053	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 15:23	SS
95-47-6	o-Xylene	ND	U	mg/kg dry	0.0027	0.0053	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 15:23	SS
179601-23-1	p- & m- Xylenes	ND	U	mg/kg dry	0.0053	0.011	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 15:23	SS
99-87-6	p-Isopropyltoluene	ND	U	mg/kg dry	0.0027	0.0053	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 15:23	SS
135-98-8	sec-Butylbenzene	ND	U	mg/kg dry	0.0027	0.0053	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 15:23	SS
100-42-5	Styrene	ND	U	mg/kg dry	0.0027	0.0053	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 15:23	SS
98-06-6	tert-Butylbenzene	ND	U	mg/kg dry	0.0027	0.0053	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 15:23	SS
127-18-4	Tetrachloroethylene	ND	U	mg/kg dry	0.0027	0.0053	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 15:23	SS
108-88-3	Toluene	ND	U	mg/kg dry	0.0027	0.0053	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 15:23	SS
156-60-5	trans-1,2-Dichloroethylene	ND	U	mg/kg dry	0.0027	0.0053	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 15:23	SS
10061-02-6	trans-1,3-Dichloropropylene	ND	U	mg/kg dry	0.0027	0.0053	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 15:23	SS
79-01-6	Trichloroethylene	ND	U	mg/kg dry	0.0027	0.0053	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 15:23	SS
75-69-4	Trichlorofluoromethane	ND	U	mg/kg dry	0.0027	0.0053	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 15:23	SS
75-01-4	Vinyl Chloride	ND	U	mg/kg dry	0.0027	0.0053	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 15:23	SS
1330-20-7	Xylenes, Total	ND	U	mg/kg dry	0.0080	0.016	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 15:23	SS
108-05-4	Vinyl acetate	ND	U	mg/kg dry	0.0027	0.0053	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 15:23	SS

Sample Information

Client Sample ID: LG-20 (0-2) **York Sample ID:** 13E0744-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0744	170246501	Soil	May 21, 2013 11:44 am	05/22/2013

Volatile Organics, 8260 List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate Recoveries	**Result**		**Acceptance Range**							
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*113 %*		*73-130*							
460-00-4	*Surrogate: p-Bromofluorobenzene*	*126 %*		*72-127*							
2037-26-5	*Surrogate: Toluene-d8*	*104 %*		*84-117*							

Semi-Volatiles, 8270 Target List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND	U	mg/kg dry	0.0663	0.183	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 19:00	SR
208-96-8	Acenaphthylene	ND	U	mg/kg dry	0.0879	0.183	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 19:00	SR
62-53-3	Aniline	ND	U	mg/kg dry	0.105	0.183	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 19:00	SR
120-12-7	Anthracene	ND	U	mg/kg dry	0.100	0.183	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 19:00	SR
56-55-3	Benzo(a)anthracene	ND	U	mg/kg dry	0.0685	0.183	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 19:00	SR
50-32-8	Benzo(a)pyrene	ND	U	mg/kg dry	0.0725	0.183	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 19:00	SR
205-99-2	Benzo(b)fluoranthene	ND	U	mg/kg dry	0.153	0.183	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 19:00	SR
191-24-2	Benzo(g,h,i)perylene	ND	U	mg/kg dry	0.0608	0.183	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 19:00	SR
100-51-6	Benzyl alcohol	ND	U	mg/kg dry	0.183	0.183	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 19:00	SR
207-08-9	Benzo(k)fluoranthene	ND	U	mg/kg dry	0.183	0.183	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 19:00	SR
85-68-7	Benzyl butyl phthalate	ND	U	mg/kg dry	0.101	0.183	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 19:00	SR
101-55-3	4-Bromophenyl phenyl ether	ND	U	mg/kg dry	0.0883	0.183	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 19:00	SR
59-50-7	4-Chloro-3-methylphenol	ND	U	mg/kg dry	0.123	0.183	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 19:00	SR
106-47-8	4-Chloroaniline	ND	U	mg/kg dry	0.0476	0.183	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 19:00	SR
111-91-1	Bis(2-chloroethoxy)methane	ND	U	mg/kg dry	0.0630	0.183	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 19:00	SR
111-44-4	Bis(2-chloroethyl)ether	ND	U	mg/kg dry	0.0934	0.183	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 19:00	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND	U	mg/kg dry	0.0645	0.183	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 19:00	SR
117-81-7	Bis(2-ethylhexyl)phthalate	ND	U	mg/kg dry	0.126	0.183	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 19:00	SR
91-58-7	2-Chloronaphthalene	ND	U	mg/kg dry	0.0989	0.183	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 19:00	SR
95-57-8	2-Chlorophenol	ND	U	mg/kg dry	0.0604	0.183	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 19:00	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND	U	mg/kg dry	0.107	0.183	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 19:00	SR
218-01-9	Chrysene	ND	U	mg/kg dry	0.0843	0.183	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 19:00	SR
53-70-3	Dibenzo(a,h)anthracene	ND	U	mg/kg dry	0.0736	0.183	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 19:00	SR
132-64-9	Dibenzofuran	ND	U	mg/kg dry	0.0854	0.183	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 19:00	SR
84-74-2	Di-n-butyl phthalate	ND	U	mg/kg dry	0.0744	0.183	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 19:00	SR
95-50-1	1,2-Dichlorobenzene	ND	U	mg/kg dry	0.120	0.183	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 19:00	SR

Sample Information

Client Sample ID: LG-20 (0-2) **York Sample ID:** 13E0744-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0744	170246501	Soil	May 21, 2013 11:44 am	05/22/2013

Semi-Volatiles, 8270 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
106-46-7	1,4-Dichlorobenzene	ND	U	mg/kg dry	0.113	0.183	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 19:00	SR
541-73-1	1,3-Dichlorobenzene	ND	U	mg/kg dry	0.0579	0.183	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 19:00	SR
91-94-1	3,3'-Dichlorobenzidine	ND	U	mg/kg dry	0.0960	0.183	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 19:00	SR
120-83-2	2,4-Dichlorophenol	ND	U	mg/kg dry	0.149	0.183	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 19:00	SR
84-66-2	Diethyl phthalate	ND	U	mg/kg dry	0.115	0.183	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 19:00	SR
105-67-9	2,4-Dimethylphenol	ND	U	mg/kg dry	0.128	0.183	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 19:00	SR
131-11-3	Dimethyl phthalate	ND	U	mg/kg dry	0.0817	0.183	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 19:00	SR
88-74-4	2-Nitroaniline	ND	U	mg/kg dry	0.160	0.183	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 19:00	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND	U	mg/kg dry	0.231	0.366	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 19:00	SR
51-28-5	2,4-Dinitrophenol	ND	U	mg/kg dry	0.154	0.366	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 19:00	SR
606-20-2	2,6-Dinitrotoluene	ND	U	mg/kg dry	0.0941	0.183	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 19:00	SR
121-14-2	2,4-Dinitrotoluene	ND	U	mg/kg dry	0.0810	0.183	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 19:00	SR
117-84-0	Di-n-octyl phthalate	ND	U	mg/kg dry	0.183	0.183	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 19:00	SR
206-44-0	Fluoranthene	ND	U	mg/kg dry	0.107	0.183	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 19:00	SR
86-73-7	Fluorene	ND	U	mg/kg dry	0.0879	0.183	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 19:00	SR
118-74-1	Hexachlorobenzene	ND	U	mg/kg dry	0.108	0.183	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 19:00	SR
87-68-3	Hexachlorobutadiene	ND	U	mg/kg dry	0.0619	0.183	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 19:00	SR
77-47-4	Hexachlorocyclopentadiene	ND	U	mg/kg dry	0.136	0.183	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 19:00	SR
67-72-1	Hexachloroethane	ND	U	mg/kg dry	0.0524	0.183	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 19:00	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND	U	mg/kg dry	0.0835	0.183	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 19:00	SR
78-59-1	Isophorone	ND	U	mg/kg dry	0.0630	0.183	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 19:00	SR
91-57-6	2-Methylnaphthalene	ND	U	mg/kg dry	0.141	0.183	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 19:00	SR
95-48-7	2-Methylphenol	ND	U	mg/kg dry	0.0696	0.183	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 19:00	SR
65794-96-9	3- & 4-Methylphenols	ND	U	mg/kg dry	0.0795	0.183	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 19:00	SR
91-20-3	Naphthalene	ND	U	mg/kg dry	0.0451	0.183	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 19:00	SR
99-09-2	3-Nitroaniline	ND	U	mg/kg dry	0.182	0.183	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 19:00	SR
100-01-6	4-Nitroaniline	ND	U	mg/kg dry	0.0758	0.183	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 19:00	SR
98-95-3	Nitrobenzene	ND	U	mg/kg dry	0.0538	0.183	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 19:00	SR
100-02-7	4-Nitrophenol	ND	U	mg/kg dry	0.0689	0.183	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 19:00	SR
88-75-5	2-Nitrophenol	ND	U	mg/kg dry	0.0498	0.183	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 19:00	SR
621-64-7	N-nitroso-di-n-propylamine	ND	U	mg/kg dry	0.0612	0.183	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 19:00	SR
62-75-9	N-Nitrosodimethylamine	ND	U	mg/kg dry	0.0751	0.183	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 19:00	SR

Sample Information

Client Sample ID: LG-20 (0-2) **York Sample ID:** 13E0744-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0744	170246501	Soil	May 21, 2013 11:44 am	05/22/2013

Semi-Volatiles, 8270 Target List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
86-30-6	N-Nitrosodiphenylamine	ND	U	mg/kg dry	0.0828	0.183	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 19:00	SR
87-86-5	Pentachlorophenol	ND	U	mg/kg dry	0.138	0.183	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 19:00	SR
85-01-8	Phenanthrene	ND	U	mg/kg dry	0.0956	0.183	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 19:00	SR
108-95-2	Phenol	ND	U	mg/kg dry	0.0791	0.183	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 19:00	SR
129-00-0	Pyrene	ND	U	mg/kg dry	0.0747	0.183	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 19:00	SR
110-86-1	Pyridine	ND	U	mg/kg dry	0.129	0.183	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 19:00	SR
120-82-1	1,2,4-Trichlorobenzene	ND	U	mg/kg dry	0.0663	0.183	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 19:00	SR
95-95-4	2,4,5-Trichlorophenol	ND	U	mg/kg dry	0.142	0.183	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 19:00	SR
88-06-2	2,4,6-Trichlorophenol	ND	U	mg/kg dry	0.0930	0.183	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 19:00	SR

	Surrogate Recoveries	Result	Acceptance Range
5175-83-7	*Surrogate: 2,4,6-Tribromophenol*	*62.9 %*	*15-110*
321-60-8	*Surrogate: 2-Fluorobiphenyl*	*53.7 %*	*30-130*
367-12-4	*Surrogate: 2-Fluorophenol*	*52.2 %*	*15-110*
4165-60-0	*Surrogate: Nitrobenzene-d5*	*54.4 %*	*30-130*
4165-62-2	*Surrogate: Phenol-d5*	*53.2 %*	*15-110*
1718-51-0	*Surrogate: Terphenyl-d14*	*50.4 %*	*30-130*

Pesticides/PCBs, EPA 8081/8082 List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
8001-35-2	Toxaphene	ND	U	mg/kg dry	0.0918	0.0918	5	EPA SW 846-8081/8082	05/24/2013 08:59	05/28/2013 14:02	JW
72-43-5	Methoxychlor	ND	U	mg/kg dry	0.00907	0.00907	5	EPA SW 846-8081/8082	05/24/2013 08:59	05/28/2013 14:02	JW
1024-57-3	Heptachlor epoxide	ND	U	mg/kg dry	0.00181	0.00181	5	EPA SW 846-8081/8082	05/24/2013 08:59	05/28/2013 14:02	JW
76-44-8	Heptachlor	ND	U	mg/kg dry	0.00181	0.00181	5	EPA SW 846-8081/8082	05/24/2013 08:59	05/28/2013 14:02	JW
58-89-9	gamma-BHC (Lindane)	ND	U	mg/kg dry	0.00181	0.00181	5	EPA SW 846-8081/8082	05/24/2013 08:59	05/28/2013 14:02	JW
53494-70-5	Endrin ketone	ND	U	mg/kg dry	0.00181	0.00181	5	EPA SW 846-8081/8082	05/24/2013 08:59	05/28/2013 14:02	JW
7421-93-4	Endrin aldehyde	ND	U	mg/kg dry	0.00181	0.00181	5	EPA SW 846-8081/8082	05/24/2013 08:59	05/28/2013 14:02	JW
72-20-8	Endrin	ND	U	mg/kg dry	0.00181	0.00181	5	EPA SW 846-8081/8082	05/24/2013 08:59	05/28/2013 14:02	JW
1031-07-8	Endosulfan sulfate	ND	U	mg/kg dry	0.00181	0.00181	5	EPA SW 846-8081/8082	05/24/2013 08:59	05/28/2013 14:02	JW
33213-65-9	Endosulfan II	ND	U	mg/kg dry	0.00181	0.00181	5	EPA SW 846-8081/8082	05/24/2013 08:59	05/28/2013 14:02	JW
959-98-8	Endosulfan I	ND	U	mg/kg dry	0.00181	0.00181	5	EPA SW 846-8081/8082	05/24/2013 08:59	05/28/2013 14:02	JW
60-57-1	Dieldrin	ND	U	mg/kg dry	0.00181	0.00181	5	EPA SW 846-8081/8082	05/24/2013 08:59	05/28/2013 14:02	JW
319-86-8	delta-BHC	ND	U	mg/kg dry	0.00181	0.00181	5	EPA SW 846-8081/8082	05/24/2013 08:59	05/28/2013 14:02	JW
57-74-9	Chlordane, total	ND	U	mg/kg dry	0.00725	0.00725	5	EPA SW 846-8081/8082	05/24/2013 08:59	05/28/2013 14:02	JW

Sample Information

Client Sample ID: LG-20 (0-2) **York Sample ID:** 13E0744-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0744	170246501	Soil	May 21, 2013 11:44 am	05/22/2013

Pesticides/PCBs, EPA 8081/8082 List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
319-85-7	beta-BHC	ND	U	mg/kg dry	0.00181	0.00181	5	EPA SW 846-8081/8082	05/24/2013 08:59	05/28/2013 14:02	JW
319-84-6	alpha-BHC	ND	U	mg/kg dry	0.00181	0.00181	5	EPA SW 846-8081/8082	05/24/2013 08:59	05/28/2013 14:02	JW
309-00-2	Aldrin	ND	U	mg/kg dry	0.00181	0.00181	5	EPA SW 846-8081/8082	05/24/2013 08:59	05/28/2013 14:02	JW
50-29-3	4,4'-DDT	ND	U	mg/kg dry	0.00181	0.00181	5	EPA SW 846-8081/8082	05/24/2013 08:59	05/28/2013 14:02	JW
72-55-9	4,4'-DDE	ND	U	mg/kg dry	0.00181	0.00181	5	EPA SW 846-8081/8082	05/24/2013 08:59	05/28/2013 14:02	JW
72-54-8	4,4'-DDD	ND	U	mg/kg dry	0.00181	0.00181	5	EPA SW 846-8081/8082	05/24/2013 08:59	05/28/2013 14:02	JW
11096-82-5	Aroclor 1260	ND	U	mg/kg dry	0.0187	0.0187	1	EPA SW 846-8081/8082	05/24/2013 08:59	05/28/2013 12:25	JW
11097-69-1	Aroclor 1254	ND	U	mg/kg dry	0.0187	0.0187	1	EPA SW 846-8081/8082	05/24/2013 08:59	05/28/2013 12:25	JW
12672-29-6	Aroclor 1248	ND	U	mg/kg dry	0.0187	0.0187	1	EPA SW 846-8081/8082	05/24/2013 08:59	05/28/2013 12:25	JW
53469-21-9	Aroclor 1242	ND	U	mg/kg dry	0.0187	0.0187	1	EPA SW 846-8081/8082	05/24/2013 08:59	05/28/2013 12:25	JW
11141-16-5	Aroclor 1232	ND	U	mg/kg dry	0.0187	0.0187	1	EPA SW 846-8081/8082	05/24/2013 08:59	05/28/2013 12:25	JW
11104-28-2	Aroclor 1221	ND	U	mg/kg dry	0.0187	0.0187	1	EPA SW 846-8081/8082	05/24/2013 08:59	05/28/2013 12:25	JW
12674-11-2	Aroclor 1016	ND	U	mg/kg dry	0.0187	0.0187	1	EPA SW 846-8081/8082	05/24/2013 08:59	05/28/2013 12:25	JW
1336-36-3	Total PCBs	ND	U	mg/kg dry	0.00747	0.0187	1	EPA SW 846-8081/8082	05/24/2013 08:59	05/28/2013 12:25	JW

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*45.9 %*	*30-150*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*40.9 %*	*30-150*

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	**14800**		mg/kg dry	1.12	2.20	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 20:42	MW
7440-36-0	Antimony	ND	U	mg/kg dry	0.242	0.549	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 20:42	MW
7440-38-2	Arsenic	**3.14**		mg/kg dry	0.374	1.10	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 20:42	MW
7440-39-3	Barium	**81.6**		mg/kg dry	0.143	0.549	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 20:42	MW
7440-41-7	Beryllium	ND	U	mg/kg dry	0.110	0.110	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 20:42	MW
7440-43-9	Cadmium	ND	U	mg/kg dry	0.110	0.549	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 20:42	MW
7440-70-2	Calcium	**1120**		mg/kg dry	0.044	5.49	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 20:42	MW
7440-47-3	Chromium	**31.7**		mg/kg dry	0.132	0.549	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 20:42	MW
7440-48-4	Cobalt	**9.83**		mg/kg dry	0.088	0.549	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 20:42	MW
7440-50-8	Copper	**22.1**		mg/kg dry	0.132	0.549	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 20:42	MW
7439-89-6	Iron	**20100**		mg/kg dry	0.714	2.20	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 20:42	MW
7439-92-1	Lead	**6.44**		mg/kg dry	0.187	0.330	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 20:42	MW
7439-95-4	Magnesium	**4670**		mg/kg dry	0.495	5.49	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 20:42	MW
7439-96-5	Manganese	**417**		mg/kg dry	0.121	1.10	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 20:42	MW

Sample Information

Client Sample ID: LG-20 (0-2) **York Sample ID:** 13E0744-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0744	170246501	Soil	May 21, 2013 11:44 am	05/22/2013

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-02-0	Nickel	**25.1**		mg/kg dry	0.143	0.549	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 20:42	MW
7440-09-7	Potassium	**1720**		mg/kg dry	3.71	11.0	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 20:42	MW
7782-49-2	Selenium	ND	U	mg/kg dry	0.549	0.549	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 20:42	MW
7440-22-4	Silver	ND	U	mg/kg dry	0.110	0.549	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 20:42	MW
7440-23-5	Sodium	**151**	B	mg/kg dry	5.79	11.0	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 20:42	MW
7440-28-0	Thallium	ND	U	mg/kg dry	0.352	0.549	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 20:42	MW
7440-62-2	Vanadium	**33.5**		mg/kg dry	0.121	0.549	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 20:42	MW
7440-66-6	Zinc	**43.1**		mg/kg dry	0.099	0.549	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 20:42	MW

Mercury by 7470/7471

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-7471

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND	U	mg/kg dry	0.0363	0.0363	1	EPA SW846-7471	05/24/2013 10:58	05/24/2013 18:33	AA

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	**91.0**		%	0.100	0.100	1	SM 2540G	05/23/2013 09:08	05/23/2013 12:26	AMC

Sample Information

Client Sample ID: LG-20 (22-24) **York Sample ID:** 13E0744-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0744	170246501	Soil	May 21, 2013 12:01 pm	05/22/2013

Volatile Organics, 8260 List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND	U	mg/kg dry	0.0026	0.0052	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 16:04	SS
71-55-6	1,1,1-Trichloroethane	ND	U	mg/kg dry	0.0026	0.0052	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 16:04	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND	U	mg/kg dry	0.0026	0.0052	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 16:04	SS
76-13-1	,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113	ND	U	mg/kg dry	0.0026	0.0052	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 16:04	SS
79-00-5	1,1,2-Trichloroethane	ND	U	mg/kg dry	0.0026	0.0052	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 16:04	SS
75-34-3	1,1-Dichloroethane	ND	U	mg/kg dry	0.0026	0.0052	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 16:04	SS
75-35-4	1,1-Dichloroethylene	ND	U	mg/kg dry	0.0026	0.0052	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 16:04	SS
563-58-6	1,1-Dichloropropylene	ND	U	mg/kg dry	0.0026	0.0052	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 16:04	SS

Sample Information

Client Sample ID: LG-20 (22-24) **York Sample ID:** 13E0744-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0744	170246501	Soil	May 21, 2013 12:01 pm	05/22/2013

Volatile Organics, 8260 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
87-61-6	1,2,3-Trichlorobenzene	ND	U	mg/kg dry	0.0026	0.0052	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 16:04	SS
96-18-4	1,2,3-Trichloropropane	ND	U	mg/kg dry	0.0026	0.0052	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 16:04	SS
120-82-1	1,2,4-Trichlorobenzene	ND	U	mg/kg dry	0.0026	0.0052	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 16:04	SS
95-63-6	1,2,4-Trimethylbenzene	ND	U	mg/kg dry	0.0026	0.0052	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 16:04	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND	U	mg/kg dry	0.0026	0.0052	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 16:04	SS
106-93-4	1,2-Dibromoethane	ND	U	mg/kg dry	0.0026	0.0052	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 16:04	SS
95-50-1	1,2-Dichlorobenzene	ND	U	mg/kg dry	0.0026	0.0052	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 16:04	SS
107-06-2	1,2-Dichloroethane	ND	U	mg/kg dry	0.0026	0.0052	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 16:04	SS
78-87-5	1,2-Dichloropropane	ND	U	mg/kg dry	0.0026	0.0052	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 16:04	SS
108-67-8	1,3,5-Trimethylbenzene	ND	U	mg/kg dry	0.0026	0.0052	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 16:04	SS
541-73-1	1,3-Dichlorobenzene	ND	U	mg/kg dry	0.0026	0.0052	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 16:04	SS
142-28-9	1,3-Dichloropropane	ND	U	mg/kg dry	0.0026	0.0052	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 16:04	SS
106-46-7	1,4-Dichlorobenzene	ND	U	mg/kg dry	0.0026	0.0052	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 16:04	SS
123-91-1	1,4-Dioxane	ND	U	mg/kg dry	0.052	0.10	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 16:04	SS
594-20-7	2,2-Dichloropropane	ND	U	mg/kg dry	0.0026	0.0052	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 16:04	SS
78-93-3	2-Butanone	ND	U	mg/kg dry	0.0026	0.0052	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 16:04	SS
95-49-8	2-Chlorotoluene	ND	U	mg/kg dry	0.0026	0.0052	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 16:04	SS
106-43-4	4-Chlorotoluene	ND	U	mg/kg dry	0.0026	0.0052	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 16:04	SS
67-64-1	Acetone	**0.0042**	J, B	mg/kg dry	0.0026	0.010	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 16:04	SS
71-43-2	Benzene	ND	U	mg/kg dry	0.0026	0.0052	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 16:04	SS
108-86-1	Bromobenzene	ND	U	mg/kg dry	0.0026	0.0052	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 16:04	SS
74-97-5	Bromochloromethane	ND	U	mg/kg dry	0.0026	0.0052	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 16:04	SS
75-27-4	Bromodichloromethane	ND	U	mg/kg dry	0.0026	0.0052	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 16:04	SS
75-25-2	Bromoform	ND	U	mg/kg dry	0.0026	0.0052	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 16:04	SS
74-83-9	Bromomethane	ND	U	mg/kg dry	0.0026	0.0052	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 16:04	SS
56-23-5	Carbon tetrachloride	ND	U	mg/kg dry	0.0026	0.0052	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 16:04	SS
108-90-7	Chlorobenzene	ND	U	mg/kg dry	0.0026	0.0052	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 16:04	SS
75-00-3	Chloroethane	ND	U	mg/kg dry	0.0026	0.0052	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 16:04	SS
67-66-3	Chloroform	ND	U	mg/kg dry	0.0026	0.0052	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 16:04	SS
74-87-3	Chloromethane	ND	U	mg/kg dry	0.0026	0.0052	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 16:04	SS
156-59-2	cis-1,2-Dichloroethylene	ND	U	mg/kg dry	0.0026	0.0052	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 16:04	SS
10061-01-5	cis-1,3-Dichloropropylene	ND	U	mg/kg dry	0.0026	0.0052	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 16:04	SS

Sample Information

Client Sample ID: LG-20 (22-24) **York Sample ID:** 13E0744-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0744	170246501	Soil	May 21, 2013 12:01 pm	05/22/2013

Volatile Organics, 8260 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
124-48-1	Dibromochloromethane	ND	U	mg/kg dry	0.0026	0.0052	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 16:04	SS
74-95-3	Dibromomethane	ND	U	mg/kg dry	0.0026	0.0052	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 16:04	SS
75-71-8	Dichlorodifluoromethane	ND	U	mg/kg dry	0.0026	0.0052	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 16:04	SS
100-41-4	Ethyl Benzene	ND	U	mg/kg dry	0.0026	0.0052	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 16:04	SS
87-68-3	Hexachlorobutadiene	ND	U	mg/kg dry	0.0026	0.0052	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 16:04	SS
98-82-8	Isopropylbenzene	ND	U	mg/kg dry	0.0026	0.0052	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 16:04	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND	U	mg/kg dry	0.0026	0.0052	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 16:04	SS
75-09-2	Methylene chloride	**0.0058**	J	mg/kg dry	0.0026	0.010	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 16:04	SS
91-20-3	Naphthalene	ND	U	mg/kg dry	0.0026	0.010	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 16:04	SS
104-51-8	n-Butylbenzene	ND	U	mg/kg dry	0.0026	0.0052	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 16:04	SS
103-65-1	n-Propylbenzene	ND	U	mg/kg dry	0.0026	0.0052	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 16:04	SS
95-47-6	o-Xylene	ND	U	mg/kg dry	0.0026	0.0052	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 16:04	SS
179601-23-1	p- & m- Xylenes	ND	U	mg/kg dry	0.0052	0.010	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 16:04	SS
99-87-6	p-Isopropyltoluene	ND	U	mg/kg dry	0.0026	0.0052	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 16:04	SS
135-98-8	sec-Butylbenzene	ND	U	mg/kg dry	0.0026	0.0052	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 16:04	SS
100-42-5	Styrene	ND	U	mg/kg dry	0.0026	0.0052	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 16:04	SS
98-06-6	tert-Butylbenzene	ND	U	mg/kg dry	0.0026	0.0052	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 16:04	SS
127-18-4	Tetrachloroethylene	ND	U	mg/kg dry	0.0026	0.0052	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 16:04	SS
108-88-3	Toluene	ND	U	mg/kg dry	0.0026	0.0052	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 16:04	SS
156-60-5	trans-1,2-Dichloroethylene	ND	U	mg/kg dry	0.0026	0.0052	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 16:04	SS
10061-02-6	trans-1,3-Dichloropropylene	ND	U	mg/kg dry	0.0026	0.0052	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 16:04	SS
79-01-6	Trichloroethylene	ND	U	mg/kg dry	0.0026	0.0052	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 16:04	SS
75-69-4	Trichlorofluoromethane	ND	U	mg/kg dry	0.0026	0.0052	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 16:04	SS
75-01-4	Vinyl Chloride	ND	U	mg/kg dry	0.0026	0.0052	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 16:04	SS
1330-20-7	Xylenes, Total	ND	U	mg/kg dry	0.0078	0.016	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 16:04	SS
108-05-4	Vinyl acetate	ND	U	mg/kg dry	0.0026	0.0052	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 16:04	SS

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*112 %*	*73-130*
460-00-4	*Surrogate: p-Bromofluorobenzene*	*114 %*	*72-127*
2037-26-5	*Surrogate: Toluene-d8*	*102 %*	*84-117*

Sample Information

Client Sample ID: LG-20 (22-24) **York Sample ID:** 13E0744-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0744	170246501	Soil	May 21, 2013 12:01 pm	05/22/2013

Semi-Volatiles, 8270 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND	U	mg/kg dry	0.0699	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 19:30	SR
208-96-8	Acenaphthylene	ND	U	mg/kg dry	0.0927	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 19:30	SR
62-53-3	Aniline	ND	U	mg/kg dry	0.110	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 19:30	SR
120-12-7	Anthracene	**0.110**	J	mg/kg dry	0.105	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 19:30	SR
56-55-3	Benzo(a)anthracene	**0.159**	J	mg/kg dry	0.0722	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 19:30	SR
50-32-8	Benzo(a)pyrene	**0.158**	J	mg/kg dry	0.0765	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 19:30	SR
205-99-2	Benzo(b)fluoranthene	ND	U	mg/kg dry	0.162	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 19:30	SR
191-24-2	Benzo(g,h,i)perylene	**0.0857**	J	mg/kg dry	0.0641	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 19:30	SR
100-51-6	Benzyl alcohol	ND	U	mg/kg dry	0.193	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 19:30	SR
207-08-9	Benzo(k)fluoranthene	ND	U	mg/kg dry	0.193	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 19:30	SR
85-68-7	Benzyl butyl phthalate	ND	U	mg/kg dry	0.107	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 19:30	SR
101-55-3	4-Bromophenyl phenyl ether	ND	U	mg/kg dry	0.0931	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 19:30	SR
59-50-7	4-Chloro-3-methylphenol	ND	U	mg/kg dry	0.130	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 19:30	SR
106-47-8	4-Chloroaniline	ND	U	mg/kg dry	0.0502	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 19:30	SR
111-91-1	Bis(2-chloroethoxy)methane	ND	U	mg/kg dry	0.0664	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 19:30	SR
111-44-4	Bis(2-chloroethyl)ether	ND	U	mg/kg dry	0.0985	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 19:30	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND	U	mg/kg dry	0.0680	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 19:30	SR
117-81-7	Bis(2-ethylhexyl)phthalate	ND	U	mg/kg dry	0.133	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 19:30	SR
91-58-7	2-Chloronaphthalene	ND	U	mg/kg dry	0.104	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 19:30	SR
95-57-8	2-Chlorophenol	ND	U	mg/kg dry	0.0637	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 19:30	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND	U	mg/kg dry	0.113	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 19:30	SR
218-01-9	Chrysene	**0.155**	J	mg/kg dry	0.0888	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 19:30	SR
53-70-3	Dibenzo(a,h)anthracene	ND	U	mg/kg dry	0.0776	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 19:30	SR
132-64-9	Dibenzofuran	ND	U	mg/kg dry	0.0900	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 19:30	SR
84-74-2	Di-n-butyl phthalate	ND	U	mg/kg dry	0.0784	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 19:30	SR
95-50-1	1,2-Dichlorobenzene	ND	U	mg/kg dry	0.126	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 19:30	SR
106-46-7	1,4-Dichlorobenzene	ND	U	mg/kg dry	0.119	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 19:30	SR
541-73-1	1,3-Dichlorobenzene	ND	U	mg/kg dry	0.0610	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 19:30	SR
91-94-1	3,3'-Dichlorobenzidine	ND	U	mg/kg dry	0.101	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 19:30	SR
120-83-2	2,4-Dichlorophenol	ND	U	mg/kg dry	0.158	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 19:30	SR
84-66-2	Diethyl phthalate	ND	U	mg/kg dry	0.121	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 19:30	SR
105-67-9	2,4-Dimethylphenol	ND	U	mg/kg dry	0.135	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 19:30	SR

Sample Information

Client Sample ID: LG-20 (22-24) **York Sample ID:** 13E0744-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0744	170246501	Soil	May 21, 2013 12:01 pm	05/22/2013

Semi-Volatiles, 8270 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
131-11-3	Dimethyl phthalate	ND	U	mg/kg dry	0.0861	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 19:30	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND	U	mg/kg dry	0.243	0.386	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 19:30	SR
88-74-4	2-Nitroaniline	ND	U	mg/kg dry	0.168	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 19:30	SR
51-28-5	2,4-Dinitrophenol	ND	U	mg/kg dry	0.162	0.386	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 19:30	SR
606-20-2	2,6-Dinitrotoluene	ND	U	mg/kg dry	0.0993	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 19:30	SR
121-14-2	2,4-Dinitrotoluene	ND	U	mg/kg dry	0.0854	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 19:30	SR
117-84-0	Di-n-octyl phthalate	ND	U	mg/kg dry	0.193	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 19:30	SR
206-44-0	Fluoranthene	**0.390**		mg/kg dry	0.113	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 19:30	SR
86-73-7	Fluorene	ND	U	mg/kg dry	0.0927	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 19:30	SR
118-74-1	Hexachlorobenzene	ND	U	mg/kg dry	0.114	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 19:30	SR
87-68-3	Hexachlorobutadiene	ND	U	mg/kg dry	0.0653	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 19:30	SR
77-47-4	Hexachlorocyclopentadiene	ND	U	mg/kg dry	0.144	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 19:30	SR
67-72-1	Hexachloroethane	ND	U	mg/kg dry	0.0552	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 19:30	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND	U	mg/kg dry	0.0881	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 19:30	SR
78-59-1	Isophorone	ND	U	mg/kg dry	0.0664	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 19:30	SR
91-57-6	2-Methylnaphthalene	ND	U	mg/kg dry	0.148	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 19:30	SR
95-48-7	2-Methylphenol	ND	U	mg/kg dry	0.0734	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 19:30	SR
65794-96-9	3- & 4-Methylphenols	ND	U	mg/kg dry	0.0838	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 19:30	SR
91-20-3	Naphthalene	ND	U	mg/kg dry	0.0475	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 19:30	SR
99-09-2	3-Nitroaniline	ND	U	mg/kg dry	0.192	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 19:30	SR
100-01-6	4-Nitroaniline	ND	U	mg/kg dry	0.0800	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 19:30	SR
98-95-3	Nitrobenzene	ND	U	mg/kg dry	0.0568	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 19:30	SR
100-02-7	4-Nitrophenol	ND	U	mg/kg dry	0.0726	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 19:30	SR
88-75-5	2-Nitrophenol	ND	U	mg/kg dry	0.0525	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 19:30	SR
621-64-7	N-nitroso-di-n-propylamine	ND	U	mg/kg dry	0.0645	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 19:30	SR
62-75-9	N-Nitrosodimethylamine	ND	U	mg/kg dry	0.0792	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 19:30	SR
86-30-6	N-Nitrosodiphenylamine	ND	U	mg/kg dry	0.0873	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 19:30	SR
87-86-5	Pentachlorophenol	ND	U	mg/kg dry	0.146	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 19:30	SR
85-01-8	Phenanthrene	**0.390**		mg/kg dry	0.101	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 19:30	SR
108-95-2	Phenol	ND	U	mg/kg dry	0.0834	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 19:30	SR
129-00-0	Pyrene	**0.244**		mg/kg dry	0.0788	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 19:30	SR
110-86-1	Pyridine	ND	U	mg/kg dry	0.136	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 19:30	SR

Sample Information

Client Sample ID: LG-20 (22-24) **York Sample ID:** 13E0744-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0744	170246501	Soil	May 21, 2013 12:01 pm	05/22/2013

Semi-Volatiles, 8270 Target List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
120-82-1	1,2,4-Trichlorobenzene	ND	U	mg/kg dry	0.0699	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 19:30	SR
95-95-4	2,4,5-Trichlorophenol	ND	U	mg/kg dry	0.150	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 19:30	SR
88-06-2	2,4,6-Trichlorophenol	ND	U	mg/kg dry	0.0981	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 19:30	SR

	Surrogate Recoveries	Result	Acceptance Range
5175-83-7	*Surrogate: 2,4,6-Tribromophenol*	*72.8 %*	*15-110*
321-60-8	*Surrogate: 2-Fluorobiphenyl*	*53.4 %*	*30-130*
367-12-4	*Surrogate: 2-Fluorophenol*	*56.5 %*	*15-110*
4165-60-0	*Surrogate: Nitrobenzene-d5*	*58.6 %*	*30-130*
4165-62-2	*Surrogate: Phenol-d5*	*61.5 %*	*15-110*
1718-51-0	*Surrogate: Terphenyl-d14*	*50.3 %*	*30-130*

Polychlorinated Biphenyls (PCB)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0197	0.0197	1	EPA SW 846-8082A	05/24/2013 06:50	05/28/2013 12:54	JW
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0197	0.0197	1	EPA SW 846-8082A	05/24/2013 06:50	05/28/2013 12:54	JW
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0197	0.0197	1	EPA SW 846-8082A	05/24/2013 06:50	05/28/2013 12:54	JW
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0197	0.0197	1	EPA SW 846-8082A	05/24/2013 06:50	05/28/2013 12:54	JW
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0197	0.0197	1	EPA SW 846-8082A	05/24/2013 06:50	05/28/2013 12:54	JW
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0197	0.0197	1	EPA SW 846-8082A	05/24/2013 06:50	05/28/2013 12:54	JW
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0197	0.0197	1	EPA SW 846-8082A	05/24/2013 06:50	05/28/2013 12:54	JW
1336-36-3	Total PCBs	ND		mg/kg dry	0.0197	0.0197	1	EPA SW 846-8082A	05/24/2013 06:50	05/28/2013 12:54	JW

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*47.5 %*	*30-150*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*48.8 %*	*30-150*

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	**12600**		mg/kg dry	1.18	2.32	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 20:47	MW
7440-36-0	Antimony	ND	U	mg/kg dry	0.255	0.579	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 20:47	MW
7440-38-2	Arsenic	**5.72**		mg/kg dry	0.394	1.16	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 20:47	MW
7440-39-3	Barium	**102**		mg/kg dry	0.151	0.579	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 20:47	MW
7440-41-7	Beryllium	ND	U	mg/kg dry	0.116	0.116	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 20:47	MW
7440-43-9	Cadmium	ND	U	mg/kg dry	0.116	0.579	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 20:47	MW
7440-70-2	Calcium	**1700**		mg/kg dry	0.046	5.79	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 20:47	MW

Sample Information

Client Sample ID: LG-20 (22-24) **York Sample ID:** 13E0744-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0744	170246501	Soil	May 21, 2013 12:01 pm	05/22/2013

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-47-3	Chromium	**25.9**		mg/kg dry	0.139	0.579	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 20:47	MW
7440-48-4	Cobalt	**11.6**		mg/kg dry	0.093	0.579	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 20:47	MW
7440-50-8	Copper	**26.8**		mg/kg dry	0.139	0.579	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 20:47	MW
7439-89-6	Iron	**17500**		mg/kg dry	0.753	2.32	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 20:47	MW
7439-92-1	Lead	**22.5**		mg/kg dry	0.197	0.348	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 20:47	MW
7439-95-4	Magnesium	**4120**		mg/kg dry	0.521	5.79	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 20:47	MW
7439-96-5	Manganese	**223**		mg/kg dry	0.127	1.16	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 20:47	MW
7440-02-0	Nickel	**21.5**		mg/kg dry	0.151	0.579	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 20:47	MW
7440-09-7	Potassium	**1220**		mg/kg dry	3.92	11.6	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 20:47	MW
7782-49-2	Selenium	**0.872**		mg/kg dry	0.579	0.579	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 20:47	MW
7440-22-4	Silver	ND	U	mg/kg dry	0.116	0.579	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 20:47	MW
7440-23-5	Sodium	**249**	B	mg/kg dry	6.11	11.6	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 20:47	MW
7440-28-0	Thallium	ND	U	mg/kg dry	0.371	0.579	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 20:47	MW
7440-62-2	Vanadium	**29.4**		mg/kg dry	0.127	0.579	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 20:47	MW
7440-66-6	Zinc	**57.5**		mg/kg dry	0.104	0.579	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 20:47	MW

Mercury by 7470/7471

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-7471

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND	U	mg/kg dry	0.0382	0.0382	1	EPA SW846-7471	05/24/2013 10:58	05/24/2013 18:33	AA

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	**86.3**		%	0.100	0.100	1	SM 2540G	05/23/2013 09:08	05/23/2013 12:26	AMC

Sample Information

Client Sample ID: LG-21 (0-2) **York Sample ID:** 13E0744-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0744	170246501	Soil	May 21, 2013 10:55 am	05/22/2013

Volatile Organics, 8260 List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND	U	mg/kg dry	0.0025	0.0050	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 16:45	SS
71-55-6	1,1,1-Trichloroethane	ND	U	mg/kg dry	0.0025	0.0050	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 16:45	SS

Sample Information

Client Sample ID: LG-21 (0-2) **York Sample ID:** 13E0744-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0744	170246501	Soil	May 21, 2013 10:55 am	05/22/2013

Volatile Organics, 8260 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
79-34-5	1,1,2,2-Tetrachloroethane	ND	U	mg/kg dry	0.0025	0.0050	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 16:45	SS
76-13-1	,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113	ND	U	mg/kg dry	0.0025	0.0050	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 16:45	SS
79-00-5	1,1,2-Trichloroethane	ND	U	mg/kg dry	0.0025	0.0050	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 16:45	SS
75-34-3	1,1-Dichloroethane	ND	U	mg/kg dry	0.0025	0.0050	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 16:45	SS
75-35-4	1,1-Dichloroethylene	ND	U	mg/kg dry	0.0025	0.0050	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 16:45	SS
563-58-6	1,1-Dichloropropylene	ND	U	mg/kg dry	0.0025	0.0050	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 16:45	SS
87-61-6	1,2,3-Trichlorobenzene	ND	U	mg/kg dry	0.0025	0.0050	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 16:45	SS
96-18-4	1,2,3-Trichloropropane	ND	U	mg/kg dry	0.0025	0.0050	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 16:45	SS
120-82-1	1,2,4-Trichlorobenzene	ND	U	mg/kg dry	0.0025	0.0050	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 16:45	SS
95-63-6	1,2,4-Trimethylbenzene	ND	U	mg/kg dry	0.0025	0.0050	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 16:45	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND	U	mg/kg dry	0.0025	0.0050	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 16:45	SS
106-93-4	1,2-Dibromoethane	ND	U	mg/kg dry	0.0025	0.0050	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 16:45	SS
95-50-1	1,2-Dichlorobenzene	ND	U	mg/kg dry	0.0025	0.0050	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 16:45	SS
107-06-2	1,2-Dichloroethane	ND	U	mg/kg dry	0.0025	0.0050	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 16:45	SS
78-87-5	1,2-Dichloropropane	ND	U	mg/kg dry	0.0025	0.0050	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 16:45	SS
108-67-8	1,3,5-Trimethylbenzene	ND	U	mg/kg dry	0.0025	0.0050	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 16:45	SS
541-73-1	1,3-Dichlorobenzene	ND	U	mg/kg dry	0.0025	0.0050	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 16:45	SS
142-28-9	1,3-Dichloropropane	ND	U	mg/kg dry	0.0025	0.0050	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 16:45	SS
106-46-7	1,4-Dichlorobenzene	ND	U	mg/kg dry	0.0025	0.0050	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 16:45	SS
123-91-1	1,4-Dioxane	ND	U	mg/kg dry	0.050	0.10	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 16:45	SS
594-20-7	2,2-Dichloropropane	ND	U	mg/kg dry	0.0025	0.0050	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 16:45	SS
78-93-3	2-Butanone	ND	U	mg/kg dry	0.0025	0.0050	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 16:45	SS
95-49-8	2-Chlorotoluene	ND	U	mg/kg dry	0.0025	0.0050	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 16:45	SS
106-43-4	4-Chlorotoluene	ND	U	mg/kg dry	0.0025	0.0050	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 16:45	SS
67-64-1	Acetone	ND	U	mg/kg dry	0.0025	0.010	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 16:45	SS
71-43-2	Benzene	ND	U	mg/kg dry	0.0025	0.0050	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 16:45	SS
108-86-1	Bromobenzene	ND	U	mg/kg dry	0.0025	0.0050	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 16:45	SS
74-97-5	Bromochloromethane	ND	U	mg/kg dry	0.0025	0.0050	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 16:45	SS
75-27-4	Bromodichloromethane	ND	U	mg/kg dry	0.0025	0.0050	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 16:45	SS
75-25-2	Bromoform	ND	U	mg/kg dry	0.0025	0.0050	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 16:45	SS
74-83-9	Bromomethane	ND	U	mg/kg dry	0.0025	0.0050	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 16:45	SS
56-23-5	Carbon tetrachloride	ND	U	mg/kg dry	0.0025	0.0050	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 16:45	SS

Sample Information

Client Sample ID: LG-21 (0-2) **York Sample ID:** 13E0744-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0744	170246501	Soil	May 21, 2013 10:55 am	05/22/2013

Volatile Organics, 8260 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-90-7	Chlorobenzene	ND	U	mg/kg dry	0.0025	0.0050	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 16:45	SS
75-00-3	Chloroethane	ND	U	mg/kg dry	0.0025	0.0050	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 16:45	SS
67-66-3	Chloroform	ND	U	mg/kg dry	0.0025	0.0050	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 16:45	SS
74-87-3	Chloromethane	ND	U	mg/kg dry	0.0025	0.0050	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 16:45	SS
156-59-2	cis-1,2-Dichloroethylene	ND	U	mg/kg dry	0.0025	0.0050	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 16:45	SS
10061-01-5	cis-1,3-Dichloropropylene	ND	U	mg/kg dry	0.0025	0.0050	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 16:45	SS
124-48-1	Dibromochloromethane	ND	U	mg/kg dry	0.0025	0.0050	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 16:45	SS
74-95-3	Dibromomethane	ND	U	mg/kg dry	0.0025	0.0050	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 16:45	SS
75-71-8	Dichlorodifluoromethane	ND	U	mg/kg dry	0.0025	0.0050	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 16:45	SS
100-41-4	Ethyl Benzene	ND	U	mg/kg dry	0.0025	0.0050	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 16:45	SS
87-68-3	Hexachlorobutadiene	ND	U	mg/kg dry	0.0025	0.0050	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 16:45	SS
98-82-8	Isopropylbenzene	ND	U	mg/kg dry	0.0025	0.0050	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 16:45	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND	U	mg/kg dry	0.0025	0.0050	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 16:45	SS
75-09-2	Methylene chloride	**0.0046**	J	mg/kg dry	0.0025	0.010	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 16:45	SS
91-20-3	Naphthalene	ND	U	mg/kg dry	0.0025	0.010	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 16:45	SS
104-51-8	n-Butylbenzene	ND	U	mg/kg dry	0.0025	0.0050	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 16:45	SS
103-65-1	n-Propylbenzene	ND	U	mg/kg dry	0.0025	0.0050	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 16:45	SS
95-47-6	o-Xylene	ND	U	mg/kg dry	0.0025	0.0050	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 16:45	SS
179601-23-1	p- & m- Xylenes	ND	U	mg/kg dry	0.0050	0.010	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 16:45	SS
99-87-6	p-Isopropyltoluene	ND	U	mg/kg dry	0.0025	0.0050	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 16:45	SS
135-98-8	sec-Butylbenzene	ND	U	mg/kg dry	0.0025	0.0050	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 16:45	SS
100-42-5	Styrene	ND	U	mg/kg dry	0.0025	0.0050	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 16:45	SS
98-06-6	tert-Butylbenzene	ND	U	mg/kg dry	0.0025	0.0050	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 16:45	SS
127-18-4	Tetrachloroethylene	ND	U	mg/kg dry	0.0025	0.0050	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 16:45	SS
108-88-3	Toluene	ND	U	mg/kg dry	0.0025	0.0050	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 16:45	SS
156-60-5	trans-1,2-Dichloroethylene	ND	U	mg/kg dry	0.0025	0.0050	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 16:45	SS
10061-02-6	trans-1,3-Dichloropropylene	ND	U	mg/kg dry	0.0025	0.0050	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 16:45	SS
79-01-6	Trichloroethylene	ND	U	mg/kg dry	0.0025	0.0050	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 16:45	SS
75-69-4	Trichlorofluoromethane	ND	U	mg/kg dry	0.0025	0.0050	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 16:45	SS
75-01-4	Vinyl Chloride	ND	U	mg/kg dry	0.0025	0.0050	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 16:45	SS
1330-20-7	Xylenes, Total	ND	U	mg/kg dry	0.0075	0.015	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 16:45	SS
108-05-4	Vinyl acetate	ND	U	mg/kg dry	0.0025	0.0050	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 16:45	SS

Sample Information

Client Sample ID: LG-21 (0-2) **York Sample ID:** 13E0744-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0744	170246501	Soil	May 21, 2013 10:55 am	05/22/2013

Volatile Organics, 8260 List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate Recoveries	**Result**		**Acceptance Range**							
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*101 %*		*73-130*							
460-00-4	*Surrogate: p-Bromofluorobenzene*	*118 %*		*72-127*							
2037-26-5	*Surrogate: Toluene-d8*	*103 %*		*84-117*							

Semi-Volatiles, 8270 Target List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	**0.151**	J	mg/kg dry	0.0697	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 20:01	SR
208-96-8	Acenaphthylene	ND	U	mg/kg dry	0.0925	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 20:01	SR
62-53-3	Aniline	ND	U	mg/kg dry	0.110	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 20:01	SR
120-12-7	Anthracene	**0.296**		mg/kg dry	0.105	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 20:01	SR
56-55-3	Benzo(a)anthracene	**0.577**		mg/kg dry	0.0721	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 20:01	SR
50-32-8	Benzo(a)pyrene	**0.431**		mg/kg dry	0.0763	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 20:01	SR
205-99-2	Benzo(b)fluoranthene	**0.420**		mg/kg dry	0.161	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 20:01	SR
191-24-2	Benzo(g,h,i)perylene	**0.234**		mg/kg dry	0.0640	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 20:01	SR
100-51-6	Benzyl alcohol	ND	U	mg/kg dry	0.193	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 20:01	SR
207-08-9	Benzo(k)fluoranthene	**0.406**		mg/kg dry	0.193	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 20:01	SR
85-68-7	Benzyl butyl phthalate	ND	U	mg/kg dry	0.106	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 20:01	SR
101-55-3	4-Bromophenyl phenyl ether	ND	U	mg/kg dry	0.0929	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 20:01	SR
59-50-7	4-Chloro-3-methylphenol	ND	U	mg/kg dry	0.130	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 20:01	SR
106-47-8	4-Chloroaniline	ND	U	mg/kg dry	0.0501	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 20:01	SR
111-91-1	Bis(2-chloroethoxy)methane	ND	U	mg/kg dry	0.0663	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 20:01	SR
111-44-4	Bis(2-chloroethyl)ether	ND	U	mg/kg dry	0.0983	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 20:01	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND	U	mg/kg dry	0.0678	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 20:01	SR
117-81-7	Bis(2-ethylhexyl)phthalate	ND	U	mg/kg dry	0.133	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 20:01	SR
91-58-7	2-Chloronaphthalene	ND	U	mg/kg dry	0.104	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 20:01	SR
95-57-8	2-Chlorophenol	ND	U	mg/kg dry	0.0636	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 20:01	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND	U	mg/kg dry	0.113	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 20:01	SR
218-01-9	Chrysene	**0.505**		mg/kg dry	0.0886	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 20:01	SR
53-70-3	Dibenzo(a,h)anthracene	ND	U	mg/kg dry	0.0774	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 20:01	SR
132-64-9	Dibenzofuran	ND	U	mg/kg dry	0.0898	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 20:01	SR
84-74-2	Di-n-butyl phthalate	ND	U	mg/kg dry	0.0782	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 20:01	SR
95-50-1	1,2-Dichlorobenzene	ND	U	mg/kg dry	0.126	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 20:01	SR
106-46-7	1,4-Dichlorobenzene	ND	U	mg/kg dry	0.119	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 20:01	SR

Sample Information

Client Sample ID: LG-21 (0-2) **York Sample ID:** 13E0744-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0744	170246501	Soil	May 21, 2013 10:55 am	05/22/2013

Semi-Volatiles, 8270 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
541-73-1	1,3-Dichlorobenzene	ND	U	mg/kg dry	0.0609	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 20:01	SR
91-94-1	3,3'-Dichlorobenzidine	ND	U	mg/kg dry	0.101	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 20:01	SR
120-83-2	2,4-Dichlorophenol	ND	U	mg/kg dry	0.157	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 20:01	SR
84-66-2	Diethyl phthalate	ND	U	mg/kg dry	0.121	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 20:01	SR
105-67-9	2,4-Dimethylphenol	ND	U	mg/kg dry	0.135	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 20:01	SR
131-11-3	Dimethyl phthalate	ND	U	mg/kg dry	0.0859	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 20:01	SR
88-74-4	2-Nitroaniline	ND	U	mg/kg dry	0.168	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 20:01	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND	U	mg/kg dry	0.243	0.385	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 20:01	SR
51-28-5	2,4-Dinitrophenol	ND	U	mg/kg dry	0.162	0.385	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 20:01	SR
606-20-2	2,6-Dinitrotoluene	ND	U	mg/kg dry	0.0990	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 20:01	SR
121-14-2	2,4-Dinitrotoluene	ND	U	mg/kg dry	0.0852	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 20:01	SR
117-84-0	Di-n-octyl phthalate	ND	U	mg/kg dry	0.193	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 20:01	SR
206-44-0	Fluoranthene	**1.04**		mg/kg dry	0.113	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 20:01	SR
86-73-7	Fluorene	**0.129**	J	mg/kg dry	0.0925	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 20:01	SR
118-74-1	Hexachlorobenzene	ND	U	mg/kg dry	0.114	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 20:01	SR
87-68-3	Hexachlorobutadiene	ND	U	mg/kg dry	0.0651	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 20:01	SR
77-47-4	Hexachlorocyclopentadiene	ND	U	mg/kg dry	0.143	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 20:01	SR
67-72-1	Hexachloroethane	ND	U	mg/kg dry	0.0551	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 20:01	SR
193-39-5	Indeno(1,2,3-cd)pyrene	**0.267**		mg/kg dry	0.0879	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 20:01	SR
78-59-1	Isophorone	ND	U	mg/kg dry	0.0663	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 20:01	SR
91-57-6	2-Methylnaphthalene	ND	U	mg/kg dry	0.148	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 20:01	SR
95-48-7	2-Methylphenol	ND	U	mg/kg dry	0.0732	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 20:01	SR
65794-96-9	3- & 4-Methylphenols	ND	U	mg/kg dry	0.0836	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 20:01	SR
91-20-3	Naphthalene	ND	U	mg/kg dry	0.0474	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 20:01	SR
99-09-2	3-Nitroaniline	ND	U	mg/kg dry	0.191	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 20:01	SR
100-01-6	4-Nitroaniline	ND	U	mg/kg dry	0.0798	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 20:01	SR
98-95-3	Nitrobenzene	ND	U	mg/kg dry	0.0566	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 20:01	SR
100-02-7	4-Nitrophenol	ND	U	mg/kg dry	0.0724	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 20:01	SR
88-75-5	2-Nitrophenol	ND	U	mg/kg dry	0.0524	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 20:01	SR
621-64-7	N-nitroso-di-n-propylamine	ND	U	mg/kg dry	0.0643	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 20:01	SR
62-75-9	N-Nitrosodimethylamine	ND	U	mg/kg dry	0.0790	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 20:01	SR
86-30-6	N-Nitrosodiphenylamine	ND	U	mg/kg dry	0.0871	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 20:01	SR

Sample Information

Client Sample ID: LG-21 (0-2) **York Sample ID:** 13E0744-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0744	170246501	Soil	May 21, 2013 10:55 am	05/22/2013

Semi-Volatiles, 8270 Target List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
87-86-5	Pentachlorophenol	ND	U	mg/kg dry	0.145	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 20:01	SR
85-01-8	Phenanthrene	**0.847**		mg/kg dry	0.101	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 20:01	SR
108-95-2	Phenol	ND	U	mg/kg dry	0.0832	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 20:01	SR
129-00-0	Pyrene	**0.707**		mg/kg dry	0.0786	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 20:01	SR
110-86-1	Pyridine	ND	U	mg/kg dry	0.135	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 20:01	SR
120-82-1	1,2,4-Trichlorobenzene	ND	U	mg/kg dry	0.0697	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 20:01	SR
95-95-4	2,4,5-Trichlorophenol	ND	U	mg/kg dry	0.149	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 20:01	SR
88-06-2	2,4,6-Trichlorophenol	ND	U	mg/kg dry	0.0979	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 20:01	SR

	Surrogate Recoveries	Result	Acceptance Range
5175-83-7	*Surrogate: 2,4,6-Tribromophenol*	*64.7 %*	*15-110*
321-60-8	*Surrogate: 2-Fluorobiphenyl*	*51.4 %*	*30-130*
367-12-4	*Surrogate: 2-Fluorophenol*	*50.5 %*	*15-110*
4165-60-0	*Surrogate: Nitrobenzene-d5*	*54.1 %*	*30-130*
4165-62-2	*Surrogate: Phenol-d5*	*54.3 %*	*15-110*
1718-51-0	*Surrogate: Terphenyl-d14*	*46.8 %*	*30-130*

Pesticides/PCBs, EPA 8081/8082 List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
8001-35-2	Toxaphene	ND	U	mg/kg dry	0.0965	0.0965	5	EPA SW 846-8081/8082	05/24/2013 08:59	05/28/2013 14:17	JW
72-43-5	Methoxychlor	ND	U	mg/kg dry	0.00954	0.00954	5	EPA SW 846-8081/8082	05/24/2013 08:59	05/28/2013 14:17	JW
1024-57-3	Heptachlor epoxide	ND	U	mg/kg dry	0.00191	0.00191	5	EPA SW 846-8081/8082	05/24/2013 08:59	05/28/2013 14:17	JW
76-44-8	Heptachlor	ND	U	mg/kg dry	0.00191	0.00191	5	EPA SW 846-8081/8082	05/24/2013 08:59	05/28/2013 14:17	JW
58-89-9	gamma-BHC (Lindane)	ND	U	mg/kg dry	0.00191	0.00191	5	EPA SW 846-8081/8082	05/24/2013 08:59	05/28/2013 14:17	JW
53494-70-5	Endrin ketone	ND	U	mg/kg dry	0.00191	0.00191	5	EPA SW 846-8081/8082	05/24/2013 08:59	05/28/2013 14:17	JW
7421-93-4	Endrin aldehyde	ND	U	mg/kg dry	0.00191	0.00191	5	EPA SW 846-8081/8082	05/24/2013 08:59	05/28/2013 14:17	JW
72-20-8	Endrin	ND	U	mg/kg dry	0.00191	0.00191	5	EPA SW 846-8081/8082	05/24/2013 08:59	05/28/2013 14:17	JW
1031-07-8	Endosulfan sulfate	ND	U	mg/kg dry	0.00191	0.00191	5	EPA SW 846-8081/8082	05/24/2013 08:59	05/28/2013 14:17	JW
33213-65-9	Endosulfan II	ND	U	mg/kg dry	0.00191	0.00191	5	EPA SW 846-8081/8082	05/24/2013 08:59	05/28/2013 14:17	JW
959-98-8	Endosulfan I	ND	U	mg/kg dry	0.00191	0.00191	5	EPA SW 846-8081/8082	05/24/2013 08:59	05/28/2013 14:17	JW
60-57-1	Dieldrin	ND	U	mg/kg dry	0.00191	0.00191	5	EPA SW 846-8081/8082	05/24/2013 08:59	05/28/2013 14:17	JW
319-86-8	delta-BHC	ND	U	mg/kg dry	0.00191	0.00191	5	EPA SW 846-8081/8082	05/24/2013 08:59	05/28/2013 14:17	JW
57-74-9	Chlordane, total	ND	U	mg/kg dry	0.00763	0.00763	5	EPA SW 846-8081/8082	05/24/2013 08:59	05/28/2013 14:17	JW
319-85-7	beta-BHC	ND	U	mg/kg dry	0.00191	0.00191	5	EPA SW 846-8081/8082	05/24/2013 08:59	05/28/2013 14:17	JW
319-84-6	alpha-BHC	ND	U	mg/kg dry	0.00191	0.00191	5	EPA SW 846-8081/8082	05/24/2013 08:59	05/28/2013 14:17	JW

Sample Information

Client Sample ID: LG-21 (0-2) **York Sample ID:** 13E0744-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0744	170246501	Soil	May 21, 2013 10:55 am	05/22/2013

Pesticides/PCBs, EPA 8081/8082 List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
309-00-2	Aldrin	ND	U	mg/kg dry	0.00191	0.00191	5	EPA SW 846-8081/8082	05/24/2013 08:59	05/28/2013 14:17	JW
50-29-3	4,4'-DDT	ND	U	mg/kg dry	0.00191	0.00191	5	EPA SW 846-8081/8082	05/24/2013 08:59	05/28/2013 14:17	JW
72-55-9	4,4'-DDE	ND	U	mg/kg dry	0.00191	0.00191	5	EPA SW 846-8081/8082	05/24/2013 08:59	05/28/2013 14:17	JW
72-54-8	4,4'-DDD	ND	U	mg/kg dry	0.00191	0.00191	5	EPA SW 846-8081/8082	05/24/2013 08:59	05/28/2013 14:17	JW
11096-82-5	Aroclor 1260	ND	U	mg/kg dry	0.0197	0.0197	1	EPA SW 846-8081/8082	05/24/2013 08:59	05/28/2013 13:23	JW
11097-69-1	Aroclor 1254	ND	U	mg/kg dry	0.0197	0.0197	1	EPA SW 846-8081/8082	05/24/2013 08:59	05/28/2013 13:23	JW
12672-29-6	Aroclor 1248	ND	U	mg/kg dry	0.0197	0.0197	1	EPA SW 846-8081/8082	05/24/2013 08:59	05/28/2013 13:23	JW
53469-21-9	Aroclor 1242	ND	U	mg/kg dry	0.0197	0.0197	1	EPA SW 846-8081/8082	05/24/2013 08:59	05/28/2013 13:23	JW
11141-16-5	Aroclor 1232	ND	U	mg/kg dry	0.0197	0.0197	1	EPA SW 846-8081/8082	05/24/2013 08:59	05/28/2013 13:23	JW
11104-28-2	Aroclor 1221	ND	U	mg/kg dry	0.0197	0.0197	1	EPA SW 846-8081/8082	05/24/2013 08:59	05/28/2013 13:23	JW
12674-11-2	Aroclor 1016	ND	U	mg/kg dry	0.0197	0.0197	1	EPA SW 846-8081/8082	05/24/2013 08:59	05/28/2013 13:23	JW
1336-36-3	Total PCBs	ND	U	mg/kg dry	0.00786	0.0197	1	EPA SW 846-8081/8082	05/24/2013 08:59	05/28/2013 13:23	JW

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*41.3 %*	*30-150*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*30.1 %*	*30-150*

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	**15100**		mg/kg dry	1.18	2.31	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 20:51	MW
7440-36-0	Antimony	ND	U	mg/kg dry	0.254	0.578	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 20:51	MW
7440-38-2	Arsenic	**4.30**		mg/kg dry	0.393	1.16	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 20:51	MW
7440-39-3	Barium	**81.5**		mg/kg dry	0.150	0.578	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 20:51	MW
7440-41-7	Beryllium	ND	U	mg/kg dry	0.116	0.116	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 20:51	MW
7440-43-9	Cadmium	ND	U	mg/kg dry	0.116	0.578	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 20:51	MW
7440-70-2	Calcium	**1590**		mg/kg dry	0.046	5.78	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 20:51	MW
7440-47-3	Chromium	**28.0**		mg/kg dry	0.139	0.578	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 20:51	MW
7440-48-4	Cobalt	**9.40**		mg/kg dry	0.092	0.578	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 20:51	MW
7440-50-8	Copper	**17.0**		mg/kg dry	0.139	0.578	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 20:51	MW
7439-89-6	Iron	**20200**		mg/kg dry	0.751	2.31	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 20:51	MW
7439-92-1	Lead	**51.7**		mg/kg dry	0.197	0.347	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 20:51	MW
7439-95-4	Magnesium	**5370**		mg/kg dry	0.520	5.78	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 20:51	MW
7439-96-5	Manganese	**380**		mg/kg dry	0.127	1.16	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 20:51	MW
7440-02-0	Nickel	**23.2**		mg/kg dry	0.150	0.578	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 20:51	MW
7440-09-7	Potassium	**1010**		mg/kg dry	3.91	11.6	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 20:51	MW

Sample Information

Client Sample ID: LG-21 (0-2) **York Sample ID:** 13E0744-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0744	170246501	Soil	May 21, 2013 10:55 am	05/22/2013

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7782-49-2	Selenium	ND	U	mg/kg dry	0.578	0.578	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 20:51	MW
7440-22-4	Silver	ND	U	mg/kg dry	0.116	0.578	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 20:51	MW
7440-23-5	Sodium	**144**	B	mg/kg dry	6.09	11.6	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 20:51	MW
7440-28-0	Thallium	ND	U	mg/kg dry	0.370	0.578	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 20:51	MW
7440-62-2	Vanadium	**31.6**		mg/kg dry	0.127	0.578	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 20:51	MW
7440-66-6	Zinc	**57.6**		mg/kg dry	0.104	0.578	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 20:51	MW

Mercury by 7470/7471

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-7471

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND	U	mg/kg dry	0.0381	0.0381	1	EPA SW846-7471	05/24/2013 10:58	05/24/2013 18:33	AA

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	**86.5**		%	0.100	0.100	1	SM 2540G	05/23/2013 09:08	05/23/2013 12:26	AMC

Sample Information

Client Sample ID: LG-21 (20-22) **York Sample ID:** 13E0744-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0744	170246501	Soil	May 21, 2013 11:25 am	05/22/2013

Volatile Organics, 8260 List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND	U	mg/kg dry	0.0026	0.0052	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 17:25	SS
71-55-6	1,1,1-Trichloroethane	ND	U	mg/kg dry	0.0026	0.0052	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 17:25	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND	U	mg/kg dry	0.0026	0.0052	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 17:25	SS
76-13-1	,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113	ND	U	mg/kg dry	0.0026	0.0052	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 17:25	SS
79-00-5	1,1,2-Trichloroethane	ND	U	mg/kg dry	0.0026	0.0052	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 17:25	SS
75-34-3	1,1-Dichloroethane	ND	U	mg/kg dry	0.0026	0.0052	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 17:25	SS
75-35-4	1,1-Dichloroethylene	ND	U	mg/kg dry	0.0026	0.0052	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 17:25	SS
563-58-6	1,1-Dichloropropylene	ND	U	mg/kg dry	0.0026	0.0052	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 17:25	SS
87-61-6	1,2,3-Trichlorobenzene	ND	U	mg/kg dry	0.0026	0.0052	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 17:25	SS
96-18-4	1,2,3-Trichloropropane	ND	U	mg/kg dry	0.0026	0.0052	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 17:25	SS

Sample Information

Client Sample ID: LG-21 (20-22) **York Sample ID:** 13E0744-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0744	170246501	Soil	May 21, 2013 11:25 am	05/22/2013

Volatile Organics, 8260 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
120-82-1	1,2,4-Trichlorobenzene	ND	U	mg/kg dry	0.0026	0.0052	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 17:25	SS
95-63-6	1,2,4-Trimethylbenzene	ND	U	mg/kg dry	0.0026	0.0052	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 17:25	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND	U	mg/kg dry	0.0026	0.0052	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 17:25	SS
106-93-4	1,2-Dibromoethane	ND	U	mg/kg dry	0.0026	0.0052	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 17:25	SS
95-50-1	1,2-Dichlorobenzene	ND	U	mg/kg dry	0.0026	0.0052	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 17:25	SS
107-06-2	1,2-Dichloroethane	ND	U	mg/kg dry	0.0026	0.0052	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 17:25	SS
78-87-5	1,2-Dichloropropane	ND	U	mg/kg dry	0.0026	0.0052	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 17:25	SS
108-67-8	1,3,5-Trimethylbenzene	ND	U	mg/kg dry	0.0026	0.0052	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 17:25	SS
541-73-1	1,3-Dichlorobenzene	ND	U	mg/kg dry	0.0026	0.0052	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 17:25	SS
142-28-9	1,3-Dichloropropane	ND	U	mg/kg dry	0.0026	0.0052	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 17:25	SS
106-46-7	1,4-Dichlorobenzene	ND	U	mg/kg dry	0.0026	0.0052	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 17:25	SS
123-91-1	1,4-Dioxane	ND	U	mg/kg dry	0.052	0.10	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 17:25	SS
594-20-7	2,2-Dichloropropane	ND	U	mg/kg dry	0.0026	0.0052	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 17:25	SS
78-93-3	2-Butanone	**0.0034**	J	mg/kg dry	0.0026	0.0052	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 17:25	SS
95-49-8	2-Chlorotoluene	ND	U	mg/kg dry	0.0026	0.0052	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 17:25	SS
106-43-4	4-Chlorotoluene	ND	U	mg/kg dry	0.0026	0.0052	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 17:25	SS
67-64-1	Acetone	**0.023**	B	mg/kg dry	0.0026	0.010	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 17:25	SS
71-43-2	Benzene	ND	U	mg/kg dry	0.0026	0.0052	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 17:25	SS
108-86-1	Bromobenzene	ND	U	mg/kg dry	0.0026	0.0052	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 17:25	SS
74-97-5	Bromochloromethane	ND	U	mg/kg dry	0.0026	0.0052	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 17:25	SS
75-27-4	Bromodichloromethane	ND	U	mg/kg dry	0.0026	0.0052	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 17:25	SS
75-25-2	Bromoform	ND	U	mg/kg dry	0.0026	0.0052	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 17:25	SS
74-83-9	Bromomethane	ND	U	mg/kg dry	0.0026	0.0052	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 17:25	SS
56-23-5	Carbon tetrachloride	ND	U	mg/kg dry	0.0026	0.0052	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 17:25	SS
108-90-7	Chlorobenzene	ND	U	mg/kg dry	0.0026	0.0052	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 17:25	SS
75-00-3	Chloroethane	ND	U	mg/kg dry	0.0026	0.0052	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 17:25	SS
67-66-3	Chloroform	ND	U	mg/kg dry	0.0026	0.0052	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 17:25	SS
74-87-3	Chloromethane	ND	U	mg/kg dry	0.0026	0.0052	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 17:25	SS
156-59-2	cis-1,2-Dichloroethylene	ND	U	mg/kg dry	0.0026	0.0052	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 17:25	SS
10061-01-5	cis-1,3-Dichloropropylene	ND	U	mg/kg dry	0.0026	0.0052	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 17:25	SS
124-48-1	Dibromochloromethane	ND	U	mg/kg dry	0.0026	0.0052	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 17:25	SS
74-95-3	Dibromomethane	ND	U	mg/kg dry	0.0026	0.0052	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 17:25	SS

Sample Information

Client Sample ID: **LG-21 (20-22)** **York Sample ID:** **13E0744-06**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0744	170246501	Soil	May 21, 2013 11:25 am	05/22/2013

Volatile Organics, 8260 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-71-8	Dichlorodifluoromethane	ND	U	mg/kg dry	0.0026	0.0052	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 17:25	SS
100-41-4	Ethyl Benzene	ND	U	mg/kg dry	0.0026	0.0052	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 17:25	SS
87-68-3	Hexachlorobutadiene	ND	U	mg/kg dry	0.0026	0.0052	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 17:25	SS
98-82-8	Isopropylbenzene	ND	U	mg/kg dry	0.0026	0.0052	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 17:25	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND	U	mg/kg dry	0.0026	0.0052	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 17:25	SS
75-09-2	Methylene chloride	**0.0059**	J	mg/kg dry	0.0026	0.010	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 17:25	SS
91-20-3	Naphthalene	ND	U	mg/kg dry	0.0026	0.010	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 17:25	SS
104-51-8	n-Butylbenzene	ND	U	mg/kg dry	0.0026	0.0052	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 17:25	SS
103-65-1	n-Propylbenzene	ND	U	mg/kg dry	0.0026	0.0052	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 17:25	SS
95-47-6	o-Xylene	ND	U	mg/kg dry	0.0026	0.0052	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 17:25	SS
179601-23-1	p- & m- Xylenes	ND	U	mg/kg dry	0.0052	0.010	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 17:25	SS
99-87-6	p-Isopropyltoluene	ND	U	mg/kg dry	0.0026	0.0052	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 17:25	SS
135-98-8	sec-Butylbenzene	ND	U	mg/kg dry	0.0026	0.0052	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 17:25	SS
100-42-5	Styrene	ND	U	mg/kg dry	0.0026	0.0052	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 17:25	SS
98-06-6	tert-Butylbenzene	ND	U	mg/kg dry	0.0026	0.0052	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 17:25	SS
127-18-4	Tetrachloroethylene	ND	U	mg/kg dry	0.0026	0.0052	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 17:25	SS
108-88-3	Toluene	ND	U	mg/kg dry	0.0026	0.0052	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 17:25	SS
156-60-5	trans-1,2-Dichloroethylene	ND	U	mg/kg dry	0.0026	0.0052	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 17:25	SS
10061-02-6	trans-1,3-Dichloropropylene	ND	U	mg/kg dry	0.0026	0.0052	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 17:25	SS
79-01-6	Trichloroethylene	ND	U	mg/kg dry	0.0026	0.0052	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 17:25	SS
75-69-4	Trichlorofluoromethane	ND	U	mg/kg dry	0.0026	0.0052	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 17:25	SS
75-01-4	Vinyl Chloride	ND	U	mg/kg dry	0.0026	0.0052	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 17:25	SS
1330-20-7	Xylenes, Total	ND	U	mg/kg dry	0.0078	0.016	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 17:25	SS
108-05-4	Vinyl acetate	ND	U	mg/kg dry	0.0026	0.0052	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 17:25	SS

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*108 %*	*73-130*
460-00-4	*Surrogate: p-Bromofluorobenzene*	*115 %*	*72-127*
2037-26-5	*Surrogate: Toluene-d8*	*101 %*	*84-117*

Sample Information

Client Sample ID: LG-21 (20-22) **York Sample ID:** 13E0744-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0744	170246501	Soil	May 21, 2013 11:25 am	05/22/2013

Semi-Volatiles, 8270 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND	U	mg/kg dry	0.0692	0.191	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 20:31	SR
208-96-8	Acenaphthylene	ND	U	mg/kg dry	0.0918	0.191	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 20:31	SR
62-53-3	Aniline	ND	U	mg/kg dry	0.109	0.191	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 20:31	SR
120-12-7	Anthracene	ND	U	mg/kg dry	0.104	0.191	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 20:31	SR
56-55-3	Benzo(a)anthracene	**0.0777**	J	mg/kg dry	0.0715	0.191	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 20:31	SR
50-32-8	Benzo(a)pyrene	**0.120**	J	mg/kg dry	0.0757	0.191	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 20:31	SR
205-99-2	Benzo(b)fluoranthene	ND	U	mg/kg dry	0.160	0.191	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 20:31	SR
191-24-2	Benzo(g,h,i)perylene	**0.0738**	J	mg/kg dry	0.0635	0.191	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 20:31	SR
100-51-6	Benzyl alcohol	ND	U	mg/kg dry	0.191	0.191	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 20:31	SR
207-08-9	Benzo(k)fluoranthene	ND	U	mg/kg dry	0.191	0.191	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 20:31	SR
85-68-7	Benzyl butyl phthalate	ND	U	mg/kg dry	0.106	0.191	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 20:31	SR
101-55-3	4-Bromophenyl phenyl ether	ND	U	mg/kg dry	0.0922	0.191	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 20:31	SR
59-50-7	4-Chloro-3-methylphenol	ND	U	mg/kg dry	0.129	0.191	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 20:31	SR
106-47-8	4-Chloroaniline	ND	U	mg/kg dry	0.0497	0.191	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 20:31	SR
111-91-1	Bis(2-chloroethoxy)methane	ND	U	mg/kg dry	0.0658	0.191	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 20:31	SR
111-44-4	Bis(2-chloroethyl)ether	ND	U	mg/kg dry	0.0975	0.191	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 20:31	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND	U	mg/kg dry	0.0673	0.191	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 20:31	SR
117-81-7	Bis(2-ethylhexyl)phthalate	ND	U	mg/kg dry	0.132	0.191	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 20:31	SR
91-58-7	2-Chloronaphthalene	ND	U	mg/kg dry	0.103	0.191	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 20:31	SR
95-57-8	2-Chlorophenol	ND	U	mg/kg dry	0.0631	0.191	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 20:31	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND	U	mg/kg dry	0.112	0.191	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 20:31	SR
218-01-9	Chrysene	ND	U	mg/kg dry	0.0880	0.191	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 20:31	SR
53-70-3	Dibenzo(a,h)anthracene	ND	U	mg/kg dry	0.0769	0.191	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 20:31	SR
132-64-9	Dibenzofuran	ND	U	mg/kg dry	0.0891	0.191	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 20:31	SR
84-74-2	Di-n-butyl phthalate	ND	U	mg/kg dry	0.0777	0.191	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 20:31	SR
95-50-1	1,2-Dichlorobenzene	ND	U	mg/kg dry	0.125	0.191	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 20:31	SR
106-46-7	1,4-Dichlorobenzene	ND	U	mg/kg dry	0.118	0.191	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 20:31	SR
541-73-1	1,3-Dichlorobenzene	ND	U	mg/kg dry	0.0604	0.191	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 20:31	SR
91-94-1	3,3'-Dichlorobenzidine	ND	U	mg/kg dry	0.100	0.191	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 20:31	SR
120-83-2	2,4-Dichlorophenol	ND	U	mg/kg dry	0.156	0.191	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 20:31	SR
84-66-2	Diethyl phthalate	ND	U	mg/kg dry	0.120	0.191	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 20:31	SR
105-67-9	2,4-Dimethylphenol	ND	U	mg/kg dry	0.134	0.191	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 20:31	SR

Sample Information

Client Sample ID: LG-21 (20-22) **York Sample ID:** 13E0744-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0744	170246501	Soil	May 21, 2013 11:25 am	05/22/2013

Semi-Volatiles, 8270 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
131-11-3	Dimethyl phthalate	ND	U	mg/kg dry	0.0853	0.191	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 20:31	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND	U	mg/kg dry	0.241	0.383	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 20:31	SR
88-74-4	2-Nitroaniline	ND	U	mg/kg dry	0.167	0.191	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 20:31	SR
51-28-5	2,4-Dinitrophenol	ND	U	mg/kg dry	0.161	0.383	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 20:31	SR
606-20-2	2,6-Dinitrotoluene	ND	U	mg/kg dry	0.0983	0.191	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 20:31	SR
121-14-2	2,4-Dinitrotoluene	ND	U	mg/kg dry	0.0845	0.191	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 20:31	SR
117-84-0	Di-n-octyl phthalate	ND	U	mg/kg dry	0.191	0.191	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 20:31	SR
206-44-0	Fluoranthene	ND	U	mg/kg dry	0.112	0.191	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 20:31	SR
86-73-7	Fluorene	ND	U	mg/kg dry	0.0918	0.191	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 20:31	SR
118-74-1	Hexachlorobenzene	ND	U	mg/kg dry	0.113	0.191	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 20:31	SR
87-68-3	Hexachlorobutadiene	ND	U	mg/kg dry	0.0646	0.191	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 20:31	SR
77-47-4	Hexachlorocyclopentadiene	ND	U	mg/kg dry	0.142	0.191	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 20:31	SR
67-72-1	Hexachloroethane	ND	U	mg/kg dry	0.0547	0.191	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 20:31	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND	U	mg/kg dry	0.0872	0.191	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 20:31	SR
78-59-1	Isophorone	ND	U	mg/kg dry	0.0658	0.191	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 20:31	SR
91-57-6	2-Methylnaphthalene	ND	U	mg/kg dry	0.147	0.191	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 20:31	SR
95-48-7	2-Methylphenol	ND	U	mg/kg dry	0.0727	0.191	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 20:31	SR
65794-96-9	3- & 4-Methylphenols	ND	U	mg/kg dry	0.0830	0.191	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 20:31	SR
91-20-3	Naphthalene	ND	U	mg/kg dry	0.0471	0.191	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 20:31	SR
99-09-2	3-Nitroaniline	ND	U	mg/kg dry	0.190	0.191	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 20:31	SR
100-01-6	4-Nitroaniline	ND	U	mg/kg dry	0.0792	0.191	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 20:31	SR
98-95-3	Nitrobenzene	ND	U	mg/kg dry	0.0562	0.191	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 20:31	SR
100-02-7	4-Nitrophenol	ND	U	mg/kg dry	0.0719	0.191	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 20:31	SR
88-75-5	2-Nitrophenol	ND	U	mg/kg dry	0.0520	0.191	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 20:31	SR
621-64-7	N-nitroso-di-n-propylamine	ND	U	mg/kg dry	0.0639	0.191	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 20:31	SR
62-75-9	N-Nitrosodimethylamine	ND	U	mg/kg dry	0.0784	0.191	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 20:31	SR
86-30-6	N-Nitrosodiphenylamine	ND	U	mg/kg dry	0.0865	0.191	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 20:31	SR
87-86-5	Pentachlorophenol	ND	U	mg/kg dry	0.144	0.191	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 20:31	SR
85-01-8	Phenanthrene	ND	U	mg/kg dry	0.0998	0.191	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 20:31	SR
108-95-2	Phenol	ND	U	mg/kg dry	0.0826	0.191	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 20:31	SR
129-00-0	Pyrene	**0.0956**	J	mg/kg dry	0.0780	0.191	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 20:31	SR
110-86-1	Pyridine	ND	U	mg/kg dry	0.134	0.191	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 20:31	SR

Sample Information

Client Sample ID: LG-21 (20-22) **York Sample ID:** 13E0744-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0744	170246501	Soil	May 21, 2013 11:25 am	05/22/2013

Semi-Volatiles, 8270 Target List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
120-82-1	1,2,4-Trichlorobenzene	ND	U	mg/kg dry	0.0692	0.191	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 20:31	SR
95-95-4	2,4,5-Trichlorophenol	ND	U	mg/kg dry	0.148	0.191	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 20:31	SR
88-06-2	2,4,6-Trichlorophenol	ND	U	mg/kg dry	0.0972	0.191	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 20:31	SR

	Surrogate Recoveries	Result	Acceptance Range
5175-83-7	*Surrogate: 2,4,6-Tribromophenol*	*79.9 %*	*15-110*
321-60-8	*Surrogate: 2-Fluorobiphenyl*	*60.5 %*	*30-130*
367-12-4	*Surrogate: 2-Fluorophenol*	*61.3 %*	*15-110*
4165-60-0	*Surrogate: Nitrobenzene-d5*	*62.8 %*	*30-130*
4165-62-2	*Surrogate: Phenol-d5*	*64.7 %*	*15-110*
1718-51-0	*Surrogate: Terphenyl-d14*	*55.4 %*	*30-130*

Polychlorinated Biphenyls (PCB)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0195	0.0195	1	EPA SW 846-8082A	05/24/2013 06:50	05/28/2013 13:53	JW
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0195	0.0195	1	EPA SW 846-8082A	05/24/2013 06:50	05/28/2013 13:53	JW
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0195	0.0195	1	EPA SW 846-8082A	05/24/2013 06:50	05/28/2013 13:53	JW
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0195	0.0195	1	EPA SW 846-8082A	05/24/2013 06:50	05/28/2013 13:53	JW
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0195	0.0195	1	EPA SW 846-8082A	05/24/2013 06:50	05/28/2013 13:53	JW
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0195	0.0195	1	EPA SW 846-8082A	05/24/2013 06:50	05/28/2013 13:53	JW
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0195	0.0195	1	EPA SW 846-8082A	05/24/2013 06:50	05/28/2013 13:53	JW
1336-36-3	Total PCBs	ND		mg/kg dry	0.0195	0.0195	1	EPA SW 846-8082A	05/24/2013 06:50	05/28/2013 13:53	JW

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*53.5 %*	*30-150*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*57.2 %*	*30-150*

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	**14200**		mg/kg dry	1.17	2.30	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 20:56	MW
7440-36-0	Antimony	ND	U	mg/kg dry	0.252	0.574	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 20:56	MW
7440-38-2	Arsenic	**2.80**		mg/kg dry	0.390	1.15	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 20:56	MW
7440-39-3	Barium	**140**		mg/kg dry	0.149	0.574	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 20:56	MW
7440-41-7	Beryllium	ND	U	mg/kg dry	0.115	0.115	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 20:56	MW
7440-43-9	Cadmium	ND	U	mg/kg dry	0.115	0.574	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 20:56	MW
7440-70-2	Calcium	**2300**		mg/kg dry	0.046	5.74	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 20:56	MW

Sample Information

Client Sample ID: LG-21 (20-22) **York Sample ID:** 13E0744-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0744	170246501	Soil	May 21, 2013 11:25 am	05/22/2013

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-47-3	Chromium	**32.9**		mg/kg dry	0.138	0.574	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 20:56	MW
7440-48-4	Cobalt	**12.2**		mg/kg dry	0.092	0.574	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 20:56	MW
7440-50-8	Copper	**35.0**		mg/kg dry	0.138	0.574	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 20:56	MW
7439-89-6	Iron	**20500**		mg/kg dry	0.746	2.30	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 20:56	MW
7439-92-1	Lead	**8.18**		mg/kg dry	0.195	0.344	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 20:56	MW
7439-95-4	Magnesium	**7080**		mg/kg dry	0.516	5.74	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 20:56	MW
7439-96-5	Manganese	**274**		mg/kg dry	0.126	1.15	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 20:56	MW
7440-02-0	Nickel	**25.4**		mg/kg dry	0.149	0.574	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 20:56	MW
7440-09-7	Potassium	**2600**		mg/kg dry	3.88	11.5	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 20:56	MW
7782-49-2	Selenium	**1.07**		mg/kg dry	0.574	0.574	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 20:56	MW
7440-22-4	Silver	ND	U	mg/kg dry	0.115	0.574	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 20:56	MW
7440-23-5	Sodium	**274**	B	mg/kg dry	6.05	11.5	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 20:56	MW
7440-28-0	Thallium	ND	U	mg/kg dry	0.367	0.574	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 20:56	MW
7440-62-2	Vanadium	**51.9**		mg/kg dry	0.126	0.574	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 20:56	MW
7440-66-6	Zinc	**59.9**		mg/kg dry	0.103	0.574	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 20:56	MW

Mercury by 7470/7471

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-7471

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND	U	mg/kg dry	0.0379	0.0379	1	EPA SW846-7471	05/24/2013 10:58	05/24/2013 18:33	AA

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	**87.1**		%	0.100	0.100	1	SM 2540G	05/23/2013 09:08	05/23/2013 12:26	AMC

Sample Information

Client Sample ID: MW-10 (1-3) **York Sample ID:** 13E0744-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0744	170246501	Soil	May 21, 2013 1:33 pm	05/22/2013

Volatile Organics, 8260 List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND	U	mg/kg dry	0.0025	0.0049	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 18:06	SS
71-55-6	1,1,1-Trichloroethane	ND	U	mg/kg dry	0.0025	0.0049	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 18:06	SS

Sample Information

Client Sample ID: MW-10 (1-3) **York Sample ID:** 13E0744-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0744	170246501	Soil	May 21, 2013 1:33 pm	05/22/2013

Volatile Organics, 8260 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
79-34-5	1,1,2,2-Tetrachloroethane	ND	U	mg/kg dry	0.0025	0.0049	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 18:06	SS
76-13-1	,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113	ND	U	mg/kg dry	0.0025	0.0049	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 18:06	SS
79-00-5	1,1,2-Trichloroethane	ND	U	mg/kg dry	0.0025	0.0049	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 18:06	SS
75-34-3	1,1-Dichloroethane	ND	U	mg/kg dry	0.0025	0.0049	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 18:06	SS
75-35-4	1,1-Dichloroethylene	ND	U	mg/kg dry	0.0025	0.0049	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 18:06	SS
563-58-6	1,1-Dichloropropylene	ND	U	mg/kg dry	0.0025	0.0049	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 18:06	SS
87-61-6	1,2,3-Trichlorobenzene	ND	U	mg/kg dry	0.0025	0.0049	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 18:06	SS
96-18-4	1,2,3-Trichloropropane	ND	U	mg/kg dry	0.0025	0.0049	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 18:06	SS
120-82-1	1,2,4-Trichlorobenzene	ND	U	mg/kg dry	0.0025	0.0049	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 18:06	SS
95-63-6	1,2,4-Trimethylbenzene	ND	U	mg/kg dry	0.0025	0.0049	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 18:06	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND	U	mg/kg dry	0.0025	0.0049	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 18:06	SS
106-93-4	1,2-Dibromoethane	ND	U	mg/kg dry	0.0025	0.0049	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 18:06	SS
95-50-1	1,2-Dichlorobenzene	ND	U	mg/kg dry	0.0025	0.0049	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 18:06	SS
107-06-2	1,2-Dichloroethane	ND	U	mg/kg dry	0.0025	0.0049	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 18:06	SS
78-87-5	1,2-Dichloropropane	ND	U	mg/kg dry	0.0025	0.0049	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 18:06	SS
108-67-8	1,3,5-Trimethylbenzene	ND	U	mg/kg dry	0.0025	0.0049	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 18:06	SS
541-73-1	1,3-Dichlorobenzene	ND	U	mg/kg dry	0.0025	0.0049	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 18:06	SS
142-28-9	1,3-Dichloropropane	ND	U	mg/kg dry	0.0025	0.0049	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 18:06	SS
106-46-7	1,4-Dichlorobenzene	ND	U	mg/kg dry	0.0025	0.0049	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 18:06	SS
123-91-1	1,4-Dioxane	ND	U	mg/kg dry	0.049	0.099	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 18:06	SS
594-20-7	2,2-Dichloropropane	ND	U	mg/kg dry	0.0025	0.0049	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 18:06	SS
78-93-3	2-Butanone	ND	U	mg/kg dry	0.0025	0.0049	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 18:06	SS
95-49-8	2-Chlorotoluene	ND	U	mg/kg dry	0.0025	0.0049	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 18:06	SS
106-43-4	4-Chlorotoluene	ND	U	mg/kg dry	0.0025	0.0049	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 18:06	SS
67-64-1	Acetone	**0.0033**	J, B	mg/kg dry	0.0025	0.0099	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 18:06	SS
71-43-2	Benzene	ND	U	mg/kg dry	0.0025	0.0049	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 18:06	SS
108-86-1	Bromobenzene	ND	U	mg/kg dry	0.0025	0.0049	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 18:06	SS
74-97-5	Bromochloromethane	ND	U	mg/kg dry	0.0025	0.0049	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 18:06	SS
75-27-4	Bromodichloromethane	ND	U	mg/kg dry	0.0025	0.0049	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 18:06	SS
75-25-2	Bromoform	ND	U	mg/kg dry	0.0025	0.0049	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 18:06	SS
74-83-9	Bromomethane	ND	U	mg/kg dry	0.0025	0.0049	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 18:06	SS
56-23-5	Carbon tetrachloride	ND	U	mg/kg dry	0.0025	0.0049	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 18:06	SS

Sample Information

Client Sample ID: MW-10 (1-3) **York Sample ID:** 13E0744-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0744	170246501	Soil	May 21, 2013 1:33 pm	05/22/2013

Volatile Organics, 8260 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-90-7	Chlorobenzene	ND	U	mg/kg dry	0.0025	0.0049	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 18:06	SS
75-00-3	Chloroethane	ND	U	mg/kg dry	0.0025	0.0049	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 18:06	SS
67-66-3	Chloroform	ND	U	mg/kg dry	0.0025	0.0049	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 18:06	SS
74-87-3	Chloromethane	ND	U	mg/kg dry	0.0025	0.0049	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 18:06	SS
156-59-2	cis-1,2-Dichloroethylene	ND	U	mg/kg dry	0.0025	0.0049	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 18:06	SS
10061-01-5	cis-1,3-Dichloropropylene	ND	U	mg/kg dry	0.0025	0.0049	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 18:06	SS
124-48-1	Dibromochloromethane	ND	U	mg/kg dry	0.0025	0.0049	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 18:06	SS
74-95-3	Dibromomethane	ND	U	mg/kg dry	0.0025	0.0049	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 18:06	SS
75-71-8	Dichlorodifluoromethane	ND	U	mg/kg dry	0.0025	0.0049	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 18:06	SS
100-41-4	Ethyl Benzene	ND	U	mg/kg dry	0.0025	0.0049	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 18:06	SS
87-68-3	Hexachlorobutadiene	ND	U	mg/kg dry	0.0025	0.0049	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 18:06	SS
98-82-8	Isopropylbenzene	ND	U	mg/kg dry	0.0025	0.0049	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 18:06	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND	U	mg/kg dry	0.0025	0.0049	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 18:06	SS
75-09-2	Methylene chloride	**0.0050**	J	mg/kg dry	0.0025	0.0099	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 18:06	SS
91-20-3	Naphthalene	ND	U	mg/kg dry	0.0025	0.0099	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 18:06	SS
104-51-8	n-Butylbenzene	ND	U	mg/kg dry	0.0025	0.0049	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 18:06	SS
103-65-1	n-Propylbenzene	ND	U	mg/kg dry	0.0025	0.0049	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 18:06	SS
95-47-6	o-Xylene	ND	U	mg/kg dry	0.0025	0.0049	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 18:06	SS
179601-23-1	p- & m- Xylenes	ND	U	mg/kg dry	0.0049	0.0099	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 18:06	SS
99-87-6	p-Isopropyltoluene	ND	U	mg/kg dry	0.0025	0.0049	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 18:06	SS
135-98-8	sec-Butylbenzene	ND	U	mg/kg dry	0.0025	0.0049	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 18:06	SS
100-42-5	Styrene	ND	U	mg/kg dry	0.0025	0.0049	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 18:06	SS
98-06-6	tert-Butylbenzene	ND	U	mg/kg dry	0.0025	0.0049	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 18:06	SS
127-18-4	Tetrachloroethylene	ND	U	mg/kg dry	0.0025	0.0049	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 18:06	SS
108-88-3	Toluene	ND	U	mg/kg dry	0.0025	0.0049	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 18:06	SS
156-60-5	trans-1,2-Dichloroethylene	ND	U	mg/kg dry	0.0025	0.0049	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 18:06	SS
10061-02-6	trans-1,3-Dichloropropylene	ND	U	mg/kg dry	0.0025	0.0049	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 18:06	SS
79-01-6	Trichloroethylene	ND	U	mg/kg dry	0.0025	0.0049	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 18:06	SS
75-69-4	Trichlorofluoromethane	ND	U	mg/kg dry	0.0025	0.0049	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 18:06	SS
75-01-4	Vinyl Chloride	ND	U	mg/kg dry	0.0025	0.0049	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 18:06	SS
1330-20-7	Xylenes, Total	ND	U	mg/kg dry	0.0074	0.015	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 18:06	SS
108-05-4	Vinyl acetate	ND	U	mg/kg dry	0.0025	0.0049	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 18:06	SS

Sample Information

Client Sample ID: MW-10 (1-3) **York Sample ID:** 13E0744-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0744	170246501	Soil	May 21, 2013 1:33 pm	05/22/2013

Volatile Organics, 8260 List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate Recoveries	**Result**		**Acceptance Range**							
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*102 %*		*73-130*							
460-00-4	*Surrogate: p-Bromofluorobenzene*	*115 %*		*72-127*							
2037-26-5	*Surrogate: Toluene-d8*	*102 %*		*84-117*							

Semi-Volatiles, 8270 Target List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND	U	mg/kg dry	0.0674	0.186	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 21:02	SR
208-96-8	Acenaphthylene	ND	U	mg/kg dry	0.0894	0.186	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 21:02	SR
62-53-3	Aniline	ND	U	mg/kg dry	0.107	0.186	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 21:02	SR
120-12-7	Anthracene	ND	U	mg/kg dry	0.102	0.186	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 21:02	SR
56-55-3	Benzo(a)anthracene	**0.230**		mg/kg dry	0.0697	0.186	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 21:02	SR
50-32-8	Benzo(a)pyrene	**0.238**		mg/kg dry	0.0738	0.186	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 21:02	SR
205-99-2	Benzo(b)fluoranthene	**0.200**		mg/kg dry	0.156	0.186	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 21:02	SR
191-24-2	Benzo(g,h,i)perylene	**0.159**	J	mg/kg dry	0.0619	0.186	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 21:02	SR
100-51-6	Benzyl alcohol	ND	U	mg/kg dry	0.186	0.186	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 21:02	SR
207-08-9	Benzo(k)fluoranthene	**0.249**		mg/kg dry	0.186	0.186	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 21:02	SR
85-68-7	Benzyl butyl phthalate	ND	U	mg/kg dry	0.103	0.186	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 21:02	SR
101-55-3	4-Bromophenyl phenyl ether	ND	U	mg/kg dry	0.0898	0.186	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 21:02	SR
59-50-7	4-Chloro-3-methylphenol	ND	U	mg/kg dry	0.126	0.186	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 21:02	SR
106-47-8	4-Chloroaniline	ND	U	mg/kg dry	0.0484	0.186	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 21:02	SR
111-91-1	Bis(2-chloroethoxy)methane	ND	U	mg/kg dry	0.0641	0.186	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 21:02	SR
111-44-4	Bis(2-chloroethyl)ether	ND	U	mg/kg dry	0.0950	0.186	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 21:02	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND	U	mg/kg dry	0.0656	0.186	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 21:02	SR
117-81-7	Bis(2-ethylhexyl)phthalate	ND	U	mg/kg dry	0.129	0.186	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 21:02	SR
91-58-7	2-Chloronaphthalene	ND	U	mg/kg dry	0.101	0.186	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 21:02	SR
95-57-8	2-Chlorophenol	ND	U	mg/kg dry	0.0615	0.186	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 21:02	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND	U	mg/kg dry	0.109	0.186	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 21:02	SR
218-01-9	Chrysene	**0.234**		mg/kg dry	0.0857	0.186	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 21:02	SR
53-70-3	Dibenzo(a,h)anthracene	**0.0909**	J	mg/kg dry	0.0749	0.186	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 21:02	SR
132-64-9	Dibenzofuran	ND	U	mg/kg dry	0.0868	0.186	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 21:02	SR
84-74-2	Di-n-butyl phthalate	ND	U	mg/kg dry	0.0756	0.186	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 21:02	SR
95-50-1	1,2-Dichlorobenzene	ND	U	mg/kg dry	0.122	0.186	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 21:02	SR

Sample Information

Client Sample ID: MW-10 (1-3) **York Sample ID:** 13E0744-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0744	170246501	Soil	May 21, 2013 1:33 pm	05/22/2013

Semi-Volatiles, 8270 Target List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
106-46-7	1,4-Dichlorobenzene	ND	U	mg/kg dry	0.115	0.186	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 21:02	SR
541-73-1	1,3-Dichlorobenzene	ND	U	mg/kg dry	0.0589	0.186	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 21:02	SR
91-94-1	3,3'-Dichlorobenzidine	ND	U	mg/kg dry	0.0976	0.186	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 21:02	SR
120-83-2	2,4-Dichlorophenol	ND	U	mg/kg dry	0.152	0.186	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 21:02	SR
84-66-2	Diethyl phthalate	ND	U	mg/kg dry	0.117	0.186	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 21:02	SR
105-67-9	2,4-Dimethylphenol	ND	U	mg/kg dry	0.130	0.186	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 21:02	SR
131-11-3	Dimethyl phthalate	ND	U	mg/kg dry	0.0831	0.186	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 21:02	SR
88-74-4	2-Nitroaniline	ND	U	mg/kg dry	0.162	0.186	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 21:02	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND	U	mg/kg dry	0.235	0.373	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 21:02	SR
51-28-5	2,4-Dinitrophenol	ND	U	mg/kg dry	0.157	0.373	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 21:02	SR
606-20-2	2,6-Dinitrotoluene	ND	U	mg/kg dry	0.0958	0.186	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 21:02	SR
121-14-2	2,4-Dinitrotoluene	ND	U	mg/kg dry	0.0824	0.186	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 21:02	SR
117-84-0	Di-n-octyl phthalate	ND	U	mg/kg dry	0.186	0.186	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 21:02	SR
206-44-0	Fluoranthene	**0.404**		mg/kg dry	0.109	0.186	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 21:02	SR
86-73-7	Fluorene	ND	U	mg/kg dry	0.0894	0.186	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 21:02	SR
118-74-1	Hexachlorobenzene	ND	U	mg/kg dry	0.110	0.186	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 21:02	SR
87-68-3	Hexachlorobutadiene	ND	U	mg/kg dry	0.0630	0.186	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 21:02	SR
77-47-4	Hexachlorocyclopentadiene	ND	U	mg/kg dry	0.139	0.186	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 21:02	SR
67-72-1	Hexachloroethane	ND	U	mg/kg dry	0.0533	0.186	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 21:02	SR
193-39-5	Indeno(1,2,3-cd)pyrene	**0.167**	J	mg/kg dry	0.0850	0.186	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 21:02	SR
78-59-1	Isophorone	ND	U	mg/kg dry	0.0641	0.186	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 21:02	SR
91-57-6	2-Methylnaphthalene	ND	U	mg/kg dry	0.143	0.186	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 21:02	SR
95-48-7	2-Methylphenol	ND	U	mg/kg dry	0.0708	0.186	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 21:02	SR
65794-96-9	3- & 4-Methylphenols	ND	U	mg/kg dry	0.0809	0.186	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 21:02	SR
91-20-3	Naphthalene	ND	U	mg/kg dry	0.0458	0.186	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 21:02	SR
99-09-2	3-Nitroaniline	ND	U	mg/kg dry	0.185	0.186	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 21:02	SR
100-01-6	4-Nitroaniline	ND	U	mg/kg dry	0.0771	0.186	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 21:02	SR
98-95-3	Nitrobenzene	ND	U	mg/kg dry	0.0548	0.186	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 21:02	SR
100-02-7	4-Nitrophenol	ND	U	mg/kg dry	0.0701	0.186	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 21:02	SR
88-75-5	2-Nitrophenol	ND	U	mg/kg dry	0.0507	0.186	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 21:02	SR
621-64-7	N-nitroso-di-n-propylamine	ND	U	mg/kg dry	0.0622	0.186	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 21:02	SR
62-75-9	N-Nitrosodimethylamine	ND	U	mg/kg dry	0.0764	0.186	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 21:02	SR

Sample Information

Client Sample ID: MW-10 (1-3) **York Sample ID:** 13E0744-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0744	170246501	Soil	May 21, 2013 1:33 pm	05/22/2013

Semi-Volatiles, 8270 Target List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
86-30-6	N-Nitrosodiphenylamine	ND	U	mg/kg dry	0.0842	0.186	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 21:02	SR
87-86-5	Pentachlorophenol	ND	U	mg/kg dry	0.140	0.186	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 21:02	SR
85-01-8	Phenanthrene	**0.144**	J	mg/kg dry	0.0973	0.186	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 21:02	SR
108-95-2	Phenol	ND	U	mg/kg dry	0.0805	0.186	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 21:02	SR
129-00-0	Pyrene	**0.280**		mg/kg dry	0.0760	0.186	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 21:02	SR
110-86-1	Pyridine	ND	U	mg/kg dry	0.131	0.186	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 21:02	SR
120-82-1	1,2,4-Trichlorobenzene	ND	U	mg/kg dry	0.0674	0.186	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 21:02	SR
95-95-4	2,4,5-Trichlorophenol	ND	U	mg/kg dry	0.145	0.186	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 21:02	SR
88-06-2	2,4,6-Trichlorophenol	ND	U	mg/kg dry	0.0946	0.186	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 21:02	SR

	Surrogate Recoveries	Result	Acceptance Range
5175-83-7	*Surrogate: 2,4,6-Tribromophenol*	*76.5 %*	*15-110*
321-60-8	*Surrogate: 2-Fluorobiphenyl*	*57.3 %*	*30-130*
367-12-4	*Surrogate: 2-Fluorophenol*	*52.7 %*	*15-110*
4165-60-0	*Surrogate: Nitrobenzene-d5*	*60.0 %*	*30-130*
4165-62-2	*Surrogate: Phenol-d5*	*56.6 %*	*15-110*
1718-51-0	*Surrogate: Terphenyl-d14*	*53.3 %*	*30-130*

Pesticides/PCBs, EPA 8081/8082 List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
8001-35-2	Toxaphene	ND	U	mg/kg dry	0.0933	0.0933	5	EPA SW 846-8081/8082	05/24/2013 08:59	05/28/2013 14:32	JW
72-43-5	Methoxychlor	ND	U	mg/kg dry	0.00922	0.00922	5	EPA SW 846-8081/8082	05/24/2013 08:59	05/28/2013 14:32	JW
1024-57-3	Heptachlor epoxide	ND	U	mg/kg dry	0.00184	0.00184	5	EPA SW 846-8081/8082	05/24/2013 08:59	05/28/2013 14:32	JW
76-44-8	Heptachlor	ND	U	mg/kg dry	0.00184	0.00184	5	EPA SW 846-8081/8082	05/24/2013 08:59	05/28/2013 14:32	JW
58-89-9	gamma-BHC (Lindane)	ND	U	mg/kg dry	0.00184	0.00184	5	EPA SW 846-8081/8082	05/24/2013 08:59	05/28/2013 14:32	JW
53494-70-5	Endrin ketone	ND	U	mg/kg dry	0.00184	0.00184	5	EPA SW 846-8081/8082	05/24/2013 08:59	05/28/2013 14:32	JW
7421-93-4	Endrin aldehyde	ND	U	mg/kg dry	0.00184	0.00184	5	EPA SW 846-8081/8082	05/24/2013 08:59	05/28/2013 14:32	JW
72-20-8	Endrin	ND	U	mg/kg dry	0.00184	0.00184	5	EPA SW 846-8081/8082	05/24/2013 08:59	05/28/2013 14:32	JW
1031-07-8	Endosulfan sulfate	ND	U	mg/kg dry	0.00184	0.00184	5	EPA SW 846-8081/8082	05/24/2013 08:59	05/28/2013 14:32	JW
33213-65-9	Endosulfan II	ND	U	mg/kg dry	0.00184	0.00184	5	EPA SW 846-8081/8082	05/24/2013 08:59	05/28/2013 14:32	JW
959-98-8	Endosulfan I	ND	U	mg/kg dry	0.00184	0.00184	5	EPA SW 846-8081/8082	05/24/2013 08:59	05/28/2013 14:32	JW
60-57-1	Dieldrin	ND	U	mg/kg dry	0.00184	0.00184	5	EPA SW 846-8081/8082	05/24/2013 08:59	05/28/2013 14:32	JW
319-86-8	delta-BHC	ND	U	mg/kg dry	0.00184	0.00184	5	EPA SW 846-8081/8082	05/24/2013 08:59	05/28/2013 14:32	JW
57-74-9	Chlordane, total	ND	U	mg/kg dry	0.00738	0.00738	5	EPA SW 846-8081/8082	05/24/2013 08:59	05/28/2013 14:32	JW
319-85-7	beta-BHC	ND	U	mg/kg dry	0.00184	0.00184	5	EPA SW 846-8081/8082	05/24/2013 08:59	05/28/2013 14:32	JW

Sample Information

Client Sample ID: MW-10 (1-3) **York Sample ID:** 13E0744-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0744	170246501	Soil	May 21, 2013 1:33 pm	05/22/2013

Pesticides/PCBs, EPA 8081/8082 List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
319-84-6	alpha-BHC	ND	U	mg/kg dry	0.00184	0.00184	5	EPA SW 846-8081/8082	05/24/2013 08:59	05/28/2013 14:32	JW
309-00-2	Aldrin	ND	U	mg/kg dry	0.00184	0.00184	5	EPA SW 846-8081/8082	05/24/2013 08:59	05/28/2013 14:32	JW
50-29-3	4,4'-DDT	ND	U	mg/kg dry	0.00184	0.00184	5	EPA SW 846-8081/8082	05/24/2013 08:59	05/28/2013 14:32	JW
72-55-9	4,4'-DDE	ND	U	mg/kg dry	0.00184	0.00184	5	EPA SW 846-8081/8082	05/24/2013 08:59	05/28/2013 14:32	JW
72-54-8	4,4'-DDD	ND	U	mg/kg dry	0.00184	0.00184	5	EPA SW 846-8081/8082	05/24/2013 08:59	05/28/2013 14:32	JW
11096-82-5	Aroclor 1260	ND	U	mg/kg dry	0.0190	0.0190	1	EPA SW 846-8081/8082	05/24/2013 08:59	05/28/2013 14:22	JW
11097-69-1	Aroclor 1254	ND	U	mg/kg dry	0.0190	0.0190	1	EPA SW 846-8081/8082	05/24/2013 08:59	05/28/2013 14:22	JW
12672-29-6	Aroclor 1248	ND	U	mg/kg dry	0.0190	0.0190	1	EPA SW 846-8081/8082	05/24/2013 08:59	05/28/2013 14:22	JW
53469-21-9	Aroclor 1242	ND	U	mg/kg dry	0.0190	0.0190	1	EPA SW 846-8081/8082	05/24/2013 08:59	05/28/2013 14:22	JW
11141-16-5	Aroclor 1232	ND	U	mg/kg dry	0.0190	0.0190	1	EPA SW 846-8081/8082	05/24/2013 08:59	05/28/2013 14:22	JW
11104-28-2	Aroclor 1221	ND	U	mg/kg dry	0.0190	0.0190	1	EPA SW 846-8081/8082	05/24/2013 08:59	05/28/2013 14:22	JW
12674-11-2	Aroclor 1016	ND	U	mg/kg dry	0.0190	0.0190	1	EPA SW 846-8081/8082	05/24/2013 08:59	05/28/2013 14:22	JW
1336-36-3	Total PCBs	ND	U	mg/kg dry	0.00760	0.0190	1	EPA SW 846-8081/8082	05/24/2013 08:59	05/28/2013 14:22	JW

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*53.6 %*	*30-150*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*37.1 %*	*30-150*

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	**12100**		mg/kg dry	1.14	2.24	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 21:01	MW
7440-36-0	Antimony	ND	U	mg/kg dry	0.246	0.559	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 21:01	MW
7440-38-2	Arsenic	**2.92**		mg/kg dry	0.380	1.12	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 21:01	MW
7440-39-3	Barium	**72.4**		mg/kg dry	0.145	0.559	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 21:01	MW
7440-41-7	Beryllium	ND	U	mg/kg dry	0.112	0.112	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 21:01	MW
7440-43-9	Cadmium	ND	U	mg/kg dry	0.112	0.559	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 21:01	MW
7440-70-2	Calcium	**5190**		mg/kg dry	0.045	5.59	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 21:01	MW
7440-47-3	Chromium	**27.4**		mg/kg dry	0.134	0.559	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 21:01	MW
7440-48-4	Cobalt	**10.4**		mg/kg dry	0.089	0.559	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 21:01	MW
7440-50-8	Copper	**30.7**		mg/kg dry	0.134	0.559	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 21:01	MW
7439-89-6	Iron	**18700**		mg/kg dry	0.727	2.24	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 21:01	MW
7439-92-1	Lead	**35.8**		mg/kg dry	0.190	0.335	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 21:01	MW
7439-95-4	Magnesium	**7530**		mg/kg dry	0.503	5.59	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 21:01	MW
7439-96-5	Manganese	**307**		mg/kg dry	0.123	1.12	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 21:01	MW
7440-02-0	Nickel	**30.7**		mg/kg dry	0.145	0.559	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 21:01	MW

Sample Information

Client Sample ID: MW-10 (1-3) **York Sample ID:** 13E0744-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0744	170246501	Soil	May 21, 2013 1:33 pm	05/22/2013

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-09-7	Potassium	**2000**		mg/kg dry	3.78	11.2	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 21:01	MW
7782-49-2	Selenium	ND	U	mg/kg dry	0.559	0.559	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 21:01	MW
7440-22-4	Silver	ND	U	mg/kg dry	0.112	0.559	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 21:01	MW
7440-23-5	Sodium	**195**	B	mg/kg dry	5.89	11.2	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 21:01	MW
7440-28-0	Thallium	ND	U	mg/kg dry	0.358	0.559	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 21:01	MW
7440-62-2	Vanadium	**34.1**		mg/kg dry	0.123	0.559	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 21:01	MW
7440-66-6	Zinc	**77.4**		mg/kg dry	0.101	0.559	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 21:01	MW

Mercury by 7470/7471

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-7471

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND	U	mg/kg dry	0.0369	0.0369	1	EPA SW846-7471	05/24/2013 10:58	05/24/2013 18:33	AA

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	**89.5**		%	0.100	0.100	1	SM 2540G	05/23/2013 09:08	05/23/2013 12:26	AMC

Sample Information

Client Sample ID: MW-10 (32-34) **York Sample ID:** 13E0744-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0744	170246501	Soil	May 21, 2013 1:55 pm	05/22/2013

Volatile Organics, 8260 List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND	U	mg/kg dry	0.0031	0.0062	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 18:47	SS
71-55-6	1,1,1-Trichloroethane	ND	U	mg/kg dry	0.0031	0.0062	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 18:47	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND	U	mg/kg dry	0.0031	0.0062	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 18:47	SS
76-13-1	,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113	ND	U	mg/kg dry	0.0031	0.0062	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 18:47	SS
79-00-5	1,1,2-Trichloroethane	ND	U	mg/kg dry	0.0031	0.0062	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 18:47	SS
75-34-3	1,1-Dichloroethane	ND	U	mg/kg dry	0.0031	0.0062	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 18:47	SS
75-35-4	1,1-Dichloroethylene	ND	U	mg/kg dry	0.0031	0.0062	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 18:47	SS
563-58-6	1,1-Dichloropropylene	ND	U	mg/kg dry	0.0031	0.0062	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 18:47	SS
87-61-6	1,2,3-Trichlorobenzene	ND	U	mg/kg dry	0.0031	0.0062	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 18:47	SS

Sample Information

Client Sample ID: MW-10 (32-34) **York Sample ID:** 13E0744-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0744	170246501	Soil	May 21, 2013 1:55 pm	05/22/2013

Volatile Organics, 8260 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
96-18-4	1,2,3-Trichloropropane	ND	U	mg/kg dry	0.0031	0.0062	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 18:47	SS
120-82-1	1,2,4-Trichlorobenzene	ND	U	mg/kg dry	0.0031	0.0062	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 18:47	SS
95-63-6	1,2,4-Trimethylbenzene	ND	U	mg/kg dry	0.0031	0.0062	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 18:47	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND	U	mg/kg dry	0.0031	0.0062	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 18:47	SS
106-93-4	1,2-Dibromoethane	ND	U	mg/kg dry	0.0031	0.0062	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 18:47	SS
95-50-1	1,2-Dichlorobenzene	ND	U	mg/kg dry	0.0031	0.0062	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 18:47	SS
107-06-2	1,2-Dichloroethane	ND	U	mg/kg dry	0.0031	0.0062	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 18:47	SS
78-87-5	1,2-Dichloropropane	ND	U	mg/kg dry	0.0031	0.0062	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 18:47	SS
108-67-8	1,3,5-Trimethylbenzene	ND	U	mg/kg dry	0.0031	0.0062	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 18:47	SS
541-73-1	1,3-Dichlorobenzene	ND	U	mg/kg dry	0.0031	0.0062	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 18:47	SS
142-28-9	1,3-Dichloropropane	ND	U	mg/kg dry	0.0031	0.0062	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 18:47	SS
106-46-7	1,4-Dichlorobenzene	ND	U	mg/kg dry	0.0031	0.0062	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 18:47	SS
123-91-1	1,4-Dioxane	ND	U	mg/kg dry	0.062	0.12	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 18:47	SS
594-20-7	2,2-Dichloropropane	ND	U	mg/kg dry	0.0031	0.0062	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 18:47	SS
78-93-3	2-Butanone	ND	U	mg/kg dry	0.0031	0.0062	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 18:47	SS
95-49-8	2-Chlorotoluene	ND	U	mg/kg dry	0.0031	0.0062	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 18:47	SS
106-43-4	4-Chlorotoluene	ND	U	mg/kg dry	0.0031	0.0062	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 18:47	SS
67-64-1	Acetone	**0.0044**	J, B	mg/kg dry	0.0031	0.012	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 18:47	SS
71-43-2	Benzene	ND	U	mg/kg dry	0.0031	0.0062	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 18:47	SS
108-86-1	Bromobenzene	ND	U	mg/kg dry	0.0031	0.0062	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 18:47	SS
74-97-5	Bromochloromethane	ND	U	mg/kg dry	0.0031	0.0062	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 18:47	SS
75-27-4	Bromodichloromethane	ND	U	mg/kg dry	0.0031	0.0062	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 18:47	SS
75-25-2	Bromoform	ND	U	mg/kg dry	0.0031	0.0062	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 18:47	SS
74-83-9	Bromomethane	ND	U	mg/kg dry	0.0031	0.0062	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 18:47	SS
56-23-5	Carbon tetrachloride	ND	U	mg/kg dry	0.0031	0.0062	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 18:47	SS
108-90-7	Chlorobenzene	ND	U	mg/kg dry	0.0031	0.0062	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 18:47	SS
75-00-3	Chloroethane	ND	U	mg/kg dry	0.0031	0.0062	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 18:47	SS
67-66-3	Chloroform	ND	U	mg/kg dry	0.0031	0.0062	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 18:47	SS
74-87-3	Chloromethane	ND	U	mg/kg dry	0.0031	0.0062	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 18:47	SS
156-59-2	cis-1,2-Dichloroethylene	ND	U	mg/kg dry	0.0031	0.0062	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 18:47	SS
10061-01-5	cis-1,3-Dichloropropylene	ND	U	mg/kg dry	0.0031	0.0062	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 18:47	SS
124-48-1	Dibromochloromethane	ND	U	mg/kg dry	0.0031	0.0062	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 18:47	SS

Sample Information

Client Sample ID: MW-10 (32-34) **York Sample ID:** 13E0744-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0744	170246501	Soil	May 21, 2013 1:55 pm	05/22/2013

Volatile Organics, 8260 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
74-95-3	Dibromomethane	ND	U	mg/kg dry	0.0031	0.0062	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 18:47	SS
75-71-8	Dichlorodifluoromethane	ND	U	mg/kg dry	0.0031	0.0062	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 18:47	SS
100-41-4	Ethyl Benzene	ND	U	mg/kg dry	0.0031	0.0062	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 18:47	SS
87-68-3	Hexachlorobutadiene	ND	U	mg/kg dry	0.0031	0.0062	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 18:47	SS
98-82-8	Isopropylbenzene	ND	U	mg/kg dry	0.0031	0.0062	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 18:47	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND	U	mg/kg dry	0.0031	0.0062	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 18:47	SS
75-09-2	Methylene chloride	**0.0088**	J	mg/kg dry	0.0031	0.012	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 18:47	SS
91-20-3	Naphthalene	ND	U	mg/kg dry	0.0031	0.012	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 18:47	SS
104-51-8	n-Butylbenzene	ND	U	mg/kg dry	0.0031	0.0062	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 18:47	SS
103-65-1	n-Propylbenzene	ND	U	mg/kg dry	0.0031	0.0062	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 18:47	SS
95-47-6	o-Xylene	ND	U	mg/kg dry	0.0031	0.0062	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 18:47	SS
179601-23-1	p- & m- Xylenes	ND	U	mg/kg dry	0.0062	0.012	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 18:47	SS
99-87-6	p-Isopropyltoluene	ND	U	mg/kg dry	0.0031	0.0062	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 18:47	SS
135-98-8	sec-Butylbenzene	ND	U	mg/kg dry	0.0031	0.0062	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 18:47	SS
100-42-5	Styrene	ND	U	mg/kg dry	0.0031	0.0062	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 18:47	SS
98-06-6	tert-Butylbenzene	ND	U	mg/kg dry	0.0031	0.0062	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 18:47	SS
127-18-4	Tetrachloroethylene	ND	U	mg/kg dry	0.0031	0.0062	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 18:47	SS
108-88-3	Toluene	ND	U	mg/kg dry	0.0031	0.0062	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 18:47	SS
156-60-5	trans-1,2-Dichloroethylene	ND	U	mg/kg dry	0.0031	0.0062	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 18:47	SS
10061-02-6	trans-1,3-Dichloropropylene	ND	U	mg/kg dry	0.0031	0.0062	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 18:47	SS
79-01-6	Trichloroethylene	ND	U	mg/kg dry	0.0031	0.0062	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 18:47	SS
75-69-4	Trichlorofluoromethane	ND	U	mg/kg dry	0.0031	0.0062	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 18:47	SS
75-01-4	Vinyl Chloride	ND	U	mg/kg dry	0.0031	0.0062	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 18:47	SS
1330-20-7	Xylenes, Total	ND	U	mg/kg dry	0.0092	0.018	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 18:47	SS
108-05-4	Vinyl acetate	ND	U	mg/kg dry	0.0031	0.0062	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 18:47	SS

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*104 %*	*73-130*
460-00-4	*Surrogate: p-Bromofluorobenzene*	*109 %*	*72-127*
2037-26-5	*Surrogate: Toluene-d8*	*99.8 %*	*84-117*

Sample Information

Client Sample ID: MW-10 (32-34) **York Sample ID:** 13E0744-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0744	170246501	Soil	May 21, 2013 1:55 pm	05/22/2013

Semi-Volatiles, 8270 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND	U	mg/kg dry	0.0698	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 21:32	SR
208-96-8	Acenaphthylene	ND	U	mg/kg dry	0.0925	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 21:32	SR
62-53-3	Aniline	ND	U	mg/kg dry	0.110	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 21:32	SR
120-12-7	Anthracene	ND	U	mg/kg dry	0.105	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 21:32	SR
56-55-3	Benzo(a)anthracene	ND	U	mg/kg dry	0.0721	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 21:32	SR
50-32-8	Benzo(a)pyrene	ND	U	mg/kg dry	0.0763	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 21:32	SR
205-99-2	Benzo(b)fluoranthene	ND	U	mg/kg dry	0.162	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 21:32	SR
191-24-2	Benzo(g,h,i)perylene	ND	U	mg/kg dry	0.0640	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 21:32	SR
100-51-6	Benzyl alcohol	ND	U	mg/kg dry	0.193	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 21:32	SR
207-08-9	Benzo(k)fluoranthene	ND	U	mg/kg dry	0.193	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 21:32	SR
85-68-7	Benzyl butyl phthalate	ND	U	mg/kg dry	0.106	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 21:32	SR
101-55-3	4-Bromophenyl phenyl ether	ND	U	mg/kg dry	0.0929	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 21:32	SR
59-50-7	4-Chloro-3-methylphenol	ND	U	mg/kg dry	0.130	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 21:32	SR
106-47-8	4-Chloroaniline	ND	U	mg/kg dry	0.0501	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 21:32	SR
111-91-1	Bis(2-chloroethoxy)methane	ND	U	mg/kg dry	0.0663	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 21:32	SR
111-44-4	Bis(2-chloroethyl)ether	ND	U	mg/kg dry	0.0983	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 21:32	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND	U	mg/kg dry	0.0679	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 21:32	SR
117-81-7	Bis(2-ethylhexyl)phthalate	ND	U	mg/kg dry	0.133	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 21:32	SR
91-58-7	2-Chloronaphthalene	ND	U	mg/kg dry	0.104	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 21:32	SR
95-57-8	2-Chlorophenol	ND	U	mg/kg dry	0.0636	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 21:32	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND	U	mg/kg dry	0.113	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 21:32	SR
218-01-9	Chrysene	ND	U	mg/kg dry	0.0887	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 21:32	SR
53-70-3	Dibenzo(a,h)anthracene	ND	U	mg/kg dry	0.0775	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 21:32	SR
132-64-9	Dibenzofuran	ND	U	mg/kg dry	0.0898	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 21:32	SR
84-74-2	Di-n-butyl phthalate	ND	U	mg/kg dry	0.0783	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 21:32	SR
95-50-1	1,2-Dichlorobenzene	ND	U	mg/kg dry	0.126	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 21:32	SR
106-46-7	1,4-Dichlorobenzene	ND	U	mg/kg dry	0.119	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 21:32	SR
541-73-1	1,3-Dichlorobenzene	ND	U	mg/kg dry	0.0609	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 21:32	SR
91-94-1	3,3'-Dichlorobenzidine	ND	U	mg/kg dry	0.101	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 21:32	SR
120-83-2	2,4-Dichlorophenol	ND	U	mg/kg dry	0.157	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 21:32	SR
84-66-2	Diethyl phthalate	ND	U	mg/kg dry	0.121	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 21:32	SR
105-67-9	2,4-Dimethylphenol	ND	U	mg/kg dry	0.135	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 21:32	SR

Sample Information

Client Sample ID: MW-10 (32-34) **York Sample ID:** 13E0744-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0744	170246501	Soil	May 21, 2013 1:55 pm	05/22/2013

Semi-Volatiles, 8270 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
131-11-3	Dimethyl phthalate	ND	U	mg/kg dry	0.0860	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 21:32	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND	U	mg/kg dry	0.243	0.386	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 21:32	SR
88-74-4	2-Nitroaniline	ND	U	mg/kg dry	0.168	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 21:32	SR
51-28-5	2,4-Dinitrophenol	ND	U	mg/kg dry	0.162	0.386	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 21:32	SR
606-20-2	2,6-Dinitrotoluene	ND	U	mg/kg dry	0.0991	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 21:32	SR
121-14-2	2,4-Dinitrotoluene	ND	U	mg/kg dry	0.0852	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 21:32	SR
117-84-0	Di-n-octyl phthalate	ND	U	mg/kg dry	0.193	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 21:32	SR
206-44-0	Fluoranthene	ND	U	mg/kg dry	0.113	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 21:32	SR
86-73-7	Fluorene	ND	U	mg/kg dry	0.0925	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 21:32	SR
118-74-1	Hexachlorobenzene	ND	U	mg/kg dry	0.114	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 21:32	SR
87-68-3	Hexachlorobutadiene	ND	U	mg/kg dry	0.0652	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 21:32	SR
77-47-4	Hexachlorocyclopentadiene	ND	U	mg/kg dry	0.143	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 21:32	SR
67-72-1	Hexachloroethane	ND	U	mg/kg dry	0.0551	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 21:32	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND	U	mg/kg dry	0.0879	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 21:32	SR
78-59-1	Isophorone	ND	U	mg/kg dry	0.0663	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 21:32	SR
91-57-6	2-Methylnaphthalene	ND	U	mg/kg dry	0.148	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 21:32	SR
95-48-7	2-Methylphenol	ND	U	mg/kg dry	0.0733	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 21:32	SR
65794-96-9	3- & 4-Methylphenols	ND	U	mg/kg dry	0.0837	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 21:32	SR
91-20-3	Naphthalene	ND	U	mg/kg dry	0.0474	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 21:32	SR
99-09-2	3-Nitroaniline	ND	U	mg/kg dry	0.192	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 21:32	SR
100-01-6	4-Nitroaniline	ND	U	mg/kg dry	0.0798	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 21:32	SR
98-95-3	Nitrobenzene	ND	U	mg/kg dry	0.0567	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 21:32	SR
100-02-7	4-Nitrophenol	ND	U	mg/kg dry	0.0725	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 21:32	SR
88-75-5	2-Nitrophenol	ND	U	mg/kg dry	0.0524	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 21:32	SR
621-64-7	N-nitroso-di-n-propylamine	ND	U	mg/kg dry	0.0644	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 21:32	SR
62-75-9	N-Nitrosodimethylamine	ND	U	mg/kg dry	0.0790	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 21:32	SR
86-30-6	N-Nitrosodiphenylamine	ND	U	mg/kg dry	0.0871	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 21:32	SR
87-86-5	Pentachlorophenol	ND	U	mg/kg dry	0.145	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 21:32	SR
85-01-8	Phenanthrene	ND	U	mg/kg dry	0.101	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 21:32	SR
108-95-2	Phenol	ND	U	mg/kg dry	0.0833	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 21:32	SR
129-00-0	Pyrene	ND	U	mg/kg dry	0.0787	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 21:32	SR
110-86-1	Pyridine	ND	U	mg/kg dry	0.135	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 21:32	SR

Sample Information

Client Sample ID: MW-10 (32-34) **York Sample ID:** 13E0744-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0744	170246501	Soil	May 21, 2013 1:55 pm	05/22/2013

Semi-Volatiles, 8270 Target List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
120-82-1	1,2,4-Trichlorobenzene	ND	U	mg/kg dry	0.0698	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 21:32	SR
95-95-4	2,4,5-Trichlorophenol	ND	U	mg/kg dry	0.150	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 21:32	SR
88-06-2	2,4,6-Trichlorophenol	ND	U	mg/kg dry	0.0979	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 21:32	SR

	Surrogate Recoveries	Result	Acceptance Range
5175-83-7	*Surrogate: 2,4,6-Tribromophenol*	*74.1 %*	*15-110*
321-60-8	*Surrogate: 2-Fluorobiphenyl*	*57.7 %*	*30-130*
367-12-4	*Surrogate: 2-Fluorophenol*	*58.6 %*	*15-110*
4165-60-0	*Surrogate: Nitrobenzene-d5*	*63.4 %*	*30-130*
4165-62-2	*Surrogate: Phenol-d5*	*61.2 %*	*15-110*
1718-51-0	*Surrogate: Terphenyl-d14*	*55.8 %*	*30-130*

Polychlorinated Biphenyls (PCB)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0197	0.0197	1	EPA SW 846-8082A	05/24/2013 06:50	05/28/2013 14:51	JW
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0197	0.0197	1	EPA SW 846-8082A	05/24/2013 06:50	05/28/2013 14:51	JW
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0197	0.0197	1	EPA SW 846-8082A	05/24/2013 06:50	05/28/2013 14:51	JW
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0197	0.0197	1	EPA SW 846-8082A	05/24/2013 06:50	05/28/2013 14:51	JW
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0197	0.0197	1	EPA SW 846-8082A	05/24/2013 06:50	05/28/2013 14:51	JW
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0197	0.0197	1	EPA SW 846-8082A	05/24/2013 06:50	05/28/2013 14:51	JW
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0197	0.0197	1	EPA SW 846-8082A	05/24/2013 06:50	05/28/2013 14:51	JW
1336-36-3	Total PCBs	ND		mg/kg dry	0.0197	0.0197	1	EPA SW 846-8082A	05/24/2013 06:50	05/28/2013 14:51	JW

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*70.0 %*	*30-150*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*67.7 %*	*30-150*

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	**4770**		mg/kg dry	1.18	2.31	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 21:05	MW
7440-36-0	Antimony	ND	U	mg/kg dry	0.254	0.578	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 21:05	MW
7440-38-2	Arsenic	**1.33**		mg/kg dry	0.393	1.16	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 21:05	MW
7440-39-3	Barium	**41.1**		mg/kg dry	0.150	0.578	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 21:05	MW
7440-41-7	Beryllium	ND	U	mg/kg dry	0.116	0.116	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 21:05	MW
7440-43-9	Cadmium	ND	U	mg/kg dry	0.116	0.578	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 21:05	MW
7440-70-2	Calcium	**1200**		mg/kg dry	0.046	5.78	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 21:05	MW

Sample Information

Client Sample ID: MW-10 (32-34) **York Sample ID:** 13E0744-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0744	170246501	Soil	May 21, 2013 1:55 pm	05/22/2013

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-47-3	Chromium	**11.5**		mg/kg dry	0.139	0.578	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 21:05	MW
7440-48-4	Cobalt	**5.36**		mg/kg dry	0.093	0.578	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 21:05	MW
7440-50-8	Copper	**10.9**		mg/kg dry	0.139	0.578	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 21:05	MW
7439-89-6	Iron	**10700**		mg/kg dry	0.752	2.31	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 21:05	MW
7439-92-1	Lead	**3.85**		mg/kg dry	0.197	0.347	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 21:05	MW
7439-95-4	Magnesium	**2170**		mg/kg dry	0.520	5.78	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 21:05	MW
7439-96-5	Manganese	**188**		mg/kg dry	0.127	1.16	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 21:05	MW
7440-02-0	Nickel	**13.6**		mg/kg dry	0.150	0.578	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 21:05	MW
7440-09-7	Potassium	**1150**		mg/kg dry	3.91	11.6	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 21:05	MW
7782-49-2	Selenium	**0.780**		mg/kg dry	0.578	0.578	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 21:05	MW
7440-22-4	Silver	ND	U	mg/kg dry	0.116	0.578	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 21:05	MW
7440-23-5	Sodium	**320**	B	mg/kg dry	6.10	11.6	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 21:05	MW
7440-28-0	Thallium	ND	U	mg/kg dry	0.370	0.578	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 21:05	MW
7440-62-2	Vanadium	**15.0**		mg/kg dry	0.127	0.578	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 21:05	MW
7440-66-6	Zinc	**22.8**		mg/kg dry	0.104	0.578	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 21:05	MW

Mercury by 7470/7471

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-7471

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND	U	mg/kg dry	0.0382	0.0382	1	EPA SW846-7471	05/24/2013 10:58	05/24/2013 18:33	AA

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	**86.5**		%	0.100	0.100	1	SM 2540G	05/23/2013 09:08	05/23/2013 12:26	AMC

Sample Information

Client Sample ID: LG-19 (0-2) **York Sample ID:** 13E0744-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0744	170246501	Soil	May 21, 2013 1:06 pm	05/22/2013

Volatile Organics, 8260 List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND	U	mg/kg dry	0.0037	0.0075	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:49	SS
71-55-6	1,1,1-Trichloroethane	ND	U	mg/kg dry	0.0037	0.0075	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:49	SS

Sample Information

Client Sample ID: LG-19 (0-2) **York Sample ID:** 13E0744-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0744	170246501	Soil	May 21, 2013 1:06 pm	05/22/2013

Volatile Organics, 8260 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
79-34-5	1,1,2,2-Tetrachloroethane	ND	U	mg/kg dry	0.0037	0.0075	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:49	SS
76-13-1	,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113	ND	U	mg/kg dry	0.0037	0.0075	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:49	SS
79-00-5	1,1,2-Trichloroethane	ND	U	mg/kg dry	0.0037	0.0075	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:49	SS
75-34-3	1,1-Dichloroethane	ND	U	mg/kg dry	0.0037	0.0075	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:49	SS
75-35-4	1,1-Dichloroethylene	ND	U	mg/kg dry	0.0037	0.0075	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:49	SS
563-58-6	1,1-Dichloropropylene	ND	U	mg/kg dry	0.0037	0.0075	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:49	SS
87-61-6	1,2,3-Trichlorobenzene	ND	U	mg/kg dry	0.0037	0.0075	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:49	SS
96-18-4	1,2,3-Trichloropropane	ND	U	mg/kg dry	0.0037	0.0075	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:49	SS
120-82-1	1,2,4-Trichlorobenzene	ND	U	mg/kg dry	0.0037	0.0075	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:49	SS
95-63-6	1,2,4-Trimethylbenzene	ND	U	mg/kg dry	0.0037	0.0075	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:49	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND	U	mg/kg dry	0.0037	0.0075	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:49	SS
106-93-4	1,2-Dibromoethane	ND	U	mg/kg dry	0.0037	0.0075	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:49	SS
95-50-1	1,2-Dichlorobenzene	ND	U	mg/kg dry	0.0037	0.0075	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:49	SS
107-06-2	1,2-Dichloroethane	ND	U	mg/kg dry	0.0037	0.0075	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:49	SS
78-87-5	1,2-Dichloropropane	ND	U	mg/kg dry	0.0037	0.0075	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:49	SS
108-67-8	1,3,5-Trimethylbenzene	ND	U	mg/kg dry	0.0037	0.0075	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:49	SS
541-73-1	1,3-Dichlorobenzene	ND	U	mg/kg dry	0.0037	0.0075	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:49	SS
142-28-9	1,3-Dichloropropane	ND	U	mg/kg dry	0.0037	0.0075	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:49	SS
106-46-7	1,4-Dichlorobenzene	ND	U	mg/kg dry	0.0037	0.0075	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:49	SS
123-91-1	1,4-Dioxane	ND	U	mg/kg dry	0.075	0.15	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:49	SS
594-20-7	2,2-Dichloropropane	ND	U	mg/kg dry	0.0037	0.0075	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:49	SS
78-93-3	2-Butanone	ND	U	mg/kg dry	0.0037	0.0075	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:49	SS
95-49-8	2-Chlorotoluene	ND	U	mg/kg dry	0.0037	0.0075	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:49	SS
106-43-4	4-Chlorotoluene	ND	U	mg/kg dry	0.0037	0.0075	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:49	SS
67-64-1	Acetone	**0.0093**	J	mg/kg dry	0.0037	0.015	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:49	SS
71-43-2	Benzene	ND	U	mg/kg dry	0.0037	0.0075	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:49	SS
108-86-1	Bromobenzene	ND	U	mg/kg dry	0.0037	0.0075	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:49	SS
74-97-5	Bromochloromethane	ND	U	mg/kg dry	0.0037	0.0075	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:49	SS
75-27-4	Bromodichloromethane	ND	U	mg/kg dry	0.0037	0.0075	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:49	SS
75-25-2	Bromoform	ND	U	mg/kg dry	0.0037	0.0075	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:49	SS
74-83-9	Bromomethane	ND	U	mg/kg dry	0.0037	0.0075	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:49	SS
56-23-5	Carbon tetrachloride	ND	U	mg/kg dry	0.0037	0.0075	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:49	SS

Sample Information

Client Sample ID: LG-19 (0-2) **York Sample ID:** 13E0744-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0744	170246501	Soil	May 21, 2013 1:06 pm	05/22/2013

Volatile Organics, 8260 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-90-7	Chlorobenzene	ND	U	mg/kg dry	0.0037	0.0075	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:49	SS
75-00-3	Chloroethane	ND	U	mg/kg dry	0.0037	0.0075	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:49	SS
67-66-3	Chloroform	ND	U	mg/kg dry	0.0037	0.0075	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:49	SS
74-87-3	Chloromethane	ND	U	mg/kg dry	0.0037	0.0075	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:49	SS
156-59-2	cis-1,2-Dichloroethylene	ND	U	mg/kg dry	0.0037	0.0075	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:49	SS
10061-01-5	cis-1,3-Dichloropropylene	ND	U	mg/kg dry	0.0037	0.0075	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:49	SS
124-48-1	Dibromochloromethane	ND	U	mg/kg dry	0.0037	0.0075	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:49	SS
74-95-3	Dibromomethane	ND	U	mg/kg dry	0.0037	0.0075	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:49	SS
75-71-8	Dichlorodifluoromethane	ND	U	mg/kg dry	0.0037	0.0075	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:49	SS
100-41-4	Ethyl Benzene	ND	U	mg/kg dry	0.0037	0.0075	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:49	SS
87-68-3	Hexachlorobutadiene	ND	U	mg/kg dry	0.0037	0.0075	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:49	SS
98-82-8	Isopropylbenzene	ND	U	mg/kg dry	0.0037	0.0075	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:49	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND	U	mg/kg dry	0.0037	0.0075	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:49	SS
75-09-2	Methylene chloride	**0.0086**	J, B	mg/kg dry	0.0037	0.015	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:49	SS
91-20-3	Naphthalene	ND	U	mg/kg dry	0.0037	0.015	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:49	SS
104-51-8	n-Butylbenzene	ND	U	mg/kg dry	0.0037	0.0075	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:49	SS
103-65-1	n-Propylbenzene	ND	U	mg/kg dry	0.0037	0.0075	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:49	SS
95-47-6	o-Xylene	ND	U	mg/kg dry	0.0037	0.0075	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:49	SS
179601-23-1	p- & m- Xylenes	ND	U	mg/kg dry	0.0075	0.015	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:49	SS
99-87-6	p-Isopropyltoluene	ND	U	mg/kg dry	0.0037	0.0075	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:49	SS
135-98-8	sec-Butylbenzene	ND	U	mg/kg dry	0.0037	0.0075	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:49	SS
100-42-5	Styrene	ND	U	mg/kg dry	0.0037	0.0075	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:49	SS
98-06-6	tert-Butylbenzene	ND	U	mg/kg dry	0.0037	0.0075	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:49	SS
127-18-4	Tetrachloroethylene	ND	U	mg/kg dry	0.0037	0.0075	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:49	SS
108-88-3	Toluene	ND	U	mg/kg dry	0.0037	0.0075	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:49	SS
156-60-5	trans-1,2-Dichloroethylene	ND	U	mg/kg dry	0.0037	0.0075	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:49	SS
10061-02-6	trans-1,3-Dichloropropylene	ND	U	mg/kg dry	0.0037	0.0075	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:49	SS
79-01-6	Trichloroethylene	ND	U	mg/kg dry	0.0037	0.0075	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:49	SS
75-69-4	Trichlorofluoromethane	ND	U	mg/kg dry	0.0037	0.0075	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:49	SS
75-01-4	Vinyl Chloride	ND	U	mg/kg dry	0.0037	0.0075	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:49	SS
1330-20-7	Xylenes, Total	ND	U	mg/kg dry	0.011	0.022	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:49	SS
108-05-4	Vinyl acetate	ND	U	mg/kg dry	0.0037	0.0075	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:49	SS

Sample Information

Client Sample ID: LG-19 (0-2) **York Sample ID:** 13E0744-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0744	170246501	Soil	May 21, 2013 1:06 pm	05/22/2013

Volatile Organics, 8260 List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate Recoveries	**Result**		**Acceptance Range**							
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*106 %*		*73-130*							
460-00-4	*Surrogate: p-Bromofluorobenzene*	*118 %*		*72-127*							
2037-26-5	*Surrogate: Toluene-d8*	*110 %*		*84-117*							

Semi-Volatiles, 8270 Target List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND	U	mg/kg dry	0.338	0.932	5	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 22:03	SR
208-96-8	Acenaphthylene	ND	U	mg/kg dry	0.448	0.932	5	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 22:03	SR
62-53-3	Aniline	ND	U	mg/kg dry	0.533	0.932	5	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 22:03	SR
120-12-7	Anthracene	ND	U	mg/kg dry	0.509	0.932	5	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 22:03	SR
56-55-3	Benzo(a)anthracene	**0.972**	D	mg/kg dry	0.349	0.932	5	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 22:03	SR
50-32-8	Benzo(a)pyrene	**1.04**	D	mg/kg dry	0.369	0.932	5	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 22:03	SR
205-99-2	Benzo(b)fluoranthene	**0.858**	J, D	mg/kg dry	0.781	0.932	5	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 22:03	SR
191-24-2	Benzo(g,h,i)perylene	**0.569**	J, D	mg/kg dry	0.310	0.932	5	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 22:03	SR
100-51-6	Benzyl alcohol	ND	U	mg/kg dry	0.932	0.932	5	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 22:03	SR
207-08-9	Benzo(k)fluoranthene	**1.05**	D	mg/kg dry	0.932	0.932	5	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 22:03	SR
85-68-7	Benzyl butyl phthalate	ND	U	mg/kg dry	0.515	0.932	5	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 22:03	SR
101-55-3	4-Bromophenyl phenyl ether	ND	U	mg/kg dry	0.449	0.932	5	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 22:03	SR
59-50-7	4-Chloro-3-methylphenol	ND	U	mg/kg dry	0.628	0.932	5	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 22:03	SR
106-47-8	4-Chloroaniline	ND	U	mg/kg dry	0.242	0.932	5	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 22:03	SR
111-91-1	Bis(2-chloroethoxy)methane	ND	U	mg/kg dry	0.321	0.932	5	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 22:03	SR
111-44-4	Bis(2-chloroethyl)ether	ND	U	mg/kg dry	0.476	0.932	5	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 22:03	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND	U	mg/kg dry	0.328	0.932	5	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 22:03	SR
117-81-7	Bis(2-ethylhexyl)phthalate	ND	U	mg/kg dry	0.643	0.932	5	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 22:03	SR
91-58-7	2-Chloronaphthalene	ND	U	mg/kg dry	0.503	0.932	5	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 22:03	SR
95-57-8	2-Chlorophenol	ND	U	mg/kg dry	0.308	0.932	5	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 22:03	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND	U	mg/kg dry	0.546	0.932	5	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 22:03	SR
218-01-9	Chrysene	**0.988**	D	mg/kg dry	0.429	0.932	5	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 22:03	SR
53-70-3	Dibenzo(a,h)anthracene	ND	U	mg/kg dry	0.375	0.932	5	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 22:03	SR
132-64-9	Dibenzofuran	ND	U	mg/kg dry	0.434	0.932	5	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 22:03	SR
84-74-2	Di-n-butyl phthalate	ND	U	mg/kg dry	0.379	0.932	5	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 22:03	SR
95-50-1	1,2-Dichlorobenzene	ND	U	mg/kg dry	0.610	0.932	5	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 22:03	SR

Sample Information

Client Sample ID: LG-19 (0-2) **York Sample ID:** 13E0744-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0744	170246501	Soil	May 21, 2013 1:06 pm	05/22/2013

Semi-Volatiles, 8270 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
106-46-7	1,4-Dichlorobenzene	ND	U	mg/kg dry	0.574	0.932	5	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 22:03	SR
541-73-1	1,3-Dichlorobenzene	ND	U	mg/kg dry	0.295	0.932	5	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 22:03	SR
91-94-1	3,3'-Dichlorobenzidine	ND	U	mg/kg dry	0.489	0.932	5	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 22:03	SR
120-83-2	2,4-Dichlorophenol	ND	U	mg/kg dry	0.761	0.932	5	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 22:03	SR
84-66-2	Diethyl phthalate	ND	U	mg/kg dry	0.586	0.932	5	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 22:03	SR
105-67-9	2,4-Dimethylphenol	ND	U	mg/kg dry	0.653	0.932	5	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 22:03	SR
131-11-3	Dimethyl phthalate	ND	U	mg/kg dry	0.416	0.932	5	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 22:03	SR
88-74-4	2-Nitroaniline	ND	U	mg/kg dry	0.813	0.932	5	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 22:03	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND	U	mg/kg dry	1.17	1.86	5	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 22:03	SR
51-28-5	2,4-Dinitrophenol	ND	U	mg/kg dry	0.783	1.86	5	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 22:03	SR
606-20-2	2,6-Dinitrotoluene	ND	U	mg/kg dry	0.479	0.932	5	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 22:03	SR
121-14-2	2,4-Dinitrotoluene	ND	U	mg/kg dry	0.412	0.932	5	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 22:03	SR
117-84-0	Di-n-octyl phthalate	ND	U	mg/kg dry	0.932	0.932	5	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 22:03	SR
206-44-0	Fluoranthene	**1.55**	D	mg/kg dry	0.546	0.932	5	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 22:03	SR
86-73-7	Fluorene	ND	U	mg/kg dry	0.448	0.932	5	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 22:03	SR
118-74-1	Hexachlorobenzene	ND	U	mg/kg dry	0.550	0.932	5	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 22:03	SR
87-68-3	Hexachlorobutadiene	ND	U	mg/kg dry	0.315	0.932	5	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 22:03	SR
77-47-4	Hexachlorocyclopentadiene	ND	U	mg/kg dry	0.694	0.932	5	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 22:03	SR
67-72-1	Hexachloroethane	ND	U	mg/kg dry	0.267	0.932	5	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 22:03	SR
193-39-5	Indeno(1,2,3-cd)pyrene	**0.597**	J, D	mg/kg dry	0.425	0.932	5	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 22:03	SR
78-59-1	Isophorone	ND	U	mg/kg dry	0.321	0.932	5	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 22:03	SR
91-57-6	2-Methylnaphthalene	ND	U	mg/kg dry	0.716	0.932	5	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 22:03	SR
95-48-7	2-Methylphenol	ND	U	mg/kg dry	0.354	0.932	5	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 22:03	SR
65794-96-9	3- & 4-Methylphenols	ND	U	mg/kg dry	0.405	0.932	5	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 22:03	SR
91-20-3	Naphthalene	ND	U	mg/kg dry	0.229	0.932	5	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 22:03	SR
99-09-2	3-Nitroaniline	ND	U	mg/kg dry	0.927	0.932	5	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 22:03	SR
100-01-6	4-Nitroaniline	ND	U	mg/kg dry	0.386	0.932	5	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 22:03	SR
98-95-3	Nitrobenzene	ND	U	mg/kg dry	0.274	0.932	5	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 22:03	SR
100-02-7	4-Nitrophenol	ND	U	mg/kg dry	0.351	0.932	5	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 22:03	SR
88-75-5	2-Nitrophenol	ND	U	mg/kg dry	0.254	0.932	5	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 22:03	SR
621-64-7	N-nitroso-di-n-propylamine	ND	U	mg/kg dry	0.311	0.932	5	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 22:03	SR
62-75-9	N-Nitrosodimethylamine	ND	U	mg/kg dry	0.382	0.932	5	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 22:03	SR

Sample Information

Client Sample ID: LG-19 (0-2) **York Sample ID:** 13E0744-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0744	170246501	Soil	May 21, 2013 1:06 pm	05/22/2013

Semi-Volatiles, 8270 Target List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
86-30-6	N-Nitrosodiphenylamine	ND	U	mg/kg dry	0.421	0.932	5	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 22:03	SR
87-86-5	Pentachlorophenol	ND	U	mg/kg dry	0.703	0.932	5	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 22:03	SR
85-01-8	Phenanthrene	**0.600**	J, D	mg/kg dry	0.487	0.932	5	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 22:03	SR
108-95-2	Phenol	ND	U	mg/kg dry	0.403	0.932	5	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 22:03	SR
129-00-0	Pyrene	**1.22**	D	mg/kg dry	0.380	0.932	5	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 22:03	SR
110-86-1	Pyridine	ND	U	mg/kg dry	0.655	0.932	5	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 22:03	SR
120-82-1	1,2,4-Trichlorobenzene	ND	U	mg/kg dry	0.338	0.932	5	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 22:03	SR
95-95-4	2,4,5-Trichlorophenol	ND	U	mg/kg dry	0.724	0.932	5	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 22:03	SR
88-06-2	2,4,6-Trichlorophenol	ND	U	mg/kg dry	0.474	0.932	5	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 22:03	SR

	Surrogate Recoveries	Result	Acceptance Range
5175-83-7	*Surrogate: 2,4,6-Tribromophenol*	*79.1 %*	*15-110*
321-60-8	*Surrogate: 2-Fluorobiphenyl*	*74.6 %*	*30-130*
367-12-4	*Surrogate: 2-Fluorophenol*	*56.3 %*	*15-110*
4165-60-0	*Surrogate: Nitrobenzene-d5*	*63.0 %*	*30-130*
4165-62-2	*Surrogate: Phenol-d5*	*67.7 %*	*15-110*
1718-51-0	*Surrogate: Terphenyl-d14*	*65.7 %*	*30-130*

Pesticides/PCBs, EPA 8081/8082 List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
8001-35-2	Toxaphene	ND	U	mg/kg dry	0.0934	0.0934	5	EPA SW 846-8081/8082	05/24/2013 08:59	05/28/2013 14:47	JW
72-43-5	Methoxychlor	ND	U	mg/kg dry	0.00923	0.00923	5	EPA SW 846-8081/8082	05/24/2013 08:59	05/28/2013 14:47	JW
1024-57-3	Heptachlor epoxide	ND	U	mg/kg dry	0.00185	0.00185	5	EPA SW 846-8081/8082	05/24/2013 08:59	05/28/2013 14:47	JW
76-44-8	Heptachlor	ND	U	mg/kg dry	0.00185	0.00185	5	EPA SW 846-8081/8082	05/24/2013 08:59	05/28/2013 14:47	JW
58-89-9	gamma-BHC (Lindane)	ND	U	mg/kg dry	0.00185	0.00185	5	EPA SW 846-8081/8082	05/24/2013 08:59	05/28/2013 14:47	JW
53494-70-5	Endrin ketone	ND	U	mg/kg dry	0.00185	0.00185	5	EPA SW 846-8081/8082	05/24/2013 08:59	05/28/2013 14:47	JW
7421-93-4	Endrin aldehyde	ND	U	mg/kg dry	0.00185	0.00185	5	EPA SW 846-8081/8082	05/24/2013 08:59	05/28/2013 14:47	JW
72-20-8	Endrin	ND	U	mg/kg dry	0.00185	0.00185	5	EPA SW 846-8081/8082	05/24/2013 08:59	05/28/2013 14:47	JW
1031-07-8	Endosulfan sulfate	ND	U	mg/kg dry	0.00185	0.00185	5	EPA SW 846-8081/8082	05/24/2013 08:59	05/28/2013 14:47	JW
33213-65-9	Endosulfan II	ND	U	mg/kg dry	0.00185	0.00185	5	EPA SW 846-8081/8082	05/24/2013 08:59	05/28/2013 14:47	JW
959-98-8	Endosulfan I	ND	U	mg/kg dry	0.00185	0.00185	5	EPA SW 846-8081/8082	05/24/2013 08:59	05/28/2013 14:47	JW
60-57-1	Dieldrin	ND	U	mg/kg dry	0.00185	0.00185	5	EPA SW 846-8081/8082	05/24/2013 08:59	05/28/2013 14:47	JW
319-86-8	delta-BHC	ND	U	mg/kg dry	0.00185	0.00185	5	EPA SW 846-8081/8082	05/24/2013 08:59	05/28/2013 14:47	JW
57-74-9	Chlordane, total	ND	U	mg/kg dry	0.00738	0.00738	5	EPA SW 846-8081/8082	05/24/2013 08:59	05/28/2013 14:47	JW
319-85-7	beta-BHC	ND	U	mg/kg dry	0.00185	0.00185	5	EPA SW 846-8081/8082	05/24/2013 08:59	05/28/2013 14:47	JW

Sample Information

Client Sample ID: LG-19 (0-2) **York Sample ID:** 13E0744-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0744	170246501	Soil	May 21, 2013 1:06 pm	05/22/2013

Pesticides/PCBs, EPA 8081/8082 List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
319-84-6	alpha-BHC	ND	U	mg/kg dry	0.00185	0.00185	5	EPA SW 846-8081/8082	05/24/2013 08:59	05/28/2013 14:47	JW
309-00-2	Aldrin	ND	U	mg/kg dry	0.00185	0.00185	5	EPA SW 846-8081/8082	05/24/2013 08:59	05/28/2013 14:47	JW
50-29-3	4,4'-DDT	ND	U	mg/kg dry	0.00185	0.00185	5	EPA SW 846-8081/8082	05/24/2013 08:59	05/28/2013 14:47	JW
72-55-9	4,4'-DDE	ND	U	mg/kg dry	0.00185	0.00185	5	EPA SW 846-8081/8082	05/24/2013 08:59	05/28/2013 14:47	JW
72-54-8	4,4'-DDD	ND	U	mg/kg dry	0.00185	0.00185	5	EPA SW 846-8081/8082	05/24/2013 08:59	05/28/2013 14:47	JW
11096-82-5	Aroclor 1260	ND	U	mg/kg dry	0.0190	0.0190	1	EPA SW 846-8081/8082	05/24/2013 08:59	05/28/2013 15:20	JW
11097-69-1	Aroclor 1254	ND	U	mg/kg dry	0.0190	0.0190	1	EPA SW 846-8081/8082	05/24/2013 08:59	05/28/2013 15:20	JW
12672-29-6	Aroclor 1248	ND	U	mg/kg dry	0.0190	0.0190	1	EPA SW 846-8081/8082	05/24/2013 08:59	05/28/2013 15:20	JW
53469-21-9	Aroclor 1242	ND	U	mg/kg dry	0.0190	0.0190	1	EPA SW 846-8081/8082	05/24/2013 08:59	05/28/2013 15:20	JW
11141-16-5	Aroclor 1232	ND	U	mg/kg dry	0.0190	0.0190	1	EPA SW 846-8081/8082	05/24/2013 08:59	05/28/2013 15:20	JW
11104-28-2	Aroclor 1221	ND	U	mg/kg dry	0.0190	0.0190	1	EPA SW 846-8081/8082	05/24/2013 08:59	05/28/2013 15:20	JW
12674-11-2	Aroclor 1016	ND	U	mg/kg dry	0.0190	0.0190	1	EPA SW 846-8081/8082	05/24/2013 08:59	05/28/2013 15:20	JW
1336-36-3	Total PCBs	ND	U	mg/kg dry	0.00761	0.0190	1	EPA SW 846-8081/8082	05/24/2013 08:59	05/28/2013 15:20	JW

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*67.9 %*	*30-150*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*56.3 %*	*30-150*

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	**11100**		mg/kg dry	1.14	2.24	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 21:10	MW
7440-36-0	Antimony	ND	U	mg/kg dry	0.246	0.559	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 21:10	MW
7440-38-2	Arsenic	**3.07**		mg/kg dry	0.380	1.12	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 21:10	MW
7440-39-3	Barium	**110**		mg/kg dry	0.145	0.559	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 21:10	MW
7440-41-7	Beryllium	ND	U	mg/kg dry	0.112	0.112	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 21:10	MW
7440-43-9	Cadmium	ND	U	mg/kg dry	0.112	0.559	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 21:10	MW
7440-70-2	Calcium	**9460**		mg/kg dry	0.045	5.59	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 21:10	MW
7440-47-3	Chromium	**26.6**		mg/kg dry	0.134	0.559	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 21:10	MW
7440-48-4	Cobalt	**9.20**		mg/kg dry	0.090	0.559	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 21:10	MW
7440-50-8	Copper	**35.4**		mg/kg dry	0.134	0.559	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 21:10	MW
7439-89-6	Iron	**18200**		mg/kg dry	0.727	2.24	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 21:10	MW
7439-92-1	Lead	**58.7**		mg/kg dry	0.190	0.336	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 21:10	MW
7439-95-4	Magnesium	**6320**		mg/kg dry	0.503	5.59	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 21:10	MW
7439-96-5	Manganese	**292**		mg/kg dry	0.123	1.12	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 21:10	MW
7440-02-0	Nickel	**23.6**		mg/kg dry	0.145	0.559	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 21:10	MW

Sample Information

Client Sample ID: LG-19 (0-2) **York Sample ID:** 13E0744-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0744	170246501	Soil	May 21, 2013 1:06 pm	05/22/2013

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-09-7	Potassium	**2560**		mg/kg dry	3.78	11.2	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 21:10	MW
7782-49-2	Selenium	ND	U	mg/kg dry	0.559	0.559	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 21:10	MW
7440-22-4	Silver	ND	U	mg/kg dry	0.112	0.559	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 21:10	MW
7440-23-5	Sodium	**203**	B	mg/kg dry	5.90	11.2	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 21:10	MW
7440-28-0	Thallium	ND	U	mg/kg dry	0.358	0.559	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 21:10	MW
7440-62-2	Vanadium	**32.6**		mg/kg dry	0.123	0.559	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 21:10	MW
7440-66-6	Zinc	**90.0**		mg/kg dry	0.101	0.559	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 21:10	MW

Mercury by 7470/7471

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-7471

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND	U	mg/kg dry	0.0369	0.0369	1	EPA SW846-7471	05/24/2013 10:58	05/24/2013 18:33	AA

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	**89.4**		%	0.100	0.100	1	SM 2540G	05/23/2013 09:08	05/23/2013 12:26	AMC

Sample Information

Client Sample ID: LG-19 (26-28) **York Sample ID:** 13E0744-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0744	170246501	Soil	May 21, 2013 1:20 pm	05/22/2013

Volatile Organics, 8260 List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND	U	mg/kg dry	0.0029	0.0059	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 20:10	SS
71-55-6	1,1,1-Trichloroethane	ND	U	mg/kg dry	0.0029	0.0059	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 20:10	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND	U	mg/kg dry	0.0029	0.0059	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 20:10	SS
76-13-1	,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113	ND	U	mg/kg dry	0.0029	0.0059	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 20:10	SS
79-00-5	1,1,2-Trichloroethane	ND	U	mg/kg dry	0.0029	0.0059	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 20:10	SS
75-34-3	1,1-Dichloroethane	ND	U	mg/kg dry	0.0029	0.0059	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 20:10	SS
75-35-4	1,1-Dichloroethylene	ND	U	mg/kg dry	0.0029	0.0059	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 20:10	SS
563-58-6	1,1-Dichloropropylene	ND	U	mg/kg dry	0.0029	0.0059	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 20:10	SS
87-61-6	1,2,3-Trichlorobenzene	ND	U	mg/kg dry	0.0029	0.0059	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 20:10	SS

Sample Information

Client Sample ID: LG-19 (26-28) **York Sample ID:** 13E0744-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0744	170246501	Soil	May 21, 2013 1:20 pm	05/22/2013

Volatile Organics, 8260 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
96-18-4	1,2,3-Trichloropropane	ND	U	mg/kg dry	0.0029	0.0059	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 20:10	SS
120-82-1	1,2,4-Trichlorobenzene	ND	U	mg/kg dry	0.0029	0.0059	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 20:10	SS
95-63-6	1,2,4-Trimethylbenzene	ND	U	mg/kg dry	0.0029	0.0059	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 20:10	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND	U	mg/kg dry	0.0029	0.0059	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 20:10	SS
106-93-4	1,2-Dibromoethane	ND	U	mg/kg dry	0.0029	0.0059	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 20:10	SS
95-50-1	1,2-Dichlorobenzene	ND	U	mg/kg dry	0.0029	0.0059	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 20:10	SS
107-06-2	1,2-Dichloroethane	ND	U	mg/kg dry	0.0029	0.0059	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 20:10	SS
78-87-5	1,2-Dichloropropane	ND	U	mg/kg dry	0.0029	0.0059	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 20:10	SS
108-67-8	1,3,5-Trimethylbenzene	ND	U	mg/kg dry	0.0029	0.0059	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 20:10	SS
541-73-1	1,3-Dichlorobenzene	ND	U	mg/kg dry	0.0029	0.0059	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 20:10	SS
142-28-9	1,3-Dichloropropane	ND	U	mg/kg dry	0.0029	0.0059	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 20:10	SS
106-46-7	1,4-Dichlorobenzene	ND	U	mg/kg dry	0.0029	0.0059	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 20:10	SS
123-91-1	1,4-Dioxane	ND	U	mg/kg dry	0.059	0.12	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 20:10	SS
594-20-7	2,2-Dichloropropane	ND	U	mg/kg dry	0.0029	0.0059	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 20:10	SS
78-93-3	2-Butanone	ND	U	mg/kg dry	0.0029	0.0059	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 20:10	SS
95-49-8	2-Chlorotoluene	ND	U	mg/kg dry	0.0029	0.0059	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 20:10	SS
106-43-4	4-Chlorotoluene	ND	U	mg/kg dry	0.0029	0.0059	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 20:10	SS
67-64-1	Acetone	**0.0041**	J, B	mg/kg dry	0.0029	0.012	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 20:10	SS
71-43-2	Benzene	ND	U	mg/kg dry	0.0029	0.0059	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 20:10	SS
108-86-1	Bromobenzene	ND	U	mg/kg dry	0.0029	0.0059	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 20:10	SS
74-97-5	Bromochloromethane	ND	U	mg/kg dry	0.0029	0.0059	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 20:10	SS
75-27-4	Bromodichloromethane	ND	U	mg/kg dry	0.0029	0.0059	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 20:10	SS
75-25-2	Bromoform	ND	U	mg/kg dry	0.0029	0.0059	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 20:10	SS
74-83-9	Bromomethane	ND	U	mg/kg dry	0.0029	0.0059	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 20:10	SS
56-23-5	Carbon tetrachloride	ND	U	mg/kg dry	0.0029	0.0059	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 20:10	SS
108-90-7	Chlorobenzene	ND	U	mg/kg dry	0.0029	0.0059	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 20:10	SS
75-00-3	Chloroethane	ND	U	mg/kg dry	0.0029	0.0059	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 20:10	SS
67-66-3	Chloroform	ND	U	mg/kg dry	0.0029	0.0059	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 20:10	SS
74-87-3	Chloromethane	ND	U	mg/kg dry	0.0029	0.0059	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 20:10	SS
156-59-2	cis-1,2-Dichloroethylene	ND	U	mg/kg dry	0.0029	0.0059	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 20:10	SS
10061-01-5	cis-1,3-Dichloropropylene	ND	U	mg/kg dry	0.0029	0.0059	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 20:10	SS
124-48-1	Dibromochloromethane	ND	U	mg/kg dry	0.0029	0.0059	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 20:10	SS

Sample Information

Client Sample ID: LG-19 (26-28) **York Sample ID:** 13E0744-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0744	170246501	Soil	May 21, 2013 1:20 pm	05/22/2013

Volatile Organics, 8260 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
74-95-3	Dibromomethane	ND	U	mg/kg dry	0.0029	0.0059	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 20:10	SS
75-71-8	Dichlorodifluoromethane	ND	U	mg/kg dry	0.0029	0.0059	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 20:10	SS
100-41-4	Ethyl Benzene	ND	U	mg/kg dry	0.0029	0.0059	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 20:10	SS
87-68-3	Hexachlorobutadiene	ND	U	mg/kg dry	0.0029	0.0059	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 20:10	SS
98-82-8	Isopropylbenzene	ND	U	mg/kg dry	0.0029	0.0059	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 20:10	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND	U	mg/kg dry	0.0029	0.0059	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 20:10	SS
75-09-2	Methylene chloride	**0.0059**	J	mg/kg dry	0.0029	0.012	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 20:10	SS
91-20-3	Naphthalene	ND	U	mg/kg dry	0.0029	0.012	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 20:10	SS
104-51-8	n-Butylbenzene	ND	U	mg/kg dry	0.0029	0.0059	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 20:10	SS
103-65-1	n-Propylbenzene	ND	U	mg/kg dry	0.0029	0.0059	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 20:10	SS
95-47-6	o-Xylene	ND	U	mg/kg dry	0.0029	0.0059	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 20:10	SS
179601-23-1	p- & m- Xylenes	ND	U	mg/kg dry	0.0059	0.012	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 20:10	SS
99-87-6	p-Isopropyltoluene	ND	U	mg/kg dry	0.0029	0.0059	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 20:10	SS
135-98-8	sec-Butylbenzene	ND	U	mg/kg dry	0.0029	0.0059	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 20:10	SS
100-42-5	Styrene	ND	U	mg/kg dry	0.0029	0.0059	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 20:10	SS
98-06-6	tert-Butylbenzene	ND	U	mg/kg dry	0.0029	0.0059	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 20:10	SS
127-18-4	Tetrachloroethylene	ND	U	mg/kg dry	0.0029	0.0059	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 20:10	SS
108-88-3	Toluene	ND	U	mg/kg dry	0.0029	0.0059	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 20:10	SS
156-60-5	trans-1,2-Dichloroethylene	ND	U	mg/kg dry	0.0029	0.0059	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 20:10	SS
10061-02-6	trans-1,3-Dichloropropylene	ND	U	mg/kg dry	0.0029	0.0059	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 20:10	SS
79-01-6	Trichloroethylene	ND	U	mg/kg dry	0.0029	0.0059	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 20:10	SS
75-69-4	Trichlorofluoromethane	ND	U	mg/kg dry	0.0029	0.0059	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 20:10	SS
75-01-4	Vinyl Chloride	ND	U	mg/kg dry	0.0029	0.0059	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 20:10	SS
1330-20-7	Xylenes, Total	ND	U	mg/kg dry	0.0088	0.018	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 20:10	SS
108-05-4	Vinyl acetate	ND	U	mg/kg dry	0.0029	0.0059	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 20:10	SS

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*113 %*	*73-130*
460-00-4	*Surrogate: p-Bromofluorobenzene*	*107 %*	*72-127*
2037-26-5	*Surrogate: Toluene-d8*	*95.7 %*	*84-117*

Sample Information

Client Sample ID: LG-19 (26-28) **York Sample ID:** 13E0744-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0744	170246501	Soil	May 21, 2013 1:20 pm	05/22/2013

Semi-Volatiles, 8270 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND	U	mg/kg dry	0.0682	0.188	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 22:33	SR
208-96-8	Acenaphthylene	ND	U	mg/kg dry	0.0905	0.188	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 22:33	SR
62-53-3	Aniline	ND	U	mg/kg dry	0.108	0.188	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 22:33	SR
120-12-7	Anthracene	ND	U	mg/kg dry	0.103	0.188	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 22:33	SR
56-55-3	Benzo(a)anthracene	ND	U	mg/kg dry	0.0705	0.188	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 22:33	SR
50-32-8	Benzo(a)pyrene	ND	U	mg/kg dry	0.0746	0.188	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 22:33	SR
205-99-2	Benzo(b)fluoranthene	ND	U	mg/kg dry	0.158	0.188	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 22:33	SR
191-24-2	Benzo(g,h,i)perylene	ND	U	mg/kg dry	0.0626	0.188	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 22:33	SR
100-51-6	Benzyl alcohol	ND	U	mg/kg dry	0.188	0.188	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 22:33	SR
207-08-9	Benzo(k)fluoranthene	ND	U	mg/kg dry	0.188	0.188	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 22:33	SR
85-68-7	Benzyl butyl phthalate	ND	U	mg/kg dry	0.104	0.188	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 22:33	SR
101-55-3	4-Bromophenyl phenyl ether	ND	U	mg/kg dry	0.0909	0.188	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 22:33	SR
59-50-7	4-Chloro-3-methylphenol	ND	U	mg/kg dry	0.127	0.188	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 22:33	SR
106-47-8	4-Chloroaniline	ND	U	mg/kg dry	0.0490	0.188	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 22:33	SR
111-91-1	Bis(2-chloroethoxy)methane	ND	U	mg/kg dry	0.0648	0.188	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 22:33	SR
111-44-4	Bis(2-chloroethyl)ether	ND	U	mg/kg dry	0.0961	0.188	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 22:33	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND	U	mg/kg dry	0.0663	0.188	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 22:33	SR
117-81-7	Bis(2-ethylhexyl)phthalate	ND	U	mg/kg dry	0.130	0.188	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 22:33	SR
91-58-7	2-Chloronaphthalene	ND	U	mg/kg dry	0.102	0.188	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 22:33	SR
95-57-8	2-Chlorophenol	ND	U	mg/kg dry	0.0622	0.188	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 22:33	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND	U	mg/kg dry	0.110	0.188	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 22:33	SR
218-01-9	Chrysene	ND	U	mg/kg dry	0.0867	0.188	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 22:33	SR
53-70-3	Dibenzo(a,h)anthracene	ND	U	mg/kg dry	0.0758	0.188	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 22:33	SR
132-64-9	Dibenzofuran	ND	U	mg/kg dry	0.0878	0.188	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 22:33	SR
84-74-2	Di-n-butyl phthalate	ND	U	mg/kg dry	0.0765	0.188	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 22:33	SR
95-50-1	1,2-Dichlorobenzene	ND	U	mg/kg dry	0.123	0.188	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 22:33	SR
106-46-7	1,4-Dichlorobenzene	ND	U	mg/kg dry	0.116	0.188	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 22:33	SR
541-73-1	1,3-Dichlorobenzene	ND	U	mg/kg dry	0.0596	0.188	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 22:33	SR
91-94-1	3,3'-Dichlorobenzidine	ND	U	mg/kg dry	0.0988	0.188	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 22:33	SR
120-83-2	2,4-Dichlorophenol	ND	U	mg/kg dry	0.154	0.188	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 22:33	SR
84-66-2	Diethyl phthalate	ND	U	mg/kg dry	0.118	0.188	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 22:33	SR
105-67-9	2,4-Dimethylphenol	ND	U	mg/kg dry	0.132	0.188	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 22:33	SR

Sample Information

Client Sample ID: LG-19 (26-28) **York Sample ID:** 13E0744-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0744	170246501	Soil	May 21, 2013 1:20 pm	05/22/2013

Semi-Volatiles, 8270 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
131-11-3	Dimethyl phthalate	ND	U	mg/kg dry	0.0841	0.188	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 22:33	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND	U	mg/kg dry	0.237	0.377	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 22:33	SR
88-74-4	2-Nitroaniline	ND	U	mg/kg dry	0.164	0.188	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 22:33	SR
51-28-5	2,4-Dinitrophenol	ND	U	mg/kg dry	0.158	0.377	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 22:33	SR
606-20-2	2,6-Dinitrotoluene	ND	U	mg/kg dry	0.0969	0.188	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 22:33	SR
121-14-2	2,4-Dinitrotoluene	ND	U	mg/kg dry	0.0833	0.188	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 22:33	SR
117-84-0	Di-n-octyl phthalate	ND	U	mg/kg dry	0.188	0.188	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 22:33	SR
206-44-0	Fluoranthene	ND	U	mg/kg dry	0.110	0.188	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 22:33	SR
86-73-7	Fluorene	ND	U	mg/kg dry	0.0905	0.188	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 22:33	SR
118-74-1	Hexachlorobenzene	ND	U	mg/kg dry	0.111	0.188	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 22:33	SR
87-68-3	Hexachlorobutadiene	ND	U	mg/kg dry	0.0637	0.188	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 22:33	SR
77-47-4	Hexachlorocyclopentadiene	ND	U	mg/kg dry	0.140	0.188	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 22:33	SR
67-72-1	Hexachloroethane	ND	U	mg/kg dry	0.0539	0.188	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 22:33	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND	U	mg/kg dry	0.0860	0.188	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 22:33	SR
78-59-1	Isophorone	ND	U	mg/kg dry	0.0648	0.188	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 22:33	SR
91-57-6	2-Methylnaphthalene	ND	U	mg/kg dry	0.145	0.188	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 22:33	SR
95-48-7	2-Methylphenol	ND	U	mg/kg dry	0.0716	0.188	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 22:33	SR
65794-96-9	3- & 4-Methylphenols	ND	U	mg/kg dry	0.0818	0.188	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 22:33	SR
91-20-3	Naphthalene	ND	U	mg/kg dry	0.0464	0.188	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 22:33	SR
99-09-2	3-Nitroaniline	ND	U	mg/kg dry	0.187	0.188	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 22:33	SR
100-01-6	4-Nitroaniline	ND	U	mg/kg dry	0.0780	0.188	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 22:33	SR
98-95-3	Nitrobenzene	ND	U	mg/kg dry	0.0554	0.188	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 22:33	SR
100-02-7	4-Nitrophenol	ND	U	mg/kg dry	0.0709	0.188	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 22:33	SR
88-75-5	2-Nitrophenol	ND	U	mg/kg dry	0.0513	0.188	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 22:33	SR
621-64-7	N-nitroso-di-n-propylamine	ND	U	mg/kg dry	0.0630	0.188	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 22:33	SR
62-75-9	N-Nitrosodimethylamine	ND	U	mg/kg dry	0.0773	0.188	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 22:33	SR
86-30-6	N-Nitrosodiphenylamine	ND	U	mg/kg dry	0.0852	0.188	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 22:33	SR
87-86-5	Pentachlorophenol	ND	U	mg/kg dry	0.142	0.188	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 22:33	SR
85-01-8	Phenanthrene	ND	U	mg/kg dry	0.0984	0.188	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 22:33	SR
108-95-2	Phenol	ND	U	mg/kg dry	0.0814	0.188	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 22:33	SR
129-00-0	Pyrene	ND	U	mg/kg dry	0.0769	0.188	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 22:33	SR
110-86-1	Pyridine	ND	U	mg/kg dry	0.132	0.188	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 22:33	SR

Sample Information

Client Sample ID: LG-19 (26-28) **York Sample ID:** 13E0744-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0744	170246501	Soil	May 21, 2013 1:20 pm	05/22/2013

Semi-Volatiles, 8270 Target List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
120-82-1	1,2,4-Trichlorobenzene	ND	U	mg/kg dry	0.0682	0.188	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 22:33	SR
95-95-4	2,4,5-Trichlorophenol	ND	U	mg/kg dry	0.146	0.188	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 22:33	SR
88-06-2	2,4,6-Trichlorophenol	ND	U	mg/kg dry	0.0958	0.188	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 22:33	SR

	Surrogate Recoveries	Result	Acceptance Range
5175-83-7	*Surrogate: 2,4,6-Tribromophenol*	*68.8 %*	*15-110*
321-60-8	*Surrogate: 2-Fluorobiphenyl*	*50.2 %*	*30-130*
367-12-4	*Surrogate: 2-Fluorophenol*	*51.5 %*	*15-110*
4165-60-0	*Surrogate: Nitrobenzene-d5*	*56.5 %*	*30-130*
4165-62-2	*Surrogate: Phenol-d5*	*54.0 %*	*15-110*
1718-51-0	*Surrogate: Terphenyl-d14*	*55.5 %*	*30-130*

Polychlorinated Biphenyls (PCB)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0192	0.0192	1	EPA SW 846-8082A	05/24/2013 06:50	05/28/2013 15:50	JW
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0192	0.0192	1	EPA SW 846-8082A	05/24/2013 06:50	05/28/2013 15:50	JW
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0192	0.0192	1	EPA SW 846-8082A	05/24/2013 06:50	05/28/2013 15:50	JW
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0192	0.0192	1	EPA SW 846-8082A	05/24/2013 06:50	05/28/2013 15:50	JW
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0192	0.0192	1	EPA SW 846-8082A	05/24/2013 06:50	05/28/2013 15:50	JW
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0192	0.0192	1	EPA SW 846-8082A	05/24/2013 06:50	05/28/2013 15:50	JW
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0192	0.0192	1	EPA SW 846-8082A	05/24/2013 06:50	05/28/2013 15:50	JW
1336-36-3	Total PCBs	ND		mg/kg dry	0.0192	0.0192	1	EPA SW 846-8082A	05/24/2013 06:50	05/28/2013 15:50	JW

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*67.0 %*	*30-150*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*73.6 %*	*30-150*

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	**7220**		mg/kg dry	1.15	2.26	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 21:15	MW
7440-36-0	Antimony	ND	U	mg/kg dry	0.249	0.565	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 21:15	MW
7440-38-2	Arsenic	**1.22**		mg/kg dry	0.385	1.13	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 21:15	MW
7440-39-3	Barium	**45.2**		mg/kg dry	0.147	0.565	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 21:15	MW
7440-41-7	Beryllium	ND	U	mg/kg dry	0.113	0.113	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 21:15	MW
7440-43-9	Cadmium	ND	U	mg/kg dry	0.113	0.565	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 21:15	MW
7440-70-2	Calcium	**1170**		mg/kg dry	0.045	5.65	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 21:15	MW

Sample Information

Client Sample ID: LG-19 (26-28) **York Sample ID:** 13E0744-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0744	170246501	Soil	May 21, 2013 1:20 pm	05/22/2013

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-47-3	Chromium	**12.2**		mg/kg dry	0.136	0.565	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 21:15	MW
7440-48-4	Cobalt	**6.37**		mg/kg dry	0.090	0.565	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 21:15	MW
7440-50-8	Copper	**10.8**		mg/kg dry	0.136	0.565	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 21:15	MW
7439-89-6	Iron	**10200**		mg/kg dry	0.735	2.26	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 21:15	MW
7439-92-1	Lead	**3.74**		mg/kg dry	0.192	0.339	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 21:15	MW
7439-95-4	Magnesium	**1950**		mg/kg dry	0.509	5.65	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 21:15	MW
7439-96-5	Manganese	**202**		mg/kg dry	0.124	1.13	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 21:15	MW
7440-02-0	Nickel	**14.0**		mg/kg dry	0.147	0.565	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 21:15	MW
7440-09-7	Potassium	**1000**		mg/kg dry	3.82	11.3	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 21:15	MW
7782-49-2	Selenium	**0.671**		mg/kg dry	0.565	0.565	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 21:15	MW
7440-22-4	Silver	ND	U	mg/kg dry	0.113	0.565	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 21:15	MW
7440-23-5	Sodium	**183**	B	mg/kg dry	5.96	11.3	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 21:15	MW
7440-28-0	Thallium	ND	U	mg/kg dry	0.362	0.565	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 21:15	MW
7440-62-2	Vanadium	**14.5**		mg/kg dry	0.124	0.565	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 21:15	MW
7440-66-6	Zinc	**23.1**		mg/kg dry	0.102	0.565	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 21:15	MW

Mercury by 7470/7471

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-7471

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND	U	mg/kg dry	0.0373	0.0373	1	EPA SW846-7471	05/24/2013 10:58	05/24/2013 18:33	AA

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	**88.4**		%	0.100	0.100	1	SM 2540G	05/23/2013 09:08	05/23/2013 12:26	AMC

Sample Information

Client Sample ID: DUP-1 (052113) **York Sample ID:** 13E0744-11

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0744	170246501	Soil	May 21, 2013 3:00 pm	05/22/2013

Volatile Organics, 8260 List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND	U	mg/kg dry	0.0031	0.0061	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 20:52	SS
71-55-6	1,1,1-Trichloroethane	ND	U	mg/kg dry	0.0031	0.0061	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 20:52	SS

Sample Information

Client Sample ID: DUP-1 (052113) **York Sample ID:** 13E0744-11

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0744	170246501	Soil	May 21, 2013 3:00 pm	05/22/2013

Volatile Organics, 8260 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
79-34-5	1,1,2,2-Tetrachloroethane	ND	U	mg/kg dry	0.0031	0.0061	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 20:52	SS
76-13-1	,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113	ND	U	mg/kg dry	0.0031	0.0061	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 20:52	SS
79-00-5	1,1,2-Trichloroethane	ND	U	mg/kg dry	0.0031	0.0061	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 20:52	SS
75-34-3	1,1-Dichloroethane	ND	U	mg/kg dry	0.0031	0.0061	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 20:52	SS
75-35-4	1,1-Dichloroethylene	ND	U	mg/kg dry	0.0031	0.0061	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 20:52	SS
563-58-6	1,1-Dichloropropylene	ND	U	mg/kg dry	0.0031	0.0061	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 20:52	SS
87-61-6	1,2,3-Trichlorobenzene	ND	U	mg/kg dry	0.0031	0.0061	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 20:52	SS
96-18-4	1,2,3-Trichloropropane	ND	U	mg/kg dry	0.0031	0.0061	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 20:52	SS
120-82-1	1,2,4-Trichlorobenzene	ND	U	mg/kg dry	0.0031	0.0061	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 20:52	SS
95-63-6	1,2,4-Trimethylbenzene	ND	U	mg/kg dry	0.0031	0.0061	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 20:52	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND	U	mg/kg dry	0.0031	0.0061	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 20:52	SS
106-93-4	1,2-Dibromoethane	ND	U	mg/kg dry	0.0031	0.0061	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 20:52	SS
95-50-1	1,2-Dichlorobenzene	ND	U	mg/kg dry	0.0031	0.0061	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 20:52	SS
107-06-2	1,2-Dichloroethane	ND	U	mg/kg dry	0.0031	0.0061	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 20:52	SS
78-87-5	1,2-Dichloropropane	ND	U	mg/kg dry	0.0031	0.0061	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 20:52	SS
108-67-8	1,3,5-Trimethylbenzene	ND	U	mg/kg dry	0.0031	0.0061	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 20:52	SS
541-73-1	1,3-Dichlorobenzene	ND	U	mg/kg dry	0.0031	0.0061	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 20:52	SS
142-28-9	1,3-Dichloropropane	ND	U	mg/kg dry	0.0031	0.0061	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 20:52	SS
106-46-7	1,4-Dichlorobenzene	ND	U	mg/kg dry	0.0031	0.0061	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 20:52	SS
123-91-1	1,4-Dioxane	ND	U	mg/kg dry	0.061	0.12	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 20:52	SS
594-20-7	2,2-Dichloropropane	ND	U	mg/kg dry	0.0031	0.0061	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 20:52	SS
78-93-3	2-Butanone	ND	U	mg/kg dry	0.0031	0.0061	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 20:52	SS
95-49-8	2-Chlorotoluene	ND	U	mg/kg dry	0.0031	0.0061	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 20:52	SS
106-43-4	4-Chlorotoluene	ND	U	mg/kg dry	0.0031	0.0061	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 20:52	SS
67-64-1	Acetone	**0.0040**	J, B	mg/kg dry	0.0031	0.012	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 20:52	SS
71-43-2	Benzene	ND	U	mg/kg dry	0.0031	0.0061	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 20:52	SS
108-86-1	Bromobenzene	ND	U	mg/kg dry	0.0031	0.0061	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 20:52	SS
74-97-5	Bromochloromethane	ND	U	mg/kg dry	0.0031	0.0061	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 20:52	SS
75-27-4	Bromodichloromethane	ND	U	mg/kg dry	0.0031	0.0061	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 20:52	SS
75-25-2	Bromoform	ND	U	mg/kg dry	0.0031	0.0061	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 20:52	SS
74-83-9	Bromomethane	ND	U	mg/kg dry	0.0031	0.0061	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 20:52	SS
56-23-5	Carbon tetrachloride	ND	U	mg/kg dry	0.0031	0.0061	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 20:52	SS

Sample Information

Client Sample ID: DUP-1 (052113) **York Sample ID:** 13E0744-11

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0744	170246501	Soil	May 21, 2013 3:00 pm	05/22/2013

Volatile Organics, 8260 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-90-7	Chlorobenzene	ND	U	mg/kg dry	0.0031	0.0061	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 20:52	SS
75-00-3	Chloroethane	ND	U	mg/kg dry	0.0031	0.0061	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 20:52	SS
67-66-3	Chloroform	ND	U	mg/kg dry	0.0031	0.0061	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 20:52	SS
74-87-3	Chloromethane	ND	U	mg/kg dry	0.0031	0.0061	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 20:52	SS
156-59-2	cis-1,2-Dichloroethylene	ND	U	mg/kg dry	0.0031	0.0061	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 20:52	SS
10061-01-5	cis-1,3-Dichloropropylene	ND	U	mg/kg dry	0.0031	0.0061	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 20:52	SS
124-48-1	Dibromochloromethane	ND	U	mg/kg dry	0.0031	0.0061	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 20:52	SS
74-95-3	Dibromomethane	ND	U	mg/kg dry	0.0031	0.0061	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 20:52	SS
75-71-8	Dichlorodifluoromethane	ND	U	mg/kg dry	0.0031	0.0061	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 20:52	SS
100-41-4	Ethyl Benzene	ND	U	mg/kg dry	0.0031	0.0061	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 20:52	SS
87-68-3	Hexachlorobutadiene	ND	U	mg/kg dry	0.0031	0.0061	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 20:52	SS
98-82-8	Isopropylbenzene	ND	U	mg/kg dry	0.0031	0.0061	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 20:52	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND	U	mg/kg dry	0.0031	0.0061	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 20:52	SS
75-09-2	Methylene chloride	**0.0055**	J	mg/kg dry	0.0031	0.012	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 20:52	SS
91-20-3	Naphthalene	ND	U	mg/kg dry	0.0031	0.012	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 20:52	SS
104-51-8	n-Butylbenzene	ND	U	mg/kg dry	0.0031	0.0061	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 20:52	SS
103-65-1	n-Propylbenzene	ND	U	mg/kg dry	0.0031	0.0061	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 20:52	SS
95-47-6	o-Xylene	ND	U	mg/kg dry	0.0031	0.0061	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 20:52	SS
179601-23-1	p- & m- Xylenes	ND	U	mg/kg dry	0.0061	0.012	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 20:52	SS
99-87-6	p-Isopropyltoluene	ND	U	mg/kg dry	0.0031	0.0061	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 20:52	SS
135-98-8	sec-Butylbenzene	ND	U	mg/kg dry	0.0031	0.0061	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 20:52	SS
100-42-5	Styrene	ND	U	mg/kg dry	0.0031	0.0061	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 20:52	SS
98-06-6	tert-Butylbenzene	ND	U	mg/kg dry	0.0031	0.0061	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 20:52	SS
127-18-4	Tetrachloroethylene	ND	U	mg/kg dry	0.0031	0.0061	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 20:52	SS
108-88-3	Toluene	ND	U	mg/kg dry	0.0031	0.0061	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 20:52	SS
156-60-5	trans-1,2-Dichloroethylene	ND	U	mg/kg dry	0.0031	0.0061	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 20:52	SS
10061-02-6	trans-1,3-Dichloropropylene	ND	U	mg/kg dry	0.0031	0.0061	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 20:52	SS
79-01-6	Trichloroethylene	ND	U	mg/kg dry	0.0031	0.0061	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 20:52	SS
75-69-4	Trichlorofluoromethane	ND	U	mg/kg dry	0.0031	0.0061	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 20:52	SS
75-01-4	Vinyl Chloride	ND	U	mg/kg dry	0.0031	0.0061	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 20:52	SS
1330-20-7	Xylenes, Total	ND	U	mg/kg dry	0.0092	0.018	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 20:52	SS
108-05-4	Vinyl acetate	ND	U	mg/kg dry	0.0031	0.0061	1	EPA SW846-8260B	05/23/2013 10:55	05/23/2013 20:52	SS

Sample Information

Client Sample ID: DUP-1 (052113) **York Sample ID:** 13E0744-11

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0744	170246501	Soil	May 21, 2013 3:00 pm	05/22/2013

Volatile Organics, 8260 List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate Recoveries	**Result**		**Acceptance Range**							
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*104 %*		*73-130*							
460-00-4	*Surrogate: p-Bromofluorobenzene*	*122 %*		*72-127*							
2037-26-5	*Surrogate: Toluene-d8*	*107 %*		*84-117*							

Semi-Volatiles, 8270 Target List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND	U	mg/kg dry	0.0699	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 23:04	SR
208-96-8	Acenaphthylene	ND	U	mg/kg dry	0.0927	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 23:04	SR
62-53-3	Aniline	ND	U	mg/kg dry	0.110	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 23:04	SR
120-12-7	Anthracene	ND	U	mg/kg dry	0.105	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 23:04	SR
56-55-3	Benzo(a)anthracene	**0.105**	J	mg/kg dry	0.0722	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 23:04	SR
50-32-8	Benzo(a)pyrene	**0.102**	J	mg/kg dry	0.0765	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 23:04	SR
205-99-2	Benzo(b)fluoranthene	ND	U	mg/kg dry	0.162	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 23:04	SR
191-24-2	Benzo(g,h,i)perylene	ND	U	mg/kg dry	0.0641	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 23:04	SR
100-51-6	Benzyl alcohol	ND	U	mg/kg dry	0.193	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 23:04	SR
207-08-9	Benzo(k)fluoranthene	ND	U	mg/kg dry	0.193	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 23:04	SR
85-68-7	Benzyl butyl phthalate	ND	U	mg/kg dry	0.107	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 23:04	SR
101-55-3	4-Bromophenyl phenyl ether	ND	U	mg/kg dry	0.0931	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 23:04	SR
59-50-7	4-Chloro-3-methylphenol	ND	U	mg/kg dry	0.130	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 23:04	SR
106-47-8	4-Chloroaniline	ND	U	mg/kg dry	0.0502	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 23:04	SR
111-91-1	Bis(2-chloroethoxy)methane	ND	U	mg/kg dry	0.0664	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 23:04	SR
111-44-4	Bis(2-chloroethyl)ether	ND	U	mg/kg dry	0.0985	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 23:04	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND	U	mg/kg dry	0.0680	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 23:04	SR
117-81-7	Bis(2-ethylhexyl)phthalate	ND	U	mg/kg dry	0.133	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 23:04	SR
91-58-7	2-Chloronaphthalene	ND	U	mg/kg dry	0.104	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 23:04	SR
95-57-8	2-Chlorophenol	ND	U	mg/kg dry	0.0637	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 23:04	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND	U	mg/kg dry	0.113	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 23:04	SR
218-01-9	Chrysene	**0.102**	J	mg/kg dry	0.0889	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 23:04	SR
53-70-3	Dibenzo(a,h)anthracene	ND	U	mg/kg dry	0.0777	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 23:04	SR
132-64-9	Dibenzofuran	ND	U	mg/kg dry	0.0900	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 23:04	SR
84-74-2	Di-n-butyl phthalate	ND	U	mg/kg dry	0.0784	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 23:04	SR
95-50-1	1,2-Dichlorobenzene	ND	U	mg/kg dry	0.126	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 23:04	SR

Sample Information

Client Sample ID: DUP-1 (052113) **York Sample ID:** 13E0744-11

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0744	170246501	Soil	May 21, 2013 3:00 pm	05/22/2013

Semi-Volatiles, 8270 Target List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
106-46-7	1,4-Dichlorobenzene	ND	U	mg/kg dry	0.119	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 23:04	SR
541-73-1	1,3-Dichlorobenzene	ND	U	mg/kg dry	0.0610	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 23:04	SR
91-94-1	3,3'-Dichlorobenzidine	ND	U	mg/kg dry	0.101	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 23:04	SR
120-83-2	2,4-Dichlorophenol	ND	U	mg/kg dry	0.158	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 23:04	SR
84-66-2	Diethyl phthalate	ND	U	mg/kg dry	0.121	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 23:04	SR
105-67-9	2,4-Dimethylphenol	ND	U	mg/kg dry	0.135	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 23:04	SR
131-11-3	Dimethyl phthalate	ND	U	mg/kg dry	0.0862	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 23:04	SR
88-74-4	2-Nitroaniline	ND	U	mg/kg dry	0.168	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 23:04	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND	U	mg/kg dry	0.243	0.386	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 23:04	SR
51-28-5	2,4-Dinitrophenol	ND	U	mg/kg dry	0.162	0.386	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 23:04	SR
606-20-2	2,6-Dinitrotoluene	ND	U	mg/kg dry	0.0993	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 23:04	SR
121-14-2	2,4-Dinitrotoluene	ND	U	mg/kg dry	0.0854	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 23:04	SR
117-84-0	Di-n-octyl phthalate	ND	U	mg/kg dry	0.193	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 23:04	SR
206-44-0	Fluoranthene	**0.204**		mg/kg dry	0.113	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 23:04	SR
86-73-7	Fluorene	ND	U	mg/kg dry	0.0927	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 23:04	SR
118-74-1	Hexachlorobenzene	ND	U	mg/kg dry	0.114	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 23:04	SR
87-68-3	Hexachlorobutadiene	ND	U	mg/kg dry	0.0653	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 23:04	SR
77-47-4	Hexachlorocyclopentadiene	ND	U	mg/kg dry	0.144	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 23:04	SR
67-72-1	Hexachloroethane	ND	U	mg/kg dry	0.0552	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 23:04	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND	U	mg/kg dry	0.0881	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 23:04	SR
78-59-1	Isophorone	ND	U	mg/kg dry	0.0664	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 23:04	SR
91-57-6	2-Methylnaphthalene	ND	U	mg/kg dry	0.148	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 23:04	SR
95-48-7	2-Methylphenol	ND	U	mg/kg dry	0.0734	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 23:04	SR
65794-96-9	3- & 4-Methylphenols	ND	U	mg/kg dry	0.0838	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 23:04	SR
91-20-3	Naphthalene	ND	U	mg/kg dry	0.0475	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 23:04	SR
99-09-2	3-Nitroaniline	ND	U	mg/kg dry	0.192	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 23:04	SR
100-01-6	4-Nitroaniline	ND	U	mg/kg dry	0.0800	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 23:04	SR
98-95-3	Nitrobenzene	ND	U	mg/kg dry	0.0568	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 23:04	SR
100-02-7	4-Nitrophenol	ND	U	mg/kg dry	0.0726	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 23:04	SR
88-75-5	2-Nitrophenol	ND	U	mg/kg dry	0.0525	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 23:04	SR
621-64-7	N-nitroso-di-n-propylamine	ND	U	mg/kg dry	0.0645	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 23:04	SR
62-75-9	N-Nitrosodimethylamine	ND	U	mg/kg dry	0.0792	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 23:04	SR

Sample Information

Client Sample ID: DUP-1 (052113) **York Sample ID:** 13E0744-11

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0744	170246501	Soil	May 21, 2013 3:00 pm	05/22/2013

Semi-Volatiles, 8270 Target List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
86-30-6	N-Nitrosodiphenylamine	ND	U	mg/kg dry	0.0873	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 23:04	SR
87-86-5	Pentachlorophenol	ND	U	mg/kg dry	0.146	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 23:04	SR
85-01-8	Phenanthrene	**0.107**	J	mg/kg dry	0.101	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 23:04	SR
108-95-2	Phenol	ND	U	mg/kg dry	0.0834	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 23:04	SR
129-00-0	Pyrene	**0.143**	J	mg/kg dry	0.0788	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 23:04	SR
110-86-1	Pyridine	ND	U	mg/kg dry	0.136	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 23:04	SR
120-82-1	1,2,4-Trichlorobenzene	ND	U	mg/kg dry	0.0699	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 23:04	SR
95-95-4	2,4,5-Trichlorophenol	ND	U	mg/kg dry	0.150	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 23:04	SR
88-06-2	2,4,6-Trichlorophenol	ND	U	mg/kg dry	0.0981	0.193	1	EPA SW-846 8270C	05/24/2013 06:47	05/24/2013 23:04	SR

	Surrogate Recoveries	Result	Acceptance Range
5175-83-7	*Surrogate: 2,4,6-Tribromophenol*	*79.8 %*	*15-110*
321-60-8	*Surrogate: 2-Fluorobiphenyl*	*63.1 %*	*30-130*
367-12-4	*Surrogate: 2-Fluorophenol*	*57.2 %*	*15-110*
4165-60-0	*Surrogate: Nitrobenzene-d5*	*62.1 %*	*30-130*
4165-62-2	*Surrogate: Phenol-d5*	*62.7 %*	*15-110*
1718-51-0	*Surrogate: Terphenyl-d14*	*59.5 %*	*30-130*

Pesticides/PCBs, EPA 8081/8082 List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
8001-35-2	Toxaphene	ND	U	mg/kg dry	0.0968	0.0968	5	EPA SW 846-8081/8082	05/24/2013 08:59	05/28/2013 15:02	JW
72-43-5	Methoxychlor	ND	U	mg/kg dry	0.00956	0.00956	5	EPA SW 846-8081/8082	05/24/2013 08:59	05/28/2013 15:02	JW
1024-57-3	Heptachlor epoxide	ND	U	mg/kg dry	0.00191	0.00191	5	EPA SW 846-8081/8082	05/24/2013 08:59	05/28/2013 15:02	JW
76-44-8	Heptachlor	ND	U	mg/kg dry	0.00191	0.00191	5	EPA SW 846-8081/8082	05/24/2013 08:59	05/28/2013 15:02	JW
58-89-9	gamma-BHC (Lindane)	ND	U	mg/kg dry	0.00191	0.00191	5	EPA SW 846-8081/8082	05/24/2013 08:59	05/28/2013 15:02	JW
53494-70-5	Endrin ketone	ND	U	mg/kg dry	0.00191	0.00191	5	EPA SW 846-8081/8082	05/24/2013 08:59	05/28/2013 15:02	JW
7421-93-4	Endrin aldehyde	ND	U	mg/kg dry	0.00191	0.00191	5	EPA SW 846-8081/8082	05/24/2013 08:59	05/28/2013 15:02	JW
72-20-8	Endrin	ND	U	mg/kg dry	0.00191	0.00191	5	EPA SW 846-8081/8082	05/24/2013 08:59	05/28/2013 15:02	JW
1031-07-8	Endosulfan sulfate	ND	U	mg/kg dry	0.00191	0.00191	5	EPA SW 846-8081/8082	05/24/2013 08:59	05/28/2013 15:02	JW
33213-65-9	Endosulfan II	ND	U	mg/kg dry	0.00191	0.00191	5	EPA SW 846-8081/8082	05/24/2013 08:59	05/28/2013 15:02	JW
959-98-8	Endosulfan I	ND	U	mg/kg dry	0.00191	0.00191	5	EPA SW 846-8081/8082	05/24/2013 08:59	05/28/2013 15:02	JW
60-57-1	Dieldrin	ND	U	mg/kg dry	0.00191	0.00191	5	EPA SW 846-8081/8082	05/24/2013 08:59	05/28/2013 15:02	JW
319-86-8	delta-BHC	ND	U	mg/kg dry	0.00191	0.00191	5	EPA SW 846-8081/8082	05/24/2013 08:59	05/28/2013 15:02	JW
57-74-9	Chlordane, total	ND	U	mg/kg dry	0.00765	0.00765	5	EPA SW 846-8081/8082	05/24/2013 08:59	05/28/2013 15:02	JW
319-85-7	beta-BHC	ND	U	mg/kg dry	0.00191	0.00191	5	EPA SW 846-8081/8082	05/24/2013 08:59	05/28/2013 15:02	JW

Sample Information

Client Sample ID: DUP-1 (052113) **York Sample ID:** 13E0744-11

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0744	170246501	Soil	May 21, 2013 3:00 pm	05/22/2013

Pesticides/PCBs, EPA 8081/8082 List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
319-84-6	alpha-BHC	ND	U	mg/kg dry	0.00191	0.00191	5	EPA SW 846-8081/8082	05/24/2013 08:59	05/28/2013 15:02	JW
309-00-2	Aldrin	ND	U	mg/kg dry	0.00191	0.00191	5	EPA SW 846-8081/8082	05/24/2013 08:59	05/28/2013 15:02	JW
50-29-3	4,4'-DDT	ND	U	mg/kg dry	0.00191	0.00191	5	EPA SW 846-8081/8082	05/24/2013 08:59	05/28/2013 15:02	JW
72-55-9	4,4'-DDE	ND	U	mg/kg dry	0.00191	0.00191	5	EPA SW 846-8081/8082	05/24/2013 08:59	05/28/2013 15:02	JW
72-54-8	4,4'-DDD	ND	U	mg/kg dry	0.00191	0.00191	5	EPA SW 846-8081/8082	05/24/2013 08:59	05/28/2013 15:02	JW
11096-82-5	Aroclor 1260	ND	U	mg/kg dry	0.0197	0.0197	1	EPA SW 846-8081/8082	05/24/2013 08:59	05/28/2013 16:19	JW
11097-69-1	Aroclor 1254	ND	U	mg/kg dry	0.0197	0.0197	1	EPA SW 846-8081/8082	05/24/2013 08:59	05/28/2013 16:19	JW
12672-29-6	Aroclor 1248	ND	U	mg/kg dry	0.0197	0.0197	1	EPA SW 846-8081/8082	05/24/2013 08:59	05/28/2013 16:19	JW
53469-21-9	Aroclor 1242	ND	U	mg/kg dry	0.0197	0.0197	1	EPA SW 846-8081/8082	05/24/2013 08:59	05/28/2013 16:19	JW
11141-16-5	Aroclor 1232	ND	U	mg/kg dry	0.0197	0.0197	1	EPA SW 846-8081/8082	05/24/2013 08:59	05/28/2013 16:19	JW
11104-28-2	Aroclor 1221	ND	U	mg/kg dry	0.0197	0.0197	1	EPA SW 846-8081/8082	05/24/2013 08:59	05/28/2013 16:19	JW
12674-11-2	Aroclor 1016	ND	U	mg/kg dry	0.0197	0.0197	1	EPA SW 846-8081/8082	05/24/2013 08:59	05/28/2013 16:19	JW
1336-36-3	Total PCBs	ND	U	mg/kg dry	0.00788	0.0197	1	EPA SW 846-8081/8082	05/24/2013 08:59	05/28/2013 16:19	JW

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*58.9 %*	*30-150*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*47.9 %*	*30-150*

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	**14500**		mg/kg dry	1.18	2.32	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 21:44	MW
7440-36-0	Antimony	ND	U	mg/kg dry	0.255	0.579	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 21:44	MW
7440-38-2	Arsenic	**4.60**		mg/kg dry	0.394	1.16	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 21:44	MW
7440-39-3	Barium	**89.6**		mg/kg dry	0.151	0.579	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 21:44	MW
7440-41-7	Beryllium	ND	U	mg/kg dry	0.116	0.116	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 21:44	MW
7440-43-9	Cadmium	ND	U	mg/kg dry	0.116	0.579	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 21:44	MW
7440-70-2	Calcium	**1940**		mg/kg dry	0.046	5.79	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 21:44	MW
7440-47-3	Chromium	**28.7**		mg/kg dry	0.139	0.579	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 21:44	MW
7440-48-4	Cobalt	**9.43**		mg/kg dry	0.093	0.579	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 21:44	MW
7440-50-8	Copper	**18.6**		mg/kg dry	0.139	0.579	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 21:44	MW
7439-89-6	Iron	**20200**		mg/kg dry	0.753	2.32	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 21:44	MW
7439-92-1	Lead	**143**		mg/kg dry	0.197	0.348	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 21:44	MW
7439-95-4	Magnesium	**5040**		mg/kg dry	0.522	5.79	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 21:44	MW
7439-96-5	Manganese	**443**		mg/kg dry	0.127	1.16	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 21:44	MW
7440-02-0	Nickel	**25.2**		mg/kg dry	0.151	0.579	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 21:44	MW

Sample Information

Client Sample ID: DUP-1 (052113) **York Sample ID:** 13E0744-11

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0744	170246501	Soil	May 21, 2013 3:00 pm	05/22/2013

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-09-7	Potassium	**1040**		mg/kg dry	3.92	11.6	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 21:44	MW
7782-49-2	Selenium	**1.25**		mg/kg dry	0.579	0.579	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 21:44	MW
7440-22-4	Silver	ND	U	mg/kg dry	0.116	0.579	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 21:44	MW
7440-23-5	Sodium	**123**	B	mg/kg dry	6.11	11.6	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 21:44	MW
7440-28-0	Thallium	ND	U	mg/kg dry	0.371	0.579	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 21:44	MW
7440-62-2	Vanadium	**31.8**		mg/kg dry	0.127	0.579	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 21:44	MW
7440-66-6	Zinc	**84.2**		mg/kg dry	0.104	0.579	1	EPA SW846-6010B	05/23/2013 16:16	05/23/2013 21:44	MW

Mercury by 7470/7471

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-7471

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND	U	mg/kg dry	0.0382	0.0382	1	EPA SW846-7471	05/24/2013 10:58	05/24/2013 18:33	AA

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	**86.3**		%	0.100	0.100	1	SM 2540G	05/23/2013 09:08	05/23/2013 12:26	AMC

Sample Information

Client Sample ID: TB_052113 **York Sample ID:** 13E0744-12

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0744	170246501	Water	May 21, 2013 3:00 pm	05/22/2013

Volatile Organics, 8260 List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/23/2013 16:30	05/24/2013 03:01	SS
71-55-6	1,1,1-Trichloroethane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/23/2013 16:30	05/24/2013 03:01	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/23/2013 16:30	05/24/2013 03:01	SS
76-13-1	,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/23/2013 16:30	05/24/2013 03:01	SS
79-00-5	1,1,2-Trichloroethane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/23/2013 16:30	05/24/2013 03:01	SS
75-34-3	1,1-Dichloroethane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/23/2013 16:30	05/24/2013 03:01	SS
75-35-4	1,1-Dichloroethylene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/23/2013 16:30	05/24/2013 03:01	SS
563-58-6	1,1-Dichloropropylene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/23/2013 16:30	05/24/2013 03:01	SS
87-61-6	1,2,3-Trichlorobenzene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/23/2013 16:30	05/24/2013 03:01	SS

Sample Information

Client Sample ID: TB_052113 **York Sample ID:** 13E0744-12

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0744	170246501	Water	May 21, 2013 3:00 pm	05/22/2013

Volatile Organics, 8260 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
96-18-4	1,2,3-Trichloropropane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/23/2013 16:30	05/24/2013 03:01	SS
120-82-1	1,2,4-Trichlorobenzene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/23/2013 16:30	05/24/2013 03:01	SS
95-63-6	1,2,4-Trimethylbenzene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/23/2013 16:30	05/24/2013 03:01	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/23/2013 16:30	05/24/2013 03:01	SS
106-93-4	1,2-Dibromoethane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/23/2013 16:30	05/24/2013 03:01	SS
95-50-1	1,2-Dichlorobenzene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/23/2013 16:30	05/24/2013 03:01	SS
107-06-2	1,2-Dichloroethane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/23/2013 16:30	05/24/2013 03:01	SS
78-87-5	1,2-Dichloropropane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/23/2013 16:30	05/24/2013 03:01	SS
108-67-8	1,3,5-Trimethylbenzene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/23/2013 16:30	05/24/2013 03:01	SS
541-73-1	1,3-Dichlorobenzene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/23/2013 16:30	05/24/2013 03:01	SS
142-28-9	1,3-Dichloropropane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/23/2013 16:30	05/24/2013 03:01	SS
106-46-7	1,4-Dichlorobenzene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/23/2013 16:30	05/24/2013 03:01	SS
594-20-7	2,2-Dichloropropane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/23/2013 16:30	05/24/2013 03:01	SS
78-93-3	2-Butanone	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/23/2013 16:30	05/24/2013 03:01	SS
95-49-8	2-Chlorotoluene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/23/2013 16:30	05/24/2013 03:01	SS
106-43-4	4-Chlorotoluene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/23/2013 16:30	05/24/2013 03:01	SS
67-64-1	Acetone	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/23/2013 16:30	05/24/2013 03:01	SS
71-43-2	Benzene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/23/2013 16:30	05/24/2013 03:01	SS
108-86-1	Bromobenzene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/23/2013 16:30	05/24/2013 03:01	SS
74-97-5	Bromochloromethane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/23/2013 16:30	05/24/2013 03:01	SS
75-27-4	Bromodichloromethane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/23/2013 16:30	05/24/2013 03:01	SS
75-25-2	Bromoform	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/23/2013 16:30	05/24/2013 03:01	SS
74-83-9	Bromomethane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/23/2013 16:30	05/24/2013 03:01	SS
56-23-5	Carbon tetrachloride	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/23/2013 16:30	05/24/2013 03:01	SS
108-90-7	Chlorobenzene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/23/2013 16:30	05/24/2013 03:01	SS
75-00-3	Chloroethane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/23/2013 16:30	05/24/2013 03:01	SS
67-66-3	Chloroform	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/23/2013 16:30	05/24/2013 03:01	SS
74-87-3	Chloromethane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/23/2013 16:30	05/24/2013 03:01	SS
156-59-2	cis-1,2-Dichloroethylene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/23/2013 16:30	05/24/2013 03:01	SS
10061-01-5	cis-1,3-Dichloropropylene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/23/2013 16:30	05/24/2013 03:01	SS
124-48-1	Dibromochloromethane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/23/2013 16:30	05/24/2013 03:01	SS
74-95-3	Dibromomethane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/23/2013 16:30	05/24/2013 03:01	SS

Sample Information

Client Sample ID: TB_052113 **York Sample ID:** 13E0744-12

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0744	170246501	Water	May 21, 2013 3:00 pm	05/22/2013

Volatile Organics, 8260 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-71-8	Dichlorodifluoromethane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/23/2013 16:30	05/24/2013 03:01	SS
100-41-4	Ethyl Benzene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/23/2013 16:30	05/24/2013 03:01	SS
87-68-3	Hexachlorobutadiene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/23/2013 16:30	05/24/2013 03:01	SS
98-82-8	Isopropylbenzene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/23/2013 16:30	05/24/2013 03:01	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/23/2013 16:30	05/24/2013 03:01	SS
75-09-2	Methylene chloride	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/23/2013 16:30	05/24/2013 03:01	SS
91-20-3	Naphthalene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/23/2013 16:30	05/24/2013 03:01	SS
104-51-8	n-Butylbenzene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/23/2013 16:30	05/24/2013 03:01	SS
103-65-1	n-Propylbenzene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/23/2013 16:30	05/24/2013 03:01	SS
95-47-6	o-Xylene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/23/2013 16:30	05/24/2013 03:01	SS
179601-23-1	p- & m- Xylenes	ND	U	ug/L	5.0	10	1	EPA SW846-8260B	05/23/2013 16:30	05/24/2013 03:01	SS
99-87-6	p-Isopropyltoluene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/23/2013 16:30	05/24/2013 03:01	SS
135-98-8	sec-Butylbenzene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/23/2013 16:30	05/24/2013 03:01	SS
100-42-5	Styrene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/23/2013 16:30	05/24/2013 03:01	SS
98-06-6	tert-Butylbenzene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/23/2013 16:30	05/24/2013 03:01	SS
127-18-4	Tetrachloroethylene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/23/2013 16:30	05/24/2013 03:01	SS
108-88-3	Toluene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/23/2013 16:30	05/24/2013 03:01	SS
156-60-5	trans-1,2-Dichloroethylene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/23/2013 16:30	05/24/2013 03:01	SS
10061-02-6	trans-1,3-Dichloropropylene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/23/2013 16:30	05/24/2013 03:01	SS
79-01-6	Trichloroethylene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/23/2013 16:30	05/24/2013 03:01	SS
75-69-4	Trichlorofluoromethane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/23/2013 16:30	05/24/2013 03:01	SS
75-01-4	Vinyl Chloride	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/23/2013 16:30	05/24/2013 03:01	SS
1330-20-7	Xylenes, Total	ND	U	ug/L	7.5	15	1	EPA SW846-8260B	05/23/2013 16:30	05/24/2013 03:01	SS
108-05-4	Vinyl acetate	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/23/2013 16:30	05/24/2013 03:01	SS

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*101 %*	*72.6-129*
460-00-4	*Surrogate: p-Bromofluorobenzene*	*109 %*	*63.5-145*
2037-26-5	*Surrogate: Toluene-d8*	*99.0 %*	*81.2-127*

Analytical Batch Summary

Batch ID: BE31060 **Preparation Method:** % Solids Prep **Prepared By:** AMC

YORK Sample ID	Client Sample ID	Preparation Date
13E0744-01	MW-5 (0-2)	05/23/13
13E0744-02	MW-5 (6-8)	05/23/13
13E0744-03	LG-20 (0-2)	05/23/13
13E0744-04	LG-20 (22-24)	05/23/13
13E0744-05	LG-21 (0-2)	05/23/13
13E0744-06	LG-21 (20-22)	05/23/13
13E0744-07	MW-10 (1-3)	05/23/13
13E0744-08	MW-10 (32-34)	05/23/13
13E0744-09	LG-19 (0-2)	05/23/13
13E0744-10	LG-19 (26-28)	05/23/13
13E0744-11	DUP-1 (052113)	05/23/13

Batch ID: BE31070 **Preparation Method:** EPA 5035A **Prepared By:** EKM

YORK Sample ID	Client Sample ID	Preparation Date
13E0744-01	MW-5 (0-2)	05/23/13
13E0744-02	MW-5 (6-8)	05/23/13
13E0744-03	LG-20 (0-2)	05/23/13
13E0744-04	LG-20 (22-24)	05/23/13
13E0744-05	LG-21 (0-2)	05/23/13
13E0744-06	LG-21 (20-22)	05/23/13
13E0744-07	MW-10 (1-3)	05/23/13
13E0744-08	MW-10 (32-34)	05/23/13
13E0744-10	LG-19 (26-28)	05/23/13
13E0744-11	DUP-1 (052113)	05/23/13
BE31070-BLK1	Blank	05/23/13
BE31070-BS1	LCS	05/23/13
BE31070-BSD1	LCS Dup	05/23/13
BE31070-MS1	Matrix Spike	05/23/13

Batch ID: BE31101 **Preparation Method:** EPA 5030B **Prepared By:** BK

YORK Sample ID	Client Sample ID	Preparation Date
13E0744-12	TB_052113	05/23/13
BE31101-BLK1	Blank	05/23/13
BE31101-BS1	LCS	05/23/13
BE31101-BSD1	LCS Dup	05/23/13

Batch ID: BE31111 **Preparation Method:** EPA 3050B **Prepared By:** MW

YORK Sample ID	Client Sample ID	Preparation Date
13E0744-01	MW-5 (0-2)	05/23/13
13E0744-02	MW-5 (6-8)	05/23/13
13E0744-03	LG-20 (0-2)	05/23/13
13E0744-04	LG-20 (22-24)	05/23/13

13E0744-05	LG-21 (0-2)	05/23/13
13E0744-06	LG-21 (20-22)	05/23/13
13E0744-07	MW-10 (1-3)	05/23/13
13E0744-08	MW-10 (32-34)	05/23/13
13E0744-09	LG-19 (0-2)	05/23/13
13E0744-10	LG-19 (26-28)	05/23/13
13E0744-11	DUP-1 (052113)	05/23/13
BE31111-BLK1	Blank	05/23/13
BE31111-DUP1	Duplicate	05/23/13
BE31111-MS1	Matrix Spike	05/23/13
BE31111-SRM1	Reference	05/23/13

Batch ID: BE31116 **Preparation Method:** EPA 3550B **Prepared By:** CM

YORK Sample ID	Client Sample ID	Preparation Date
13E0744-01	MW-5 (0-2)	05/24/13
13E0744-03	LG-20 (0-2)	05/24/13
13E0744-05	LG-21 (0-2)	05/24/13
13E0744-07	MW-10 (1-3)	05/24/13
13E0744-09	LG-19 (0-2)	05/24/13
13E0744-11	DUP-1 (052113)	05/24/13
BE31116-BLK1	Blank	05/24/13
BE31116-BS1	LCS	05/24/13
BE31116-BS2	LCS	05/24/13
BE31116-BSD1	LCS Dup	05/24/13
BE31116-MS1	Matrix Spike	05/24/13

Batch ID: BE31117 **Preparation Method:** EPA 3550B **Prepared By:** CC

YORK Sample ID	Client Sample ID	Preparation Date
13E0744-01	MW-5 (0-2)	05/24/13
13E0744-02	MW-5 (6-8)	05/24/13
13E0744-03	LG-20 (0-2)	05/24/13
13E0744-04	LG-20 (22-24)	05/24/13
13E0744-05	LG-21 (0-2)	05/24/13
13E0744-06	LG-21 (20-22)	05/24/13
13E0744-07	MW-10 (1-3)	05/24/13
13E0744-08	MW-10 (32-34)	05/24/13
13E0744-09	LG-19 (0-2)	05/24/13
13E0744-10	LG-19 (26-28)	05/24/13
13E0744-11	DUP-1 (052113)	05/24/13
BE31117-BLK1	Blank	05/24/13
BE31117-BS1	LCS	05/24/13
BE31117-BSD1	LCS Dup	05/24/13

Batch ID: BE31118 **Preparation Method:** EPA 3550B **Prepared By:** CC

YORK Sample ID	Client Sample ID	Preparation Date
13E0744-02	MW-5 (6-8)	05/24/13
13E0744-04	LG-20 (22-24)	05/24/13
13E0744-06	LG-21 (20-22)	05/24/13

13E0744-08	MW-10 (32-34)	05/24/13
13E0744-10	LG-19 (26-28)	05/24/13
BE31118-BLK1	Blank	05/24/13
BE31118-BS1	LCS	05/24/13
BE31118-BSD1	LCS Dup	05/24/13
BE31118-MS1	Matrix Spike	05/24/13

Batch ID: BE31145 **Preparation Method:** EPA SW846-7471 **Prepared By:** AA

YORK Sample ID	Client Sample ID	Preparation Date
13E0744-01	MW-5 (0-2)	05/24/13
13E0744-02	MW-5 (6-8)	05/24/13
13E0744-03	LG-20 (0-2)	05/24/13
13E0744-04	LG-20 (22-24)	05/24/13
13E0744-05	LG-21 (0-2)	05/24/13
13E0744-06	LG-21 (20-22)	05/24/13
13E0744-07	MW-10 (1-3)	05/24/13
13E0744-08	MW-10 (32-34)	05/24/13
13E0744-09	LG-19 (0-2)	05/24/13
13E0744-10	LG-19 (26-28)	05/24/13
13E0744-11	DUP-1 (052113)	05/24/13
BE31145-BLK1	Blank	05/24/13
BE31145-BS1	LCS	05/24/13
BE31145-DUP2	Duplicate	05/24/13
BE31145-MS2	Matrix Spike	05/24/13

Batch ID: BE31233 **Preparation Method:** EPA 5035A **Prepared By:** EKM

YORK Sample ID	Client Sample ID	Preparation Date
13E0744-09	LG-19 (0-2)	05/28/13
BE31233-BLK1	Blank	05/28/13
BE31233-BS1	LCS	05/28/13
BE31233-BSD1	LCS Dup	05/28/13

Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BE31070 - EPA 5035A											
Blank (BE31070-BLK1)											Prepared & Analyzed: 05/23/2013
1,1,1,2-Tetrachloroethane	ND	0.0050	mg/kg wet								
1,1,1-Trichloroethane	ND	0.0050	"								
1,1,2,2-Tetrachloroethane	ND	0.0050	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0050	"								
1,1,2-Trichloroethane	ND	0.0050	"								
1,1-Dichloroethane	ND	0.0050	"								
1,1-Dichloroethylene	ND	0.0050	"								
1,1-Dichloropropylene	ND	0.0050	"								
1,2,3-Trichlorobenzene	ND	0.0050	"								
1,2,3-Trichloropropane	ND	0.0050	"								
1,2,4-Trichlorobenzene	ND	0.0050	"								
1,2,4-Trimethylbenzene	ND	0.0050	"								
1,2-Dibromo-3-chloropropane	ND	0.0050	"								
1,2-Dibromoethane	ND	0.0050	"								
1,2-Dichlorobenzene	ND	0.0050	"								
1,2-Dichloroethane	ND	0.0050	"								
1,2-Dichloropropane	ND	0.0050	"								
1,3,5-Trimethylbenzene	ND	0.0050	"								
1,3-Dichlorobenzene	ND	0.0050	"								
1,3-Dichloropropane	ND	0.0050	"								
1,4-Dichlorobenzene	ND	0.0050	"								
1,4-Dioxane	ND	0.10	"								
2,2-Dichloropropane	ND	0.0050	"								
2-Butanone	ND	0.0050	"								
2-Chlorotoluene	ND	0.0050	"								
4-Chlorotoluene	ND	0.0050	"								
Acetone	0.0031	0.010	"								
Benzene	ND	0.0050	"								
Bromobenzene	ND	0.0050	"								
Bromochloromethane	ND	0.0050	"								
Bromodichloromethane	ND	0.0050	"								
Bromoform	ND	0.0050	"								
Bromomethane	ND	0.0050	"								
Carbon tetrachloride	ND	0.0050	"								
Chlorobenzene	ND	0.0050	"								
Chloroethane	ND	0.0050	"								
Chloroform	ND	0.0050	"								
Chloromethane	ND	0.0050	"								
cis-1,2-Dichloroethylene	ND	0.0050	"								
cis-1,3-Dichloropropylene	ND	0.0050	"								
Dibromochloromethane	ND	0.0050	"								
Dibromomethane	ND	0.0050	"								
Dichlorodifluoromethane	ND	0.0050	"								
Ethyl Benzene	ND	0.0050	"								
Hexachlorobutadiene	ND	0.0050	"								
Isopropylbenzene	ND	0.0050	"								
Methyl tert-butyl ether (MTBE)	ND	0.0050	"								
Methylene chloride	ND	0.010	"								
Naphthalene	ND	0.010	"								
n-Butylbenzene	ND	0.0050	"								
n-Propylbenzene	ND	0.0050	"								



Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BE31070 - EPA 5035A											
Blank (BE31070-BLK1)									Prepared & Analyzed: 05/23/2013		
o-Xylene	ND	0.0050	mg/kg wet								
p- & m- Xylenes	ND	0.010	"								
p-Isopropyltoluene	ND	0.0050	"								
sec-Butylbenzene	ND	0.0050	"								
Styrene	ND	0.0050	"								
tert-Butylbenzene	ND	0.0050	"								
Tetrachloroethylene	ND	0.0050	"								
Toluene	ND	0.0050	"								
trans-1,2-Dichloroethylene	ND	0.0050	"								
trans-1,3-Dichloropropylene	ND	0.0050	"								
Trichloroethylene	ND	0.0050	"								
Trichlorofluoromethane	ND	0.0050	"								
Vinyl Chloride	ND	0.0050	"								
Xylenes, Total	ND	0.015	"								
Vinyl acetate	ND	0.0050	"								
Surrogate: 1,2-Dichloroethane-d4	*54.6*		*ug/L*	*50.0*		*109*	*73-130*				
Surrogate: p-Bromofluorobenzene	*54.2*		*"*	*50.0*		*108*	*72-127*				
Surrogate: Toluene-d8	*49.8*		*"*	*50.0*		*99.5*	*84-117*				
LCS (BE31070-BS1)									Prepared & Analyzed: 05/23/2013		
1,1,1,2-Tetrachloroethane	50		ug/L	50.0		99.6	72-132				
1,1,1-Trichloroethane	54		"	50.0		109	77-131				
1,1,2,2-Tetrachloroethane	51		"	50.0		103	68-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	57		"	50.0		114	75-143				
1,1,2-Trichloroethane	50		"	50.0		99.1	72-128				
1,1-Dichloroethane	49		"	50.0		97.5	78-133				
1,1-Dichloroethylene	57		"	50.0		114	71-142				
1,1-Dichloropropylene	50		"	50.0		99.0	77-124				
1,2,3-Trichlorobenzene	57		"	50.0		114	65-134				
1,2,3-Trichloropropane	53		"	50.0		106	65-127				
1,2,4-Trichlorobenzene	57		"	50.0		114	59-133				
1,2,4-Trimethylbenzene	52		"	50.0		103	68-128				
1,2-Dibromo-3-chloropropane	50		"	50.0		101	58-145				
1,2-Dibromoethane	52		"	50.0		105	73-128				
1,2-Dichlorobenzene	50		"	50.0		99.7	69-126				
1,2-Dichloroethane	51		"	50.0		102	78-131				
1,2-Dichloropropane	51		"	50.0		101	72-129				
1,3,5-Trimethylbenzene	51		"	50.0		103	67-125				
1,3-Dichlorobenzene	51		"	50.0		102	67-125				
1,3-Dichloropropane	49		"	50.0		97.9	73-126				
1,4-Dichlorobenzene	51		"	50.0		102	67-127				
1,4-Dioxane	7.1		"	50.0		14.1	10-265				
2,2-Dichloropropane	55		"	50.0		110	68-133				
2-Butanone	46		"	50.0		92.2	49-138				
2-Chlorotoluene	51		"	50.0		101	61-121				
4-Chlorotoluene	51		"	50.0		103	65-126				
Acetone	41		"	50.0		82.2	21-131				
Benzene	54		"	50.0		108	81-125				
Bromobenzene	49		"	50.0		98.0	65-125				
Bromochloromethane	55		"	50.0		109	78-127				
Bromodichloromethane	54		"	50.0		107	73-131				
Bromoform	56		"	50.0		113	66-137				

Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BE31070 - EPA 5035A											
LCS (BE31070-BS1)								Prepared & Analyzed: 05/23/2013			
Bromomethane	49		ug/L	50.0		97.9	55-144				
Carbon tetrachloride	55		"	50.0		109	74-137				
Chlorobenzene	50		"	50.0		99.2	75-127				
Chloroethane	55		"	50.0		109	65-138				
Chloroform	53		"	50.0		106	82-128				
Chloromethane	49		"	50.0		98.5	51-138				
cis-1,2-Dichloroethylene	54		"	50.0		108	77-130				
cis-1,3-Dichloropropylene	55		"	50.0		110	68-123				
Dibromochloromethane	54		"	50.0		109	73-136				
Dibromomethane	52		"	50.0		104	75-131				
Dichlorodifluoromethane	38		"	50.0		76.7	10-183				
Ethyl Benzene	53		"	50.0		106	75-130				
Hexachlorobutadiene	48		"	50.0		95.9	59-130				
Isopropylbenzene	52		"	50.0		104	68-135				
Methyl tert-butyl ether (MTBE)	56		"	50.0		112	76-136				
Methylene chloride	56		"	50.0		113	55-143				
Naphthalene	60		"	50.0		121	65-140				
n-Butylbenzene	54		"	50.0		108	63-123				
n-Propylbenzene	53		"	50.0		107	65-127				
o-Xylene	50		"	50.0		99.2	71-123				
p- & m- Xylenes	110		"	100		108	72-127				
p-Isopropyltoluene	53		"	50.0		105	69-128				
sec-Butylbenzene	53		"	50.0		106	69-125				
Styrene	51		"	50.0		102	74-127				
tert-Butylbenzene	52		"	50.0		104	59-164				
Tetrachloroethylene	49		"	50.0		97.1	65-151				
Toluene	51		"	50.0		102	72-127				
trans-1,2-Dichloroethylene	56		"	50.0		112	73-137				
trans-1,3-Dichloropropylene	52		"	50.0		104	67-131				
Trichloroethylene	50		"	50.0		100	73-129				
Trichlorofluoromethane	54		"	50.0		108	69-136				
Vinyl Chloride	48		"	50.0		97.0	58-132				
Vinyl acetate	45		"	50.0		89.6	10-84	High Bias			
Surrogate: 1,2-Dichloroethane-d4	*51.5*		*"*	*50.0*		*103*	*73-130*				
Surrogate: p-Bromofluorobenzene	*50.3*		*"*	*50.0*		*101*	*72-127*				
Surrogate: Toluene-d8	*49.2*		*"*	*50.0*		*98.4*	*84-117*				



Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BE31070 - EPA 5035A											
LCS Dup (BE31070-BSD1)								Prepared & Analyzed: 05/23/2013			
1,1,1,2-Tetrachloroethane	49		ug/L	50.0		97.8	72-132		1.88	30	
1,1,1-Trichloroethane	52		"	50.0		104	77-131		4.61	30	
1,1,2,2-Tetrachloroethane	50		"	50.0		99.3	68-129		3.19	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	54		"	50.0		107	75-143		5.88	30	
1,1,2-Trichloroethane	48		"	50.0		95.4	72-128		3.84	30	
1,1-Dichloroethane	56		"	50.0		112	78-133		13.5	30	
1,1-Dichloroethylene	54		"	50.0		109	71-142		5.00	30	
1,1-Dichloropropylene	48		"	50.0		96.6	77-124		2.47	30	
1,2,3-Trichlorobenzene	54		"	50.0		109	65-134		4.58	30	
1,2,3-Trichloropropane	52		"	50.0		105	65-127		0.892	30	
1,2,4-Trichlorobenzene	55		"	50.0		110	59-133		3.18	30	
1,2,4-Trimethylbenzene	50		"	50.0		100	68-128		2.97	30	
1,2-Dibromo-3-chloropropane	51		"	50.0		103	58-145		2.12	30	
1,2-Dibromoethane	50		"	50.0		101	73-128		3.52	30	
1,2-Dichlorobenzene	49		"	50.0		97.0	69-126		2.70	30	
1,2-Dichloroethane	49		"	50.0		98.2	78-131		3.76	30	
1,2-Dichloropropane	50		"	50.0		99.1	72-129		1.92	30	
1,3,5-Trimethylbenzene	50		"	50.0		101	67-125		1.75	30	
1,3-Dichlorobenzene	50		"	50.0		99.8	67-125		2.24	30	
1,3-Dichloropropane	48		"	50.0		95.3	73-126		2.69	30	
1,4-Dichlorobenzene	50		"	50.0		99.1	67-127		3.41	30	
1,4-Dioxane	1.6		"	50.0		3.12	10-265	Low Bias	128	30	Non-dir.
2,2-Dichloropropane	52		"	50.0		104	68-133		5.68	30	
2-Butanone	45		"	50.0		90.3	49-138		1.99	30	
2-Chlorotoluene	49		"	50.0		98.3	61-121		3.03	30	
4-Chlorotoluene	50		"	50.0		100	65-126		2.42	30	
Acetone	36		"	50.0		71.7	21-131		13.7	30	
Benzene	51		"	50.0		103	81-125		5.11	30	
Bromobenzene	47		"	50.0		94.2	65-125		3.91	30	
Bromochloromethane	53		"	50.0		106	78-127		2.86	30	
Bromodichloromethane	52		"	50.0		103	73-131		3.86	30	
Bromoform	54		"	50.0		107	66-137		5.03	30	
Bromomethane	47		"	50.0		93.1	55-144		4.96	30	
Carbon tetrachloride	52		"	50.0		103	74-137		5.59	30	
Chlorobenzene	48		"	50.0		96.0	75-127		3.34	30	
Chloroethane	51		"	50.0		103	65-138		5.81	30	
Chloroform	51		"	50.0		103	82-128		3.37	30	
Chloromethane	47		"	50.0		93.7	51-138		4.95	30	
cis-1,2-Dichloroethylene	50		"	50.0		101	77-130		7.08	30	
cis-1,3-Dichloropropylene	52		"	50.0		104	68-123		4.77	30	
Dibromochloromethane	53		"	50.0		106	73-136		2.59	30	
Dibromomethane	52		"	50.0		103	75-131		0.848	30	
Dichlorodifluoromethane	36		"	50.0		71.7	10-183		6.74	30	
Ethyl Benzene	52		"	50.0		103	75-130		2.58	30	
Hexachlorobutadiene	47		"	50.0		94.9	59-130		1.07	30	
Isopropylbenzene	50		"	50.0		101	68-135		3.19	30	
Methyl tert-butyl ether (MTBE)	52		"	50.0		104	76-136		7.35	30	
Methylene chloride	54		"	50.0		108	55-143		4.77	30	
Naphthalene	59		"	50.0		118	65-140		2.56	30	
n-Butylbenzene	52		"	50.0		105	63-123		2.41	30	
n-Propylbenzene	52		"	50.0		104	65-127		2.31	30	

Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BE31070 - EPA 5035A											
LCS Dup (BE31070-BSD1)								Prepared & Analyzed: 05/23/2013			
o-Xylene	48		ug/L	50.0		96.3	71-123		2.97	30	
p- & m- Xylenes	110		"	100		105	72-127		2.22	30	
p-Isopropyltoluene	51		"	50.0		103	69-128		2.60	30	
sec-Butylbenzene	52		"	50.0		105	69-125		1.73	30	
Styrene	50		"	50.0		100	74-127		2.17	30	
tert-Butylbenzene	50		"	50.0		100	59-164		3.29	30	
Tetrachloroethylene	49		"	50.0		97.6	65-151		0.493	30	
Toluene	50		"	50.0		99.7	72-127		2.26	30	
trans-1,2-Dichloroethylene	53		"	50.0		107	73-137		4.85	30	
trans-1,3-Dichloropropylene	50		"	50.0		100	67-131		3.91	30	
Trichloroethylene	49		"	50.0		97.8	73-129		2.68	30	
Trichlorofluoromethane	51		"	50.0		103	69-136		4.85	30	
Vinyl Chloride	46		"	50.0		91.4	58-132		5.86	30	
Vinyl acetate	44		"	50.0		87.9	10-84	High Bias	1.94	30	
Surrogate: 1,2-Dichloroethane-d4	*49.2*		*"*	*50.0*		*98.4*	*73-130*				
Surrogate: p-Bromofluorobenzene	*51.1*		*"*	*50.0*		*102*	*72-127*				
Surrogate: Toluene-d8	*49.5*		*"*	*50.0*		*98.9*	*84-117*				
Matrix Spike (BE31070-MS1)	*Source sample: 13E0744-01 (MW-5 (0-2))							Prepared & Analyzed: 05/23/2013			
1,1,1,2-Tetrachloroethane	44		ug/L	50.0	ND	88.3	48-129				
1,1,1-Trichloroethane	47		"	50.0	ND	94.1	60-128				
1,1,2,2-Tetrachloroethane	47		"	50.0	ND	94.2	20-143				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	47		"	50.0	ND	93.4	52-129				
1,1,2-Trichloroethane	46		"	50.0	ND	92.6	53-126				
1,1-Dichloroethane	44		"	50.0	ND	87.4	62-129				
1,1-Dichloroethylene	52		"	50.0	ND	103	50-138				
1,1-Dichloropropylene	43		"	50.0	ND	85.1	49-120				
1,2,3-Trichlorobenzene	39		"	50.0	ND	77.3	10-120				
1,2,3-Trichloropropane	53		"	50.0	ND	105	42-132				
1,2,4-Trichlorobenzene	36		"	50.0	ND	71.8	10-113				
1,2,4-Trimethylbenzene	43		"	50.0	ND	85.6	10-173				
1,2-Dibromo-3-chloropropane	48		"	50.0	ND	95.9	16-151				
1,2-Dibromoethane	47		"	50.0	ND	93.7	37-134				
1,2-Dichlorobenzene	41		"	50.0	ND	83.0	12-121				
1,2-Dichloroethane	47		"	50.0	ND	93.2	53-133				
1,2-Dichloropropane	46		"	50.0	ND	92.3	58-126				
1,3,5-Trimethylbenzene	44		"	50.0	ND	87.1	10-155				
1,3-Dichlorobenzene	41		"	50.0	ND	81.2	12-116				
1,3-Dichloropropane	45		"	50.0	ND	90.6	50-127				
1,4-Dichlorobenzene	40		"	50.0	ND	79.8	9-118				
1,4-Dioxane	1.6		"	50.0	ND	3.14	10-249	Low Bias			
2,2-Dichloropropane	44		"	50.0	ND	88.7	47-119				
2-Butanone	47		"	50.0	ND	94.0	13-140				
2-Chlorotoluene	43		"	50.0	ND	85.2	24-115				
4-Chlorotoluene	42		"	50.0	ND	84.0	22-115				
Acetone	43		"	50.0	1.2	83.1	10-130				
Benzene	49		"	50.0	ND	98.6	52-127				
Bromobenzene	43		"	50.0	ND	85.2	27-119				
Bromochloromethane	50		"	50.0	ND	99.7	52-129				
Bromodichloromethane	47		"	50.0	ND	94.5	50-132				
Bromoform	49		"	50.0	ND	97.4	31-138				
Bromomethane	41		"	50.0	ND	81.1	20-141				

Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BE31070 - EPA 5035A											
Matrix Spike (BE31070-MS1)	*Source sample: 13E0744-01 (MW-5 (0-2))							Prepared & Analyzed: 05/23/2013			
Carbon tetrachloride	46		ug/L	50.0	ND	91.1	52-131				
Chlorobenzene	43		"	50.0	ND	85.3	36-125				
Chloroethane	51		"	50.0	ND	102	35-143				
Chloroform	48		"	50.0	ND	95.5	62-127				
Chloromethane	41		"	50.0	ND	83.0	36-128				
cis-1,2-Dichloroethylene	48		"	50.0	ND	96.3	51-128				
cis-1,3-Dichloropropylene	47		"	50.0	ND	93.8	27-126				
Dibromochloromethane	48		"	50.0	ND	96.5	42-137				
Dibromomethane	50		"	50.0	ND	99.4	47-136				
Dichlorodifluoromethane	28		"	50.0	ND	56.0	10-143				
Ethyl Benzene	45		"	50.0	ND	90.8	32-131				
Hexachlorobutadiene	31		"	50.0	ND	62.6	10-109				
Isopropylbenzene	45		"	50.0	ND	90.5	21-143				
Methyl tert-butyl ether (MTBE)	52		"	50.0	ND	104	55-144				
Methylene chloride	54		"	50.0	2.7	102	17-147				
Naphthalene	47		"	50.0	ND	94.0	10-142				
n-Butylbenzene	39		"	50.0	ND	78.3	10-116				
n-Propylbenzene	45		"	50.0	ND	89.4	70-130				
o-Xylene	43		"	50.0	ND	85.5	70-130				
p- & m- Xylenes	91		"	100	ND	91.5	70-130				
p-Isopropyltoluene	42		"	50.0	ND	84.3	70-130				
sec-Butylbenzene	45		"	50.0	ND	89.2	12-129				
Styrene	43		"	50.0	ND	85.2	13-130				
tert-Butylbenzene	42		"	50.0	ND	83.6	20-149				
Tetrachloroethylene	57		"	50.0	ND	115	26-179				
Toluene	46		"	50.0	ND	91.2	30-138				
trans-1,2-Dichloroethylene	50		"	50.0	ND	101	46-132				
trans-1,3-Dichloropropylene	44		"	50.0	ND	88.2	20-132				
Trichloroethylene	45		"	50.0	ND	90.6	31-152				
Trichlorofluoromethane	46		"	50.0	ND	92.3	50-129				
Vinyl Chloride	42		"	50.0	ND	83.9	41-124				
Vinyl acetate	22		"	50.0	ND	44.0	10-62				
Surrogate: 1,2-Dichloroethane-d4	*52.0*		*"*	*50.0*		*104*	*73-130*				
Surrogate: p-Bromofluorobenzene	*51.4*		*"*	*50.0*		*103*	*72-127*				
Surrogate: Toluene-d8	*49.4*		*"*	*50.0*		*98.7*	*84-117*				

Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BE31101 - EPA 5030B											
Blank (BE31101-BLK1)											
Prepared: 05/23/2013 Analyzed: 05/24/2013											
1,1,1,2-Tetrachloroethane	ND	5.0	ug/L								
1,1,1-Trichloroethane	ND	5.0	"								
1,1,2,2-Tetrachloroethane	ND	5.0	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	5.0	"								
1,1,2-Trichloroethane	ND	5.0	"								
1,1-Dichloroethane	ND	5.0	"								
1,1-Dichloroethylene	ND	5.0	"								
1,1-Dichloropropylene	ND	5.0	"								
1,2,3-Trichlorobenzene	ND	5.0	"								
1,2,3-Trichloropropane	ND	5.0	"								
1,2,4-Trichlorobenzene	ND	5.0	"								
1,2,4-Trimethylbenzene	ND	5.0	"								
1,2-Dibromo-3-chloropropane	ND	5.0	"								
1,2-Dibromoethane	ND	5.0	"								
1,2-Dichlorobenzene	ND	5.0	"								
1,2-Dichloroethane	ND	5.0	"								
1,2-Dichloropropane	ND	5.0	"								
1,3,5-Trimethylbenzene	ND	5.0	"								
1,3-Dichlorobenzene	ND	5.0	"								
1,3-Dichloropropane	ND	5.0	"								
1,4-Dichlorobenzene	ND	5.0	"								
2,2-Dichloropropane	ND	5.0	"								
2-Butanone	ND	5.0	"								
2-Chlorotoluene	ND	5.0	"								
4-Chlorotoluene	ND	5.0	"								
Acetone	ND	5.0	"								
Benzene	ND	5.0	"								
Bromobenzene	ND	5.0	"								
Bromochloromethane	ND	5.0	"								
Bromodichloromethane	ND	5.0	"								
Bromoform	ND	5.0	"								
Bromomethane	ND	5.0	"								
Carbon tetrachloride	ND	5.0	"								
Chlorobenzene	ND	5.0	"								
Chloroethane	ND	5.0	"								
Chloroform	ND	5.0	"								
Chloromethane	ND	5.0	"								
cis-1,2-Dichloroethylene	ND	5.0	"								
cis-1,3-Dichloropropylene	ND	5.0	"								
Dibromochloromethane	ND	5.0	"								
Dibromomethane	ND	5.0	"								
Dichlorodifluoromethane	ND	5.0	"								
Ethyl Benzene	ND	5.0	"								
Hexachlorobutadiene	ND	5.0	"								
Isopropylbenzene	ND	5.0	"								
Methyl tert-butyl ether (MTBE)	ND	5.0	"								
Methylene chloride	ND	5.0	"								
Naphthalene	ND	5.0	"								
n-Butylbenzene	ND	5.0	"								
n-Propylbenzene	ND	5.0	"								
o-Xylene	ND	5.0	"								

Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BE31101 - EPA 5030B											
Blank (BE31101-BLK1)											Prepared: 05/23/2013 Analyzed: 05/24/2013
p- & m- Xylenes	ND	10	ug/L								
p-Isopropyltoluene	ND	5.0	"								
sec-Butylbenzene	ND	5.0	"								
Styrene	ND	5.0	"								
tert-Butylbenzene	ND	5.0	"								
Tetrachloroethylene	ND	5.0	"								
Toluene	ND	5.0	"								
trans-1,2-Dichloroethylene	ND	5.0	"								
trans-1,3-Dichloropropylene	ND	5.0	"								
Trichloroethylene	ND	5.0	"								
Trichlorofluoromethane	ND	5.0	"								
Vinyl Chloride	ND	5.0	"								
Xylenes, Total	ND	15	"								
Vinyl acetate	ND	5.0	"								
Surrogate: 1,2-Dichloroethane-d4	*9.81*		*"*	*10.0*		*98.1*	*72.6-129*				
Surrogate: p-Bromofluorobenzene	*11.2*		*"*	*10.0*		*112*	*63.5-145*				
Surrogate: Toluene-d8	*10.0*		*"*	*10.0*		*100*	*81.2-127*				
LCS (BE31101-BS1)											Prepared: 05/23/2013 Analyzed: 05/24/2013
1,1,1,2-Tetrachloroethane	10		ug/L	10.0		102	82.3-130				
1,1,1-Trichloroethane	10		"	10.0		99.8	75.6-137				
1,1,2,2-Tetrachloroethane	11		"	10.0		106	71.3-131				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	12		"	10.0		118	71.1-129				
1,1,2-Trichloroethane	10		"	10.0		101	74.5-129				
1,1-Dichloroethane	9.7		"	10.0		97.0	79.6-132				
1,1-Dichloroethylene	12		"	10.0		115	80.2-146				
1,1-Dichloropropylene	9.6		"	10.0		95.9	75-136				
1,2,3-Trichlorobenzene	11		"	10.0		115	66.1-136				
1,2,3-Trichloropropane	10		"	10.0		103	63-131				
1,2,4-Trichlorobenzene	11		"	10.0		114	70.6-136				
1,2,4-Trimethylbenzene	9.9		"	10.0		99.0	75.3-135				
1,2-Dibromo-3-chloropropane	9.8		"	10.0		97.5	58.9-140				
1,2-Dibromoethane	10		"	10.0		103	79-130				
1,2-Dichlorobenzene	9.9		"	10.0		99.0	76.1-122				
1,2-Dichloroethane	9.7		"	10.0		96.8	74.6-132				
1,2-Dichloropropane	9.8		"	10.0		97.5	76.9-129				
1,3,5-Trimethylbenzene	9.7		"	10.0		96.9	70.6-127				
1,3-Dichlorobenzene	9.8		"	10.0		98.1	77-124				
1,3-Dichloropropane	9.7		"	10.0		97.2	75.8-126				
1,4-Dichlorobenzene	9.8		"	10.0		97.5	76.6-125				
2,2-Dichloropropane	8.0		"	10.0		79.7	69-133				
2-Butanone	11		"	10.0		110	70-130				
2-Chlorotoluene	9.3		"	10.0		92.7	66.3-119				
4-Chlorotoluene	9.6		"	10.0		95.9	69.2-127				
Acetone	12		"	10.0		120	70-130				
Benzene	10		"	10.0		104	76.2-129				
Bromobenzene	9.6		"	10.0		95.9	71.3-123				
Bromochloromethane	10		"	10.0		99.8	70.8-137				
Bromodichloromethane	10		"	10.0		101	79.7-134				
Bromoform	11		"	10.0		105	70.5-141				
Bromomethane	9.9		"	10.0		99.0	43.9-147				
Carbon tetrachloride	10		"	10.0		101	78.1-138				

Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BE31101 - EPA 5030B											
LCS (BE31101-BS1)								Prepared: 05/23/2013 Analyzed: 05/24/2013			
Chlorobenzene	9.6		ug/L	10.0		96.5	80.4-125				
Chloroethane	11		"	10.0		111	55.8-140				
Chloroform	9.7		"	10.0		97.3	76.6-133				
Chloromethane	9.0		"	10.0		89.7	48.8-115				
cis-1,2-Dichloroethylene	10		"	10.0		103	75.1-128				
cis-1,3-Dichloropropylene	9.9		"	10.0		99.4	74.5-128				
Dibromochloromethane	10		"	10.0		104	79.8-134				
Dibromomethane	9.7		"	10.0		97.1	79-130				
Dichlorodifluoromethane	6.8		"	10.0		67.7	47.1-101				
Ethyl Benzene	9.9		"	10.0		99.2	80.8-128				
Hexachlorobutadiene	8.4		"	10.0		83.7	64.8-128				
Isopropylbenzene	9.9		"	10.0		99.1	75.5-135				
Methyl tert-butyl ether (MTBE)	11		"	10.0		109	65.1-140				
Methylene chloride	11		"	10.0		109	61.3-120				
Naphthalene	13		"	10.0		130	62.3-148				
n-Butylbenzene	10		"	10.0		102	67.2-123				
n-Propylbenzene	10		"	10.0		99.6	70.5-127				
o-Xylene	9.5		"	10.0		95.0	75.9-122				
p- & m- Xylenes	20		"	20.0		102	77.7-127				
p-Isopropyltoluene	10		"	10.0		100	75.6-129				
sec-Butylbenzene	10		"	10.0		102	71.5-125				
Styrene	11		"	10.0		108	77.8-123				
tert-Butylbenzene	9.7		"	10.0		97.3	75.9-151				
Tetrachloroethylene	9.3		"	10.0		92.6	63.6-167				
Toluene	9.8		"	10.0		98.1	77-123				
trans-1,2-Dichloroethylene	11		"	10.0		108	76.3-139				
trans-1,3-Dichloropropylene	9.6		"	10.0		95.9	72.5-137				
Trichloroethylene	10		"	10.0		101	77.9-130				
Trichlorofluoromethane	11		"	10.0		112	57.4-133				
Vinyl Chloride	9.8		"	10.0		98.1	54.9-124				
Vinyl acetate	6.3		"	10.0		63.1	70-130	Low Bias			
Surrogate: 1,2-Dichloroethane-d4	*9.80*		*"*	*10.0*		*98.0*	*72.6-129*				
Surrogate: p-Bromofluorobenzene	*9.89*		*"*	*10.0*		*98.9*	*63.5-145*				
Surrogate: Toluene-d8	*10.0*		*"*	*10.0*		*100*	*81.2-127*				



Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BE31101 - EPA 5030B											
LCS Dup (BE31101-BSD1)								Prepared: 05/23/2013 Analyzed: 05/24/2013			
1,1,1,2-Tetrachloroethane	9.7		ug/L	10.0		96.6	82.3-130		5.34	21.1	
1,1,1-Trichloroethane	9.6		"	10.0		96.2	75.6-137		3.67	19.7	
1,1,2,2-Tetrachloroethane	10		"	10.0		99.9	71.3-131		5.83	20.8	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11		"	10.0		113	71.1-129		4.23	21.7	
1,1,2-Trichloroethane	9.6		"	10.0		96.5	74.5-129		4.95	20.3	
1,1-Dichloroethane	9.3		"	10.0		92.6	79.6-132		4.64	20.6	
1,1-Dichloroethylene	11		"	10.0		108	80.2-146		6.65	20	
1,1-Dichloropropylene	9.0		"	10.0		89.9	75-136		6.46	19.3	
1,2,3-Trichlorobenzene	11		"	10.0		113	66.1-136		1.32	21.6	
1,2,3-Trichloropropane	9.7		"	10.0		96.6	63-131		6.02	23.9	
1,2,4-Trichlorobenzene	10		"	10.0		105	70.6-136		8.49	21.7	
1,2,4-Trimethylbenzene	8.8		"	10.0		88.5	75.3-135		11.2	18.8	
1,2-Dibromo-3-chloropropane	9.1		"	10.0		90.7	58.9-140		7.23	27.7	
1,2-Dibromoethane	9.9		"	10.0		99.2	79-130		4.05	23	
1,2-Dichlorobenzene	9.0		"	10.0		90.1	76.1-122		9.41	19.8	
1,2-Dichloroethane	9.2		"	10.0		91.6	74.6-132		5.52	20.2	
1,2-Dichloropropane	9.2		"	10.0		91.9	76.9-129		5.91	20.7	
1,3,5-Trimethylbenzene	8.9		"	10.0		88.7	70.6-127		8.84	18.9	
1,3-Dichlorobenzene	9.2		"	10.0		91.8	77-124		6.64	19.2	
1,3-Dichloropropane	9.0		"	10.0		90.4	75.8-126		7.25	22.1	
1,4-Dichlorobenzene	9.1		"	10.0		91.4	76.6-125		6.46	18.6	
2,2-Dichloropropane	7.4		"	10.0		74.4	69-133		6.88	19.8	
2-Butanone	10		"	10.0		104	70-130		4.86	30	
2-Chlorotoluene	8.6		"	10.0		86.2	66.3-119		7.27	21.6	
4-Chlorotoluene	9.0		"	10.0		90.3	69.2-127		6.02	19	
Acetone	10		"	10.0		102	70-130		16.1	30	
Benzene	9.8		"	10.0		98.5	76.2-129		5.62	19	
Bromobenzene	8.9		"	10.0		88.6	71.3-123		7.91	20.3	
Bromochloromethane	9.3		"	10.0		93.4	70.8-137		6.63	23.9	
Bromodichloromethane	9.7		"	10.0		97.1	79.7-134		4.23	21	
Bromoform	9.8		"	10.0		97.9	70.5-141		7.38	21.8	
Bromomethane	9.7		"	10.0		96.9	43.9-147		2.14	28.4	
Carbon tetrachloride	9.5		"	10.0		95.1	78.1-138		5.82	20.1	
Chlorobenzene	9.2		"	10.0		91.6	80.4-125		5.21	19.9	
Chloroethane	10		"	10.0		104	55.8-140		6.32	23.3	
Chloroform	9.3		"	10.0		93.2	76.6-133		4.30	20.3	
Chloromethane	8.9		"	10.0		88.9	48.8-115		0.896	24.5	
cis-1,2-Dichloroethylene	9.8		"	10.0		97.9	75.1-128		4.69	20.5	
cis-1,3-Dichloropropylene	9.6		"	10.0		96.2	74.5-128		3.27	19.9	
Dibromochloromethane	9.9		"	10.0		98.9	79.8-134		5.12	21.3	
Dibromomethane	9.2		"	10.0		91.6	79-130		5.83	22.4	
Dichlorodifluoromethane	6.4		"	10.0		63.5	47.1-101		6.40	23.9	
Ethyl Benzene	9.4		"	10.0		94.4	80.8-128		4.96	19.2	
Hexachlorobutadiene	8.4		"	10.0		83.9	64.8-128		0.239	20.6	
Isopropylbenzene	9.1		"	10.0		91.1	75.5-135		8.41	20	
Methyl tert-butyl ether (MTBE)	8.3		"	10.0		83.4	65.1-140		26.2	23.6	Non-dir.
Methylene chloride	11		"	10.0		105	61.3-120		3.92	20.4	
Naphthalene	12		"	10.0		125	62.3-148		4.00	27.1	
n-Butylbenzene	9.3		"	10.0		93.3	67.2-123		8.71	19.1	
n-Propylbenzene	9.2		"	10.0		91.9	70.5-127		8.04	23.4	
o-Xylene	8.9		"	10.0		88.7	75.9-122		6.86	19.3	

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BE31101 - EPA 5030B											
LCS Dup (BE31101-BSD1)								Prepared: 05/23/2013 Analyzed: 05/24/2013			
p- & m- Xylenes	19		ug/L	20.0		95.8	77.7-127		6.76	18.6	
p-Isopropyltoluene	9.2		"	10.0		92.0	75.6-129		8.53	19.1	
sec-Butylbenzene	9.4		"	10.0		94.2	71.5-125		7.95	18.9	
Styrene	9.6		"	10.0		95.8	77.8-123		11.8	20.9	
tert-Butylbenzene	9.2		"	10.0		92.1	75.9-151		5.49	20.9	
Tetrachloroethylene	8.8		"	10.0		87.6	63.6-167		5.55	27.7	
Toluene	9.2		"	10.0		91.8	77-123		6.64	18.7	
trans-1,2-Dichloroethylene	8.2		"	10.0		81.5	76.3-139		27.8	19.5	Non-dir.
trans-1,3-Dichloropropylene	9.2		"	10.0		92.2	72.5-137		3.93	19.3	
Trichloroethylene	9.5		"	10.0		94.8	77.9-130		6.43	20.5	
Trichlorofluoromethane	10		"	10.0		103	57.4-133		8.01	21.4	
Vinyl Chloride	9.2		"	10.0		91.5	54.9-124		6.96	22.3	
Vinyl acetate	6.3		"	10.0		62.9	70-130	Low Bias	0.317	30	
Surrogate: 1,2-Dichloroethane-d4	*9.78*		*"*	*10.0*		*97.8*	*72.6-129*				
Surrogate: p-Bromofluorobenzene	*9.93*		*"*	*10.0*		*99.3*	*63.5-145*				
Surrogate: Toluene-d8	*9.92*		*"*	*10.0*		*99.2*	*81.2-127*				
Batch BE31233 - EPA 5035A											
Blank (BE31233-BLK1)								Prepared: 05/28/2013 Analyzed: 05/29/2013			
1,1,1,2-Tetrachloroethane	ND	0.0050	mg/kg wet								
1,1,1-Trichloroethane	ND	0.0050	"								
1,1,2,2-Tetrachloroethane	ND	0.0050	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0050	"								
1,1,2-Trichloroethane	ND	0.0050	"								
1,1-Dichloroethane	ND	0.0050	"								
1,1-Dichloroethylene	ND	0.0050	"								
1,1-Dichloropropylene	ND	0.0050	"								
1,2,3-Trichlorobenzene	ND	0.0050	"								
1,2,3-Trichloropropane	ND	0.0050	"								
1,2,4-Trichlorobenzene	ND	0.0050	"								
1,2,4-Trimethylbenzene	ND	0.0050	"								
1,2-Dibromo-3-chloropropane	ND	0.0050	"								
1,2-Dibromoethane	ND	0.0050	"								
1,2-Dichlorobenzene	ND	0.0050	"								
1,2-Dichloroethane	ND	0.0050	"								
1,2-Dichloropropane	ND	0.0050	"								
1,3,5-Trimethylbenzene	ND	0.0050	"								
1,3-Dichlorobenzene	ND	0.0050	"								
1,3-Dichloropropane	ND	0.0050	"								
1,4-Dichlorobenzene	ND	0.0050	"								
1,4-Dioxane	ND	0.10	"								
2,2-Dichloropropane	ND	0.0050	"								
2-Butanone	ND	0.0050	"								
2-Chlorotoluene	ND	0.0050	"								
4-Chlorotoluene	ND	0.0050	"								
Acetone	ND	0.010	"								
Benzene	ND	0.0050	"								
Bromobenzene	ND	0.0050	"								
Bromochloromethane	ND	0.0050	"								
Bromodichloromethane	ND	0.0050	"								
Bromoform	ND	0.0050	"								

Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BE31233 - EPA 5035A											
Blank (BE31233-BLK1)									Prepared: 05/28/2013 Analyzed: 05/29/2013		
Bromomethane	ND	0.0050	mg/kg wet								
Carbon tetrachloride	ND	0.0050	"								
Chlorobenzene	ND	0.0050	"								
Chloroethane	ND	0.0050	"								
Chloroform	ND	0.0050	"								
Chloromethane	ND	0.0050	"								
cis-1,2-Dichloroethylene	ND	0.0050	"								
cis-1,3-Dichloropropylene	ND	0.0050	"								
Dibromochloromethane	ND	0.0050	"								
Dibromomethane	ND	0.0050	"								
Dichlorodifluoromethane	ND	0.0050	"								
Ethyl Benzene	ND	0.0050	"								
Hexachlorobutadiene	ND	0.0050	"								
Isopropylbenzene	ND	0.0050	"								
Methyl tert-butyl ether (MTBE)	ND	0.0050	"								
Methylene chloride	0.0031	0.010	"								
Naphthalene	ND	0.010	"								
n-Butylbenzene	ND	0.0050	"								
n-Propylbenzene	ND	0.0050	"								
o-Xylene	ND	0.0050	"								
p- & m- Xylenes	ND	0.010	"								
p-Isopropyltoluene	ND	0.0050	"								
sec-Butylbenzene	ND	0.0050	"								
Styrene	ND	0.0050	"								
tert-Butylbenzene	ND	0.0050	"								
Tetrachloroethylene	ND	0.0050	"								
Toluene	ND	0.0050	"								
trans-1,2-Dichloroethylene	ND	0.0050	"								
trans-1,3-Dichloropropylene	ND	0.0050	"								
Trichloroethylene	ND	0.0050	"								
Trichlorofluoromethane	ND	0.0050	"								
Vinyl Chloride	ND	0.0050	"								
Xylenes, Total	ND	0.015	"								
Vinyl acetate	ND	0.0050	"								
Surrogate: 1,2-Dichloroethane-d4	*50.6*		*ug/L*	*50.0*		*101*	*73-130*				
Surrogate: p-Bromofluorobenzene	*56.4*		*"*	*50.0*		*113*	*72-127*				
Surrogate: Toluene-d8	*51.0*		*"*	*50.0*		*102*	*84-117*				



Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BE31233 - EPA 5035A											
LCS (BE31233-BS1)								Prepared & Analyzed: 05/28/2013			
1,1,1,2-Tetrachloroethane	50		ug/L	50.0		99.6	72-132				
1,1,1-Trichloroethane	50		"	50.0		99.1	77-131				
1,1,2,2-Tetrachloroethane	54		"	50.0		107	68-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	54		"	50.0		108	75-143				
1,1,2-Trichloroethane	51		"	50.0		103	72-128				
1,1-Dichloroethane	45		"	50.0		90.9	78-133				
1,1-Dichloroethylene	55		"	50.0		109	71-142				
1,1-Dichloropropylene	46		"	50.0		91.7	77-124				
1,2,3-Trichlorobenzene	55		"	50.0		110	65-134				
1,2,3-Trichloropropane	58		"	50.0		115	65-127				
1,2,4-Trichlorobenzene	53		"	50.0		107	59-133				
1,2,4-Trimethylbenzene	51		"	50.0		102	68-128				
1,2-Dibromo-3-chloropropane	53		"	50.0		106	58-145				
1,2-Dibromoethane	53		"	50.0		105	73-128				
1,2-Dichlorobenzene	50		"	50.0		99.4	69-126				
1,2-Dichloroethane	47		"	50.0		94.9	78-131				
1,2-Dichloropropane	51		"	50.0		101	72-129				
1,3,5-Trimethylbenzene	51		"	50.0		102	67-125				
1,3-Dichlorobenzene	51		"	50.0		101	67-125				
1,3-Dichloropropane	50		"	50.0		100	73-126				
1,4-Dichlorobenzene	50		"	50.0		99.6	67-127				
1,4-Dioxane	4.9		"	50.0		9.78	10-265	Low Bias			
2,2-Dichloropropane	47		"	50.0		93.9	68-133				
2-Butanone	49		"	50.0		97.8	49-138				
2-Chlorotoluene	50		"	50.0		101	61-121				
4-Chlorotoluene	51		"	50.0		101	65-126				
Acetone	40		"	50.0		80.8	21-131				
Benzene	51		"	50.0		102	81-125				
Bromobenzene	50		"	50.0		99.1	65-125				
Bromochloromethane	51		"	50.0		102	78-127				
Bromodichloromethane	53		"	50.0		107	73-131				
Bromoform	57		"	50.0		113	66-137				
Bromomethane	38		"	50.0		76.2	55-144				
Carbon tetrachloride	49		"	50.0		98.2	74-137				
Chlorobenzene	49		"	50.0		98.3	75-127				
Chloroethane	49		"	50.0		98.2	65-138				
Chloroform	50		"	50.0		99.0	82-128				
Chloromethane	42		"	50.0		84.0	51-138				
cis-1,2-Dichloroethylene	50		"	50.0		100	77-130				
cis-1,3-Dichloropropylene	53		"	50.0		106	68-123				
Dibromochloromethane	54		"	50.0		109	73-136				
Dibromomethane	54		"	50.0		108	75-131				
Dichlorodifluoromethane	28		"	50.0		55.1	10-183				
Ethyl Benzene	52		"	50.0		104	75-130				
Hexachlorobutadiene	46		"	50.0		92.0	59-130				
Isopropylbenzene	52		"	50.0		105	68-135				
Methyl tert-butyl ether (MTBE)	45		"	50.0		89.9	76-136				
Methylene chloride	56		"	50.0		112	55-143				
Naphthalene	65		"	50.0		130	65-140				
n-Butylbenzene	52		"	50.0		104	63-123				
n-Propylbenzene	53		"	50.0		106	65-127				

Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BE31233 - EPA 5035A											
LCS (BE31233-BS1)								Prepared & Analyzed: 05/28/2013			
o-Xylene	49		ug/L	50.0		98.0	71-123				
p- & m- Xylenes	110		"	100		105	72-127				
p-Isopropyltoluene	51		"	50.0		103	69-128				
sec-Butylbenzene	54		"	50.0		108	69-125				
Styrene	51		"	50.0		102	74-127				
tert-Butylbenzene	52		"	50.0		103	59-164				
Tetrachloroethylene	49		"	50.0		98.8	65-151				
Toluene	51		"	50.0		103	72-127				
trans-1,2-Dichloroethylene	41		"	50.0		82.7	73-137				
trans-1,3-Dichloropropylene	51		"	50.0		102	67-131				
Trichloroethylene	51		"	50.0		101	73-129				
Trichlorofluoromethane	50		"	50.0		100	69-136				
Vinyl Chloride	44		"	50.0		87.3	58-132				
Vinyl acetate	44		"	50.0		87.5	10-84	High Bias			
Surrogate: 1,2-Dichloroethane-d4	*49.5*		*"*	*50.0*		*99.0*	*73-130*				
Surrogate: p-Bromofluorobenzene	*49.7*		*"*	*50.0*		*99.4*	*72-127*				
Surrogate: Toluene-d8	*51.1*		*"*	*50.0*		*102*	*84-117*				
LCS Dup (BE31233-BSD1)								Prepared: 05/28/2013 Analyzed: 05/29/2013			
1,1,1,2-Tetrachloroethane	51		ug/L	50.0		102	72-132		2.24	30	
1,1,1-Trichloroethane	51		"	50.0		103	77-131		3.53	30	
1,1,2,2-Tetrachloroethane	53		"	50.0		107	68-129		0.486	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	54		"	50.0		108	75-143		0.148	30	
1,1,2-Trichloroethane	51		"	50.0		102	72-128		1.09	30	
1,1-Dichloroethane	47		"	50.0		93.0	78-133		2.37	30	
1,1-Dichloroethylene	56		"	50.0		112	71-142		2.78	30	
1,1-Dichloropropylene	48		"	50.0		95.3	77-124		3.85	30	
1,2,3-Trichlorobenzene	56		"	50.0		113	65-134		2.67	30	
1,2,3-Trichloropropane	56		"	50.0		112	65-127		2.64	30	
1,2,4-Trichlorobenzene	55		"	50.0		109	59-133		2.46	30	
1,2,4-Trimethylbenzene	51		"	50.0		103	68-128		0.723	30	
1,2-Dibromo-3-chloropropane	53		"	50.0		107	58-145		0.563	30	
1,2-Dibromoethane	54		"	50.0		108	73-128		2.51	30	
1,2-Dichlorobenzene	50		"	50.0		101	69-126		1.48	30	
1,2-Dichloroethane	49		"	50.0		97.4	78-131		2.60	30	
1,2-Dichloropropane	52		"	50.0		104	72-129		2.69	30	
1,3,5-Trimethylbenzene	51		"	50.0		103	67-125		0.624	30	
1,3-Dichlorobenzene	51		"	50.0		102	67-125		0.473	30	
1,3-Dichloropropane	51		"	50.0		102	73-126		1.72	30	
1,4-Dichlorobenzene	51		"	50.0		101	67-127		1.75	30	
1,4-Dioxane	8.3		"	50.0		16.6	10-265		51.5	30	Non-dir.
2,2-Dichloropropane	49		"	50.0		97.6	68-133		3.84	30	
2-Butanone	49		"	50.0		98.3	49-138		0.510	30	
2-Chlorotoluene	50		"	50.0		100	61-121		0.318	30	
4-Chlorotoluene	51		"	50.0		102	65-126		0.374	30	
Acetone	41		"	50.0		81.3	21-131		0.666	30	
Benzene	52		"	50.0		104	81-125		2.70	30	
Bromobenzene	50		"	50.0		99.4	65-125		0.363	30	
Bromochloromethane	53		"	50.0		106	78-127		2.96	30	
Bromodichloromethane	54		"	50.0		109	73-131		1.85	30	
Bromoform	55		"	50.0		111	66-137		2.16	30	
Bromomethane	38		"	50.0		76.4	55-144		0.262	30	

Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BE31233 - EPA 5035A											
LCS Dup (BE31233-BSD1)									Prepared: 05/28/2013 Analyzed: 05/29/2013		
Carbon tetrachloride	51		ug/L	50.0		103	74-137		4.36	30	
Chlorobenzene	51		"	50.0		102	75-127		3.85	30	
Chloroethane	51		"	50.0		102	65-138		3.42	30	
Chloroform	51		"	50.0		102	82-128		2.79	30	
Chloromethane	43		"	50.0		85.9	51-138		2.14	30	
cis-1,2-Dichloroethylene	52		"	50.0		105	77-130		4.04	30	
cis-1,3-Dichloropropylene	54		"	50.0		109	68-123		2.14	30	
Dibromochloromethane	55		"	50.0		109	73-136		0.441	30	
Dibromomethane	54		"	50.0		109	75-131		0.755	30	
Dichlorodifluoromethane	29		"	50.0		57.1	10-183		3.53	30	
Ethyl Benzene	54		"	50.0		108	75-130		3.30	30	
Hexachlorobutadiene	46		"	50.0		92.7	59-130		0.736	30	
Isopropylbenzene	52		"	50.0		104	68-135		0.287	30	
Methyl tert-butyl ether (MTBE)	58		"	50.0		116	76-136		25.6	30	
Methylene chloride	56		"	50.0		111	55-143		0.448	30	
Naphthalene	66		"	50.0		132	65-140		1.10	30	
n-Butylbenzene	53		"	50.0		106	63-123		1.56	30	
n-Propylbenzene	54		"	50.0		107	65-127		1.14	30	
o-Xylene	50		"	50.0		101	71-123		2.80	30	
p- & m- Xylenes	110		"	100		109	72-127		3.42	30	
p-Isopropyltoluene	52		"	50.0		105	69-128		1.81	30	
sec-Butylbenzene	54		"	50.0		108	69-125		0.00	30	
Styrene	52		"	50.0		104	74-127		2.57	30	
tert-Butylbenzene	51		"	50.0		103	59-164		0.407	30	
Tetrachloroethylene	53		"	50.0		105	65-151		6.46	30	
Toluene	53		"	50.0		106	72-127		2.66	30	
trans-1,2-Dichloroethylene	54		"	50.0		107	73-137		25.8	30	
trans-1,3-Dichloropropylene	52		"	50.0		103	67-131		1.30	30	
Trichloroethylene	52		"	50.0		103	73-129		1.99	30	
Trichlorofluoromethane	50		"	50.0		101	69-136		0.199	30	
Vinyl Chloride	43		"	50.0		86.8	58-132		0.643	30	
Vinyl acetate	46		"	50.0		91.2	10-84	High Bias	4.16	30	
Surrogate: 1,2-Dichloroethane-d4	*49.9*		*"*	*50.0*		*99.8*	*73-130*				
Surrogate: p-Bromofluorobenzene	*49.8*		*"*	*50.0*		*99.7*	*72-127*				
Surrogate: Toluene-d8	*51.4*		*"*	*50.0*		*103*	*84-117*				

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BE31117 - EPA 3550B											
Blank (BE31117-BLK1)											Prepared & Analyzed: 05/24/2013
Acenaphthene	ND	0.167	mg/kg wet								
Acenaphthylene	ND	0.167	"								
Aniline	ND	0.167	"								
Anthracene	ND	0.167	"								
Benzo(a)anthracene	ND	0.167	"								
Benzo(a)pyrene	ND	0.167	"								
Benzo(b)fluoranthene	ND	0.167	"								
Benzo(g,h,i)perylene	ND	0.167	"								
Benzyl alcohol	ND	0.167	"								
Benzo(k)fluoranthene	ND	0.167	"								
Benzyl butyl phthalate	ND	0.167	"								
4-Bromophenyl phenyl ether	ND	0.167	"								
4-Chloro-3-methylphenol	ND	0.167	"								
4-Chloroaniline	ND	0.167	"								
Bis(2-chloroethoxy)methane	ND	0.167	"								
Bis(2-chloroethyl)ether	ND	0.167	"								
Bis(2-chloroisopropyl)ether	ND	0.167	"								
Bis(2-ethylhexyl)phthalate	ND	0.167	"								
2-Chloronaphthalene	ND	0.167	"								
2-Chlorophenol	ND	0.167	"								
4-Chlorophenyl phenyl ether	ND	0.167	"								
Chrysene	ND	0.167	"								
Dibenzo(a,h)anthracene	ND	0.167	"								
Dibenzofuran	ND	0.167	"								
Di-n-butyl phthalate	ND	0.167	"								
1,2-Dichlorobenzene	ND	0.167	"								
1,4-Dichlorobenzene	ND	0.167	"								
1,3-Dichlorobenzene	ND	0.167	"								
3,3'-Dichlorobenzidine	ND	0.167	"								
2,4-Dichlorophenol	ND	0.167	"								
Diethyl phthalate	ND	0.167	"								
2,4-Dimethylphenol	ND	0.167	"								
Dimethyl phthalate	ND	0.167	"								
2-Nitroaniline	ND	0.167	"								
4,6-Dinitro-2-methylphenol	ND	0.333	"								
2,4-Dinitrophenol	ND	0.333	"								
2,6-Dinitrotoluene	ND	0.167	"								
2,4-Dinitrotoluene	ND	0.167	"								
Di-n-octyl phthalate	ND	0.167	"								
Fluoranthene	ND	0.167	"								
Fluorene	ND	0.167	"								
Hexachlorobenzene	ND	0.167	"								
Hexachlorobutadiene	ND	0.167	"								
Hexachlorocyclopentadiene	ND	0.167	"								
Hexachloroethane	ND	0.167	"								
Indeno(1,2,3-cd)pyrene	ND	0.167	"								
Isophorone	ND	0.167	"								
2-Methylnaphthalene	ND	0.167	"								
2-Methylphenol	ND	0.167	"								
3- & 4-Methylphenols	ND	0.167	"								
Naphthalene	ND	0.167	"								

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BE31117 - EPA 3550B											
Blank (BE31117-BLK1)								Prepared & Analyzed: 05/24/2013			
3-Nitroaniline	ND	0.167	mg/kg wet								
4-Nitroaniline	ND	0.167	"								
Nitrobenzene	ND	0.167	"								
4-Nitrophenol	ND	0.167	"								
2-Nitrophenol	ND	0.167	"								
N-nitroso-di-n-propylamine	ND	0.167	"								
N-Nitrosodimethylamine	ND	0.167	"								
N-Nitrosodiphenylamine	ND	0.167	"								
Pentachlorophenol	ND	0.167	"								
Phenanthrene	ND	0.167	"								
Phenol	ND	0.167	"								
Pyrene	ND	0.167	"								
Pyridine	ND	0.167	"								
1,2,4-Trichlorobenzene	ND	0.167	"								
2,4,5-Trichlorophenol	ND	0.167	"								
2,4,6-Trichlorophenol	ND	0.167	"								
Surrogate: 2,4,6-Tribromophenol	*2.60*		*"*	*2.50*		*104*	*15-110*				
Surrogate: 2-Fluorobiphenyl	*1.16*		*"*	*1.67*		*69.7*	*30-130*				
Surrogate: 2-Fluorophenol	*1.58*		*"*	*2.50*		*63.3*	*15-110*				
Surrogate: Nitrobenzene-d5	*1.12*		*"*	*1.67*		*67.0*	*30-130*				
Surrogate: Phenol-d5	*1.60*		*"*	*2.50*		*63.9*	*15-110*				
Surrogate: Terphenyl-d14	*1.67*		*"*	*1.67*		*100*	*30-130*				
LCS (BE31117-BS1)								Prepared & Analyzed: 05/24/2013			
Acenaphthene	1.23	0.167	mg/kg wet	1.67		74.0	31.1-109				
Acenaphthylene	1.15	0.167	"	1.67		69.3	31.1-106				
Aniline	1.33	0.167	"	1.67		79.9	5.07-149				
Anthracene	1.13	0.167	"	1.67		67.6	31.5-107				
Benzo(a)anthracene	1.38	0.167	"	1.67		82.8	31.5-115				
Benzo(a)pyrene	1.42	0.167	"	1.67		84.9	29.1-138				
Benzo(b)fluoranthene	1.35	0.167	"	1.67		80.8	14.9-131				
Benzo(g,h,i)perylene	1.45	0.167	"	1.67		86.8	6.56-121				
Benzyl alcohol	1.27	0.167	"	1.67		76.5	25.4-119				
Benzo(k)fluoranthene	1.33	0.167	"	1.67		79.8	29.1-121				
Benzyl butyl phthalate	1.41	0.167	"	1.67		84.8	31.3-112				
4-Bromophenyl phenyl ether	1.17	0.167	"	1.67		70.3	25.2-113				
4-Chloro-3-methylphenol	1.23	0.167	"	1.67		73.6	29.5-124				
4-Chloroaniline	1.62	0.167	"	1.67		97.0	10-177				
Bis(2-chloroethoxy)methane	1.24	0.167	"	1.67		74.1	27.9-111				
Bis(2-chloroethyl)ether	1.24	0.167	"	1.67		74.1	18-122				
Bis(2-chloroisopropyl)ether	1.22	0.167	"	1.67		72.9	9.62-123				
Bis(2-ethylhexyl)phthalate	1.32	0.167	"	1.67		79.0	25-105				
2-Chloronaphthalene	1.05	0.167	"	1.67		63.1	31.7-108				
2-Chlorophenol	1.24	0.167	"	1.67		74.7	20.3-125				
4-Chlorophenyl phenyl ether	1.13	0.167	"	1.67		67.8	23.6-110				
Chrysene	1.43	0.167	"	1.67		85.6	27.4-117				
Dibenzo(a,h)anthracene	1.38	0.167	"	1.67		82.6	14.6-119				
Dibenzofuran	1.24	0.167	"	1.67		74.1	30.2-108				
Di-n-butyl phthalate	1.22	0.167	"	1.67		73.1	33.5-100				
1,2-Dichlorobenzene	1.25	0.167	"	1.67		75.0	22.8-114				
1,4-Dichlorobenzene	1.19	0.167	"	1.67		71.5	19.8-121				

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BE31117 - EPA 3550B											
LCS (BE31117-BS1)								Prepared & Analyzed: 05/24/2013			
1,3-Dichlorobenzene	1.26	0.167	mg/kg wet	1.67		75.6	20.6-119				
3,3'-Dichlorobenzidine	1.81	0.167	"	1.67		109	10-180				
2,4-Dichlorophenol	1.17	0.167	"	1.67		70.0	23.3-125				
Diethyl phthalate	1.29	0.167	"	1.67		77.6	29.7-111				
2,4-Dimethylphenol	1.13	0.167	"	1.67		67.9	29.8-115				
Dimethyl phthalate	1.32	0.167	"	1.67		79.5	27-118				
2-Nitroaniline	1.18	0.167	"	1.67		70.6	40-140				
4,6-Dinitro-2-methylphenol	1.51	0.333	"	1.67		90.6	10-122				
2,4-Dinitrophenol	1.97	0.333	"	1.67		118	10-151				
2,6-Dinitrotoluene	1.19	0.167	"	1.67		71.4	26.1-119				
2,4-Dinitrotoluene	1.34	0.167	"	1.67		80.2	21.4-126				
Di-n-octyl phthalate	1.08	0.167	"	1.67		64.5	19-129				
Fluoranthene	1.17	0.167	"	1.67		70.2	31.3-110				
Fluorene	1.15	0.167	"	1.67		69.1	29.9-108				
Hexachlorobenzene	1.15	0.167	"	1.67		68.8	31.7-102				
Hexachlorobutadiene	1.21	0.167	"	1.67		72.6	10.1-134				
Hexachlorocyclopentadiene	1.13	0.167	"	1.67		67.8	10-122				
Hexachloroethane	1.23	0.167	"	1.67		73.8	20.2-114				
Indeno(1,2,3-cd)pyrene	1.46	0.167	"	1.67		87.4	12.6-120				
Isophorone	1.26	0.167	"	1.67		75.7	27.2-113				
2-Methylnaphthalene	1.18	0.167	"	1.67		70.9	17.4-119				
2-Methylphenol	1.64	0.167	"	1.67		98.6	23.6-125				
3- & 4-Methylphenols	1.14	0.167	"	1.67		68.2	21.3-115				
Naphthalene	1.17	0.167	"	1.67		70.2	25.2-111				
3-Nitroaniline	1.46	0.167	"	1.67		87.5	9.73-147				
4-Nitroaniline	1.57	0.167	"	1.67		94.3	6.42-169				
Nitrobenzene	1.15	0.167	"	1.67		68.9	21.8-118				
4-Nitrophenol	1.51	0.167	"	1.67		90.8	10-136				
2-Nitrophenol	1.09	0.167	"	1.67		65.7	20.6-119				
N-nitroso-di-n-propylamine	1.27	0.167	"	1.67		76.3	25.3-118				
N-Nitrosodimethylamine	1.33	0.167	"	1.67		80.0	10-142				
N-Nitrosodiphenylamine	1.29	0.167	"	1.67		77.6	35.8-132				
Pentachlorophenol	1.38	0.167	"	1.67		83.0	3.68-146				
Phenanthrene	1.17	0.167	"	1.67		70.0	31.2-105				
Phenol	1.11	0.167	"	1.67		66.7	23.2-117				
Pyrene	1.29	0.167	"	1.67		77.5	26.3-124				
Pyridine	0.438	0.167	"	1.67		26.3	10-122				
1,2,4-Trichlorobenzene	1.23	0.167	"	1.67		73.6	19.3-128				
2,4,5-Trichlorophenol	1.13	0.167	"	1.67		67.8	19.5-131				
2,4,6-Trichlorophenol	1.19	0.167	"	1.67		71.5	24.2-123				
Surrogate: 2,4,6-Tribromophenol	*1.62*		*"*	*2.50*		*64.9*	*15-110*				
Surrogate: 2-Fluorobiphenyl	*0.951*		*"*	*1.67*		*56.9*	*30-130*				
Surrogate: 2-Fluorophenol	*1.64*		*"*	*2.50*		*65.8*	*15-110*				
Surrogate: Nitrobenzene-d5	*1.12*		*"*	*1.67*		*67.0*	*30-130*				
Surrogate: Phenol-d5	*1.62*		*"*	*2.50*		*64.5*	*15-110*				
Surrogate: Terphenyl-d14	*1.13*		*"*	*1.67*		*68.0*	*30-130*				

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BE31117 - EPA 3550B											
LCS Dup (BE31117-BSD1)							Prepared & Analyzed: 05/24/2013				
Acenaphthene	1.57	0.167	mg/kg wet	1.67		94.1	31.1-109		23.9	30	
Acenaphthylene	1.43	0.167	"	1.67		85.9	31.1-106		21.4	30	
Aniline	1.70	0.167	"	1.67		102	5.07-149		24.2	30	
Anthracene	1.39	0.167	"	1.67		83.5	31.5-107		21.0	30	
Benzo(a)anthracene	1.58	0.167	"	1.67		94.9	31.5-115		13.7	30	
Benzo(a)pyrene	1.67	0.167	"	1.67		100	29.1-138		16.6	30	
Benzo(b)fluoranthene	1.64	0.167	"	1.67		98.2	14.9-131		19.4	30	
Benzo(g,h,i)perylene	1.69	0.167	"	1.67		102	6.56-121		15.8	30	
Benzyl alcohol	1.65	0.167	"	1.67		99.1	25.4-119		25.7	30	
Benzo(k)fluoranthene	1.41	0.167	"	1.67		84.8	29.1-121		6.07	30	
Benzyl butyl phthalate	1.77	0.167	"	1.67		106	31.3-112		22.6	30	
4-Bromophenyl phenyl ether	1.33	0.167	"	1.67		79.8	25.2-113		12.8	30	
4-Chloro-3-methylphenol	1.53	0.167	"	1.67		91.7	29.5-124		21.9	30	
4-Chloroaniline	1.77	0.167	"	1.67		106	10-177		9.15	30	
Bis(2-chloroethoxy)methane	1.47	0.167	"	1.67		88.1	27.9-111		17.3	30	
Bis(2-chloroethyl)ether	1.48	0.167	"	1.67		88.6	18-122		17.8	30	
Bis(2-chloroisopropyl)ether	1.48	0.167	"	1.67		88.8	9.62-123		19.7	30	
Bis(2-ethylhexyl)phthalate	1.49	0.167	"	1.67		89.4	25-105		12.3	30	
2-Chloronaphthalene	1.46	0.167	"	1.67		87.3	31.7-108		32.3	30	Non-dir.
2-Chlorophenol	1.60	0.167	"	1.67		95.9	20.3-125		24.9	30	
4-Chlorophenyl phenyl ether	1.40	0.167	"	1.67		84.1	23.6-110		21.4	30	
Chrysene	1.68	0.167	"	1.67		101	27.4-117		16.1	30	
Dibenzo(a,h)anthracene	1.62	0.167	"	1.67		96.9	14.6-119		16.0	30	
Dibenzofuran	1.53	0.167	"	1.67		91.8	30.2-108		21.3	30	
Di-n-butyl phthalate	1.40	0.167	"	1.67		83.7	33.5-100		13.5	30	
1,2-Dichlorobenzene	1.60	0.167	"	1.67		96.0	22.8-114		24.7	30	
1,4-Dichlorobenzene	1.56	0.167	"	1.67		93.8	19.8-121		26.9	30	
1,3-Dichlorobenzene	1.57	0.167	"	1.67		94.1	20.6-119		21.8	30	
3,3'-Dichlorobenzidine	1.94	0.167	"	1.67		117	10-180		6.90	30	
2,4-Dichlorophenol	1.46	0.167	"	1.67		87.7	23.3-125		22.5	30	
Diethyl phthalate	1.56	0.167	"	1.67		93.6	29.7-111		18.7	30	
2,4-Dimethylphenol	1.44	0.167	"	1.67		86.3	29.8-115		23.8	30	
Dimethyl phthalate	1.73	0.167	"	1.67		104	27-118		26.4	30	
2-Nitroaniline	1.75	0.167	"	1.67		105	40-140		39.1	30	Non-dir.
4,6-Dinitro-2-methylphenol	1.80	0.333	"	1.67		108	10-122		17.6	30	
2,4-Dinitrophenol	2.98	0.333	"	1.67		179	10-151	High Bias	40.8	30	Non-dir.
2,6-Dinitrotoluene	1.47	0.167	"	1.67		88.3	26.1-119		21.1	30	
2,4-Dinitrotoluene	1.72	0.167	"	1.67		103	21.4-126		25.3	30	
Di-n-octyl phthalate	1.26	0.167	"	1.67		75.4	19-129		15.5	30	
Fluoranthene	1.38	0.167	"	1.67		83.1	31.3-110		16.8	30	
Fluorene	1.40	0.167	"	1.67		84.1	29.9-108		19.6	30	
Hexachlorobenzene	1.38	0.167	"	1.67		82.6	31.7-102		18.3	30	
Hexachlorobutadiene	1.46	0.167	"	1.67		87.4	10.1-134		18.6	30	
Hexachlorocyclopentadiene	1.46	0.167	"	1.67		87.6	10-122		25.4	30	
Hexachloroethane	1.54	0.167	"	1.67		92.2	20.2-114		22.2	30	
Indeno(1,2,3-cd)pyrene	1.70	0.167	"	1.67		102	12.6-120		15.5	30	
Isophorone	1.63	0.167	"	1.67		97.6	27.2-113		25.3	30	
2-Methylnaphthalene	1.43	0.167	"	1.67		85.6	17.4-119		18.9	30	
2-Methylphenol	2.03	0.167	"	1.67		122	23.6-125		21.2	30	
3- & 4-Methylphenols	1.45	0.167	"	1.67		87.1	21.3-115		24.4	30	
Naphthalene	1.38	0.167	"	1.67		82.5	25.2-111		16.1	30	

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BE31117 - EPA 3550B											
LCS Dup (BE31117-BSD1)								Prepared & Analyzed: 05/24/2013			
3-Nitroaniline	1.97	0.167	mg/kg wet	1.67		118	9.73-147		30.0	30	
4-Nitroaniline	2.54	0.167	"	1.67		152	6.42-169		47.2	30	Non-dir.
Nitrobenzene	1.46	0.167	"	1.67		87.4	21.8-118		23.7	30	
4-Nitrophenol	2.19	0.167	"	1.67		132	10-136		36.7	30	Non-dir.
2-Nitrophenol	1.45	0.167	"	1.67		87.2	20.6-119		28.1	30	
N-nitroso-di-n-propylamine	1.81	0.167	"	1.67		109	25.3-118		34.9	30	Non-dir.
N-Nitrosodimethylamine	1.74	0.167	"	1.67		104	10-142		26.3	30	
N-Nitrosodiphenylamine	1.49	0.167	"	1.67		89.4	35.8-132		14.2	30	
Pentachlorophenol	1.78	0.167	"	1.67		107	3.68-146		25.1	30	
Phenanthrene	1.34	0.167	"	1.67		80.4	31.2-105		13.9	30	
Phenol	1.31	0.167	"	1.67		78.8	23.2-117		16.7	30	
Pyrene	1.61	0.167	"	1.67		96.9	26.3-124		22.2	30	
Pyridine	0.664	0.167	"	1.67		39.9	10-122		41.1	30	Non-dir.
1,2,4-Trichlorobenzene	1.41	0.167	"	1.67		84.4	19.3-128		13.6	30	
2,4,5-Trichlorophenol	1.59	0.167	"	1.67		95.4	19.5-131		33.8	30	Non-dir.
2,4,6-Trichlorophenol	1.61	0.167	"	1.67		96.3	24.2-123		29.7	30	
Surrogate: 2,4,6-Tribromophenol	*1.97*		*"*	*2.50*		*78.7*	*15-110*				
Surrogate: 2-Fluorobiphenyl	*1.24*		*"*	*1.67*		*74.5*	*30-130*				
Surrogate: 2-Fluorophenol	*2.19*		*"*	*2.50*		*87.5*	*15-110*				
Surrogate: Nitrobenzene-d5	*1.37*		*"*	*1.67*		*82.3*	*30-130*				
Surrogate: Phenol-d5	*2.04*		*"*	*2.50*		*81.6*	*15-110*				
Surrogate: Terphenyl-d14	*1.40*		*"*	*1.67*		*84.1*	*30-130*				

Organochlorine Pesticides by EPA SW 846-8081 - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BE31116 - EPA 3550B											
Blank (BE31116-BLK1)											Prepared: 05/24/2013 Analyzed: 05/28/2013
Toxaphene	ND	0.0167	mg/kg wet								
Methoxychlor	ND	0.00165	"								
Heptachlor epoxide	ND	0.000330	"								
Heptachlor	ND	0.000330	"								
gamma-BHC (Lindane)	ND	0.000330	"								
Endrin ketone	ND	0.000330	"								
Endrin aldehyde	ND	0.000330	"								
Endrin	ND	0.000330	"								
Endosulfan sulfate	ND	0.000330	"								
Endosulfan II	ND	0.000330	"								
Endosulfan I	ND	0.000330	"								
Dieldrin	ND	0.000330	"								
delta-BHC	ND	0.000330	"								
Chlordane, total	ND	0.00132	"								
beta-BHC	ND	0.000330	"								
alpha-BHC	ND	0.000330	"								
Aldrin	ND	0.000330	"								
4,4'-DDT	ND	0.000330	"								
4,4'-DDE	ND	0.000330	"								
4,4'-DDD	ND	0.000330	"								
Aroclor 1260	ND	0.0170	"								
Aroclor 1254	ND	0.0170	"								
Aroclor 1248	ND	0.0170	"								
Aroclor 1242	ND	0.0170	"								
Aroclor 1232	ND	0.0170	"								
Aroclor 1221	ND	0.0170	"								
Aroclor 1016	ND	0.0170	"								
Total PCBs	ND	0.0170	"								
Surrogate: Tetrachloro-m-xylene	*0.0683*		*"*	*0.0667*		*102*	*30-150*				
Surrogate: Decachlorobiphenyl	*0.0604*		*"*	*0.0670*		*90.1*	*30-150*				

Organochlorine Pesticides by EPA SW 846-8081 - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BE31116 - EPA 3550B											
LCS (BE31116-BS1)								Prepared: 05/24/2013 Analyzed: 05/28/2013			
Methoxychlor	0.0340	0.00165	mg/kg wet	0.0333		102	40-140				
Heptachlor epoxide	0.0296	0.000330	"	0.0333		88.9	40-140				
Heptachlor	0.0290	0.000330	"	0.0333		86.9	40-140				
gamma-BHC (Lindane)	0.0303	0.000330	"	0.0333		91.0	40-140				
Endrin ketone	0.0270	0.000330	"	0.0333		80.9	40-140				
Endrin aldehyde	0.0281	0.000330	"	0.0333		84.2	40-140				
Endrin	0.0309	0.000330	"	0.0333		92.8	40-140				
Endosulfan sulfate	0.0290	0.000330	"	0.0333		87.0	40-140				
Endosulfan II	0.0294	0.000330	"	0.0333		88.3	40-140				
Endosulfan I	0.0311	0.000330	"	0.0333		93.3	40-140				
Dieldrin	0.0296	0.000330	"	0.0333		88.7	40-140				
delta-BHC	0.0313	0.000330	"	0.0333		94.0	40-140				
beta-BHC	0.0305	0.000330	"	0.0333		91.4	40-140				
alpha-BHC	0.0316	0.000330	"	0.0333		94.8	40-140				
Aldrin	0.0308	0.000330	"	0.0333		92.4	40-140				
4,4'-DDT	0.0354	0.000330	"	0.0333		106	40-140				
4,4'-DDE	0.0294	0.000330	"	0.0333		88.2	40-140				
4,4'-DDD	0.0323	0.000330	"	0.0333		97.0	40-140				
Surrogate: Tetrachloro-m-xylene	*0.0612*		*"*	*0.0667*		*91.7*	*30-150*				
Surrogate: Decachlorobiphenyl	*0.0551*		*"*	*0.0670*		*82.2*	*30-150*				
LCS (BE31116-BS2)								Prepared: 05/24/2013 Analyzed: 05/28/2013			
Aroclor 1260	0.296	0.0170	mg/kg wet	0.333		88.7	40-140				
Aroclor 1016	0.322	0.0170	"	0.333		96.6	40-140				
Surrogate: Tetrachloro-m-xylene	*0.0587*		*"*	*0.0667*		*88.0*	*30-150*				
Surrogate: Decachlorobiphenyl	*0.0557*		*"*	*0.0670*		*83.1*	*30-150*				
LCS Dup (BE31116-BSD1)								Prepared: 05/24/2013 Analyzed: 05/28/2013			
Methoxychlor	0.0349	0.00165	mg/kg wet	0.0333		105	40-140		2.65	200	
Heptachlor epoxide	0.0300	0.000330	"	0.0333		89.9	40-140		1.15	200	
Heptachlor	0.0295	0.000330	"	0.0333		88.6	40-140		1.98	200	
gamma-BHC (Lindane)	0.0308	0.000330	"	0.0333		92.3	40-140		1.50	200	
Endrin ketone	0.0274	0.000330	"	0.0333		82.3	40-140		1.73	200	
Endrin aldehyde	0.0287	0.000330	"	0.0333		86.0	40-140		2.09	200	
Endrin	0.0314	0.000330	"	0.0333		94.1	40-140		1.44	200	
Endosulfan sulfate	0.0293	0.000330	"	0.0333		88.0	40-140		1.23	200	
Endosulfan II	0.0298	0.000330	"	0.0333		89.3	40-140		1.12	200	
Endosulfan I	0.0314	0.000330	"	0.0333		94.3	40-140		1.04	200	
Dieldrin	0.0298	0.000330	"	0.0333		89.3	40-140		0.749	200	
delta-BHC	0.0319	0.000330	"	0.0333		95.7	40-140		1.76	200	
beta-BHC	0.0309	0.000330	"	0.0333		92.7	40-140		1.39	200	
alpha-BHC	0.0319	0.000330	"	0.0333		95.8	40-140		1.06	200	
Aldrin	0.0312	0.000330	"	0.0333		93.6	40-140		1.27	200	
4,4'-DDT	0.0336	0.000330	"	0.0333		101	40-140		5.19	200	
4,4'-DDE	0.0298	0.000330	"	0.0333		89.4	40-140		1.41	200	
4,4'-DDD	0.0329	0.000330	"	0.0333		98.6	40-140		1.58	200	
Surrogate: Tetrachloro-m-xylene	*0.0615*		*"*	*0.0667*		*92.2*	*30-150*				
Surrogate: Decachlorobiphenyl	*0.0559*		*"*	*0.0670*		*83.4*	*30-150*				

Organochlorine Pesticides by EPA SW 846-8081 - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BE31116 - EPA 3550B											
Matrix Spike (BE31116-MS1)	*Source sample: 13E0744-11 (DUP-1 (052113))										Prepared: 05/24/2013 Analyzed: 05/28/2013
Methoxychlor	0.0391	0.00956	mg/kg dry	0.0386	ND	101	30-150				
Heptachlor epoxide	0.0340	0.00191	"	0.0386	ND	87.9	30-150				
Heptachlor	0.0322	0.00191	"	0.0386	ND	83.4	30-150				
gamma-BHC (Lindane)	0.0375	0.00191	"	0.0386	ND	97.1	30-150				
Endrin ketone	0.0367	0.00191	"	0.0386	ND	94.9	30-150				
Endrin aldehyde	0.0338	0.00191	"	0.0386	ND	87.4	30-150				
Endrin	0.0368	0.00191	"	0.0386	ND	95.1	30-150				
Endosulfan sulfate	0.0351	0.00191	"	0.0386	ND	90.8	30-150				
Endosulfan II	0.0335	0.00191	"	0.0386	ND	86.7	30-150				
Endosulfan I	0.0346	0.00191	"	0.0386	ND	89.7	30-150				
Dieldrin	0.0336	0.00191	"	0.0386	ND	86.9	30-150				
delta-BHC	0.0320	0.00191	"	0.0386	ND	82.8	30-150				
beta-BHC	0.0354	0.00191	"	0.0386	ND	91.6	30-150				
alpha-BHC	0.0368	0.00191	"	0.0386	ND	95.2	30-150				
Aldrin	0.0297	0.00191	"	0.0386	ND	76.8	30-150				
4,4'-DDT	0.0313	0.00191	"	0.0386	ND	80.9	30-150				
4,4'-DDE	0.0296	0.00191	"	0.0386	ND	76.7	30-150				
4,4'-DDD	0.0321	0.00191	"	0.0386	ND	83.0	30-150				
Surrogate: Tetrachloro-m-xylene	*0.0460*		*"*	*0.0773*		*59.5*	*30-150*				
Surrogate: Decachlorobiphenyl	*0.0358*		*"*	*0.0777*		*46.1*	*30-150*				

Polychlorinated Biphenyls (PCB) by EPA SW 846-8082/EPA Compendium Methods - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BE31118 - EPA 3550B											
Blank (BE31118-BLK1)											Prepared: 05/24/2013 Analyzed: 05/28/2013
Aroclor 1016	ND	0.0170	mg/kg wet								
Aroclor 1221	ND	0.0170	"								
Aroclor 1232	ND	0.0170	"								
Aroclor 1242	ND	0.0170	"								
Aroclor 1248	ND	0.0170	"								
Aroclor 1254	ND	0.0170	"								
Aroclor 1260	ND	0.0170	"								
Total PCBs	ND	0.0170	"								
Surrogate: Tetrachloro-m-xylene	*0.0517*		*"*	*0.0667*		*77.5*	*30-150*				
Surrogate: Decachlorobiphenyl	*0.0533*		*"*	*0.0670*		*79.6*	*30-150*				
LCS (BE31118-BS1)											Prepared: 05/24/2013 Analyzed: 05/28/2013
Aroclor 1016	0.267	0.0170	mg/kg wet	0.333		80.0	40-140				
Aroclor 1260	0.259	0.0170	"	0.333		77.7	40-140				
Surrogate: Tetrachloro-m-xylene	*0.0523*		*"*	*0.0667*		*78.5*	*30-150*				
Surrogate: Decachlorobiphenyl	*0.0547*		*"*	*0.0670*		*81.6*	*30-150*				
LCS Dup (BE31118-BSD1)											Prepared: 05/24/2013 Analyzed: 05/28/2013
Aroclor 1016	0.284	0.0170	mg/kg wet	0.333		85.1	40-140		6.20	25	
Aroclor 1260	0.277	0.0170	"	0.333		83.2	40-140		6.83	25	
Surrogate: Tetrachloro-m-xylene	*0.0570*		*"*	*0.0667*		*85.5*	*30-150*				
Surrogate: Decachlorobiphenyl	*0.0610*		*"*	*0.0670*		*91.0*	*30-150*				
Matrix Spike (BE31118-MS1)	*Source sample: 13E0744-02 (MW-5 (6-8))										Prepared: 05/24/2013 Analyzed: 05/28/2013
Aroclor 1016	0.293	0.0189	mg/kg dry	0.370	ND	79.2	40-140				
Aroclor 1260	0.271	0.0189	"	0.370	ND	73.3	40-140				
Surrogate: Tetrachloro-m-xylene	*0.0444*		*"*	*0.0741*		*60.0*	*30-150*				
Surrogate: Decachlorobiphenyl	*0.0437*		*"*	*0.0744*		*58.7*	*30-150*				

Metals by EPA 6000 Series Methods - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BE31111 - EPA 3050B											
Blank (BE31111-BLK1)									Prepared & Analyzed: 05/23/2013		
Aluminum	ND	2.00	mg/kg wet								
Antimony	ND	0.500	"								
Arsenic	ND	1.00	"								
Barium	ND	0.500	"								
Beryllium	ND	0.100	"								
Cadmium	ND	0.500	"								
Calcium	ND	5.00	"								
Chromium	ND	0.500	"								
Cobalt	ND	0.500	"								
Copper	ND	0.500	"								
Iron	ND	2.00	"								
Lead	ND	0.300	"								
Magnesium	ND	5.00	"								
Manganese	ND	1.00	"								
Nickel	ND	0.500	"								
Potassium	ND	10.0	"								
Selenium	ND	0.500	"								
Silver	ND	0.500	"								
Sodium	13.0	10.0	"								
Thallium	ND	0.500	"								
Vanadium	ND	0.500	"								
Zinc	ND	0.500	"								
Duplicate (BE31111-DUP1)	*Source sample: 13E0744-10 (LG-19 (26-28))								Prepared & Analyzed: 05/23/2013		
Aluminum	7140	2.26	mg/kg dry		7220				1.02	35	
Antimony	ND	0.565	"		ND					35	
Arsenic	1.36	1.13	"		1.22				10.4	35	
Barium	45.5	0.565	"		45.2				0.541	35	
Beryllium	ND	0.113	"		ND					35	
Cadmium	ND	0.565	"		ND					35	
Calcium	1150	5.65	"		1170				1.21	35	
Chromium	12.2	0.565	"		12.2				0.0215	35	
Cobalt	6.42	0.565	"		6.37				0.643	35	
Copper	10.8	0.565	"		10.8				0.307	35	
Iron	10100	2.26	"		10200				1.10	35	
Lead	3.85	0.339	"		3.74				2.97	35	
Magnesium	1920	5.65	"		1950				1.62	35	
Manganese	200	1.13	"		202				0.774	35	
Nickel	14.4	0.565	"		14.0				2.53	35	
Potassium	986	11.3	"		1000				1.87	35	
Selenium	0.680	0.565	"		0.671				1.39	35	
Silver	ND	0.565	"		ND					35	
Sodium	183	11.3	"		183				0.281	35	
Thallium	ND	0.565	"		ND					35	
Vanadium	14.5	0.565	"		14.5				0.203	35	
Zinc	23.0	0.565	"		23.1				0.406	35	

Metals by EPA 6000 Series Methods - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BE31111 - EPA 3050B											
Matrix Spike (BE31111-MS1)	*Source sample: 13E0744-10 (LG-19 (26-28))							Prepared & Analyzed: 05/23/2013			
Aluminum	7420	2.26	mg/kg dry	226	7220	88.1	75-125				
Antimony	29.3	0.565	"	28.3	ND	104	75-125				
Arsenic	223	1.13	"	226	1.22	98.0	75-125				
Barium	272	0.565	"	226	45.2	100	75-125				
Beryllium	4.79	0.113	"	5.65	ND	84.7	75-125				
Cadmium	5.53	0.565	"	5.65	ND	97.7	75-125				
Chromium	35.8	0.565	"	22.6	12.2	104	75-125				
Cobalt	64.5	0.565	"	56.5	6.37	103	75-125				
Copper	40.1	0.565	"	28.3	10.8	104	75-125				
Iron	10200	2.26	"	113	10200	51.7	75-125	Low Bias			
Lead	59.8	0.339	"	56.5	3.74	99.2	75-125				
Magnesium	1940	5.65	"		1950		75-125				
Manganese	257	1.13	"	56.5	202	97.1	75-125				
Nickel	72.2	0.565	"	56.5	14.0	103	75-125				
Potassium	988	11.3	"		1000		75-125				
Silver	4.08	0.565	"	5.65	ND	72.2	75-125	Low Bias			
Sodium	179	11.3	"		183		75-125				
Thallium	229	0.565	"	226	ND	101	75-125				
Vanadium	68.2	0.565	"	56.5	14.5	95.0	75-125				
Zinc	80.9	0.565	"	56.5	23.1	102	75-125				
Reference (BE31111-SRM1)								Prepared & Analyzed: 05/23/2013			
Aluminum	8040	2.00	mg/kg wet	8360		96.2	40.4-159				
Antimony	128	0.500	"	92.9		137	24.8-272				
Arsenic	89.1	1.00	"	94.5		94.3	69.2-131				
Barium	154	0.500	"	166		92.5	72.9-127				
Beryllium	49.7	0.100	"	52.6		94.5	73-127				
Cadmium	54.6	0.500	"	59.9		91.1	73.1-127				
Calcium	5720	5.00	"	6160		92.9	73.9-126				
Chromium	65.1	0.500	"	69.3		93.9	68.4-132				
Cobalt	98.4	0.500	"	101		97.4	74.2-125				
Copper	76.6	0.500	"	78.0		98.2	73.6-126				
Iron	13000	2.00	"	12800		102	31.8-168				
Lead	82.9	0.300	"	91.7		90.4	70.2-130				
Magnesium	2760	5.00	"	3030		91.2	66-134				
Manganese	262	1.00	"	283		92.6	73.9-125				
Nickel	60.3	0.500	"	56.6		107	70-130				
Potassium	3510	10.0	"	3820		91.9	64.7-136				
Selenium	152	0.500	"	159		95.9	67.9-133				
Silver	30.3	0.500	"	33.9		89.5	65.5-135				
Sodium	709	10.0	"	652		109	55.1-145				
Thallium	109	0.500	"	119		91.3	67.6-133				
Vanadium	53.8	0.500	"	56.3		95.5	53.3-147				
Zinc	132	0.500	"	137		96.0	67.4-133				

Mercury by EPA 7000/200 Series Methods - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BE31145 - EPA SW846-7471											
Blank (BE31145-BLK1)								Prepared & Analyzed: 05/24/2013			
Mercury	ND	0.0330	mg/kg wet								
LCS (BE31145-BS1)								Prepared & Analyzed: 05/24/2013			
Mercury	3.73		mg/kg	3.73		100	67.6-131				
Duplicate (BE31145-DUP2)	*Source sample: 13E0744-01 (MW-5 (0-2))							Prepared & Analyzed: 05/24/2013			
Mercury	ND	0.0386	mg/kg dry		ND					35	
Matrix Spike (BE31145-MS2)	*Source sample: 13E0744-01 (MW-5 (0-2))							Prepared & Analyzed: 05/24/2013			
Mercury	0.350		mg/kg	0.333	ND	105	75-125				

Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
13E0744-01	MW-5 (0-2)	Encore Sampler
13E0744-02	MW-5 (6-8)	Encore Sampler
13E0744-03	LG-20 (0-2)	Encore Sampler
13E0744-04	LG-20 (22-24)	Encore Sampler
13E0744-05	LG-21 (0-2)	Encore Sampler
13E0744-06	LG-21 (20-22)	Encore Sampler
13E0744-07	MW-10 (1-3)	Encore Sampler
13E0744-08	MW-10 (32-34)	Encore Sampler
13E0744-09	LG-19 (0-2)	Encore Sampler
13E0744-10	LG-19 (26-28)	Encore Sampler
13E0744-11	DUP-1 (052113)	Encore Sampler
13E0744-12	TB_052113	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C

Notes and Definitions

U	Analyte included in the analysis, but not detected
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
QL-02	This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
J	Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL); therefore, the result is an estimated concentration.
E	The concentration indicated for this analyte is an estimated value above the calibration range of the instrument. This value is considered an estimate.
D	The result reported is from a dilution of the sample due to levels of target compounds found
B	Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants. Data users should consider anything <10x the blank value as artifact.

ND	Analyte NOT DETECTED at the stated Reporting Limit (RL) or above.
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
MDL	METHOD DETECTION LIMIT - the minimum concentration that can be measured and reported with a 99% confidence that the concentration is greater than zero. If requested or required, a value reported below the RL and above the MDL is considered estimated and is noted with a "J" flag.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.

Non-Dir. Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two.
For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the MDL, with values between the MDL and the RL being "J" flagged as estimated results.

YORK ANALYTICAL LABORATORIES
120 RESEARCH DR.
STRATFORD, CT 06615
(203) 325-1371
FAX (203) 357-0166

Field Chain-of-Custody Record

NOTE: York's Std. Terms & Conditions are listed on the back side of this document. This document serves as your written authorization to York to proceed with the analyses requested and your signature binds you to York's Std. Terms & Conditions.

York Project No. 13E0744

YOUR Information

Company: Langan
Address: 360 W 31st St NY, NY 10001
Phone No. (212) 479-5400
Contact Person: Brandon Nathe
E-Mail Address: BNathe@Langan.com

Report To:

Company: SAME
Address:
Phone No.
Attention: Paul McMahon
E-Mail Address: PMcMahon@Langan.com

Invoice To:

Company: SAME
Address:
Phone No.
Attention:
E-Mail Address:

YOUR Project ID

170246501

Purchase Order No.

Samples from: CT ___ NY X NJ ___

Turn-Around Time

- RUSH - Same Day ☐
- RUSH - Next Day ☐
- RUSH - Two Day ☐
- RUSH - Three Day ☐
- RUSH - Four Day ☑

Standard(5-7 Days) ☐

Report Type

- Summary Report X
- Summary w/ QA Summary
- CT RCP Package
- CTRCP DQA/DUE Pkg
- NY ASP A Package
- NY ASP B Package X
- NJDEP Red. Deliv.

Electronic Data Deliverables (EDD)

- Simple Excel
- NYSDEC EQuIS X
- EQuIS (std)
- EZ-EDD (EQuIS)
- NJDEP SRP HazSite EDD
- GIS/KEY (std)
- Other

York Regulatory Comparison
Excel Spreadsheet X
Compare to the following Regs. (please fill in):
Part 375 Unrestricted

Print Clearly and Legibly. All Information must be complete. Samples will NOT be logged in and the turn-around time clock will not begin until any questions by York are resolved.

Samples Collected/Authorized By (Signature)

Paul McMahon
Name (printed)

Matrix Codes
S - soil
Other - specify(oil, etc.)
WW - wastewater
GW - groundwater
DW - drinking water
Air-A - ambient air
Air-SV - soil vapor

Volatiles		Semi-Vols.	Pest/PCB/Herb	Metals	Misc. Org.	Full Lists	Misc.
8260 full	TICs	8270 or 625	8082PCB	RCRA8	TPH GRO	Pri.Poll.	Corrosivity
624	Site Spec.	STARS list	8081Pest	PP13 list	TPH DRO	TCL Organics	Reactivity
STARS list	Nassau Co.	BN Only	8151Herb	TAL	CT ETPH	TAL Met/CN	Ignitability
BTEX	Suffolk Co.	Acids Only	CT RCP	CT15 list	NY 310-13	Full TCLP	Flash Point
MTBE	Ketones	PAH list	App. IX	TAGM list	TPH 1664	Full App. IX	Sieve Anal.
TCL list	Oxygenates	TAGM list	Site Spec.	NJDEP list	Air TO14A	Part360-Routine	Heterotrophs
TAGM list	TCLP list	CT RCP list	SPLP or TCLP	Total	Air TO15	Part360-Baseline	TOX
CT RCP list	524.2	TCL list	TCLP Pest	Dissolved	Air STARS	Part360-Expanded No Dioxins Furans	BTU/lb.
Arom. only	502.2	NJDEP list	TCLP Herb	SPLP or TCLP	Air VPH	Part360-Expanded Full List	Aquatic Tox.
Halog.only	NJDEP list	App. IX	Chlordane	Indiv. Metals	Air TICs	NYCDEP Sewer	TOC
App.IX list	SPLP or TCLP	TCLP BNA	608 Pest	LIST Below	Methane	NYSDEC Sewer	Asbestos
8021B list		SPLP or TCLP	608 PCB		Helium	TAGM	Silica

Sample Identification	Date/Time Sampled	Sample Matrix	Choose Analyses Needed from the Menu Above and Enter Below	Container Description(s)
MW-5 (0-2)	5/21/13 10:25	S	VOC/SVOC/Metals/PCB/Pest (see circled)	1 8-oz., 3 EnCore, 1 VOA
MW-5 (6-8)	10:35		VOC/SVOC/Metals/PCB	
LG-20 (0-2)	11:44		VOC/SVOC/Metals/PCB/Pest	
LG-20 (22-24)	12:01		VOC/SVOC/Metals/PCB	
LG-21 (0-2)	10:55		VOC/SVOC/Metals/PCB/Pest	
LG-21 (20-22)	11:25		VOC/SVOC/Metals/PCB	
MW-10 (1-3)	13:33		VOC/SVOC/Metals/PCB/Pest	
MW-10 (32-34)	13:55		VOC/SVOC/Metals/PCB	
LG-19 (0-2)	13:06		VOC/SVOC/Metals/PCB/Pest	
LG-19 (26-28)	13:10		VOC/SVOC/Metals/PCB	

Comments

Preservation Check those Applicable
4°C ___ Frozen ___ HCl ___ MeOH ___ HNO3 ___ H2SO4 ___ NaOH ___
ZnAc ___ Ascorbic Acid ___ Other ___

Special Instructions
Field Filtered ☐
Lab to Filter ☐

Samples Relinquished By — Date/Time: 5/21/13 7:45
Samples Relinquished By — Date/Time:

Samples Received By — Date/Time: 5-22-13
Samples Received in LAB by — Date/Time: 5-22-13 1640

Temperature on Receipt: 3.3 °C

YORK ANALYTICAL LABORATORIES
120 RESEARCH DR.
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Field Chain-of-Custody Record

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York Project No. 13E0744

YOUR Information

Company: Langan
Address: 360 W 31st St
NY, NY 10001
Phone No. (212) 479-5400
Contact Person: Brandon Nuttle
E-Mail Address: BNuttle@langan.com

Report To:

Company: SAME
Address:
Phone No.
Attention: Paul McMahon
E-Mail Address: PMcMahon@langan.com

Invoice To:

Company: SAME
Address:
Phone No.
Attention:
E-Mail Address:

YOUR Project ID

170246501

Purchase Order No.

Samples from: CT ___ NY X NJ ___

Turn-Around Time

- RUSH - Same Day ☐
- RUSH - Next Day ☐
- RUSH - Two Day ☐
- RUSH - Three Day ☐
- RUSH - Four Day ☑
- Standard(5-7 Days) ☐

Report Type

- Summary Report X
- Summary w/ QA Summary
- CT RCP Package
- CTRCP DQA/DUE Pkg
- NY ASP A Package
- NY ASP B Package X
- NJDEP Red. Deliv.

Electronic Data Deliverables (EDD)

- Simple Excel
- NYSDEC EQuIS X
- EQuIS (std)
- EZ-EDD (EQuIS)
- NJDEP SRP HazSite EDD
- GIS/KEY (std)
- Other

York Regulatory Comparison Excel Spreadsheet X
Compare to the following Regs. (please fill in):
Part 375 Unrestricted

Print Clearly and Legibly. All Information must be complete. Samples will NOT be logged in and the turn-around time clock will not begin until any questions by York are resolved.

Paul McMahon
Samples Collected/Authorized By (Signature)
Paul McMahon
Name (printed)

Matrix Codes
S - soil
Other - specify(oil, etc.)
WW - wastewater
GW - groundwater
DW - drinking water
Air-A - ambient air
Air-SV - soil vapor

Volatiles		Semi-Vols.	Pest/PCB/Herb	Metals	Misc. Org.	Full Lists	Misc.
8260 full	TICs	8270 + 625	8082PCB	RCRA8	TPH GRO	Pri.Poll.	Corrosivity
624	Site Spec.	STARS list	8081Pest	PP13 list	TPH DRO	TCL Organics	Reactivity
STARS list	Nassau Co.	BN Only	8151Herb	TAL	CT ETPH	TAL Met/CN	Ignitability
BTEX	Suffolk Co.	Acids Only	CT RCP	CT15 list	NY 310-13	Full TCLP	Flash Point
MTBE	Ketones	PAH list	App. IX	TAGM list	TPH 1664	Full App. IX	Sieve Anal.
TCL list	Oxygenates	TAGM list	Site Spec.	NJDEP list	Air TO14A	Part 360-Routine	Heterotrophs
TAGM list	TCLP list	CT RCP list	SPLP or TCLP	Total	Air TO15	Part 360-Baseline	TOX
CT RCP list	524.2	TCL list	TCLP Pest	Dissolved	Air STARS	Part 360-Expanded No Dioxins/Furans	BTU/lb.
Arom. only	502.2	NJDEP list	TCLP Herb	SPLP or TCLP	Air VPH	Part 360-Expanded Full List	Aquatic Tox.
Halog.only	NJDEP list	App. IX	Chlordane	Indiv. Metals	Air TICs	NYCDEP Sewer	TOC
App.IX list	SPLP or TCLP	TCLP BNA	608 Pest	LIST Below	Methane	NYSDEC Sewer	Asbestos
8021B list		SPLP or TCLP	608 PCB		Helium	TAGM	Silica

Sample Identification	Date/Time Sampled	Sample Matrix	Choose Analyses Needed from the Menu Above and Enter Below	Container Description(s)
DUP-1 (052113)	5/21/13	S	VOC/SVOC/Metals/PCB/Pest	18-oz., 3 Encore, 1 VOA
TB-052113	5/21/13	DI Water	VOC	1 VOA

Comments

Preservation Check those Applicable
4°C ___ Frozen ___ HCl ___ MeOH ___ HNO_3 ___ H_2SO_4 ___ NaOH ___
ZnAc ___ Ascorbic Acid ___ Other ___ 74.5AM

Special Instructions
Field Filtered ☐
Lab to Filter ☐

Samples Relinquished By	Date/Time 5/22/13 7:45	Samples Received By	Date/Time 5-22-13
Samples Relinquished By	Date/Time	Samples Received in LAB by Grace	Date/Time 5-22-13 1640

Temperature on Receipt 3.3 °C

Technical Report

prepared for:

Langan Engineering & Environmental Services (NYC)
21 Penn Plaza, 360 West 31st Street
New York NY, 10001
Attention: Paul McMahon

Report Date: 05/31/2013
Client Project ID: 170246501
York Project (SDG) No.: 13E0868

Report Date: 05/31/2013
Client Project ID: 170246501
York Project (SDG) No.: 13E0868

Langan Engineering & Environmental Services (NYC)
21 Penn Plaza, 360 West 31st Street
New York NY, 10001
Attention: Paul McMahon

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on May 24, 2013 and listed below. The project was identified as your project: **170246501**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the attachment to this report, and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
13E0868-01	MW-8_052313	Water	05/23/2013	05/24/2013
13E0868-02	DUP-1_052313	Water	05/23/2013	05/24/2013
13E0868-03	MW-9_052313	Water	05/23/2013	05/24/2013
13E0868-04	MW-6_052313	Water	05/23/2013	05/24/2013
13E0868-05	MW-7_052313	Water	05/23/2013	05/24/2013
13E0868-06	MW-3_052313	Water	05/23/2013	05/24/2013
13E0868-07	MW-10_052313	Water	05/23/2013	05/24/2013
13E0868-08	TRC-MW-3_052413	Water	05/24/2013	05/24/2013
13E0868-09	FB_052413	Water	05/24/2013	05/24/2013

General Notes for York Project (SDG) No.: 13E0868

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation, unless otherwise noted.
6. All analyses conducted met method or Laboratory SOP requirements. See the Qualifiers and/or Narrative sections for further information.
7. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
8. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.

Approved By: 

Date: 05/31/2013

Benjamin Gulizia
Laboratory Director

YORK



Sample Information

Client Sample ID: MW-8_052313 **York Sample ID:** 13E0868-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0868	170246501	Water	May 23, 2013 2:32 pm	05/24/2013

Volatile Organics, 8260 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/28/2013 23:59	SS
71-55-6	1,1,1-Trichloroethane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/28/2013 23:59	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/28/2013 23:59	SS
76-13-1	,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/28/2013 23:59	SS
79-00-5	1,1,2-Trichloroethane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/28/2013 23:59	SS
75-34-3	1,1-Dichloroethane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/28/2013 23:59	SS
75-35-4	1,1-Dichloroethylene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/28/2013 23:59	SS
563-58-6	1,1-Dichloropropylene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/28/2013 23:59	SS
87-61-6	1,2,3-Trichlorobenzene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/28/2013 23:59	SS
96-18-4	1,2,3-Trichloropropane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/28/2013 23:59	SS
120-82-1	1,2,4-Trichlorobenzene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/28/2013 23:59	SS
95-63-6	1,2,4-Trimethylbenzene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/28/2013 23:59	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/28/2013 23:59	SS
106-93-4	1,2-Dibromoethane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/28/2013 23:59	SS
95-50-1	1,2-Dichlorobenzene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/28/2013 23:59	SS
107-06-2	1,2-Dichloroethane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/28/2013 23:59	SS
78-87-5	1,2-Dichloropropane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/28/2013 23:59	SS
108-67-8	1,3,5-Trimethylbenzene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/28/2013 23:59	SS
541-73-1	1,3-Dichlorobenzene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/28/2013 23:59	SS
142-28-9	1,3-Dichloropropane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/28/2013 23:59	SS
106-46-7	1,4-Dichlorobenzene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/28/2013 23:59	SS
594-20-7	2,2-Dichloropropane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/28/2013 23:59	SS
78-93-3	2-Butanone	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/28/2013 23:59	SS
95-49-8	2-Chlorotoluene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/28/2013 23:59	SS
106-43-4	4-Chlorotoluene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/28/2013 23:59	SS
67-64-1	Acetone	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/28/2013 23:59	SS
71-43-2	Benzene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/28/2013 23:59	SS
108-86-1	Bromobenzene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/28/2013 23:59	SS
74-97-5	Bromochloromethane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/28/2013 23:59	SS
75-27-4	Bromodichloromethane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/28/2013 23:59	SS
75-25-2	Bromoform	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/28/2013 23:59	SS
74-83-9	Bromomethane	**2.6**	J	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/28/2013 23:59	SS

Sample Information

Client Sample ID: MW-8_052313 **York Sample ID:** 13E0868-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0868	170246501	Water	May 23, 2013 2:32 pm	05/24/2013

Volatile Organics, 8260 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
56-23-5	Carbon tetrachloride	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/28/2013 23:59	SS
108-90-7	Chlorobenzene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/28/2013 23:59	SS
75-00-3	Chloroethane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/28/2013 23:59	SS
67-66-3	Chloroform	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/28/2013 23:59	SS
74-87-3	Chloromethane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/28/2013 23:59	SS
156-59-2	cis-1,2-Dichloroethylene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/28/2013 23:59	SS
10061-01-5	cis-1,3-Dichloropropylene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/28/2013 23:59	SS
124-48-1	Dibromochloromethane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/28/2013 23:59	SS
74-95-3	Dibromomethane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/28/2013 23:59	SS
75-71-8	Dichlorodifluoromethane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/28/2013 23:59	SS
100-41-4	Ethyl Benzene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/28/2013 23:59	SS
87-68-3	Hexachlorobutadiene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/28/2013 23:59	SS
98-82-8	Isopropylbenzene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/28/2013 23:59	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/28/2013 23:59	SS
75-09-2	Methylene chloride	**7.6**		ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/28/2013 23:59	SS
91-20-3	Naphthalene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/28/2013 23:59	SS
104-51-8	n-Butylbenzene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/28/2013 23:59	SS
103-65-1	n-Propylbenzene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/28/2013 23:59	SS
95-47-6	o-Xylene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/28/2013 23:59	SS
179601-23-1	p- & m- Xylenes	ND	U	ug/L	5.0	10	1	EPA SW846-8260B	05/28/2013 12:55	05/28/2013 23:59	SS
99-87-6	p-Isopropyltoluene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/28/2013 23:59	SS
135-98-8	sec-Butylbenzene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/28/2013 23:59	SS
100-42-5	Styrene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/28/2013 23:59	SS
98-06-6	tert-Butylbenzene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/28/2013 23:59	SS
127-18-4	Tetrachloroethylene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/28/2013 23:59	SS
108-88-3	Toluene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/28/2013 23:59	SS
156-60-5	trans-1,2-Dichloroethylene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/28/2013 23:59	SS
10061-02-6	trans-1,3-Dichloropropylene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/28/2013 23:59	SS
79-01-6	Trichloroethylene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/28/2013 23:59	SS
75-69-4	Trichlorofluoromethane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/28/2013 23:59	SS
75-01-4	Vinyl Chloride	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/28/2013 23:59	SS
1330-20-7	Xylenes, Total	ND	U	ug/L	7.5	15	1	EPA SW846-8260B	05/28/2013 12:55	05/28/2013 23:59	SS

Sample Information

Client Sample ID: MW-8_052313 **York Sample ID:** 13E0868-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0868	170246501	Water	May 23, 2013 2:32 pm	05/24/2013

Volatile Organics, 8260 List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-05-4	Vinyl acetate	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/28/2013 23:59	SS

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*99.5 %*	*72.6-129*
460-00-4	*Surrogate: p-Bromofluorobenzene*	*100 %*	*63.5-145*
2037-26-5	*Surrogate: Toluene-d8*	*101 %*	*81.2-127*

Semi-Volatiles, 8270 List - low level

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND		ug/L	0.0187	0.0606	1	EPA SW-846 8270C	05/29/2013 09:10	05/29/2013 14:22	SR
208-96-8	Acenaphthylene	ND		ug/L	0.0316	0.0606	1	EPA SW-846 8270C	05/29/2013 09:10	05/29/2013 14:22	SR
62-53-3	Aniline	ND		ug/L	1.82	6.06	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 12:46	SR
120-12-7	Anthracene	ND		ug/L	0.0206	0.0606	1	EPA SW-846 8270C	05/29/2013 09:10	05/29/2013 14:22	SR
56-55-3	Benzo(a)anthracene	ND		ug/L	0.0133	0.0606	1	EPA SW-846 8270C	05/29/2013 09:10	05/29/2013 14:22	SR
50-32-8	Benzo(a)pyrene	ND		ug/L	0.0182	0.0606	1	EPA SW-846 8270C	05/29/2013 09:10	05/29/2013 14:22	SR
205-99-2	Benzo(b)fluoranthene	ND		ug/L	0.0328	0.0606	1	EPA SW-846 8270C	05/29/2013 09:10	05/29/2013 14:22	SR
100-51-6	Benzyl alcohol	ND		ug/L	1.76	6.06	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 12:46	SR
191-24-2	Benzo(g,h,i)perylene	ND		ug/L	0.0133	0.0606	1	EPA SW-846 8270C	05/29/2013 09:10	05/29/2013 14:22	SR
207-08-9	Benzo(k)fluoranthene	ND		ug/L	0.0224	0.0606	1	EPA SW-846 8270C	05/29/2013 09:10	05/29/2013 14:22	SR
85-68-7	Benzyl butyl phthalate	ND		ug/L	1.03	6.06	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 12:46	SR
101-55-3	4-Bromophenyl phenyl ether	ND		ug/L	1.61	6.06	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 12:46	SR
59-50-7	4-Chloro-3-methylphenol	ND		ug/L	2.29	6.06	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 12:46	SR
106-47-8	4-Chloroaniline	ND		ug/L	3.61	6.06	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 12:46	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/L	2.15	6.06	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 12:46	SR
111-44-4	Bis(2-chloroethyl)ether	ND		ug/L	1.82	6.06	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 12:46	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/L	3.62	6.06	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 12:46	SR
117-81-7	Bis(2-ethylhexyl)phthalate	**0.861**	J	ug/L	0.571	6.06	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 12:46	SR
91-58-7	2-Chloronaphthalene	ND		ug/L	2.67	6.06	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 12:46	SR
95-57-8	2-Chlorophenol	ND		ug/L	2.17	6.06	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 12:46	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/L	2.97	6.06	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 12:46	SR
218-01-9	Chrysene	ND		ug/L	0.0141	0.0606	1	EPA SW-846 8270C	05/29/2013 09:10	05/29/2013 14:22	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/L	0.0481	0.0606	1	EPA SW-846 8270C	05/29/2013 09:10	05/29/2013 14:22	SR
132-64-9	Dibenzofuran	ND		ug/L	2.92	6.06	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 12:46	SR
84-74-2	Di-n-butyl phthalate	ND		ug/L	2.48	6.06	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 12:46	SR

Sample Information

Client Sample ID: MW-8_052313 **York Sample ID:** 13E0868-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0868	170246501	Water	May 23, 2013 2:32 pm	05/24/2013

Semi-Volatiles, 8270 List - low level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-50-1	1,2-Dichlorobenzene	ND		ug/L	3.02	6.06	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 12:46	SR
541-73-1	1,3-Dichlorobenzene	ND		ug/L	3.16	6.06	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 12:46	SR
106-46-7	1,4-Dichlorobenzene	ND		ug/L	2.68	6.06	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 12:46	SR
91-94-1	3,3'-Dichlorobenzidine	ND		ug/L	1.54	6.06	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 12:46	SR
120-83-2	2,4-Dichlorophenol	ND		ug/L	2.29	6.06	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 12:46	SR
84-66-2	Diethyl phthalate	ND		ug/L	3.10	6.06	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 12:46	SR
105-67-9	2,4-Dimethylphenol	ND		ug/L	1.94	6.06	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 12:46	SR
131-11-3	Dimethyl phthalate	ND		ug/L	2.32	6.06	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 12:46	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/L	1.96	12.1	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 12:46	SR
51-28-5	2,4-Dinitrophenol	ND		ug/L	2.73	12.1	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 12:46	SR
606-20-2	2,6-Dinitrotoluene	ND		ug/L	1.95	6.06	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 12:46	SR
121-14-2	2,4-Dinitrotoluene	ND		ug/L	1.95	6.06	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 12:46	SR
117-84-0	Di-n-octyl phthalate	ND		ug/L	1.36	6.06	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 12:46	SR
206-44-0	Fluoranthene	ND		ug/L	0.0264	0.0606	1	EPA SW-846 8270C	05/29/2013 09:10	05/29/2013 14:22	SR
86-73-7	Fluorene	ND		ug/L	0.0127	0.0606	1	EPA SW-846 8270C	05/29/2013 09:10	05/29/2013 14:22	SR
118-74-1	Hexachlorobenzene	ND		ug/L	1.54	6.06	1	EPA SW-846 8270C	05/29/2013 09:10	05/29/2013 14:22	SR
87-68-3	Hexachlorobutadiene	ND		ug/L	3.38	6.06	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 12:46	SR
77-47-4	Hexachlorocyclopentadiene	ND		ug/L	3.07	6.06	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 12:46	SR
67-72-1	Hexachloroethane	ND		ug/L	3.68	6.06	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 12:46	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/L	0.0164	0.0606	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 12:46	SR
78-59-1	Isophorone	ND		ug/L	3.25	6.06	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 12:46	SR
91-57-6	2-Methylnaphthalene	ND		ug/L	0.0526	6.06	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 12:46	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/L	1.36	6.06	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 12:46	SR
95-48-7	2-Methylphenol	ND		ug/L	1.41	6.06	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 12:46	SR
91-20-3	Naphthalene	ND		ug/L	0.00945	6.06	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 12:46	SR
100-01-6	4-Nitroaniline	ND		ug/L	3.25	6.06	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 12:46	SR
99-09-2	3-Nitroaniline	ND		ug/L	2.04	6.06	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 12:46	SR
88-74-4	2-Nitroaniline	ND		ug/L	2.04	6.06	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 12:46	SR
98-95-3	Nitrobenzene	ND		ug/L	2.05	6.06	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 12:46	SR
88-75-5	2-Nitrophenol	ND		ug/L	2.86	6.06	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 12:46	SR
100-02-7	4-Nitrophenol	ND		ug/L	2.01	6.06	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 12:46	SR
621-64-7	N-nitroso-di-n-propylamine	ND		ug/L	3.10	6.06	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 12:46	SR

Sample Information

Client Sample ID: MW-8_052313 **York Sample ID:** 13E0868-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0868	170246501	Water	May 23, 2013 2:32 pm	05/24/2013

Semi-Volatiles, 8270 List - low level

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
62-75-9	N-Nitrosodimethylamine	ND		ug/L	0.472	6.06	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 12:46	SR
86-30-6	N-Nitrosodiphenylamine	ND		ug/L	6.06	6.06	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 12:46	SR
87-86-5	Pentachlorophenol	ND		ug/L	1.76	6.06	1	EPA SW-846 8270C	05/29/2013 09:10	05/29/2013 14:22	SR
85-01-8	Phenanthrene	ND		ug/L	0.0606	0.0606	1	EPA SW-846 8270C	05/29/2013 09:10	05/29/2013 14:22	SR
108-95-2	Phenol	ND		ug/L	1.33	6.06	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 12:46	SR
129-00-0	Pyrene	ND		ug/L	0.0288	0.0606	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 12:46	SR
110-86-1	Pyridine	ND		ug/L	4.74	6.06	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 12:46	SR
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	2.99	6.06	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 12:46	SR
88-06-2	2,4,6-Trichlorophenol	ND		ug/L	2.12	6.06	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 12:46	SR
95-95-4	2,4,5-Trichlorophenol	ND		ug/L	2.32	6.06	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 12:46	SR

	Surrogate Recoveries	Result	Acceptance Range
5175-83-7	*Surrogate: 2,4,6-Tribromophenol*	*98.6 %*	*15-110*
321-60-8	*Surrogate: 2-Fluorobiphenyl*	*68.9 %*	*30-130*
367-12-4	*Surrogate: 2-Fluorophenol*	*31.2 %*	*15-110*
4165-60-0	*Surrogate: Nitrobenzene-d5*	*64.0 %*	*30-130*
4165-62-2	*Surrogate: Phenol-d5*	*18.0 %*	*10-110*
1718-51-0	*Surrogate: Terphenyl-d14*	*102 %*	*30-130*

Polychlorinated Biphenyls (PCB)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND	U	ug/L	0.0556	0.0556	1	EPA SW 846-8082A	05/29/2013 06:17	05/30/2013 16:05	JW
11104-28-2	Aroclor 1221	ND	U	ug/L	0.0556	0.0556	1	EPA SW 846-8082A	05/29/2013 06:17	05/30/2013 16:05	JW
11141-16-5	Aroclor 1232	ND	U	ug/L	0.0556	0.0556	1	EPA SW 846-8082A	05/29/2013 06:17	05/30/2013 16:05	JW
53469-21-9	Aroclor 1242	ND	U	ug/L	0.0556	0.0556	1	EPA SW 846-8082A	05/29/2013 06:17	05/30/2013 16:05	JW
12672-29-6	Aroclor 1248	ND	U	ug/L	0.0556	0.0556	1	EPA SW 846-8082A	05/29/2013 06:17	05/30/2013 16:05	JW
11097-69-1	Aroclor 1254	ND	U	ug/L	0.0556	0.0556	1	EPA SW 846-8082A	05/29/2013 06:17	05/30/2013 16:05	JW
11096-82-5	Aroclor 1260	ND	U	ug/L	0.0556	0.0556	1	EPA SW 846-8082A	05/29/2013 06:17	05/30/2013 16:05	JW
1336-36-3	Total PCBs	ND	U	ug/L	0.0556	0.0556	1	EPA SW 846-8082A	05/29/2013 06:17	05/30/2013 16:05	JW

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*43.5 %*	*30-150*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*69.7 %*	*30-150*

Sample Information

Client Sample ID: MW-8_052313 **York Sample ID:** 13E0868-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0868	170246501	Water	May 23, 2013 2:32 pm	05/24/2013

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	**96**		ug/L	10	10	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 10:59	MW
7440-36-0	Antimony	ND	U	ug/L	3	5	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 10:59	MW
7440-38-2	Arsenic	ND	U	ug/L	4	4	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 10:59	MW
7440-39-3	Barium	**90**		ug/L	2	10	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 10:59	MW
7440-41-7	Beryllium	ND	U	ug/L	1	1	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 10:59	MW
7440-43-9	Cadmium	ND	U	ug/L	2	3	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 10:59	MW
7440-70-2	Calcium	**137000**		ug/L	19	50	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 10:59	MW
7440-47-3	Chromium	ND	U	ug/L	2	5	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 10:59	MW
7440-48-4	Cobalt	ND	U	ug/L	2	5	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 10:59	MW
7440-50-8	Copper	ND	U	ug/L	2	5	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 10:59	MW
7439-89-6	Iron	**144**		ug/L	10	20	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 10:59	MW
7439-92-1	Lead	ND	U	ug/L	2	3	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 10:59	MW
7439-95-4	Magnesium	**25500**		ug/L	10	50	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 10:59	MW
7439-96-5	Manganese	**1660**		ug/L	2	5	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 10:59	MW
7440-02-0	Nickel	ND	U	ug/L	1	5	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 10:59	MW
7440-09-7	Potassium	**13100**		ug/L	26	50	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 10:59	MW
7782-49-2	Selenium	ND	U	ug/L	7	10	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 10:59	MW
7440-22-4	Silver	ND	U	ug/L	2	5	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 10:59	MW
7440-23-5	Sodium	**59500**		ug/L	61	100	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 10:59	MW
7440-28-0	Thallium	ND	U	ug/L	3	10	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 10:59	MW
7440-62-2	Vanadium	ND	U	ug/L	2	10	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 10:59	MW
7440-66-6	Zinc	**29**		ug/L	2	20	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 10:59	MW

Mercury by 7470/7471

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-7470

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND	U	ug/L	0.2	0.2	1	EPA SW846-7470	05/29/2013 13:49	05/30/2013 11:28	AA

Sample Information

Client Sample ID: DUP-1_052313 **York Sample ID:** 13E0868-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0868	170246501	Water	May 23, 2013 3:00 pm	05/24/2013

Volatile Organics, 8260 List

Log-in Notes: **Sample Notes:**

Sample Information

Client Sample ID: DUP-1_052313 **York Sample ID:** 13E0868-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0868	170246501	Water	May 23, 2013 3:00 pm	05/24/2013

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 00:38	SS
71-55-6	1,1,1-Trichloroethane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 00:38	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 00:38	SS
76-13-1	,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 00:38	SS
79-00-5	1,1,2-Trichloroethane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 00:38	SS
75-34-3	1,1-Dichloroethane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 00:38	SS
75-35-4	1,1-Dichloroethylene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 00:38	SS
563-58-6	1,1-Dichloropropylene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 00:38	SS
87-61-6	1,2,3-Trichlorobenzene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 00:38	SS
96-18-4	1,2,3-Trichloropropane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 00:38	SS
120-82-1	1,2,4-Trichlorobenzene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 00:38	SS
95-63-6	1,2,4-Trimethylbenzene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 00:38	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 00:38	SS
106-93-4	1,2-Dibromoethane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 00:38	SS
95-50-1	1,2-Dichlorobenzene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 00:38	SS
107-06-2	1,2-Dichloroethane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 00:38	SS
78-87-5	1,2-Dichloropropane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 00:38	SS
108-67-8	1,3,5-Trimethylbenzene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 00:38	SS
541-73-1	1,3-Dichlorobenzene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 00:38	SS
142-28-9	1,3-Dichloropropane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 00:38	SS
106-46-7	1,4-Dichlorobenzene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 00:38	SS
594-20-7	2,2-Dichloropropane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 00:38	SS
78-93-3	2-Butanone	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 00:38	SS
95-49-8	2-Chlorotoluene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 00:38	SS
106-43-4	4-Chlorotoluene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 00:38	SS
67-64-1	Acetone	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 00:38	SS
71-43-2	Benzene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 00:38	SS
108-86-1	Bromobenzene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 00:38	SS
74-97-5	Bromochloromethane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 00:38	SS
75-27-4	Bromodichloromethane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 00:38	SS
75-25-2	Bromoform	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 00:38	SS
74-83-9	Bromomethane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 00:38	SS
56-23-5	Carbon tetrachloride	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 00:38	SS

Sample Information

Client Sample ID: DUP-1_052313 **York Sample ID:** 13E0868-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0868	170246501	Water	May 23, 2013 3:00 pm	05/24/2013

Volatile Organics, 8260 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-90-7	Chlorobenzene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 00:38	SS
75-00-3	Chloroethane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 00:38	SS
67-66-3	Chloroform	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 00:38	SS
74-87-3	Chloromethane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 00:38	SS
156-59-2	cis-1,2-Dichloroethylene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 00:38	SS
10061-01-5	cis-1,3-Dichloropropylene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 00:38	SS
124-48-1	Dibromochloromethane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 00:38	SS
74-95-3	Dibromomethane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 00:38	SS
75-71-8	Dichlorodifluoromethane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 00:38	SS
100-41-4	Ethyl Benzene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 00:38	SS
87-68-3	Hexachlorobutadiene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 00:38	SS
98-82-8	Isopropylbenzene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 00:38	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 00:38	SS
75-09-2	Methylene chloride	**5.6**		ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 00:38	SS
91-20-3	Naphthalene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 00:38	SS
104-51-8	n-Butylbenzene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 00:38	SS
103-65-1	n-Propylbenzene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 00:38	SS
95-47-6	o-Xylene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 00:38	SS
179601-23-1	p- & m- Xylenes	ND	U	ug/L	5.0	10	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 00:38	SS
99-87-6	p-Isopropyltoluene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 00:38	SS
135-98-8	sec-Butylbenzene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 00:38	SS
100-42-5	Styrene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 00:38	SS
98-06-6	tert-Butylbenzene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 00:38	SS
127-18-4	Tetrachloroethylene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 00:38	SS
108-88-3	Toluene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 00:38	SS
156-60-5	trans-1,2-Dichloroethylene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 00:38	SS
10061-02-6	trans-1,3-Dichloropropylene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 00:38	SS
79-01-6	Trichloroethylene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 00:38	SS
75-69-4	Trichlorofluoromethane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 00:38	SS
75-01-4	Vinyl Chloride	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 00:38	SS
1330-20-7	Xylenes, Total	ND	U	ug/L	7.5	15	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 00:38	SS
108-05-4	Vinyl acetate	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 00:38	SS

Sample Information

Client Sample ID: DUP-1_052313 **York Sample ID:** 13E0868-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0868	170246501	Water	May 23, 2013 3:00 pm	05/24/2013

Volatile Organics, 8260 List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate Recoveries	**Result**			**Acceptance Range**						
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*103 %*			*72.6-129*						
460-00-4	*Surrogate: p-Bromofluorobenzene*	*102 %*			*63.5-145*						
2037-26-5	*Surrogate: Toluene-d8*	*100 %*			*81.2-127*						

Semi-Volatiles, 8270 List - low level

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND		ug/L	0.0166	0.0541	1	EPA SW-846 8270C	05/29/2013 09:10	05/29/2013 14:51	SR
208-96-8	Acenaphthylene	ND		ug/L	0.0282	0.0541	1	EPA SW-846 8270C	05/29/2013 09:10	05/29/2013 14:51	SR
62-53-3	Aniline	ND		ug/L	1.62	5.41	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 13:17	SR
120-12-7	Anthracene	ND		ug/L	0.0184	0.0541	1	EPA SW-846 8270C	05/29/2013 09:10	05/29/2013 14:51	SR
56-55-3	Benzo(a)anthracene	ND		ug/L	0.0119	0.0541	1	EPA SW-846 8270C	05/29/2013 09:10	05/29/2013 14:51	SR
50-32-8	Benzo(a)pyrene	ND		ug/L	0.0162	0.0541	1	EPA SW-846 8270C	05/29/2013 09:10	05/29/2013 14:51	SR
205-99-2	Benzo(b)fluoranthene	ND		ug/L	0.0293	0.0541	1	EPA SW-846 8270C	05/29/2013 09:10	05/29/2013 14:51	SR
100-51-6	Benzyl alcohol	ND		ug/L	1.57	5.41	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 13:17	SR
191-24-2	Benzo(g,h,i)perylene	ND		ug/L	0.0119	0.0541	1	EPA SW-846 8270C	05/29/2013 09:10	05/29/2013 14:51	SR
207-08-9	Benzo(k)fluoranthene	ND		ug/L	0.0200	0.0541	1	EPA SW-846 8270C	05/29/2013 09:10	05/29/2013 14:51	SR
85-68-7	Benzyl butyl phthalate	ND		ug/L	0.921	5.41	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 13:17	SR
101-55-3	4-Bromophenyl phenyl ether	ND		ug/L	1.44	5.41	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 13:17	SR
59-50-7	4-Chloro-3-methylphenol	ND		ug/L	2.04	5.41	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 13:17	SR
106-47-8	4-Chloroaniline	ND		ug/L	3.22	5.41	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 13:17	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/L	1.91	5.41	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 13:17	SR
111-44-4	Bis(2-chloroethyl)ether	ND		ug/L	1.62	5.41	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 13:17	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/L	3.23	5.41	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 13:17	SR
117-81-7	Bis(2-ethylhexyl)phthalate	**0.789**	J	ug/L	0.509	5.41	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 13:17	SR
91-58-7	2-Chloronaphthalene	ND		ug/L	2.38	5.41	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 13:17	SR
95-57-8	2-Chlorophenol	ND		ug/L	1.94	5.41	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 13:17	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/L	2.65	5.41	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 13:17	SR
218-01-9	Chrysene	ND		ug/L	0.0125	0.0541	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 13:17	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/L	0.0429	0.0541	1	EPA SW-846 8270C	05/29/2013 09:10	05/29/2013 14:51	SR
132-64-9	Dibenzofuran	ND		ug/L	2.61	5.41	1	EPA SW-846 8270C	05/29/2013 09:10	05/29/2013 14:51	SR
84-74-2	Di-n-butyl phthalate	ND		ug/L	2.22	5.41	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 13:17	SR
541-73-1	1,3-Dichlorobenzene	ND		ug/L	2.82	5.41	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 13:17	SR

Sample Information

Client Sample ID: DUP-1_052313 **York Sample ID:** 13E0868-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0868	170246501	Water	May 23, 2013 3:00 pm	05/24/2013

Semi-Volatiles, 8270 List - low level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-50-1	1,2-Dichlorobenzene	ND		ug/L	2.69	5.41	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 13:17	SR
106-46-7	1,4-Dichlorobenzene	ND		ug/L	2.39	5.41	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 13:17	SR
91-94-1	3,3'-Dichlorobenzidine	ND		ug/L	1.37	5.41	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 13:17	SR
120-83-2	2,4-Dichlorophenol	ND		ug/L	2.04	5.41	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 13:17	SR
84-66-2	Diethyl phthalate	ND		ug/L	2.77	5.41	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 13:17	SR
105-67-9	2,4-Dimethylphenol	ND		ug/L	1.73	5.41	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 13:17	SR
131-11-3	Dimethyl phthalate	ND		ug/L	2.06	5.41	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 13:17	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/L	1.75	10.8	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 13:17	SR
51-28-5	2,4-Dinitrophenol	ND		ug/L	2.43	10.8	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 13:17	SR
606-20-2	2,6-Dinitrotoluene	ND		ug/L	1.74	5.41	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 13:17	SR
121-14-2	2,4-Dinitrotoluene	ND		ug/L	1.74	5.41	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 13:17	SR
117-84-0	Di-n-octyl phthalate	ND		ug/L	1.21	5.41	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 13:17	SR
206-44-0	Fluoranthene	ND		ug/L	0.0236	0.0541	1	EPA SW-846 8270C	05/29/2013 09:10	05/29/2013 14:51	SR
86-73-7	Fluorene	ND		ug/L	0.0114	0.0541	1	EPA SW-846 8270C	05/29/2013 09:10	05/29/2013 14:51	SR
118-74-1	Hexachlorobenzene	ND		ug/L	1.37	5.41	1	EPA SW-846 8270C	05/29/2013 09:10	05/29/2013 14:51	SR
87-68-3	Hexachlorobutadiene	ND		ug/L	3.02	5.41	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 13:17	SR
77-47-4	Hexachlorocyclopentadiene	ND		ug/L	2.74	5.41	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 13:17	SR
67-72-1	Hexachloroethane	ND		ug/L	3.29	5.41	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 13:17	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/L	0.0146	0.0541	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 13:17	SR
78-59-1	Isophorone	ND		ug/L	2.90	5.41	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 13:17	SR
91-57-6	2-Methylnaphthalene	ND		ug/L	0.0469	5.41	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 13:17	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/L	1.21	5.41	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 13:17	SR
95-48-7	2-Methylphenol	ND		ug/L	1.25	5.41	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 13:17	SR
91-20-3	Naphthalene	ND		ug/L	0.00843	5.41	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 13:17	SR
100-01-6	4-Nitroaniline	ND		ug/L	2.90	5.41	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 13:17	SR
99-09-2	3-Nitroaniline	ND		ug/L	1.82	5.41	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 13:17	SR
88-74-4	2-Nitroaniline	ND		ug/L	1.82	5.41	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 13:17	SR
98-95-3	Nitrobenzene	ND		ug/L	1.83	5.41	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 13:17	SR
88-75-5	2-Nitrophenol	ND		ug/L	2.55	5.41	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 13:17	SR
100-02-7	4-Nitrophenol	ND		ug/L	1.79	5.41	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 13:17	SR
621-64-7	N-nitroso-di-n-propylamine	ND		ug/L	2.77	5.41	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 13:17	SR
62-75-9	N-Nitrosodimethylamine	ND		ug/L	0.421	5.41	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 13:17	SR

Sample Information

Client Sample ID: DUP-1_052313 **York Sample ID:** 13E0868-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0868	170246501	Water	May 23, 2013 3:00 pm	05/24/2013

Semi-Volatiles, 8270 List - low level

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
86-30-6	N-Nitrosodiphenylamine	ND		ug/L	5.41	5.41	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 13:17	SR
87-86-5	Pentachlorophenol	ND		ug/L	1.57	5.41	1	EPA SW-846 8270C	05/29/2013 09:10	05/29/2013 14:51	SR
85-01-8	Phenanthrene	ND		ug/L	0.0541	0.0541	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 13:17	SR
108-95-2	Phenol	ND		ug/L	1.19	5.41	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 13:17	SR
129-00-0	Pyrene	ND		ug/L	0.0257	0.0541	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 13:17	SR
110-86-1	Pyridine	ND		ug/L	4.23	5.41	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 13:17	SR
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	2.67	5.41	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 13:17	SR
88-06-2	2,4,6-Trichlorophenol	ND		ug/L	1.89	5.41	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 13:17	SR
95-95-4	2,4,5-Trichlorophenol	ND		ug/L	2.06	5.41	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 13:17	SR

	Surrogate Recoveries	Result	Acceptance Range
5175-83-7	*Surrogate: 2,4,6-Tribromophenol*	*99.0 %*	*15-110*
321-60-8	*Surrogate: 2-Fluorobiphenyl*	*64.0 %*	*30-130*
367-12-4	*Surrogate: 2-Fluorophenol*	*24.0 %*	*15-110*
4165-60-0	*Surrogate: Nitrobenzene-d5*	*58.3 %*	*30-130*
4165-62-2	*Surrogate: Phenol-d5*	*12.9 %*	*10-110*
1718-51-0	*Surrogate: Terphenyl-d14*	*113 %*	*30-130*

Pesticides/PCBs, EPA 8081/8082 List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
8001-35-2	Toxaphene	ND	U	ug/L	0.0500	0.0500	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/31/2013 11:56	JW
72-43-5	Methoxychlor	ND	U	ug/L	0.00500	0.00500	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/31/2013 11:56	JW
1024-57-3	Heptachlor epoxide	ND	U	ug/L	0.00100	0.00100	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/31/2013 11:56	JW
76-44-8	Heptachlor	ND	U	ug/L	0.00100	0.00100	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/31/2013 11:56	JW
58-89-9	gamma-BHC (Lindane)	ND	U	ug/L	0.00100	0.00100	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/31/2013 11:56	JW
53494-70-5	Endrin ketone	ND	U	ug/L	0.00100	0.00100	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/31/2013 11:56	JW
7421-93-4	Endrin aldehyde	ND	U	ug/L	0.00100	0.00100	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/31/2013 11:56	JW
72-20-8	Endrin	ND	U	ug/L	0.00100	0.00100	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/31/2013 11:56	JW
1031-07-8	Endosulfan sulfate	ND	U	ug/L	0.00100	0.00100	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/31/2013 11:56	JW
33213-65-9	Endosulfan II	ND	U	ug/L	0.00100	0.00100	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/31/2013 11:56	JW
959-98-8	Endosulfan I	ND	U	ug/L	0.00100	0.00100	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/31/2013 11:56	JW
60-57-1	Dieldrin	ND	U	ug/L	0.00100	0.00100	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/31/2013 11:56	JW
319-86-8	delta-BHC	ND	U	ug/L	0.00100	0.00100	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/31/2013 11:56	JW
57-74-9	Chlordane, total	ND	U	ug/L	0.00400	0.00400	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/31/2013 11:56	JW

Sample Information

Client Sample ID: DUP-1_052313 **York Sample ID:** 13E0868-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0868	170246501	Water	May 23, 2013 3:00 pm	05/24/2013

Pesticides/PCBs, EPA 8081/8082 List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
319-85-7	beta-BHC	ND	U	ug/L	0.00100	0.00100	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/31/2013 11:56	JW
319-84-6	alpha-BHC	ND	U	ug/L	0.00100	0.00100	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/31/2013 11:56	JW
309-00-2	Aldrin	ND	U	ug/L	0.00100	0.00100	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/31/2013 11:56	JW
50-29-3	4,4'-DDT	ND	U	ug/L	0.00100	0.00100	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/31/2013 11:56	JW
72-55-9	4,4'-DDE	ND	U	ug/L	0.00100	0.00100	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/31/2013 11:56	JW
72-54-8	4,4'-DDD	ND	U	ug/L	0.00100	0.00100	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/31/2013 11:56	JW
11096-82-5	Aroclor 1260	ND	U	ug/L	0.0500	0.0500	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/30/2013 16:34	JW
11097-69-1	Aroclor 1254	ND	U	ug/L	0.0500	0.0500	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/30/2013 16:34	JW
12672-29-6	Aroclor 1248	ND	U	ug/L	0.0500	0.0500	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/30/2013 16:34	JW
53469-21-9	Aroclor 1242	ND	U	ug/L	0.0500	0.0500	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/30/2013 16:34	JW
11141-16-5	Aroclor 1232	ND	U	ug/L	0.0500	0.0500	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/30/2013 16:34	JW
11104-28-2	Aroclor 1221	ND	U	ug/L	0.0500	0.0500	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/30/2013 16:34	JW
12674-11-2	Aroclor 1016	ND	U	ug/L	0.0500	0.0500	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/30/2013 16:34	JW
1336-36-3	Total PCBs	ND	U	ug/L	0.0500	0.0500	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/30/2013 16:34	JW

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*39.5 %*	*30-150*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*64.3 %*	*30-150*

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	**411**		ug/L	10	10	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 11:17	MW
7440-36-0	Antimony	ND	U	ug/L	3	5	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 11:17	MW
7440-38-2	Arsenic	ND	U	ug/L	4	4	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 11:17	MW
7440-39-3	Barium	**143**		ug/L	2	10	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 11:17	MW
7440-41-7	Beryllium	ND	U	ug/L	1	1	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 11:17	MW
7440-43-9	Cadmium	ND	U	ug/L	2	3	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 11:17	MW
7440-70-2	Calcium	**110000**		ug/L	19	50	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 11:17	MW
7440-47-3	Chromium	ND	U	ug/L	2	5	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 11:17	MW
7440-48-4	Cobalt	ND	U	ug/L	2	5	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 11:17	MW
7440-50-8	Copper	**8**		ug/L	2	5	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 11:17	MW
7439-89-6	Iron	**1450**		ug/L	10	20	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 11:17	MW
7439-92-1	Lead	**3**		ug/L	2	3	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 11:17	MW
7439-95-4	Magnesium	**20500**		ug/L	10	50	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 11:17	MW

Sample Information

Client Sample ID: DUP-1_052313 **York Sample ID:** 13E0868-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0868	170246501	Water	May 23, 2013 3:00 pm	05/24/2013

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-96-5	Manganese	**343**		ug/L	2	5	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 11:17	MW
7440-02-0	Nickel	ND	U	ug/L	1	5	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 11:17	MW
7440-09-7	Potassium	**11000**		ug/L	26	50	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 11:17	MW
7782-49-2	Selenium	ND	U	ug/L	7	10	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 11:17	MW
7440-22-4	Silver	ND	U	ug/L	2	5	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 11:17	MW
7440-23-5	Sodium	**53800**		ug/L	61	100	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 11:17	MW
7440-28-0	Thallium	ND	U	ug/L	3	10	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 11:17	MW
7440-62-2	Vanadium	ND	U	ug/L	2	10	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 11:17	MW
7440-66-6	Zinc	ND	U	ug/L	2	20	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 11:17	MW

Mercury by 7470/7471

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-7470

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND	U	ug/L	0.2	0.2	1	EPA SW846-7470	05/29/2013 13:49	05/30/2013 11:28	AA

Sample Information

Client Sample ID: MW-9_052313 **York Sample ID:** 13E0868-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0868	170246501	Water	May 23, 2013 8:55 am	05/24/2013

Volatile Organics, 8260 List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:18	SS
71-55-6	1,1,1-Trichloroethane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:18	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:18	SS
76-13-1	,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:18	SS
79-00-5	1,1,2-Trichloroethane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:18	SS
75-34-3	1,1-Dichloroethane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:18	SS
75-35-4	1,1-Dichloroethylene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:18	SS
563-58-6	1,1-Dichloropropylene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:18	SS
87-61-6	1,2,3-Trichlorobenzene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:18	SS
96-18-4	1,2,3-Trichloropropane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:18	SS
120-82-1	1,2,4-Trichlorobenzene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:18	SS

Sample Information

Client Sample ID: MW-9_052313 **York Sample ID:** 13E0868-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0868	170246501	Water	May 23, 2013 8:55 am	05/24/2013

Volatile Organics, 8260 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-63-6	1,2,4-Trimethylbenzene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:18	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:18	SS
106-93-4	1,2-Dibromoethane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:18	SS
95-50-1	1,2-Dichlorobenzene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:18	SS
107-06-2	1,2-Dichloroethane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:18	SS
78-87-5	1,2-Dichloropropane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:18	SS
108-67-8	1,3,5-Trimethylbenzene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:18	SS
541-73-1	1,3-Dichlorobenzene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:18	SS
142-28-9	1,3-Dichloropropane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:18	SS
106-46-7	1,4-Dichlorobenzene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:18	SS
594-20-7	2,2-Dichloropropane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:18	SS
78-93-3	2-Butanone	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:18	SS
95-49-8	2-Chlorotoluene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:18	SS
106-43-4	4-Chlorotoluene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:18	SS
67-64-1	Acetone	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:18	SS
71-43-2	Benzene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:18	SS
108-86-1	Bromobenzene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:18	SS
74-97-5	Bromochloromethane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:18	SS
75-27-4	Bromodichloromethane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:18	SS
75-25-2	Bromoform	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:18	SS
74-83-9	Bromomethane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:18	SS
56-23-5	Carbon tetrachloride	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:18	SS
108-90-7	Chlorobenzene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:18	SS
75-00-3	Chloroethane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:18	SS
67-66-3	Chloroform	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:18	SS
74-87-3	Chloromethane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:18	SS
156-59-2	cis-1,2-Dichloroethylene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:18	SS
10061-01-5	cis-1,3-Dichloropropylene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:18	SS
124-48-1	Dibromochloromethane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:18	SS
74-95-3	Dibromomethane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:18	SS
75-71-8	Dichlorodifluoromethane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:18	SS
100-41-4	Ethyl Benzene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:18	SS

Sample Information

Client Sample ID: MW-9_052313 **York Sample ID:** 13E0868-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0868	170246501	Water	May 23, 2013 8:55 am	05/24/2013

Volatile Organics, 8260 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
87-68-3	Hexachlorobutadiene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:18	SS
98-82-8	Isopropylbenzene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:18	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:18	SS
75-09-2	Methylene chloride	**6.3**		ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:18	SS
91-20-3	Naphthalene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:18	SS
104-51-8	n-Butylbenzene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:18	SS
103-65-1	n-Propylbenzene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:18	SS
95-47-6	o-Xylene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:18	SS
179601-23-1	p- & m- Xylenes	ND	U	ug/L	5.0	10	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:18	SS
99-87-6	p-Isopropyltoluene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:18	SS
135-98-8	sec-Butylbenzene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:18	SS
100-42-5	Styrene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:18	SS
98-06-6	tert-Butylbenzene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:18	SS
127-18-4	Tetrachloroethylene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:18	SS
108-88-3	Toluene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:18	SS
156-60-5	trans-1,2-Dichloroethylene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:18	SS
10061-02-6	trans-1,3-Dichloropropylene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:18	SS
79-01-6	Trichloroethylene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:18	SS
75-69-4	Trichlorofluoromethane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:18	SS
75-01-4	Vinyl Chloride	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:18	SS
1330-20-7	Xylenes, Total	ND	U	ug/L	7.5	15	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:18	SS
108-05-4	Vinyl acetate	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:18	SS

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*104 %*	*72.6-129*
460-00-4	*Surrogate: p-Bromofluorobenzene*	*102 %*	*63.5-145*
2037-26-5	*Surrogate: Toluene-d8*	*99.5 %*	*81.2-127*

Sample Information

Client Sample ID: MW-9_052313 **York Sample ID:** 13E0868-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0868	170246501	Water	May 23, 2013 8:55 am	05/24/2013

Semi-Volatiles, 8270 List - low level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND		ug/L	0.0162	0.0526	1	EPA SW-846 8270C	05/29/2013 09:10	05/29/2013 15:20	SR
208-96-8	Acenaphthylene	ND		ug/L	0.0275	0.0526	1	EPA SW-846 8270C	05/29/2013 09:10	05/29/2013 15:20	SR
62-53-3	Aniline	ND		ug/L	1.58	5.26	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 13:48	SR
120-12-7	Anthracene	ND		ug/L	0.0179	0.0526	1	EPA SW-846 8270C	05/29/2013 09:10	05/29/2013 15:20	SR
56-55-3	Benzo(a)anthracene	ND		ug/L	0.0116	0.0526	1	EPA SW-846 8270C	05/29/2013 09:10	05/29/2013 15:20	SR
50-32-8	Benzo(a)pyrene	ND		ug/L	0.0158	0.0526	1	EPA SW-846 8270C	05/29/2013 09:10	05/29/2013 15:20	SR
205-99-2	Benzo(b)fluoranthene	ND		ug/L	0.0285	0.0526	1	EPA SW-846 8270C	05/29/2013 09:10	05/29/2013 15:20	SR
100-51-6	Benzyl alcohol	ND		ug/L	1.53	5.26	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 13:48	SR
191-24-2	Benzo(g,h,i)perylene	ND		ug/L	0.0116	0.0526	1	EPA SW-846 8270C	05/29/2013 09:10	05/29/2013 15:20	SR
207-08-9	Benzo(k)fluoranthene	ND		ug/L	0.0195	0.0526	1	EPA SW-846 8270C	05/29/2013 09:10	05/29/2013 15:20	SR
85-68-7	Benzyl butyl phthalate	ND		ug/L	0.897	5.26	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 13:48	SR
101-55-3	4-Bromophenyl phenyl ether	ND		ug/L	1.40	5.26	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 13:48	SR
59-50-7	4-Chloro-3-methylphenol	ND		ug/L	1.99	5.26	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 13:48	SR
106-47-8	4-Chloroaniline	ND		ug/L	3.14	5.26	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 13:48	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/L	1.86	5.26	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 13:48	SR
111-44-4	Bis(2-chloroethyl)ether	ND		ug/L	1.58	5.26	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 13:48	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/L	3.15	5.26	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 13:48	SR
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/L	0.496	5.26	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 13:48	SR
91-58-7	2-Chloronaphthalene	ND		ug/L	2.32	5.26	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 13:48	SR
95-57-8	2-Chlorophenol	ND		ug/L	1.88	5.26	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 13:48	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/L	2.58	5.26	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 13:48	SR
218-01-9	Chrysene	ND		ug/L	0.0122	0.0526	1	EPA SW-846 8270C	05/29/2013 09:10	05/29/2013 15:20	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/L	0.0418	0.0526	1	EPA SW-846 8270C	05/29/2013 09:10	05/29/2013 15:20	SR
132-64-9	Dibenzofuran	ND		ug/L	2.54	5.26	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 13:48	SR
84-74-2	Di-n-butyl phthalate	ND		ug/L	2.16	5.26	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 13:48	SR
541-73-1	1,3-Dichlorobenzene	ND		ug/L	2.75	5.26	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 13:48	SR
95-50-1	1,2-Dichlorobenzene	ND		ug/L	2.62	5.26	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 13:48	SR
106-46-7	1,4-Dichlorobenzene	ND		ug/L	2.33	5.26	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 13:48	SR
91-94-1	3,3'-Dichlorobenzidine	ND		ug/L	1.34	5.26	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 13:48	SR
120-83-2	2,4-Dichlorophenol	ND		ug/L	1.99	5.26	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 13:48	SR
84-66-2	Diethyl phthalate	ND		ug/L	2.69	5.26	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 13:48	SR
105-67-9	2,4-Dimethylphenol	ND		ug/L	1.68	5.26	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 13:48	SR

Sample Information

Client Sample ID: MW-9_052313 **York Sample ID:** 13E0868-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0868	170246501	Water	May 23, 2013 8:55 am	05/24/2013

Semi-Volatiles, 8270 List - low level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
131-11-3	Dimethyl phthalate	ND		ug/L	2.01	5.26	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 13:48	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/L	1.71	10.5	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 13:48	SR
51-28-5	2,4-Dinitrophenol	ND		ug/L	2.37	10.5	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 13:48	SR
606-20-2	2,6-Dinitrotoluene	ND		ug/L	1.69	5.26	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 13:48	SR
121-14-2	2,4-Dinitrotoluene	ND		ug/L	1.69	5.26	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 13:48	SR
117-84-0	Di-n-octyl phthalate	ND		ug/L	1.18	5.26	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 13:48	SR
206-44-0	Fluoranthene	ND		ug/L	0.0229	0.0526	1	EPA SW-846 8270C	05/29/2013 09:10	05/29/2013 15:20	SR
86-73-7	Fluorene	ND		ug/L	0.0111	0.0526	1	EPA SW-846 8270C	05/29/2013 09:10	05/29/2013 15:20	SR
118-74-1	Hexachlorobenzene	ND		ug/L	1.34	5.26	1	EPA SW-846 8270C	05/29/2013 09:10	05/29/2013 15:20	SR
87-68-3	Hexachlorobutadiene	ND		ug/L	2.94	5.26	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 13:48	SR
77-47-4	Hexachlorocyclopentadiene	ND		ug/L	2.66	5.26	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 13:48	SR
67-72-1	Hexachloroethane	ND		ug/L	3.20	5.26	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 13:48	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/L	0.0142	0.0526	1	EPA SW-846 8270C	05/29/2013 09:10	05/29/2013 15:20	SR
78-59-1	Isophorone	ND		ug/L	2.82	5.26	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 13:48	SR
91-57-6	2-Methylnaphthalene	ND		ug/L	0.0457	5.26	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 13:48	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/L	1.18	5.26	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 13:48	SR
95-48-7	2-Methylphenol	ND		ug/L	1.22	5.26	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 13:48	SR
91-20-3	Naphthalene	ND		ug/L	0.00821	5.26	1	EPA SW-846 8270C	05/29/2013 09:10	05/29/2013 15:20	SR
100-01-6	4-Nitroaniline	ND		ug/L	2.82	5.26	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 13:48	SR
99-09-2	3-Nitroaniline	ND		ug/L	1.77	5.26	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 13:48	SR
88-74-4	2-Nitroaniline	ND		ug/L	1.77	5.26	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 13:48	SR
98-95-3	Nitrobenzene	ND		ug/L	1.78	5.26	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 13:48	SR
88-75-5	2-Nitrophenol	ND		ug/L	2.48	5.26	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 13:48	SR
100-02-7	4-Nitrophenol	ND		ug/L	1.75	5.26	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 13:48	SR
621-64-7	N-nitroso-di-n-propylamine	ND		ug/L	2.69	5.26	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 13:48	SR
62-75-9	N-Nitrosodimethylamine	ND		ug/L	0.409	5.26	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 13:48	SR
86-30-6	N-Nitrosodiphenylamine	ND		ug/L	5.26	5.26	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 13:48	SR
87-86-5	Pentachlorophenol	ND		ug/L	1.53	5.26	1	EPA SW-846 8270C	05/29/2013 09:10	05/29/2013 15:20	SR
85-01-8	Phenanthrene	ND		ug/L	0.0526	0.0526	1	EPA SW-846 8270C	05/29/2013 09:10	05/29/2013 15:20	SR
108-95-2	Phenol	ND		ug/L	1.16	5.26	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 13:48	SR
129-00-0	Pyrene	ND		ug/L	0.0251	0.0526	1	EPA SW-846 8270C	05/29/2013 09:10	05/29/2013 15:20	SR
110-86-1	Pyridine	ND		ug/L	4.12	5.26	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 13:48	SR

Sample Information

Client Sample ID: MW-9_052313 **York Sample ID:** 13E0868-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0868	170246501	Water	May 23, 2013 8:55 am	05/24/2013

Semi-Volatiles, 8270 List - low level

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	2.60	5.26	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 13:48	SR
88-06-2	2,4,6-Trichlorophenol	ND		ug/L	1.84	5.26	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 13:48	SR
95-95-4	2,4,5-Trichlorophenol	ND		ug/L	2.01	5.26	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 13:48	SR

	Surrogate Recoveries	Result	Acceptance Range
5175-83-7	*Surrogate: 2,4,6-Tribromophenol*	*89.3 %*	*15-110*
321-60-8	*Surrogate: 2-Fluorobiphenyl*	*68.4 %*	*30-130*
367-12-4	*Surrogate: 2-Fluorophenol*	*28.1 %*	*15-110*
4165-60-0	*Surrogate: Nitrobenzene-d5*	*65.9 %*	*30-130*
4165-62-2	*Surrogate: Phenol-d5*	*15.6 %*	*10-110*
1718-51-0	*Surrogate: Terphenyl-d14*	*102 %*	*30-130*

Pesticides/PCBs, EPA 8081/8082 List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
8001-35-2	Toxaphene	ND	U	ug/L	0.0541	0.0541	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/31/2013 12:11	JW
72-43-5	Methoxychlor	ND	U	ug/L	0.00541	0.00541	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/31/2013 12:11	JW
1024-57-3	Heptachlor epoxide	ND	U	ug/L	0.00108	0.00108	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/31/2013 12:11	JW
76-44-8	Heptachlor	ND	U	ug/L	0.00108	0.00108	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/31/2013 12:11	JW
58-89-9	gamma-BHC (Lindane)	ND	U	ug/L	0.00108	0.00108	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/31/2013 12:11	JW
53494-70-5	Endrin ketone	ND	U	ug/L	0.00108	0.00108	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/31/2013 12:11	JW
7421-93-4	Endrin aldehyde	ND	U	ug/L	0.00108	0.00108	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/31/2013 12:11	JW
72-20-8	Endrin	ND	U	ug/L	0.00108	0.00108	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/31/2013 12:11	JW
1031-07-8	Endosulfan sulfate	ND	U	ug/L	0.00108	0.00108	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/31/2013 12:11	JW
33213-65-9	Endosulfan II	ND	U	ug/L	0.00108	0.00108	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/31/2013 12:11	JW
959-98-8	Endosulfan I	ND	U	ug/L	0.00108	0.00108	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/31/2013 12:11	JW
60-57-1	Dieldrin	ND	U	ug/L	0.00108	0.00108	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/31/2013 12:11	JW
319-86-8	delta-BHC	ND	U	ug/L	0.00108	0.00108	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/31/2013 12:11	JW
57-74-9	Chlordane, total	ND	U	ug/L	0.00432	0.00432	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/31/2013 12:11	JW
319-85-7	beta-BHC	ND	U	ug/L	0.00108	0.00108	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/31/2013 12:11	JW
319-84-6	alpha-BHC	ND	U	ug/L	0.00108	0.00108	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/31/2013 12:11	JW
309-00-2	Aldrin	ND	U	ug/L	0.00108	0.00108	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/31/2013 12:11	JW
50-29-3	4,4'-DDT	ND	U	ug/L	0.00108	0.00108	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/31/2013 12:11	JW
72-55-9	4,4'-DDE	ND	U	ug/L	0.00108	0.00108	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/31/2013 12:11	JW
72-54-8	4,4'-DDD	ND	U	ug/L	0.00108	0.00108	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/31/2013 12:11	JW

Sample Information

Client Sample ID: MW-9_052313 **York Sample ID:** 13E0868-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0868	170246501	Water	May 23, 2013 8:55 am	05/24/2013

Pesticides/PCBs, EPA 8081/8082 List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
11096-82-5	Aroclor 1260	ND	U	ug/L	0.0541	0.0541	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/30/2013 17:04	JW
11097-69-1	Aroclor 1254	ND	U	ug/L	0.0541	0.0541	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/30/2013 17:04	JW
12672-29-6	Aroclor 1248	ND	U	ug/L	0.0541	0.0541	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/30/2013 17:04	JW
53469-21-9	Aroclor 1242	ND	U	ug/L	0.0541	0.0541	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/30/2013 17:04	JW
11141-16-5	Aroclor 1232	ND	U	ug/L	0.0541	0.0541	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/30/2013 17:04	JW
11104-28-2	Aroclor 1221	ND	U	ug/L	0.0541	0.0541	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/30/2013 17:04	JW
12674-11-2	Aroclor 1016	ND	U	ug/L	0.0541	0.0541	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/30/2013 17:04	JW
1336-36-3	Total PCBs	ND	U	ug/L	0.0541	0.0541	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/30/2013 17:04	JW

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*36.7 %*	*30-150*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*49.9 %*	*30-150*

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	**78**		ug/L	10	10	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 11:22	MW
7440-36-0	Antimony	ND	U	ug/L	3	5	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 11:22	MW
7440-38-2	Arsenic	ND	U	ug/L	4	4	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 11:22	MW
7440-39-3	Barium	**72**		ug/L	2	10	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 11:22	MW
7440-41-7	Beryllium	ND	U	ug/L	1	1	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 11:22	MW
7440-43-9	Cadmium	ND	U	ug/L	2	3	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 11:22	MW
7440-70-2	Calcium	**103000**		ug/L	19	50	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 11:22	MW
7440-47-3	Chromium	ND	U	ug/L	2	5	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 11:22	MW
7440-48-4	Cobalt	ND	U	ug/L	2	5	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 11:22	MW
7440-50-8	Copper	ND	U	ug/L	2	5	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 11:22	MW
7439-89-6	Iron	**211**		ug/L	10	20	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 11:22	MW
7439-92-1	Lead	**3**		ug/L	2	3	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 11:22	MW
7439-95-4	Magnesium	**25800**		ug/L	10	50	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 11:22	MW
7439-96-5	Manganese	**315**		ug/L	2	5	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 11:22	MW
7440-02-0	Nickel	ND	U	ug/L	1	5	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 11:22	MW
7440-09-7	Potassium	**12100**		ug/L	26	50	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 11:22	MW
7782-49-2	Selenium	ND	U	ug/L	7	10	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 11:22	MW
7440-22-4	Silver	ND	U	ug/L	2	5	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 11:22	MW
7440-23-5	Sodium	**71400**		ug/L	61	100	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 11:22	MW

Sample Information

Client Sample ID: MW-9_052313 **York Sample ID:** 13E0868-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0868	170246501	Water	May 23, 2013 8:55 am	05/24/2013

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-28-0	Thallium	ND	U	ug/L	3	10	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 11:22	MW
7440-62-2	Vanadium	ND	U	ug/L	2	10	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 11:22	MW
7440-66-6	Zinc	**21**		ug/L	2	20	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 11:22	MW

Mercury by 7470/7471

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-7470

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND	U	ug/L	0.2	0.2	1	EPA SW846-7470	05/29/2013 13:49	05/30/2013 11:28	AA

Sample Information

Client Sample ID: MW-6_052313 **York Sample ID:** 13E0868-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0868	170246501	Water	May 23, 2013 10:00 am	05/24/2013

Volatile Organics, 8260 List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:58	SS
71-55-6	1,1,1-Trichloroethane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:58	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:58	SS
76-13-1	,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:58	SS
79-00-5	1,1,2-Trichloroethane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:58	SS
75-34-3	1,1-Dichloroethane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:58	SS
75-35-4	1,1-Dichloroethylene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:58	SS
563-58-6	1,1-Dichloropropylene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:58	SS
87-61-6	1,2,3-Trichlorobenzene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:58	SS
96-18-4	1,2,3-Trichloropropane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:58	SS
120-82-1	1,2,4-Trichlorobenzene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:58	SS
95-63-6	1,2,4-Trimethylbenzene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:58	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:58	SS
106-93-4	1,2-Dibromoethane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:58	SS
95-50-1	1,2-Dichlorobenzene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:58	SS
107-06-2	1,2-Dichloroethane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:58	SS

Sample Information

Client Sample ID: MW-6_052313 **York Sample ID:** 13E0868-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0868	170246501	Water	May 23, 2013 10:00 am	05/24/2013

Volatile Organics, 8260 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
78-87-5	1,2-Dichloropropane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:58	SS
108-67-8	1,3,5-Trimethylbenzene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:58	SS
541-73-1	1,3-Dichlorobenzene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:58	SS
142-28-9	1,3-Dichloropropane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:58	SS
106-46-7	1,4-Dichlorobenzene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:58	SS
594-20-7	2,2-Dichloropropane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:58	SS
78-93-3	2-Butanone	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:58	SS
95-49-8	2-Chlorotoluene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:58	SS
106-43-4	4-Chlorotoluene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:58	SS
67-64-1	Acetone	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:58	SS
71-43-2	Benzene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:58	SS
108-86-1	Bromobenzene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:58	SS
74-97-5	Bromochloromethane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:58	SS
75-27-4	Bromodichloromethane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:58	SS
75-25-2	Bromoform	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:58	SS
74-83-9	Bromomethane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:58	SS
56-23-5	Carbon tetrachloride	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:58	SS
108-90-7	Chlorobenzene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:58	SS
75-00-3	Chloroethane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:58	SS
67-66-3	Chloroform	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:58	SS
74-87-3	Chloromethane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:58	SS
156-59-2	cis-1,2-Dichloroethylene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:58	SS
10061-01-5	cis-1,3-Dichloropropylene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:58	SS
124-48-1	Dibromochloromethane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:58	SS
74-95-3	Dibromomethane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:58	SS
75-71-8	Dichlorodifluoromethane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:58	SS
100-41-4	Ethyl Benzene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:58	SS
87-68-3	Hexachlorobutadiene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:58	SS
98-82-8	Isopropylbenzene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:58	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:58	SS
75-09-2	Methylene chloride	**6.2**		ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:58	SS
91-20-3	Naphthalene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:58	SS

Sample Information

Client Sample ID: MW-6_052313 **York Sample ID:** 13E0868-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0868	170246501	Water	May 23, 2013 10:00 am	05/24/2013

Volatile Organics, 8260 List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
104-51-8	n-Butylbenzene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:58	SS
103-65-1	n-Propylbenzene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:58	SS
95-47-6	o-Xylene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:58	SS
179601-23-1	p- & m- Xylenes	ND	U	ug/L	5.0	10	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:58	SS
99-87-6	p-Isopropyltoluene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:58	SS
135-98-8	sec-Butylbenzene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:58	SS
100-42-5	Styrene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:58	SS
98-06-6	tert-Butylbenzene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:58	SS
127-18-4	Tetrachloroethylene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:58	SS
108-88-3	Toluene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:58	SS
156-60-5	trans-1,2-Dichloroethylene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:58	SS
10061-02-6	trans-1,3-Dichloropropylene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:58	SS
79-01-6	Trichloroethylene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:58	SS
75-69-4	Trichlorofluoromethane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:58	SS
75-01-4	Vinyl Chloride	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:58	SS
1330-20-7	Xylenes, Total	ND	U	ug/L	7.5	15	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:58	SS
108-05-4	Vinyl acetate	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 01:58	SS

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*103 %*	*72.6-129*
460-00-4	*Surrogate: p-Bromofluorobenzene*	*99.4 %*	*63.5-145*
2037-26-5	*Surrogate: Toluene-d8*	*101 %*	*81.2-127*

Semi-Volatiles, 8270 List - low level

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND		ug/L	0.0220	0.0714	1	EPA SW-846 8270C	05/29/2013 09:10	05/29/2013 15:48	SR
208-96-8	Acenaphthylene	ND		ug/L	0.0373	0.0714	1	EPA SW-846 8270C	05/29/2013 09:10	05/29/2013 15:48	SR
62-53-3	Aniline	ND		ug/L	2.14	7.14	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 14:20	SR
120-12-7	Anthracene	ND		ug/L	0.0243	0.0714	1	EPA SW-846 8270C	05/29/2013 09:10	05/29/2013 15:48	SR
56-55-3	Benzo(a)anthracene	ND		ug/L	0.0157	0.0714	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 14:20	SR
50-32-8	Benzo(a)pyrene	ND		ug/L	0.0214	0.0714	1	EPA SW-846 8270C	05/29/2013 09:10	05/29/2013 15:48	SR
205-99-2	Benzo(b)fluoranthene	ND		ug/L	0.0387	0.0714	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 14:20	SR
100-51-6	Benzyl alcohol	ND		ug/L	2.07	7.14	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 14:20	SR
191-24-2	Benzo(g,h,i)perylene	ND		ug/L	0.0157	0.0714	1	EPA SW-846 8270C	05/29/2013 09:10	05/29/2013 15:48	SR

Sample Information

Client Sample ID: MW-6_052313 **York Sample ID:** 13E0868-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0868	170246501	Water	May 23, 2013 10:00 am	05/24/2013

Semi-Volatiles, 8270 List - low level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
207-08-9	Benzo(k)fluoranthene	ND		ug/L	0.0264	0.0714	1	EPA SW-846 8270C	05/29/2013 09:10	05/29/2013 15:48	SR
85-68-7	Benzyl butyl phthalate	ND		ug/L	1.22	7.14	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 14:20	SR
101-55-3	4-Bromophenyl phenyl ether	ND		ug/L	1.90	7.14	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 14:20	SR
59-50-7	4-Chloro-3-methylphenol	ND		ug/L	2.70	7.14	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 14:20	SR
106-47-8	4-Chloroaniline	ND		ug/L	4.26	7.14	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 14:20	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/L	2.53	7.14	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 14:20	SR
111-44-4	Bis(2-chloroethyl)ether	ND		ug/L	2.14	7.14	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 14:20	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/L	4.27	7.14	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 14:20	SR
117-81-7	Bis(2-ethylhexyl)phthalate	**0.943**	J	ug/L	0.673	7.14	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 14:20	SR
91-58-7	2-Chloronaphthalene	ND		ug/L	3.14	7.14	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 14:20	SR
95-57-8	2-Chlorophenol	ND		ug/L	2.56	7.14	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 14:20	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/L	3.50	7.14	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 14:20	SR
218-01-9	Chrysene	ND		ug/L	0.0166	0.0714	1	EPA SW-846 8270C	05/29/2013 09:10	05/29/2013 15:48	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/L	0.0567	0.0714	1	EPA SW-846 8270C	05/29/2013 09:10	05/29/2013 15:48	SR
132-64-9	Dibenzofuran	ND		ug/L	3.44	7.14	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 14:20	SR
84-74-2	Di-n-butyl phthalate	ND		ug/L	2.93	7.14	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 14:20	SR
95-50-1	1,2-Dichlorobenzene	ND		ug/L	3.56	7.14	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 14:20	SR
541-73-1	1,3-Dichlorobenzene	ND		ug/L	3.73	7.14	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 14:20	SR
106-46-7	1,4-Dichlorobenzene	ND		ug/L	3.16	7.14	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 14:20	SR
91-94-1	3,3'-Dichlorobenzidine	ND		ug/L	1.81	7.14	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 14:20	SR
120-83-2	2,4-Dichlorophenol	ND		ug/L	2.70	7.14	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 14:20	SR
84-66-2	Diethyl phthalate	ND		ug/L	3.66	7.14	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 14:20	SR
105-67-9	2,4-Dimethylphenol	ND		ug/L	2.29	7.14	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 14:20	SR
131-11-3	Dimethyl phthalate	ND		ug/L	2.73	7.14	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 14:20	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/L	2.31	14.3	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 14:20	SR
51-28-5	2,4-Dinitrophenol	ND		ug/L	3.21	14.3	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 14:20	SR
606-20-2	2,6-Dinitrotoluene	ND		ug/L	2.30	7.14	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 14:20	SR
121-14-2	2,4-Dinitrotoluene	ND		ug/L	2.30	7.14	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 14:20	SR
117-84-0	Di-n-octyl phthalate	ND		ug/L	1.60	7.14	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 14:20	SR
206-44-0	Fluoranthene	ND		ug/L	0.0311	0.0714	1	EPA SW-846 8270C	05/29/2013 09:10	05/29/2013 15:48	SR
86-73-7	Fluorene	ND		ug/L	0.0150	0.0714	1	EPA SW-846 8270C	05/29/2013 09:10	05/29/2013 15:48	SR
118-74-1	Hexachlorobenzene	ND		ug/L	1.81	7.14	1	EPA SW-846 8270C	05/29/2013 09:10	05/29/2013 15:48	SR

Sample Information

Client Sample ID: MW-6_052313 **York Sample ID:** 13E0868-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0868	170246501	Water	May 23, 2013 10:00 am	05/24/2013

Semi-Volatiles, 8270 List - low level **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
87-68-3	Hexachlorobutadiene	ND		ug/L	3.99	7.14	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 14:20	SR
77-47-4	Hexachlorocyclopentadiene	ND		ug/L	3.61	7.14	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 14:20	SR
67-72-1	Hexachloroethane	ND		ug/L	4.34	7.14	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 14:20	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/L	0.0193	0.0714	1	EPA SW-846 8270C	05/29/2013 09:10	05/29/2013 15:48	SR
78-59-1	Isophorone	ND		ug/L	3.83	7.14	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 14:20	SR
91-57-6	2-Methylnaphthalene	ND		ug/L	0.0620	7.14	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 14:20	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/L	1.60	7.14	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 14:20	SR
95-48-7	2-Methylphenol	ND		ug/L	1.66	7.14	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 14:20	SR
91-20-3	Naphthalene	ND		ug/L	0.0111	7.14	1	EPA SW-846 8270C	05/29/2013 09:10	05/29/2013 15:48	SR
100-01-6	4-Nitroaniline	ND		ug/L	3.83	7.14	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 14:20	SR
99-09-2	3-Nitroaniline	ND		ug/L	2.40	7.14	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 14:20	SR
88-74-4	2-Nitroaniline	ND		ug/L	2.40	7.14	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 14:20	SR
98-95-3	Nitrobenzene	ND		ug/L	2.41	7.14	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 14:20	SR
88-75-5	2-Nitrophenol	ND		ug/L	3.37	7.14	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 14:20	SR
100-02-7	4-Nitrophenol	ND		ug/L	2.37	7.14	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 14:20	SR
621-64-7	N-nitroso-di-n-propylamine	ND		ug/L	3.66	7.14	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 14:20	SR
62-75-9	N-Nitrosodimethylamine	ND		ug/L	0.556	7.14	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 14:20	SR
86-30-6	N-Nitrosodiphenylamine	ND		ug/L	7.14	7.14	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 14:20	SR
87-86-5	Pentachlorophenol	ND		ug/L	2.07	7.14	1	EPA SW-846 8270C	05/29/2013 09:10	05/29/2013 15:48	SR
85-01-8	Phenanthrene	ND		ug/L	0.0714	0.0714	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 14:20	SR
108-95-2	Phenol	ND		ug/L	1.57	7.14	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 14:20	SR
129-00-0	Pyrene	ND		ug/L	0.0340	0.0714	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 14:20	SR
110-86-1	Pyridine	ND		ug/L	5.59	7.14	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 14:20	SR
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	3.53	7.14	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 14:20	SR
88-06-2	2,4,6-Trichlorophenol	ND		ug/L	2.50	7.14	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 14:20	SR
95-95-4	2,4,5-Trichlorophenol	ND		ug/L	2.73	7.14	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 14:20	SR

	Surrogate Recoveries	Result	Acceptance Range
5175-83-7	*Surrogate: 2,4,6-Tribromophenol*	*94.2 %*	*15-110*
321-60-8	*Surrogate: 2-Fluorobiphenyl*	*73.0 %*	*30-130*
367-12-4	*Surrogate: 2-Fluorophenol*	*34.4 %*	*15-110*
4165-60-0	*Surrogate: Nitrobenzene-d5*	*70.6 %*	*30-130*
4165-62-2	*Surrogate: Phenol-d5*	*19.1 %*	*10-110*
1718-51-0	*Surrogate: Terphenyl-d14*	*108 %*	*30-130*

Sample Information

Client Sample ID: MW-6_052313 **York Sample ID:** 13E0868-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0868	170246501	Water	May 23, 2013 10:00 am	05/24/2013

Pesticides/PCBs, EPA 8081/8082 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
8001-35-2	Toxaphene	ND	U	ug/L	0.0556	0.0556	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/31/2013 12:26	JW
72-43-5	Methoxychlor	ND	U	ug/L	0.00556	0.00556	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/31/2013 12:26	JW
1024-57-3	Heptachlor epoxide	ND	U	ug/L	0.00111	0.00111	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/31/2013 12:26	JW
76-44-8	Heptachlor	ND	U	ug/L	0.00111	0.00111	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/31/2013 12:26	JW
58-89-9	gamma-BHC (Lindane)	ND	U	ug/L	0.00111	0.00111	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/31/2013 12:26	JW
53494-70-5	Endrin ketone	ND	U	ug/L	0.00111	0.00111	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/31/2013 12:26	JW
7421-93-4	Endrin aldehyde	ND	U	ug/L	0.00111	0.00111	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/31/2013 12:26	JW
72-20-8	Endrin	ND	U	ug/L	0.00111	0.00111	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/31/2013 12:26	JW
1031-07-8	Endosulfan sulfate	ND	U	ug/L	0.00111	0.00111	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/31/2013 12:26	JW
33213-65-9	Endosulfan II	ND	U	ug/L	0.00111	0.00111	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/31/2013 12:26	JW
959-98-8	Endosulfan I	ND	U	ug/L	0.00111	0.00111	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/31/2013 12:26	JW
60-57-1	Dieldrin	ND	U	ug/L	0.00111	0.00111	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/31/2013 12:26	JW
319-86-8	delta-BHC	ND	U	ug/L	0.00111	0.00111	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/31/2013 12:26	JW
57-74-9	Chlordane, total	ND	U	ug/L	0.00444	0.00444	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/31/2013 12:26	JW
319-85-7	beta-BHC	ND	U	ug/L	0.00111	0.00111	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/31/2013 12:26	JW
319-84-6	alpha-BHC	ND	U	ug/L	0.00111	0.00111	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/31/2013 12:26	JW
309-00-2	Aldrin	ND	U	ug/L	0.00111	0.00111	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/31/2013 12:26	JW
50-29-3	4,4'-DDT	ND	U	ug/L	0.00111	0.00111	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/31/2013 12:26	JW
72-55-9	4,4'-DDE	ND	U	ug/L	0.00111	0.00111	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/31/2013 12:26	JW
72-54-8	4,4'-DDD	ND	U	ug/L	0.00111	0.00111	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/31/2013 12:26	JW
11096-82-5	Aroclor 1260	ND	U	ug/L	0.0556	0.0556	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/30/2013 17:33	JW
11097-69-1	Aroclor 1254	ND	U	ug/L	0.0556	0.0556	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/30/2013 17:33	JW
12672-29-6	Aroclor 1248	ND	U	ug/L	0.0556	0.0556	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/30/2013 17:33	JW
53469-21-9	Aroclor 1242	ND	U	ug/L	0.0556	0.0556	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/30/2013 17:33	JW
11141-16-5	Aroclor 1232	ND	U	ug/L	0.0556	0.0556	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/30/2013 17:33	JW
11104-28-2	Aroclor 1221	ND	U	ug/L	0.0556	0.0556	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/30/2013 17:33	JW
12674-11-2	Aroclor 1016	ND	U	ug/L	0.0556	0.0556	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/30/2013 17:33	JW
1336-36-3	Total PCBs	ND	U	ug/L	0.0556	0.0556	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/30/2013 17:33	JW

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*30.7 %*	*30-150*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*44.7 %*	*30-150*

Sample Information

Client Sample ID: MW-6_052313 **York Sample ID:** 13E0868-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0868	170246501	Water	May 23, 2013 10:00 am	05/24/2013

Metals, Target Analyte **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	**259**		ug/L	10	10	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 11:27	MW
7440-36-0	Antimony	ND	U	ug/L	3	5	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 11:27	MW
7440-38-2	Arsenic	ND	U	ug/L	4	4	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 11:27	MW
7440-39-3	Barium	**79**		ug/L	2	10	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 11:27	MW
7440-41-7	Beryllium	ND	U	ug/L	1	1	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 11:27	MW
7440-43-9	Cadmium	ND	U	ug/L	2	3	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 11:27	MW
7440-70-2	Calcium	**87000**		ug/L	19	50	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 11:27	MW
7440-47-3	Chromium	ND	U	ug/L	2	5	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 11:27	MW
7440-48-4	Cobalt	ND	U	ug/L	2	5	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 11:27	MW
7440-50-8	Copper	ND	U	ug/L	2	5	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 11:27	MW
7439-89-6	Iron	**529**		ug/L	10	20	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 11:27	MW
7439-92-1	Lead	ND	U	ug/L	2	3	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 11:27	MW
7439-95-4	Magnesium	**26700**		ug/L	10	50	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 11:27	MW
7439-96-5	Manganese	**352**		ug/L	2	5	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 11:27	MW
7440-02-0	Nickel	**6**		ug/L	1	5	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 11:27	MW
7440-09-7	Potassium	**13200**		ug/L	26	50	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 11:27	MW
7782-49-2	Selenium	ND	U	ug/L	7	10	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 11:27	MW
7440-22-4	Silver	ND	U	ug/L	2	5	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 11:27	MW
7440-23-5	Sodium	**47200**		ug/L	61	100	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 11:27	MW
7440-28-0	Thallium	ND	U	ug/L	3	10	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 11:27	MW
7440-62-2	Vanadium	ND	U	ug/L	2	10	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 11:27	MW
7440-66-6	Zinc	ND	U	ug/L	2	20	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 11:27	MW

Mercury by 7470/7471 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA SW846-7470

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND	U	ug/L	0.2	0.2	1	EPA SW846-7470	05/29/2013 13:49	05/30/2013 11:28	AA

Sample Information

Client Sample ID: MW-7_052313 **York Sample ID:** 13E0868-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0868	170246501	Water	May 23, 2013 1:30 pm	05/24/2013

Volatile Organics, 8260 List **Log-in Notes:** **Sample Notes:**

Sample Information

Client Sample ID: MW-7_052313 **York Sample ID:** 13E0868-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0868	170246501	Water	May 23, 2013 1:30 pm	05/24/2013

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 02:37	SS
71-55-6	1,1,1-Trichloroethane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 02:37	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 02:37	SS
76-13-1	,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 02:37	SS
79-00-5	1,1,2-Trichloroethane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 02:37	SS
75-34-3	1,1-Dichloroethane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 02:37	SS
75-35-4	1,1-Dichloroethylene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 02:37	SS
563-58-6	1,1-Dichloropropylene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 02:37	SS
87-61-6	1,2,3-Trichlorobenzene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 02:37	SS
96-18-4	1,2,3-Trichloropropane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 02:37	SS
120-82-1	1,2,4-Trichlorobenzene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 02:37	SS
95-63-6	1,2,4-Trimethylbenzene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 02:37	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 02:37	SS
106-93-4	1,2-Dibromoethane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 02:37	SS
95-50-1	1,2-Dichlorobenzene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 02:37	SS
107-06-2	1,2-Dichloroethane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 02:37	SS
78-87-5	1,2-Dichloropropane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 02:37	SS
108-67-8	1,3,5-Trimethylbenzene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 02:37	SS
541-73-1	1,3-Dichlorobenzene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 02:37	SS
142-28-9	1,3-Dichloropropane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 02:37	SS
106-46-7	1,4-Dichlorobenzene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 02:37	SS
594-20-7	2,2-Dichloropropane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 02:37	SS
78-93-3	2-Butanone	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 02:37	SS
95-49-8	2-Chlorotoluene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 02:37	SS
106-43-4	4-Chlorotoluene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 02:37	SS
67-64-1	Acetone	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 02:37	SS
71-43-2	Benzene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 02:37	SS
108-86-1	Bromobenzene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 02:37	SS
74-97-5	Bromochloromethane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 02:37	SS
75-27-4	Bromodichloromethane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 02:37	SS
75-25-2	Bromoform	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 02:37	SS
74-83-9	Bromomethane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 02:37	SS
56-23-5	Carbon tetrachloride	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 02:37	SS

Sample Information

Client Sample ID: MW-7_052313 **York Sample ID:** 13E0868-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0868	170246501	Water	May 23, 2013 1:30 pm	05/24/2013

Volatile Organics, 8260 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-90-7	Chlorobenzene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 02:37	SS
75-00-3	Chloroethane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 02:37	SS
67-66-3	Chloroform	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 02:37	SS
74-87-3	Chloromethane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 02:37	SS
156-59-2	cis-1,2-Dichloroethylene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 02:37	SS
10061-01-5	cis-1,3-Dichloropropylene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 02:37	SS
124-48-1	Dibromochloromethane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 02:37	SS
74-95-3	Dibromomethane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 02:37	SS
75-71-8	Dichlorodifluoromethane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 02:37	SS
100-41-4	Ethyl Benzene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 02:37	SS
87-68-3	Hexachlorobutadiene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 02:37	SS
98-82-8	Isopropylbenzene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 02:37	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 02:37	SS
75-09-2	Methylene chloride	**7.3**		ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 02:37	SS
91-20-3	Naphthalene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 02:37	SS
104-51-8	n-Butylbenzene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 02:37	SS
103-65-1	n-Propylbenzene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 02:37	SS
95-47-6	o-Xylene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 02:37	SS
179601-23-1	p- & m- Xylenes	ND	U	ug/L	5.0	10	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 02:37	SS
99-87-6	p-Isopropyltoluene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 02:37	SS
135-98-8	sec-Butylbenzene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 02:37	SS
100-42-5	Styrene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 02:37	SS
98-06-6	tert-Butylbenzene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 02:37	SS
127-18-4	Tetrachloroethylene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 02:37	SS
108-88-3	Toluene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 02:37	SS
156-60-5	trans-1,2-Dichloroethylene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 02:37	SS
10061-02-6	trans-1,3-Dichloropropylene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 02:37	SS
79-01-6	Trichloroethylene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 02:37	SS
75-69-4	Trichlorofluoromethane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 02:37	SS
75-01-4	Vinyl Chloride	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 02:37	SS
1330-20-7	Xylenes, Total	ND	U	ug/L	7.5	15	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 02:37	SS
108-05-4	Vinyl acetate	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 02:37	SS

Sample Information

Client Sample ID: MW-7_052313 **York Sample ID:** 13E0868-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0868	170246501	Water	May 23, 2013 1:30 pm	05/24/2013

Volatile Organics, 8260 List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate Recoveries	**Result**			**Acceptance Range**						
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*105 %*			*72.6-129*						
460-00-4	*Surrogate: p-Bromofluorobenzene*	*97.4 %*			*63.5-145*						
2037-26-5	*Surrogate: Toluene-d8*	*99.7 %*			*81.2-127*						

Semi-Volatiles, 8270 List - low level

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND		ug/L	0.0187	0.0606	1	EPA SW-846 8270C	05/29/2013 09:10	05/29/2013 16:17	SR
208-96-8	Acenaphthylene	ND		ug/L	0.0316	0.0606	1	EPA SW-846 8270C	05/29/2013 09:10	05/29/2013 16:17	SR
62-53-3	Aniline	ND		ug/L	1.82	6.06	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 14:51	SR
120-12-7	Anthracene	ND		ug/L	0.0206	0.0606	1	EPA SW-846 8270C	05/29/2013 09:10	05/29/2013 16:17	SR
56-55-3	Benzo(a)anthracene	ND		ug/L	0.0133	0.0606	1	EPA SW-846 8270C	05/29/2013 09:10	05/29/2013 16:17	SR
50-32-8	Benzo(a)pyrene	ND		ug/L	0.0182	0.0606	1	EPA SW-846 8270C	05/29/2013 09:10	05/29/2013 16:17	SR
205-99-2	Benzo(b)fluoranthene	ND		ug/L	0.0328	0.0606	1	EPA SW-846 8270C	05/29/2013 09:10	05/29/2013 16:17	SR
100-51-6	Benzyl alcohol	ND		ug/L	1.76	6.06	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 14:51	SR
191-24-2	Benzo(g,h,i)perylene	ND		ug/L	0.0133	0.0606	1	EPA SW-846 8270C	05/29/2013 09:10	05/29/2013 16:17	SR
207-08-9	Benzo(k)fluoranthene	ND		ug/L	0.0224	0.0606	1	EPA SW-846 8270C	05/29/2013 09:10	05/29/2013 16:17	SR
85-68-7	Benzyl butyl phthalate	ND		ug/L	1.03	6.06	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 14:51	SR
101-55-3	4-Bromophenyl phenyl ether	ND		ug/L	1.61	6.06	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 14:51	SR
59-50-7	4-Chloro-3-methylphenol	ND		ug/L	2.29	6.06	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 14:51	SR
106-47-8	4-Chloroaniline	ND		ug/L	3.61	6.06	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 14:51	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/L	2.15	6.06	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 14:51	SR
111-44-4	Bis(2-chloroethyl)ether	ND		ug/L	1.82	6.06	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 14:51	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/L	3.62	6.06	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 14:51	SR
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/L	0.571	6.06	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 14:51	SR
91-58-7	2-Chloronaphthalene	ND		ug/L	2.67	6.06	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 14:51	SR
95-57-8	2-Chlorophenol	ND		ug/L	2.17	6.06	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 14:51	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/L	2.97	6.06	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 14:51	SR
218-01-9	Chrysene	ND		ug/L	0.0141	0.0606	1	EPA SW-846 8270C	05/29/2013 09:10	05/29/2013 16:17	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/L	0.0481	0.0606	1	EPA SW-846 8270C	05/29/2013 09:10	05/29/2013 16:17	SR
132-64-9	Dibenzofuran	ND		ug/L	2.92	6.06	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 14:51	SR
84-74-2	Di-n-butyl phthalate	ND		ug/L	2.48	6.06	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 14:51	SR
95-50-1	1,2-Dichlorobenzene	ND		ug/L	3.02	6.06	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 14:51	SR

Sample Information

Client Sample ID: MW-7_052313 **York Sample ID:** 13E0868-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0868	170246501	Water	May 23, 2013 1:30 pm	05/24/2013

Semi-Volatiles, 8270 List - low level **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
541-73-1	1,3-Dichlorobenzene	ND		ug/L	3.16	6.06	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 14:51	SR
106-46-7	1,4-Dichlorobenzene	ND		ug/L	2.68	6.06	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 14:51	SR
91-94-1	3,3'-Dichlorobenzidine	ND		ug/L	1.54	6.06	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 14:51	SR
120-83-2	2,4-Dichlorophenol	ND		ug/L	2.29	6.06	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 14:51	SR
84-66-2	Diethyl phthalate	ND		ug/L	3.10	6.06	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 14:51	SR
105-67-9	2,4-Dimethylphenol	ND		ug/L	1.94	6.06	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 14:51	SR
131-11-3	Dimethyl phthalate	ND		ug/L	2.32	6.06	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 14:51	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/L	1.96	12.1	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 14:51	SR
51-28-5	2,4-Dinitrophenol	ND		ug/L	2.73	12.1	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 14:51	SR
606-20-2	2,6-Dinitrotoluene	ND		ug/L	1.95	6.06	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 14:51	SR
121-14-2	2,4-Dinitrotoluene	ND		ug/L	1.95	6.06	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 14:51	SR
117-84-0	Di-n-octyl phthalate	ND		ug/L	1.36	6.06	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 14:51	SR
206-44-0	Fluoranthene	ND		ug/L	0.0264	0.0606	1	EPA SW-846 8270C	05/29/2013 09:10	05/29/2013 16:17	SR
86-73-7	Fluorene	ND		ug/L	0.0127	0.0606	1	EPA SW-846 8270C	05/29/2013 09:10	05/29/2013 16:17	SR
118-74-1	Hexachlorobenzene	ND		ug/L	1.54	6.06	1	EPA SW-846 8270C	05/29/2013 09:10	05/29/2013 16:17	SR
87-68-3	Hexachlorobutadiene	ND		ug/L	3.38	6.06	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 14:51	SR
77-47-4	Hexachlorocyclopentadiene	ND		ug/L	3.07	6.06	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 14:51	SR
67-72-1	Hexachloroethane	ND		ug/L	3.68	6.06	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 14:51	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/L	0.0164	0.0606	1	EPA SW-846 8270C	05/29/2013 09:10	05/29/2013 16:17	SR
78-59-1	Isophorone	ND		ug/L	3.25	6.06	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 14:51	SR
91-57-6	2-Methylnaphthalene	ND		ug/L	0.0526	6.06	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 14:51	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/L	1.36	6.06	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 14:51	SR
95-48-7	2-Methylphenol	ND		ug/L	1.41	6.06	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 14:51	SR
91-20-3	Naphthalene	ND		ug/L	0.00945	6.06	1	EPA SW-846 8270C	05/29/2013 09:10	05/29/2013 16:17	SR
100-01-6	4-Nitroaniline	ND		ug/L	3.25	6.06	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 14:51	SR
99-09-2	3-Nitroaniline	ND		ug/L	2.04	6.06	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 14:51	SR
88-74-4	2-Nitroaniline	ND		ug/L	2.04	6.06	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 14:51	SR
98-95-3	Nitrobenzene	ND		ug/L	2.05	6.06	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 14:51	SR
88-75-5	2-Nitrophenol	ND		ug/L	2.86	6.06	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 14:51	SR
100-02-7	4-Nitrophenol	ND		ug/L	2.01	6.06	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 14:51	SR
621-64-7	N-nitroso-di-n-propylamine	ND		ug/L	3.10	6.06	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 14:51	SR
62-75-9	N-Nitrosodimethylamine	ND		ug/L	0.472	6.06	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 14:51	SR

Sample Information

Client Sample ID: MW-7_052313 **York Sample ID:** 13E0868-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0868	170246501	Water	May 23, 2013 1:30 pm	05/24/2013

Semi-Volatiles, 8270 List - low level

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
86-30-6	N-Nitrosodiphenylamine	ND		ug/L	6.06	6.06	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 14:51	SR
87-86-5	Pentachlorophenol	ND		ug/L	1.76	6.06	1	EPA SW-846 8270C	05/29/2013 09:10	05/29/2013 16:17	SR
85-01-8	Phenanthrene	ND		ug/L	0.0606	0.0606	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 14:51	SR
108-95-2	Phenol	ND		ug/L	1.33	6.06	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 14:51	SR
129-00-0	Pyrene	ND		ug/L	0.0288	0.0606	1	EPA SW-846 8270C	05/29/2013 09:10	05/29/2013 16:17	SR
110-86-1	Pyridine	ND		ug/L	4.74	6.06	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 14:51	SR
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	2.99	6.06	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 14:51	SR
88-06-2	2,4,6-Trichlorophenol	ND		ug/L	2.12	6.06	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 14:51	SR
95-95-4	2,4,5-Trichlorophenol	ND		ug/L	2.32	6.06	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 14:51	SR

	Surrogate Recoveries	Result	Acceptance Range
5175-83-7	*Surrogate: 2,4,6-Tribromophenol*	*85.3 %*	*15-110*
321-60-8	*Surrogate: 2-Fluorobiphenyl*	*65.3 %*	*30-130*
367-12-4	*Surrogate: 2-Fluorophenol*	*26.1 %*	*15-110*
4165-60-0	*Surrogate: Nitrobenzene-d5*	*60.7 %*	*30-130*
4165-62-2	*Surrogate: Phenol-d5*	*14.3 %*	*10-110*
1718-51-0	*Surrogate: Terphenyl-d14*	*92.4 %*	*30-130*

Pesticides/PCBs, EPA 8081/8082 List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
8001-35-2	Toxaphene	ND	U	ug/L	0.0500	0.0500	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/31/2013 12:41	JW
72-43-5	Methoxychlor	ND	U	ug/L	0.00500	0.00500	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/31/2013 12:41	JW
1024-57-3	Heptachlor epoxide	ND	U	ug/L	0.00100	0.00100	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/31/2013 12:41	JW
76-44-8	Heptachlor	ND	U	ug/L	0.00100	0.00100	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/31/2013 12:41	JW
58-89-9	gamma-BHC (Lindane)	ND	U	ug/L	0.00100	0.00100	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/31/2013 12:41	JW
53494-70-5	Endrin ketone	ND	U	ug/L	0.00100	0.00100	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/31/2013 12:41	JW
7421-93-4	Endrin aldehyde	ND	U	ug/L	0.00100	0.00100	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/31/2013 12:41	JW
72-20-8	Endrin	ND	U	ug/L	0.00100	0.00100	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/31/2013 12:41	JW
1031-07-8	Endosulfan sulfate	ND	U	ug/L	0.00100	0.00100	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/31/2013 12:41	JW
33213-65-9	Endosulfan II	ND	U	ug/L	0.00100	0.00100	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/31/2013 12:41	JW
959-98-8	Endosulfan I	ND	U	ug/L	0.00100	0.00100	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/31/2013 12:41	JW
60-57-1	Dieldrin	ND	U	ug/L	0.00100	0.00100	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/31/2013 12:41	JW
319-86-8	delta-BHC	ND	U	ug/L	0.00100	0.00100	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/31/2013 12:41	JW
57-74-9	Chlordane, total	ND	U	ug/L	0.00400	0.00400	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/31/2013 12:41	JW

Sample Information

Client Sample ID: MW-7_052313 **York Sample ID:** 13E0868-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0868	170246501	Water	May 23, 2013 1:30 pm	05/24/2013

Pesticides/PCBs, EPA 8081/8082 List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
319-85-7	beta-BHC	ND	U	ug/L	0.00100	0.00100	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/31/2013 12:41	JW
319-84-6	alpha-BHC	ND	U	ug/L	0.00100	0.00100	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/31/2013 12:41	JW
309-00-2	Aldrin	ND	U	ug/L	0.00100	0.00100	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/31/2013 12:41	JW
50-29-3	4,4'-DDT	ND	U	ug/L	0.00100	0.00100	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/31/2013 12:41	JW
72-55-9	4,4'-DDE	ND	U	ug/L	0.00100	0.00100	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/31/2013 12:41	JW
72-54-8	4,4'-DDD	ND	U	ug/L	0.00100	0.00100	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/31/2013 12:41	JW
11096-82-5	Aroclor 1260	ND	U	ug/L	0.0500	0.0500	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/30/2013 18:02	JW
11097-69-1	Aroclor 1254	ND	U	ug/L	0.0500	0.0500	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/30/2013 18:02	JW
12672-29-6	Aroclor 1248	ND	U	ug/L	0.0500	0.0500	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/30/2013 18:02	JW
53469-21-9	Aroclor 1242	ND	U	ug/L	0.0500	0.0500	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/30/2013 18:02	JW
11141-16-5	Aroclor 1232	ND	U	ug/L	0.0500	0.0500	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/30/2013 18:02	JW
11104-28-2	Aroclor 1221	ND	U	ug/L	0.0500	0.0500	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/30/2013 18:02	JW
12674-11-2	Aroclor 1016	ND	U	ug/L	0.0500	0.0500	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/30/2013 18:02	JW
1336-36-3	Total PCBs	ND	U	ug/L	0.0500	0.0500	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/30/2013 18:02	JW

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*36.2 %*	*30-150*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*50.2 %*	*30-150*

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	**1180**		ug/L	10	10	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 11:32	MW
7440-36-0	Antimony	ND	U	ug/L	3	5	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 11:32	MW
7440-38-2	Arsenic	ND	U	ug/L	4	4	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 11:32	MW
7440-39-3	Barium	**165**		ug/L	2	10	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 11:32	MW
7440-41-7	Beryllium	ND	U	ug/L	1	1	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 11:32	MW
7440-43-9	Cadmium	ND	U	ug/L	2	3	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 11:32	MW
7440-70-2	Calcium	**110000**		ug/L	19	50	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 11:32	MW
7440-47-3	Chromium	ND	U	ug/L	2	5	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 11:32	MW
7440-48-4	Cobalt	ND	U	ug/L	2	5	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 11:32	MW
7440-50-8	Copper	**10**		ug/L	2	5	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 11:32	MW
7439-89-6	Iron	**4060**		ug/L	10	20	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 11:32	MW
7439-92-1	Lead	**4**		ug/L	2	3	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 11:32	MW
7439-95-4	Magnesium	**21000**		ug/L	10	50	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 11:32	MW

Sample Information

Client Sample ID: MW-7_052313 **York Sample ID:** 13E0868-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0868	170246501	Water	May 23, 2013 1:30 pm	05/24/2013

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-96-5	Manganese	**351**		ug/L	2	5	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 11:32	MW
7440-02-0	Nickel	ND	U	ug/L	1	5	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 11:32	MW
7440-09-7	Potassium	**11500**		ug/L	26	50	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 11:32	MW
7782-49-2	Selenium	ND	U	ug/L	7	10	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 11:32	MW
7440-22-4	Silver	ND	U	ug/L	2	5	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 11:32	MW
7440-23-5	Sodium	**53200**		ug/L	61	100	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 11:32	MW
7440-28-0	Thallium	ND	U	ug/L	3	10	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 11:32	MW
7440-62-2	Vanadium	ND	U	ug/L	2	10	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 11:32	MW
7440-66-6	Zinc	**25**		ug/L	2	20	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 11:32	MW

Mercury by 7470/7471

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-7470

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND	U	ug/L	0.2	0.2	1	EPA SW846-7470	05/29/2013 13:49	05/30/2013 11:28	AA

Sample Information

Client Sample ID: MW-3_052313 **York Sample ID:** 13E0868-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0868	170246501	Water	May 23, 2013 12:20 pm	05/24/2013

Volatile Organics, 8260 List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 03:17	SS
71-55-6	1,1,1-Trichloroethane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 03:17	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 03:17	SS
76-13-1	,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 03:17	SS
79-00-5	1,1,2-Trichloroethane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 03:17	SS
75-34-3	1,1-Dichloroethane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 03:17	SS
75-35-4	1,1-Dichloroethylene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 03:17	SS
563-58-6	1,1-Dichloropropylene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 03:17	SS
87-61-6	1,2,3-Trichlorobenzene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 03:17	SS
96-18-4	1,2,3-Trichloropropane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 03:17	SS
120-82-1	1,2,4-Trichlorobenzene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 03:17	SS

Sample Information

Client Sample ID: MW-3_052313 **York Sample ID:** 13E0868-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0868	170246501	Water	May 23, 2013 12:20 pm	05/24/2013

Volatile Organics, 8260 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-63-6	1,2,4-Trimethylbenzene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 03:17	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 03:17	SS
106-93-4	1,2-Dibromoethane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 03:17	SS
95-50-1	1,2-Dichlorobenzene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 03:17	SS
107-06-2	1,2-Dichloroethane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 03:17	SS
78-87-5	1,2-Dichloropropane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 03:17	SS
108-67-8	1,3,5-Trimethylbenzene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 03:17	SS
541-73-1	1,3-Dichlorobenzene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 03:17	SS
142-28-9	1,3-Dichloropropane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 03:17	SS
106-46-7	1,4-Dichlorobenzene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 03:17	SS
594-20-7	2,2-Dichloropropane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 03:17	SS
78-93-3	2-Butanone	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 03:17	SS
95-49-8	2-Chlorotoluene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 03:17	SS
106-43-4	4-Chlorotoluene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 03:17	SS
67-64-1	Acetone	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 03:17	SS
71-43-2	Benzene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 03:17	SS
108-86-1	Bromobenzene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 03:17	SS
74-97-5	Bromochloromethane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 03:17	SS
75-27-4	Bromodichloromethane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 03:17	SS
75-25-2	Bromoform	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 03:17	SS
74-83-9	Bromomethane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 03:17	SS
56-23-5	Carbon tetrachloride	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 03:17	SS
108-90-7	Chlorobenzene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 03:17	SS
75-00-3	Chloroethane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 03:17	SS
67-66-3	Chloroform	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 03:17	SS
74-87-3	Chloromethane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 03:17	SS
156-59-2	cis-1,2-Dichloroethylene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 03:17	SS
10061-01-5	cis-1,3-Dichloropropylene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 03:17	SS
124-48-1	Dibromochloromethane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 03:17	SS
74-95-3	Dibromomethane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 03:17	SS
75-71-8	Dichlorodifluoromethane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 03:17	SS
100-41-4	Ethyl Benzene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 03:17	SS

Sample Information

Client Sample ID: MW-3_052313 **York Sample ID:** 13E0868-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0868	170246501	Water	May 23, 2013 12:20 pm	05/24/2013

Volatile Organics, 8260 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
87-68-3	Hexachlorobutadiene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 03:17	SS
98-82-8	Isopropylbenzene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 03:17	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 03:17	SS
75-09-2	Methylene chloride	**7.2**		ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 03:17	SS
91-20-3	Naphthalene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 03:17	SS
104-51-8	n-Butylbenzene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 03:17	SS
103-65-1	n-Propylbenzene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 03:17	SS
95-47-6	o-Xylene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 03:17	SS
179601-23-1	p- & m- Xylenes	ND	U	ug/L	5.0	10	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 03:17	SS
99-87-6	p-Isopropyltoluene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 03:17	SS
135-98-8	sec-Butylbenzene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 03:17	SS
100-42-5	Styrene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 03:17	SS
98-06-6	tert-Butylbenzene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 03:17	SS
127-18-4	Tetrachloroethylene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 03:17	SS
108-88-3	Toluene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 03:17	SS
156-60-5	trans-1,2-Dichloroethylene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 03:17	SS
10061-02-6	trans-1,3-Dichloropropylene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 03:17	SS
79-01-6	Trichloroethylene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 03:17	SS
75-69-4	Trichlorofluoromethane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 03:17	SS
75-01-4	Vinyl Chloride	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 03:17	SS
1330-20-7	Xylenes, Total	ND	U	ug/L	7.5	15	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 03:17	SS
108-05-4	Vinyl acetate	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 03:17	SS

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*105 %*	*72.6-129*
460-00-4	*Surrogate: p-Bromofluorobenzene*	*95.7 %*	*63.5-145*
2037-26-5	*Surrogate: Toluene-d8*	*101 %*	*81.2-127*

Sample Information

Client Sample ID: MW-3_052313 **York Sample ID:** 13E0868-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0868	170246501	Water	May 23, 2013 12:20 pm	05/24/2013

Semi-Volatiles, 8270 List - low level **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND		ug/L	0.0176	0.0571	1	EPA SW-846 8270C	05/29/2013 09:10	05/29/2013 16:45	SR
208-96-8	Acenaphthylene	ND		ug/L	0.0298	0.0571	1	EPA SW-846 8270C	05/29/2013 09:10	05/29/2013 16:45	SR
62-53-3	Aniline	ND		ug/L	1.71	5.71	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 15:22	SR
120-12-7	Anthracene	ND		ug/L	0.0194	0.0571	1	EPA SW-846 8270C	05/29/2013 09:10	05/29/2013 16:45	SR
56-55-3	Benzo(a)anthracene	ND		ug/L	0.0126	0.0571	1	EPA SW-846 8270C	05/29/2013 09:10	05/29/2013 16:45	SR
50-32-8	Benzo(a)pyrene	ND		ug/L	0.0171	0.0571	1	EPA SW-846 8270C	05/29/2013 09:10	05/29/2013 16:45	SR
205-99-2	Benzo(b)fluoranthene	ND		ug/L	0.0310	0.0571	1	EPA SW-846 8270C	05/29/2013 09:10	05/29/2013 16:45	SR
100-51-6	Benzyl alcohol	ND		ug/L	1.66	5.71	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 15:22	SR
191-24-2	Benzo(g,h,i)perylene	ND		ug/L	0.0126	0.0571	1	EPA SW-846 8270C	05/29/2013 09:10	05/29/2013 16:45	SR
207-08-9	Benzo(k)fluoranthene	ND		ug/L	0.0211	0.0571	1	EPA SW-846 8270C	05/29/2013 09:10	05/29/2013 16:45	SR
85-68-7	Benzyl butyl phthalate	ND		ug/L	0.974	5.71	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 15:22	SR
101-55-3	4-Bromophenyl phenyl ether	ND		ug/L	1.52	5.71	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 15:22	SR
59-50-7	4-Chloro-3-methylphenol	ND		ug/L	2.16	5.71	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 15:22	SR
106-47-8	4-Chloroaniline	ND		ug/L	3.41	5.71	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 15:22	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/L	2.02	5.71	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 15:22	SR
111-44-4	Bis(2-chloroethyl)ether	ND		ug/L	1.71	5.71	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 15:22	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/L	3.42	5.71	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 15:22	SR
117-81-7	Bis(2-ethylhexyl)phthalate	**0.640**	J	ug/L	0.538	5.71	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 15:22	SR
91-58-7	2-Chloronaphthalene	ND		ug/L	2.51	5.71	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 15:22	SR
95-57-8	2-Chlorophenol	ND		ug/L	2.05	5.71	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 15:22	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/L	2.80	5.71	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 15:22	SR
218-01-9	Chrysene	ND		ug/L	0.0133	0.0571	1	EPA SW-846 8270C	05/29/2013 09:10	05/29/2013 16:45	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/L	0.0454	0.0571	1	EPA SW-846 8270C	05/29/2013 09:10	05/29/2013 16:45	SR
132-64-9	Dibenzofuran	ND		ug/L	2.75	5.71	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 15:22	SR
84-74-2	Di-n-butyl phthalate	ND		ug/L	2.34	5.71	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 15:22	SR
541-73-1	1,3-Dichlorobenzene	ND		ug/L	2.98	5.71	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 15:22	SR
95-50-1	1,2-Dichlorobenzene	ND		ug/L	2.85	5.71	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 15:22	SR
106-46-7	1,4-Dichlorobenzene	ND		ug/L	2.53	5.71	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 15:22	SR
91-94-1	3,3'-Dichlorobenzidine	ND		ug/L	1.45	5.71	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 15:22	SR
120-83-2	2,4-Dichlorophenol	ND		ug/L	2.16	5.71	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 15:22	SR
84-66-2	Diethyl phthalate	ND		ug/L	2.93	5.71	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 15:22	SR
105-67-9	2,4-Dimethylphenol	ND		ug/L	1.83	5.71	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 15:22	SR

Sample Information

Client Sample ID: MW-3_052313 **York Sample ID:** 13E0868-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0868	170246501	Water	May 23, 2013 12:20 pm	05/24/2013

Semi-Volatiles, 8270 List - low level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
131-11-3	Dimethyl phthalate	ND		ug/L	2.18	5.71	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 15:22	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/L	1.85	11.4	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 15:22	SR
51-28-5	2,4-Dinitrophenol	ND		ug/L	2.57	11.4	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 15:22	SR
606-20-2	2,6-Dinitrotoluene	ND		ug/L	1.84	5.71	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 15:22	SR
121-14-2	2,4-Dinitrotoluene	ND		ug/L	1.84	5.71	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 15:22	SR
117-84-0	Di-n-octyl phthalate	ND		ug/L	1.28	5.71	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 15:22	SR
206-44-0	Fluoranthene	ND		ug/L	0.0249	0.0571	1	EPA SW-846 8270C	05/29/2013 09:10	05/29/2013 16:45	SR
86-73-7	Fluorene	ND		ug/L	0.0120	0.0571	1	EPA SW-846 8270C	05/29/2013 09:10	05/29/2013 16:45	SR
118-74-1	Hexachlorobenzene	ND		ug/L	1.45	5.71	1	EPA SW-846 8270C	05/29/2013 09:10	05/29/2013 16:45	SR
87-68-3	Hexachlorobutadiene	ND		ug/L	3.19	5.71	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 15:22	SR
77-47-4	Hexachlorocyclopentadiene	ND		ug/L	2.89	5.71	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 15:22	SR
67-72-1	Hexachloroethane	ND		ug/L	3.47	5.71	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 15:22	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/L	0.0154	0.0571	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 15:22	SR
78-59-1	Isophorone	ND		ug/L	3.06	5.71	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 15:22	SR
91-57-6	2-Methylnaphthalene	ND		ug/L	0.0496	5.71	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 15:22	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/L	1.28	5.71	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 15:22	SR
95-48-7	2-Methylphenol	ND		ug/L	1.33	5.71	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 15:22	SR
91-20-3	Naphthalene	ND		ug/L	0.00891	5.71	1	EPA SW-846 8270C	05/29/2013 09:10	05/29/2013 16:45	SR
100-01-6	4-Nitroaniline	ND		ug/L	3.06	5.71	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 15:22	SR
99-09-2	3-Nitroaniline	ND		ug/L	1.92	5.71	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 15:22	SR
88-74-4	2-Nitroaniline	ND		ug/L	1.92	5.71	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 15:22	SR
98-95-3	Nitrobenzene	ND		ug/L	1.93	5.71	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 15:22	SR
88-75-5	2-Nitrophenol	ND		ug/L	2.70	5.71	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 15:22	SR
100-02-7	4-Nitrophenol	ND		ug/L	1.90	5.71	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 15:22	SR
621-64-7	N-nitroso-di-n-propylamine	ND		ug/L	2.93	5.71	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 15:22	SR
62-75-9	N-Nitrosodimethylamine	ND		ug/L	0.445	5.71	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 15:22	SR
86-30-6	N-Nitrosodiphenylamine	ND		ug/L	5.71	5.71	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 15:22	SR
87-86-5	Pentachlorophenol	ND		ug/L	1.66	5.71	1	EPA SW-846 8270C	05/29/2013 09:10	05/29/2013 16:45	SR
85-01-8	Phenanthrene	ND		ug/L	0.0571	0.0571	1	EPA SW-846 8270C	05/29/2013 09:10	05/29/2013 16:45	SR
108-95-2	Phenol	ND		ug/L	1.26	5.71	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 15:22	SR
129-00-0	Pyrene	ND		ug/L	0.0272	0.0571	1	EPA SW-846 8270C	05/29/2013 09:10	05/29/2013 16:45	SR
110-86-1	Pyridine	ND		ug/L	4.47	5.71	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 15:22	SR

Sample Information

Client Sample ID: MW-3_052313 **York Sample ID:** 13E0868-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0868	170246501	Water	May 23, 2013 12:20 pm	05/24/2013

Semi-Volatiles, 8270 List - low level

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	2.82	5.71	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 15:22	SR
88-06-2	2,4,6-Trichlorophenol	ND		ug/L	2.00	5.71	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 15:22	SR
95-95-4	2,4,5-Trichlorophenol	ND		ug/L	2.18	5.71	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 15:22	SR

	Surrogate Recoveries	Result	Acceptance Range
5175-83-7	*Surrogate: 2,4,6-Tribromophenol*	*95.1 %*	*15-110*
321-60-8	*Surrogate: 2-Fluorobiphenyl*	*71.7 %*	*30-130*
367-12-4	*Surrogate: 2-Fluorophenol*	*31.4 %*	*15-110*
4165-60-0	*Surrogate: Nitrobenzene-d5*	*66.3 %*	*30-130*
4165-62-2	*Surrogate: Phenol-d5*	*17.9 %*	*10-110*
1718-51-0	*Surrogate: Terphenyl-d14*	*97.1 %*	*30-130*

Pesticides/PCBs, EPA 8081/8082 List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
8001-35-2	Toxaphene	ND	U	ug/L	0.0541	0.0541	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/31/2013 12:57	JW
72-43-5	Methoxychlor	ND	U	ug/L	0.00541	0.00541	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/31/2013 12:57	JW
1024-57-3	Heptachlor epoxide	ND	U	ug/L	0.00108	0.00108	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/31/2013 12:57	JW
76-44-8	Heptachlor	ND	U	ug/L	0.00108	0.00108	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/31/2013 12:57	JW
58-89-9	gamma-BHC (Lindane)	ND	U	ug/L	0.00108	0.00108	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/31/2013 12:57	JW
53494-70-5	Endrin ketone	ND	U	ug/L	0.00108	0.00108	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/31/2013 12:57	JW
7421-93-4	Endrin aldehyde	ND	U	ug/L	0.00108	0.00108	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/31/2013 12:57	JW
72-20-8	Endrin	ND	U	ug/L	0.00108	0.00108	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/31/2013 12:57	JW
1031-07-8	Endosulfan sulfate	ND	U	ug/L	0.00108	0.00108	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/31/2013 12:57	JW
33213-65-9	Endosulfan II	ND	U	ug/L	0.00108	0.00108	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/31/2013 12:57	JW
959-98-8	Endosulfan I	ND	U	ug/L	0.00108	0.00108	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/31/2013 12:57	JW
60-57-1	Dieldrin	ND	U	ug/L	0.00108	0.00108	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/31/2013 12:57	JW
319-86-8	delta-BHC	ND	U	ug/L	0.00108	0.00108	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/31/2013 12:57	JW
57-74-9	Chlordane, total	ND	U	ug/L	0.00432	0.00432	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/31/2013 12:57	JW
319-85-7	beta-BHC	ND	U	ug/L	0.00108	0.00108	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/31/2013 12:57	JW
319-84-6	alpha-BHC	ND	U	ug/L	0.00108	0.00108	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/31/2013 12:57	JW
309-00-2	Aldrin	ND	U	ug/L	0.00108	0.00108	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/31/2013 12:57	JW
50-29-3	4,4'-DDT	ND	U	ug/L	0.00108	0.00108	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/31/2013 12:57	JW
72-55-9	4,4'-DDE	ND	U	ug/L	0.00108	0.00108	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/31/2013 12:57	JW
72-54-8	4,4'-DDD	ND	U	ug/L	0.00108	0.00108	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/31/2013 12:57	JW

Sample Information

Client Sample ID: MW-3_052313 **York Sample ID:** 13E0868-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0868	170246501	Water	May 23, 2013 12:20 pm	05/24/2013

Pesticides/PCBs, EPA 8081/8082 List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
11096-82-5	Aroclor 1260	ND	U	ug/L	0.0541	0.0541	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/30/2013 18:32	JW
11097-69-1	Aroclor 1254	ND	U	ug/L	0.0541	0.0541	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/30/2013 18:32	JW
12672-29-6	Aroclor 1248	ND	U	ug/L	0.0541	0.0541	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/30/2013 18:32	JW
53469-21-9	Aroclor 1242	ND	U	ug/L	0.0541	0.0541	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/30/2013 18:32	JW
11141-16-5	Aroclor 1232	ND	U	ug/L	0.0541	0.0541	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/30/2013 18:32	JW
11104-28-2	Aroclor 1221	ND	U	ug/L	0.0541	0.0541	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/30/2013 18:32	JW
12674-11-2	Aroclor 1016	ND	U	ug/L	0.0541	0.0541	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/30/2013 18:32	JW
1336-36-3	Total PCBs	ND	U	ug/L	0.0541	0.0541	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/30/2013 18:32	JW

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*33.3 %*	*30-150*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*38.0 %*	*30-150*

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	ND	U	ug/L	10	10	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 11:49	MW
7440-36-0	Antimony	ND	U	ug/L	3	5	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 11:49	MW
7440-38-2	Arsenic	ND	U	ug/L	4	4	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 11:49	MW
7440-39-3	Barium	**255**		ug/L	2	10	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 11:49	MW
7440-41-7	Beryllium	ND	U	ug/L	1	1	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 11:49	MW
7440-43-9	Cadmium	ND	U	ug/L	2	3	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 11:49	MW
7440-70-2	Calcium	**111000**		ug/L	19	50	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 11:49	MW
7440-47-3	Chromium	ND	U	ug/L	2	5	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 11:49	MW
7440-48-4	Cobalt	ND	U	ug/L	2	5	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 11:49	MW
7440-50-8	Copper	**12**		ug/L	2	5	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 11:49	MW
7439-89-6	Iron	**52**		ug/L	10	20	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 11:49	MW
7439-92-1	Lead	**4**		ug/L	2	3	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 11:49	MW
7439-95-4	Magnesium	**17000**		ug/L	10	50	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 11:49	MW
7439-96-5	Manganese	**293**		ug/L	2	5	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 11:49	MW
7440-02-0	Nickel	**7**		ug/L	1	5	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 11:49	MW
7440-09-7	Potassium	**11000**		ug/L	26	50	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 11:49	MW
7782-49-2	Selenium	ND	U	ug/L	7	10	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 11:49	MW
7440-22-4	Silver	ND	U	ug/L	2	5	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 11:49	MW
7440-23-5	Sodium	**124000**		ug/L	61	100	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 11:49	MW

Sample Information

Client Sample ID: MW-3_052313 **York Sample ID:** 13E0868-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0868	170246501	Water	May 23, 2013 12:20 pm	05/24/2013

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-28-0	Thallium	ND	U	ug/L	3	10	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 11:49	MW
7440-62-2	Vanadium	ND	U	ug/L	2	10	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 11:49	MW
7440-66-6	Zinc	**50**		ug/L	2	20	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 11:49	MW

Mercury by 7470/7471

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-7470

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND	U	ug/L	0.2	0.2	1	EPA SW846-7470	05/29/2013 13:49	05/30/2013 11:28	AA

Sample Information

Client Sample ID: MW-10_052313 **York Sample ID:** 13E0868-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0868	170246501	Water	May 23, 2013 4:20 pm	05/24/2013

Volatile Organics, 8260 List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 03:57	SS
71-55-6	1,1,1-Trichloroethane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 03:57	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 03:57	SS
76-13-1	,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 03:57	SS
79-00-5	1,1,2-Trichloroethane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 03:57	SS
75-34-3	1,1-Dichloroethane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 03:57	SS
75-35-4	1,1-Dichloroethylene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 03:57	SS
563-58-6	1,1-Dichloropropylene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 03:57	SS
87-61-6	1,2,3-Trichlorobenzene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 03:57	SS
96-18-4	1,2,3-Trichloropropane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 03:57	SS
120-82-1	1,2,4-Trichlorobenzene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 03:57	SS
95-63-6	1,2,4-Trimethylbenzene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 03:57	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 03:57	SS
106-93-4	1,2-Dibromoethane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 03:57	SS
95-50-1	1,2-Dichlorobenzene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 03:57	SS
107-06-2	1,2-Dichloroethane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 03:57	SS

Sample Information

Client Sample ID: MW-10_052313 **York Sample ID:** 13E0868-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0868	170246501	Water	May 23, 2013 4:20 pm	05/24/2013

Volatile Organics, 8260 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
78-87-5	1,2-Dichloropropane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 03:57	SS
108-67-8	1,3,5-Trimethylbenzene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 03:57	SS
541-73-1	1,3-Dichlorobenzene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 03:57	SS
142-28-9	1,3-Dichloropropane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 03:57	SS
106-46-7	1,4-Dichlorobenzene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 03:57	SS
594-20-7	2,2-Dichloropropane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 03:57	SS
78-93-3	2-Butanone	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 03:57	SS
95-49-8	2-Chlorotoluene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 03:57	SS
106-43-4	4-Chlorotoluene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 03:57	SS
67-64-1	Acetone	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 03:57	SS
71-43-2	Benzene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 03:57	SS
108-86-1	Bromobenzene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 03:57	SS
74-97-5	Bromochloromethane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 03:57	SS
75-27-4	Bromodichloromethane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 03:57	SS
75-25-2	Bromoform	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 03:57	SS
74-83-9	Bromomethane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 03:57	SS
56-23-5	Carbon tetrachloride	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 03:57	SS
108-90-7	Chlorobenzene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 03:57	SS
75-00-3	Chloroethane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 03:57	SS
67-66-3	Chloroform	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 03:57	SS
74-87-3	Chloromethane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 03:57	SS
156-59-2	cis-1,2-Dichloroethylene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 03:57	SS
10061-01-5	cis-1,3-Dichloropropylene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 03:57	SS
124-48-1	Dibromochloromethane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 03:57	SS
74-95-3	Dibromomethane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 03:57	SS
75-71-8	Dichlorodifluoromethane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 03:57	SS
100-41-4	Ethyl Benzene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 03:57	SS
87-68-3	Hexachlorobutadiene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 03:57	SS
98-82-8	Isopropylbenzene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 03:57	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 03:57	SS
75-09-2	Methylene chloride	**5.9**		ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 03:57	SS
91-20-3	Naphthalene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 03:57	SS

Sample Information

Client Sample ID: MW-10_052313 **York Sample ID:** 13E0868-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0868	170246501	Water	May 23, 2013 4:20 pm	05/24/2013

Volatile Organics, 8260 List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
104-51-8	n-Butylbenzene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 03:57	SS
103-65-1	n-Propylbenzene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 03:57	SS
95-47-6	o-Xylene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 03:57	SS
179601-23-1	p- & m- Xylenes	ND	U	ug/L	5.0	10	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 03:57	SS
99-87-6	p-Isopropyltoluene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 03:57	SS
135-98-8	sec-Butylbenzene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 03:57	SS
100-42-5	Styrene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 03:57	SS
98-06-6	tert-Butylbenzene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 03:57	SS
127-18-4	Tetrachloroethylene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 03:57	SS
108-88-3	Toluene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 03:57	SS
156-60-5	trans-1,2-Dichloroethylene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 03:57	SS
10061-02-6	trans-1,3-Dichloropropylene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 03:57	SS
79-01-6	Trichloroethylene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 03:57	SS
75-69-4	Trichlorofluoromethane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 03:57	SS
75-01-4	Vinyl Chloride	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 03:57	SS
1330-20-7	Xylenes, Total	ND	U	ug/L	7.5	15	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 03:57	SS
108-05-4	Vinyl acetate	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 03:57	SS

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*107 %*	*72.6-129*
460-00-4	*Surrogate: p-Bromofluorobenzene*	*98.5 %*	*63.5-145*
2037-26-5	*Surrogate: Toluene-d8*	*102 %*	*81.2-127*

Semi-Volatiles, 8270 List - low level

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND		ug/L	0.0205	0.0667	1	EPA SW-846 8270C	05/29/2013 09:10	05/29/2013 17:14	SR
208-96-8	Acenaphthylene	ND		ug/L	0.0348	0.0667	1	EPA SW-846 8270C	05/29/2013 09:10	05/29/2013 17:14	SR
62-53-3	Aniline	ND		ug/L	2.00	6.67	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 15:53	SR
120-12-7	Anthracene	ND		ug/L	0.0227	0.0667	1	EPA SW-846 8270C	05/29/2013 09:10	05/29/2013 17:14	SR
56-55-3	Benzo(a)anthracene	ND		ug/L	0.0147	0.0667	1	EPA SW-846 8270C	05/29/2013 09:10	05/29/2013 17:14	SR
50-32-8	Benzo(a)pyrene	ND		ug/L	0.0200	0.0667	1	EPA SW-846 8270C	05/29/2013 09:10	05/29/2013 17:14	SR
205-99-2	Benzo(b)fluoranthene	ND		ug/L	0.0361	0.0667	1	EPA SW-846 8270C	05/29/2013 09:10	05/29/2013 17:14	SR
100-51-6	Benzyl alcohol	ND		ug/L	1.93	6.67	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 15:53	SR
191-24-2	Benzo(g,h,i)perylene	ND		ug/L	0.0147	0.0667	1	EPA SW-846 8270C	05/29/2013 09:10	05/29/2013 17:14	SR

Sample Information

Client Sample ID: MW-10_052313 **York Sample ID:** 13E0868-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0868	170246501	Water	May 23, 2013 4:20 pm	05/24/2013

Semi-Volatiles, 8270 List - low level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
207-08-9	Benzo(k)fluoranthene	ND		ug/L	0.0247	0.0667	1	EPA SW-846 8270C	05/29/2013 09:10	05/29/2013 17:14	SR
85-68-7	Benzyl butyl phthalate	ND		ug/L	1.14	6.67	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 15:53	SR
101-55-3	4-Bromophenyl phenyl ether	ND		ug/L	1.77	6.67	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 15:53	SR
59-50-7	4-Chloro-3-methylphenol	ND		ug/L	2.52	6.67	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 15:53	SR
106-47-8	4-Chloroaniline	ND		ug/L	3.97	6.67	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 15:53	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/L	2.36	6.67	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 15:53	SR
111-44-4	Bis(2-chloroethyl)ether	ND		ug/L	2.00	6.67	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 15:53	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/L	3.99	6.67	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 15:53	SR
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/L	0.628	6.67	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 15:53	SR
91-58-7	2-Chloronaphthalene	ND		ug/L	2.93	6.67	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 15:53	SR
95-57-8	2-Chlorophenol	ND		ug/L	2.39	6.67	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 15:53	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/L	3.27	6.67	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 15:53	SR
218-01-9	Chrysene	ND		ug/L	0.0155	0.0667	1	EPA SW-846 8270C	05/29/2013 09:10	05/29/2013 17:14	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/L	0.0529	0.0667	1	EPA SW-846 8270C	05/29/2013 09:10	05/29/2013 17:14	SR
132-64-9	Dibenzofuran	ND		ug/L	3.21	6.67	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 15:53	SR
84-74-2	Di-n-butyl phthalate	ND		ug/L	2.73	6.67	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 15:53	SR
541-73-1	1,3-Dichlorobenzene	ND		ug/L	3.48	6.67	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 15:53	SR
95-50-1	1,2-Dichlorobenzene	ND		ug/L	3.32	6.67	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 15:53	SR
106-46-7	1,4-Dichlorobenzene	ND		ug/L	2.95	6.67	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 15:53	SR
91-94-1	3,3'-Dichlorobenzidine	ND		ug/L	1.69	6.67	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 15:53	SR
120-83-2	2,4-Dichlorophenol	ND		ug/L	2.52	6.67	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 15:53	SR
84-66-2	Diethyl phthalate	ND		ug/L	3.41	6.67	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 15:53	SR
105-67-9	2,4-Dimethylphenol	ND		ug/L	2.13	6.67	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 15:53	SR
131-11-3	Dimethyl phthalate	ND		ug/L	2.55	6.67	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 15:53	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/L	2.16	13.3	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 15:53	SR
51-28-5	2,4-Dinitrophenol	ND		ug/L	3.00	13.3	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 15:53	SR
606-20-2	2,6-Dinitrotoluene	ND		ug/L	2.15	6.67	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 15:53	SR
121-14-2	2,4-Dinitrotoluene	ND		ug/L	2.15	6.67	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 15:53	SR
117-84-0	Di-n-octyl phthalate	ND		ug/L	1.49	6.67	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 15:53	SR
206-44-0	Fluoranthene	ND		ug/L	0.0291	0.0667	1	EPA SW-846 8270C	05/29/2013 09:10	05/29/2013 17:14	SR
86-73-7	Fluorene	ND		ug/L	0.0140	0.0667	1	EPA SW-846 8270C	05/29/2013 09:10	05/29/2013 17:14	SR
118-74-1	Hexachlorobenzene	ND		ug/L	1.69	6.67	1	EPA SW-846 8270C	05/29/2013 09:10	05/29/2013 17:14	SR

Sample Information

Client Sample ID: MW-10_052313 **York Sample ID:** 13E0868-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0868	170246501	Water	May 23, 2013 4:20 pm	05/24/2013

Semi-Volatiles, 8270 List - low level **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
87-68-3	Hexachlorobutadiene	ND		ug/L	3.72	6.67	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 15:53	SR
77-47-4	Hexachlorocyclopentadiene	ND		ug/L	3.37	6.67	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 15:53	SR
67-72-1	Hexachloroethane	ND		ug/L	4.05	6.67	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 15:53	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/L	0.0180	0.0667	1	EPA SW-846 8270C	05/29/2013 09:10	05/29/2013 17:14	SR
78-59-1	Isophorone	ND		ug/L	3.57	6.67	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 15:53	SR
91-57-6	2-Methylnaphthalene	ND		ug/L	0.0579	6.67	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 15:53	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/L	1.49	6.67	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 15:53	SR
95-48-7	2-Methylphenol	ND		ug/L	1.55	6.67	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 15:53	SR
91-20-3	Naphthalene	ND		ug/L	0.0104	6.67	1	EPA SW-846 8270C	05/29/2013 09:10	05/29/2013 17:14	SR
100-01-6	4-Nitroaniline	ND		ug/L	3.57	6.67	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 15:53	SR
99-09-2	3-Nitroaniline	ND		ug/L	2.24	6.67	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 15:53	SR
88-74-4	2-Nitroaniline	ND		ug/L	2.24	6.67	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 15:53	SR
98-95-3	Nitrobenzene	ND		ug/L	2.25	6.67	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 15:53	SR
88-75-5	2-Nitrophenol	ND		ug/L	3.15	6.67	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 15:53	SR
100-02-7	4-Nitrophenol	ND		ug/L	2.21	6.67	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 15:53	SR
621-64-7	N-nitroso-di-n-propylamine	ND		ug/L	3.41	6.67	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 15:53	SR
62-75-9	N-Nitrosodimethylamine	ND		ug/L	0.519	6.67	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 15:53	SR
86-30-6	N-Nitrosodiphenylamine	ND		ug/L	6.67	6.67	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 15:53	SR
87-86-5	Pentachlorophenol	ND		ug/L	1.93	6.67	1	EPA SW-846 8270C	05/29/2013 09:10	05/29/2013 17:14	SR
85-01-8	Phenanthrene	ND		ug/L	0.0667	0.0667	1	EPA SW-846 8270C	05/29/2013 09:10	05/29/2013 17:14	SR
108-95-2	Phenol	ND		ug/L	1.47	6.67	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 15:53	SR
129-00-0	Pyrene	ND		ug/L	0.0317	0.0667	1	EPA SW-846 8270C	05/29/2013 09:10	05/29/2013 17:14	SR
110-86-1	Pyridine	ND		ug/L	5.21	6.67	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 15:53	SR
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	3.29	6.67	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 15:53	SR
88-06-2	2,4,6-Trichlorophenol	ND		ug/L	2.33	6.67	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 15:53	SR
95-95-4	2,4,5-Trichlorophenol	ND		ug/L	2.55	6.67	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 15:53	SR

	Surrogate Recoveries	Result	Acceptance Range
5175-83-7	*Surrogate: 2,4,6-Tribromophenol*	*79.8 %*	*15-110*
321-60-8	*Surrogate: 2-Fluorobiphenyl*	*68.1 %*	*30-130*
367-12-4	*Surrogate: 2-Fluorophenol*	*29.6 %*	*15-110*
4165-60-0	*Surrogate: Nitrobenzene-d5*	*61.9 %*	*30-130*
4165-62-2	*Surrogate: Phenol-d5*	*17.1 %*	*10-110*
1718-51-0	*Surrogate: Terphenyl-d14*	*85.8 %*	*30-130*

Sample Information

Client Sample ID: MW-10_052313 **York Sample ID:** 13E0868-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0868	170246501	Water	May 23, 2013 4:20 pm	05/24/2013

Pesticides/PCBs, EPA 8081/8082 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
8001-35-2	Toxaphene	ND	U	ug/L	0.0556	0.0556	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/31/2013 13:12	JW
72-43-5	Methoxychlor	ND	U	ug/L	0.00556	0.00556	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/31/2013 13:12	JW
1024-57-3	Heptachlor epoxide	ND	U	ug/L	0.00111	0.00111	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/31/2013 13:12	JW
76-44-8	Heptachlor	ND	U	ug/L	0.00111	0.00111	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/31/2013 13:12	JW
58-89-9	gamma-BHC (Lindane)	ND	U	ug/L	0.00111	0.00111	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/31/2013 13:12	JW
53494-70-5	Endrin ketone	ND	U	ug/L	0.00111	0.00111	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/31/2013 13:12	JW
7421-93-4	Endrin aldehyde	ND	U	ug/L	0.00111	0.00111	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/31/2013 13:12	JW
72-20-8	Endrin	ND	U	ug/L	0.00111	0.00111	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/31/2013 13:12	JW
1031-07-8	Endosulfan sulfate	ND	U	ug/L	0.00111	0.00111	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/31/2013 13:12	JW
33213-65-9	Endosulfan II	ND	U	ug/L	0.00111	0.00111	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/31/2013 13:12	JW
959-98-8	Endosulfan I	ND	U	ug/L	0.00111	0.00111	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/31/2013 13:12	JW
60-57-1	Dieldrin	ND	U	ug/L	0.00111	0.00111	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/31/2013 13:12	JW
319-86-8	delta-BHC	ND	U	ug/L	0.00111	0.00111	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/31/2013 13:12	JW
57-74-9	Chlordane, total	ND	U	ug/L	0.00444	0.00444	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/31/2013 13:12	JW
319-85-7	beta-BHC	ND	U	ug/L	0.00111	0.00111	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/31/2013 13:12	JW
319-84-6	alpha-BHC	ND	U	ug/L	0.00111	0.00111	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/31/2013 13:12	JW
309-00-2	Aldrin	ND	U	ug/L	0.00111	0.00111	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/31/2013 13:12	JW
50-29-3	4,4'-DDT	ND	U	ug/L	0.00111	0.00111	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/31/2013 13:12	JW
72-55-9	4,4'-DDE	ND	U	ug/L	0.00111	0.00111	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/31/2013 13:12	JW
72-54-8	4,4'-DDD	ND	U	ug/L	0.00111	0.00111	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/31/2013 13:12	JW
11096-82-5	Aroclor 1260	ND	U	ug/L	0.0556	0.0556	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/30/2013 19:01	JW
11097-69-1	Aroclor 1254	ND	U	ug/L	0.0556	0.0556	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/30/2013 19:01	JW
12672-29-6	Aroclor 1248	ND	U	ug/L	0.0556	0.0556	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/30/2013 19:01	JW
53469-21-9	Aroclor 1242	ND	U	ug/L	0.0556	0.0556	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/30/2013 19:01	JW
11141-16-5	Aroclor 1232	ND	U	ug/L	0.0556	0.0556	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/30/2013 19:01	JW
11104-28-2	Aroclor 1221	ND	U	ug/L	0.0556	0.0556	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/30/2013 19:01	JW
12674-11-2	Aroclor 1016	ND	U	ug/L	0.0556	0.0556	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/30/2013 19:01	JW
1336-36-3	Total PCBs	ND	U	ug/L	0.0556	0.0556	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/30/2013 19:01	JW

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*45.9 %*	*30-150*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*50.2 %*	*30-150*

Sample Information

Client Sample ID: MW-10_052313 **York Sample ID:** 13E0868-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0868	170246501	Water	May 23, 2013 4:20 pm	05/24/2013

Metals, Target Analyte **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	**46**		ug/L	10	10	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 11:54	MW
7440-36-0	Antimony	ND	U	ug/L	3	5	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 11:54	MW
7440-38-2	Arsenic	ND	U	ug/L	4	4	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 11:54	MW
7440-39-3	Barium	**66**		ug/L	2	10	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 11:54	MW
7440-41-7	Beryllium	ND	U	ug/L	1	1	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 11:54	MW
7440-43-9	Cadmium	ND	U	ug/L	2	3	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 11:54	MW
7440-70-2	Calcium	**87700**		ug/L	19	50	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 11:54	MW
7440-47-3	Chromium	ND	U	ug/L	2	5	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 11:54	MW
7440-48-4	Cobalt	ND	U	ug/L	2	5	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 11:54	MW
7440-50-8	Copper	ND	U	ug/L	2	5	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 11:54	MW
7439-89-6	Iron	**22**		ug/L	10	20	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 11:54	MW
7439-92-1	Lead	**7**		ug/L	2	3	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 11:54	MW
7439-95-4	Magnesium	**22300**		ug/L	10	50	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 11:54	MW
7439-96-5	Manganese	**706**		ug/L	2	5	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 11:54	MW
7440-02-0	Nickel	**6**		ug/L	1	5	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 11:54	MW
7440-09-7	Potassium	**8280**		ug/L	26	50	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 11:54	MW
7782-49-2	Selenium	ND	U	ug/L	7	10	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 11:54	MW
7440-22-4	Silver	ND	U	ug/L	2	5	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 11:54	MW
7440-23-5	Sodium	**332000**		ug/L	61	100	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 11:54	MW
7440-28-0	Thallium	ND	U	ug/L	3	10	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 11:54	MW
7440-62-2	Vanadium	ND	U	ug/L	2	10	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 11:54	MW
7440-66-6	Zinc	**39**		ug/L	2	20	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 11:54	MW

Mercury by 7470/7471 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA SW846-7470

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND	U	ug/L	0.2	0.2	1	EPA SW846-7470	05/29/2013 13:49	05/30/2013 11:28	AA

Sample Information

Client Sample ID: TRC-MW-3_052413 **York Sample ID:** 13E0868-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0868	170246501	Water	May 24, 2013 10:20 am	05/24/2013

Volatile Organics, 8260 List **Log-in Notes:** **Sample Notes:**

Sample Information

Client Sample ID: TRC-MW-3_052413 **York Sample ID:** 13E0868-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0868	170246501	Water	May 24, 2013 10:20 am	05/24/2013

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 04:36	SS
71-55-6	1,1,1-Trichloroethane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 04:36	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 04:36	SS
76-13-1	,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 04:36	SS
79-00-5	1,1,2-Trichloroethane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 04:36	SS
75-34-3	1,1-Dichloroethane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 04:36	SS
75-35-4	1,1-Dichloroethylene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 04:36	SS
563-58-6	1,1-Dichloropropylene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 04:36	SS
87-61-6	1,2,3-Trichlorobenzene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 04:36	SS
96-18-4	1,2,3-Trichloropropane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 04:36	SS
120-82-1	1,2,4-Trichlorobenzene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 04:36	SS
95-63-6	1,2,4-Trimethylbenzene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 04:36	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 04:36	SS
106-93-4	1,2-Dibromoethane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 04:36	SS
95-50-1	1,2-Dichlorobenzene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 04:36	SS
107-06-2	1,2-Dichloroethane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 04:36	SS
78-87-5	1,2-Dichloropropane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 04:36	SS
108-67-8	1,3,5-Trimethylbenzene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 04:36	SS
541-73-1	1,3-Dichlorobenzene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 04:36	SS
142-28-9	1,3-Dichloropropane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 04:36	SS
106-46-7	1,4-Dichlorobenzene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 04:36	SS
594-20-7	2,2-Dichloropropane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 04:36	SS
78-93-3	2-Butanone	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 04:36	SS
95-49-8	2-Chlorotoluene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 04:36	SS
106-43-4	4-Chlorotoluene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 04:36	SS
67-64-1	Acetone	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 04:36	SS
71-43-2	Benzene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 04:36	SS
108-86-1	Bromobenzene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 04:36	SS
74-97-5	Bromochloromethane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 04:36	SS
75-27-4	Bromodichloromethane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 04:36	SS
75-25-2	Bromoform	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 04:36	SS
74-83-9	Bromomethane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 04:36	SS
56-23-5	Carbon tetrachloride	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 04:36	SS

Sample Information

Client Sample ID: TRC-MW-3_052413 **York Sample ID:** 13E0868-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0868	170246501	Water	May 24, 2013 10:20 am	05/24/2013

Volatile Organics, 8260 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-90-7	Chlorobenzene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 04:36	SS
75-00-3	Chloroethane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 04:36	SS
67-66-3	Chloroform	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 04:36	SS
74-87-3	Chloromethane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 04:36	SS
156-59-2	cis-1,2-Dichloroethylene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 04:36	SS
10061-01-5	cis-1,3-Dichloropropylene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 04:36	SS
124-48-1	Dibromochloromethane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 04:36	SS
74-95-3	Dibromomethane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 04:36	SS
75-71-8	Dichlorodifluoromethane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 04:36	SS
100-41-4	Ethyl Benzene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 04:36	SS
87-68-3	Hexachlorobutadiene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 04:36	SS
98-82-8	Isopropylbenzene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 04:36	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 04:36	SS
75-09-2	Methylene chloride	**6.1**		ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 04:36	SS
91-20-3	Naphthalene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 04:36	SS
104-51-8	n-Butylbenzene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 04:36	SS
103-65-1	n-Propylbenzene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 04:36	SS
95-47-6	o-Xylene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 04:36	SS
179601-23-1	p- & m- Xylenes	ND	U	ug/L	5.0	10	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 04:36	SS
99-87-6	p-Isopropyltoluene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 04:36	SS
135-98-8	sec-Butylbenzene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 04:36	SS
100-42-5	Styrene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 04:36	SS
98-06-6	tert-Butylbenzene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 04:36	SS
127-18-4	Tetrachloroethylene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 04:36	SS
108-88-3	Toluene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 04:36	SS
156-60-5	trans-1,2-Dichloroethylene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 04:36	SS
10061-02-6	trans-1,3-Dichloropropylene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 04:36	SS
79-01-6	Trichloroethylene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 04:36	SS
75-69-4	Trichlorofluoromethane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 04:36	SS
75-01-4	Vinyl Chloride	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 04:36	SS
1330-20-7	Xylenes, Total	ND	U	ug/L	7.5	15	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 04:36	SS
108-05-4	Vinyl acetate	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 04:36	SS

Sample Information

Client Sample ID: TRC-MW-3_052413 **York Sample ID:** 13E0868-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0868	170246501	Water	May 24, 2013 10:20 am	05/24/2013

Volatile Organics, 8260 List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate Recoveries	**Result**			**Acceptance Range**						
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*102 %*			*72.6-129*						
460-00-4	*Surrogate: p-Bromofluorobenzene*	*101 %*			*63.5-145*						
2037-26-5	*Surrogate: Toluene-d8*	*102 %*			*81.2-127*						

Semi-Volatiles, 8270 List - low level

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND		ug/L	0.0171	0.0556	1	EPA SW-846 8270C	05/29/2013 09:10	05/29/2013 17:42	SR
208-96-8	Acenaphthylene	ND		ug/L	0.0290	0.0556	1	EPA SW-846 8270C	05/29/2013 09:10	05/29/2013 17:42	SR
62-53-3	Aniline	ND		ug/L	1.67	5.56	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 16:25	SR
120-12-7	Anthracene	ND		ug/L	0.0189	0.0556	1	EPA SW-846 8270C	05/29/2013 09:10	05/29/2013 17:42	SR
56-55-3	Benzo(a)anthracene	ND		ug/L	0.0122	0.0556	1	EPA SW-846 8270C	05/29/2013 09:10	05/29/2013 17:42	SR
50-32-8	Benzo(a)pyrene	ND		ug/L	0.0167	0.0556	1	EPA SW-846 8270C	05/29/2013 09:10	05/29/2013 17:42	SR
205-99-2	Benzo(b)fluoranthene	ND		ug/L	0.0301	0.0556	1	EPA SW-846 8270C	05/29/2013 09:10	05/29/2013 17:42	SR
100-51-6	Benzyl alcohol	ND		ug/L	1.61	5.56	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 16:25	SR
191-24-2	Benzo(g,h,i)perylene	ND		ug/L	0.0122	0.0556	1	EPA SW-846 8270C	05/29/2013 09:10	05/29/2013 17:42	SR
207-08-9	Benzo(k)fluoranthene	ND		ug/L	0.0206	0.0556	1	EPA SW-846 8270C	05/29/2013 09:10	05/29/2013 17:42	SR
85-68-7	Benzyl butyl phthalate	ND		ug/L	0.947	5.56	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 16:25	SR
101-55-3	4-Bromophenyl phenyl ether	ND		ug/L	1.48	5.56	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 16:25	SR
59-50-7	4-Chloro-3-methylphenol	ND		ug/L	2.10	5.56	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 16:25	SR
106-47-8	4-Chloroaniline	ND		ug/L	3.31	5.56	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 16:25	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/L	1.97	5.56	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 16:25	SR
111-44-4	Bis(2-chloroethyl)ether	ND		ug/L	1.67	5.56	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 16:25	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/L	3.32	5.56	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 16:25	SR
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/L	0.523	5.56	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 16:25	SR
91-58-7	2-Chloronaphthalene	ND		ug/L	2.44	5.56	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 16:25	SR
95-57-8	2-Chlorophenol	ND		ug/L	1.99	5.56	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 16:25	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/L	2.72	5.56	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 16:25	SR
218-01-9	Chrysene	ND		ug/L	0.0129	0.0556	1	EPA SW-846 8270C	05/29/2013 09:10	05/29/2013 17:42	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/L	0.0441	0.0556	1	EPA SW-846 8270C	05/29/2013 09:10	05/29/2013 17:42	SR
132-64-9	Dibenzofuran	ND		ug/L	2.68	5.56	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 16:25	SR
84-74-2	Di-n-butyl phthalate	ND		ug/L	2.28	5.56	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 16:25	SR
95-50-1	1,2-Dichlorobenzene	ND		ug/L	2.77	5.56	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 16:25	SR

Sample Information

Client Sample ID: TRC-MW-3_052413 **York Sample ID:** 13E0868-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0868	170246501	Water	May 24, 2013 10:20 am	05/24/2013

Semi-Volatiles, 8270 List - low level **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
541-73-1	1,3-Dichlorobenzene	ND		ug/L	2.90	5.56	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 16:25	SR
106-46-7	1,4-Dichlorobenzene	ND		ug/L	2.46	5.56	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 16:25	SR
91-94-1	3,3'-Dichlorobenzidine	ND		ug/L	1.41	5.56	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 16:25	SR
120-83-2	2,4-Dichlorophenol	ND		ug/L	2.10	5.56	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 16:25	SR
84-66-2	Diethyl phthalate	ND		ug/L	2.84	5.56	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 16:25	SR
105-67-9	2,4-Dimethylphenol	ND		ug/L	1.78	5.56	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 16:25	SR
131-11-3	Dimethyl phthalate	ND		ug/L	2.12	5.56	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 16:25	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/L	1.80	11.1	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 16:25	SR
51-28-5	2,4-Dinitrophenol	ND		ug/L	2.50	11.1	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 16:25	SR
606-20-2	2,6-Dinitrotoluene	ND		ug/L	1.79	5.56	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 16:25	SR
121-14-2	2,4-Dinitrotoluene	ND		ug/L	1.79	5.56	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 16:25	SR
117-84-0	Di-n-octyl phthalate	ND		ug/L	1.24	5.56	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 16:25	SR
206-44-0	Fluoranthene	ND		ug/L	0.0242	0.0556	1	EPA SW-846 8270C	05/29/2013 09:10	05/29/2013 17:42	SR
86-73-7	Fluorene	ND		ug/L	0.0117	0.0556	1	EPA SW-846 8270C	05/29/2013 09:10	05/29/2013 17:42	SR
118-74-1	Hexachlorobenzene	ND		ug/L	1.41	5.56	1	EPA SW-846 8270C	05/29/2013 09:10	05/29/2013 17:42	SR
87-68-3	Hexachlorobutadiene	ND		ug/L	3.10	5.56	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 16:25	SR
77-47-4	Hexachlorocyclopentadiene	ND		ug/L	2.81	5.56	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 16:25	SR
67-72-1	Hexachloroethane	ND		ug/L	3.38	5.56	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 16:25	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/L	0.0150	0.0556	1	EPA SW-846 8270C	05/29/2013 09:10	05/29/2013 17:42	SR
78-59-1	Isophorone	ND		ug/L	2.98	5.56	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 16:25	SR
91-57-6	2-Methylnaphthalene	ND		ug/L	0.0482	5.56	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 16:25	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/L	1.24	5.56	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 16:25	SR
95-48-7	2-Methylphenol	ND		ug/L	1.29	5.56	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 16:25	SR
91-20-3	Naphthalene	ND		ug/L	0.00867	5.56	1	EPA SW-846 8270C	05/29/2013 09:10	05/29/2013 17:42	SR
100-01-6	4-Nitroaniline	ND		ug/L	2.98	5.56	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 16:25	SR
99-09-2	3-Nitroaniline	ND		ug/L	1.87	5.56	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 16:25	SR
88-74-4	2-Nitroaniline	ND		ug/L	1.87	5.56	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 16:25	SR
98-95-3	Nitrobenzene	ND		ug/L	1.88	5.56	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 16:25	SR
88-75-5	2-Nitrophenol	ND		ug/L	2.62	5.56	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 16:25	SR
100-02-7	4-Nitrophenol	ND		ug/L	1.84	5.56	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 16:25	SR
621-64-7	N-nitroso-di-n-propylamine	ND		ug/L	2.84	5.56	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 16:25	SR
62-75-9	N-Nitrosodimethylamine	ND		ug/L	0.432	5.56	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 16:25	SR

Sample Information

Client Sample ID: TRC-MW-3_052413 **York Sample ID:** 13E0868-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0868	170246501	Water	May 24, 2013 10:20 am	05/24/2013

Semi-Volatiles, 8270 List - low level

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
86-30-6	N-Nitrosodiphenylamine	ND		ug/L	5.56	5.56	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 16:25	SR
87-86-5	Pentachlorophenol	ND		ug/L	1.61	5.56	1	EPA SW-846 8270C	05/29/2013 09:10	05/29/2013 17:42	SR
85-01-8	Phenanthrene	ND		ug/L	0.0556	0.0556	1	EPA SW-846 8270C	05/29/2013 09:10	05/29/2013 17:42	SR
108-95-2	Phenol	ND		ug/L	1.22	5.56	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 16:25	SR
129-00-0	Pyrene	ND		ug/L	0.0264	0.0556	1	EPA SW-846 8270C	05/29/2013 09:10	05/29/2013 17:42	SR
110-86-1	Pyridine	ND		ug/L	4.34	5.56	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 16:25	SR
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	2.74	5.56	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 16:25	SR
88-06-2	2,4,6-Trichlorophenol	ND		ug/L	1.94	5.56	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 16:25	SR
95-95-4	2,4,5-Trichlorophenol	ND		ug/L	2.12	5.56	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 16:25	SR

	Surrogate Recoveries	Result	Acceptance Range
5175-83-7	*Surrogate: 2,4,6-Tribromophenol*	*67.5 %*	*15-110*
321-60-8	*Surrogate: 2-Fluorobiphenyl*	*57.8 %*	*30-130*
367-12-4	*Surrogate: 2-Fluorophenol*	*25.8 %*	*15-110*
4165-60-0	*Surrogate: Nitrobenzene-d5*	*54.9 %*	*30-130*
4165-62-2	*Surrogate: Phenol-d5*	*14.3 %*	*10-110*
1718-51-0	*Surrogate: Terphenyl-d14*	*89.6 %*	*30-130*

Pesticides/PCBs, EPA 8081/8082 List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
8001-35-2	Toxaphene	ND	U	ug/L	0.0556	0.0556	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/31/2013 13:27	JW
72-43-5	Methoxychlor	ND	U	ug/L	0.00556	0.00556	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/31/2013 13:27	JW
1024-57-3	Heptachlor epoxide	ND	U	ug/L	0.00111	0.00111	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/31/2013 13:27	JW
76-44-8	Heptachlor	ND	U	ug/L	0.00111	0.00111	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/31/2013 13:27	JW
58-89-9	gamma-BHC (Lindane)	ND	U	ug/L	0.00111	0.00111	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/31/2013 13:27	JW
53494-70-5	Endrin ketone	ND	U	ug/L	0.00111	0.00111	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/31/2013 13:27	JW
7421-93-4	Endrin aldehyde	ND	U	ug/L	0.00111	0.00111	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/31/2013 13:27	JW
72-20-8	Endrin	ND	U	ug/L	0.00111	0.00111	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/31/2013 13:27	JW
1031-07-8	Endosulfan sulfate	ND	U	ug/L	0.00111	0.00111	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/31/2013 13:27	JW
33213-65-9	Endosulfan II	ND	U	ug/L	0.00111	0.00111	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/31/2013 13:27	JW
959-98-8	Endosulfan I	ND	U	ug/L	0.00111	0.00111	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/31/2013 13:27	JW
60-57-1	Dieldrin	ND	U	ug/L	0.00111	0.00111	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/31/2013 13:27	JW
319-86-8	delta-BHC	ND	U	ug/L	0.00111	0.00111	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/31/2013 13:27	JW
57-74-9	Chlordane, total	ND	U	ug/L	0.00444	0.00444	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/31/2013 13:27	JW

Sample Information

Client Sample ID: TRC-MW-3_052413 **York Sample ID:** 13E0868-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0868	170246501	Water	May 24, 2013 10:20 am	05/24/2013

Pesticides/PCBs, EPA 8081/8082 List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
319-85-7	beta-BHC	ND	U	ug/L	0.00111	0.00111	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/31/2013 13:27	JW
319-84-6	alpha-BHC	ND	U	ug/L	0.00111	0.00111	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/31/2013 13:27	JW
309-00-2	Aldrin	ND	U	ug/L	0.00111	0.00111	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/31/2013 13:27	JW
50-29-3	4,4'-DDT	ND	U	ug/L	0.00111	0.00111	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/31/2013 13:27	JW
72-55-9	4,4'-DDE	ND	U	ug/L	0.00111	0.00111	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/31/2013 13:27	JW
72-54-8	4,4'-DDD	ND	U	ug/L	0.00111	0.00111	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/31/2013 13:27	JW
11096-82-5	Aroclor 1260	ND	U	ug/L	0.0556	0.0556	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/30/2013 19:30	JW
11097-69-1	Aroclor 1254	ND	U	ug/L	0.0556	0.0556	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/30/2013 19:30	JW
12672-29-6	Aroclor 1248	ND	U	ug/L	0.0556	0.0556	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/30/2013 19:30	JW
53469-21-9	Aroclor 1242	ND	U	ug/L	0.0556	0.0556	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/30/2013 19:30	JW
11141-16-5	Aroclor 1232	ND	U	ug/L	0.0556	0.0556	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/30/2013 19:30	JW
11104-28-2	Aroclor 1221	ND	U	ug/L	0.0556	0.0556	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/30/2013 19:30	JW
12674-11-2	Aroclor 1016	ND	U	ug/L	0.0556	0.0556	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/30/2013 19:30	JW
1336-36-3	Total PCBs	ND	U	ug/L	0.0556	0.0556	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/30/2013 19:30	JW

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*31.2 %*	*30-150*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*45.0 %*	*30-150*

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	**32**		ug/L	10	10	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 11:59	MW
7440-36-0	Antimony	ND	U	ug/L	3	5	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 11:59	MW
7440-38-2	Arsenic	ND	U	ug/L	4	4	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 11:59	MW
7440-39-3	Barium	**60**		ug/L	2	10	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 11:59	MW
7440-41-7	Beryllium	ND	U	ug/L	1	1	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 11:59	MW
7440-43-9	Cadmium	ND	U	ug/L	2	3	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 11:59	MW
7440-70-2	Calcium	**82000**		ug/L	19	50	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 11:59	MW
7440-47-3	Chromium	ND	U	ug/L	2	5	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 11:59	MW
7440-48-4	Cobalt	ND	U	ug/L	2	5	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 11:59	MW
7440-50-8	Copper	ND	U	ug/L	2	5	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 11:59	MW
7439-89-6	Iron	**77**		ug/L	10	20	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 11:59	MW
7439-92-1	Lead	**4**		ug/L	2	3	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 11:59	MW
7439-95-4	Magnesium	**21600**		ug/L	10	50	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 11:59	MW

Sample Information

Client Sample ID: TRC-MW-3_052413 **York Sample ID:** 13E0868-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0868	170246501	Water	May 24, 2013 10:20 am	05/24/2013

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-96-5	Manganese	**44**		ug/L	2	5	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 11:59	MW
7440-02-0	Nickel	ND	U	ug/L	1	5	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 11:59	MW
7440-09-7	Potassium	**7890**		ug/L	26	50	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 11:59	MW
7782-49-2	Selenium	ND	U	ug/L	7	10	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 11:59	MW
7440-22-4	Silver	ND	U	ug/L	2	5	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 11:59	MW
7440-23-5	Sodium	**326000**		ug/L	61	100	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 11:59	MW
7440-28-0	Thallium	ND	U	ug/L	3	10	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 11:59	MW
7440-62-2	Vanadium	ND	U	ug/L	2	10	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 11:59	MW
7440-66-6	Zinc	**20**		ug/L	2	20	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 11:59	MW

Mercury by 7470/7471

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-7470

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND	U	ug/L	0.2	0.2	1	EPA SW846-7470	05/29/2013 13:49	05/30/2013 11:28	AA

Sample Information

Client Sample ID: FB_052413 **York Sample ID:** 13E0868-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0868	170246501	Water	May 24, 2013 9:20 am	05/24/2013

Volatile Organics, 8260 List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 05:16	SS
71-55-6	1,1,1-Trichloroethane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 05:16	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 05:16	SS
76-13-1	,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 05:16	SS
79-00-5	1,1,2-Trichloroethane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 05:16	SS
75-34-3	1,1-Dichloroethane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 05:16	SS
75-35-4	1,1-Dichloroethylene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 05:16	SS
563-58-6	1,1-Dichloropropylene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 05:16	SS
87-61-6	1,2,3-Trichlorobenzene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 05:16	SS
96-18-4	1,2,3-Trichloropropane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 05:16	SS
120-82-1	1,2,4-Trichlorobenzene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 05:16	SS

Sample Information

Client Sample ID: FB_052413 **York Sample ID:** 13E0868-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0868	170246501	Water	May 24, 2013 9:20 am	05/24/2013

Volatile Organics, 8260 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-63-6	1,2,4-Trimethylbenzene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 05:16	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 05:16	SS
106-93-4	1,2-Dibromoethane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 05:16	SS
95-50-1	1,2-Dichlorobenzene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 05:16	SS
107-06-2	1,2-Dichloroethane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 05:16	SS
78-87-5	1,2-Dichloropropane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 05:16	SS
108-67-8	1,3,5-Trimethylbenzene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 05:16	SS
541-73-1	1,3-Dichlorobenzene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 05:16	SS
142-28-9	1,3-Dichloropropane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 05:16	SS
106-46-7	1,4-Dichlorobenzene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 05:16	SS
594-20-7	2,2-Dichloropropane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 05:16	SS
78-93-3	2-Butanone	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 05:16	SS
95-49-8	2-Chlorotoluene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 05:16	SS
106-43-4	4-Chlorotoluene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 05:16	SS
67-64-1	Acetone	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 05:16	SS
71-43-2	Benzene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 05:16	SS
108-86-1	Bromobenzene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 05:16	SS
74-97-5	Bromochloromethane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 05:16	SS
75-27-4	Bromodichloromethane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 05:16	SS
75-25-2	Bromoform	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 05:16	SS
74-83-9	Bromomethane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 05:16	SS
56-23-5	Carbon tetrachloride	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 05:16	SS
108-90-7	Chlorobenzene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 05:16	SS
75-00-3	Chloroethane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 05:16	SS
67-66-3	Chloroform	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 05:16	SS
74-87-3	Chloromethane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 05:16	SS
156-59-2	cis-1,2-Dichloroethylene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 05:16	SS
10061-01-5	cis-1,3-Dichloropropylene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 05:16	SS
124-48-1	Dibromochloromethane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 05:16	SS
74-95-3	Dibromomethane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 05:16	SS
75-71-8	Dichlorodifluoromethane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 05:16	SS
100-41-4	Ethyl Benzene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 05:16	SS

Sample Information

Client Sample ID: FB_052413 **York Sample ID:** 13E0868-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0868	170246501	Water	May 24, 2013 9:20 am	05/24/2013

Volatile Organics, 8260 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
87-68-3	Hexachlorobutadiene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 05:16	SS
98-82-8	Isopropylbenzene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 05:16	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 05:16	SS
75-09-2	Methylene chloride	**7.2**		ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 05:16	SS
91-20-3	Naphthalene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 05:16	SS
104-51-8	n-Butylbenzene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 05:16	SS
103-65-1	n-Propylbenzene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 05:16	SS
95-47-6	o-Xylene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 05:16	SS
179601-23-1	p- & m- Xylenes	ND	U	ug/L	5.0	10	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 05:16	SS
99-87-6	p-Isopropyltoluene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 05:16	SS
135-98-8	sec-Butylbenzene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 05:16	SS
100-42-5	Styrene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 05:16	SS
98-06-6	tert-Butylbenzene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 05:16	SS
127-18-4	Tetrachloroethylene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 05:16	SS
108-88-3	Toluene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 05:16	SS
156-60-5	trans-1,2-Dichloroethylene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 05:16	SS
10061-02-6	trans-1,3-Dichloropropylene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 05:16	SS
79-01-6	Trichloroethylene	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 05:16	SS
75-69-4	Trichlorofluoromethane	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 05:16	SS
75-01-4	Vinyl Chloride	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 05:16	SS
1330-20-7	Xylenes, Total	ND	U	ug/L	7.5	15	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 05:16	SS
108-05-4	Vinyl acetate	ND	U	ug/L	2.5	5.0	1	EPA SW846-8260B	05/28/2013 12:55	05/29/2013 05:16	SS

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*107 %*	*72.6-129*
460-00-4	*Surrogate: p-Bromofluorobenzene*	*99.6 %*	*63.5-145*
2037-26-5	*Surrogate: Toluene-d8*	*101 %*	*81.2-127*

Sample Information

Client Sample ID: FB_052413 **York Sample ID:** 13E0868-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0868	170246501	Water	May 24, 2013 9:20 am	05/24/2013

Semi-Volatiles, 8270 List - low level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND		ug/L	0.0162	0.0526	1	EPA SW-846 8270C	05/29/2013 09:10	05/29/2013 18:11	SR
208-96-8	Acenaphthylene	ND		ug/L	0.0275	0.0526	1	EPA SW-846 8270C	05/29/2013 09:10	05/29/2013 18:11	SR
62-53-3	Aniline	ND		ug/L	1.58	5.26	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 16:56	SR
120-12-7	Anthracene	ND		ug/L	0.0179	0.0526	1	EPA SW-846 8270C	05/29/2013 09:10	05/29/2013 18:11	SR
56-55-3	Benzo(a)anthracene	ND		ug/L	0.0116	0.0526	1	EPA SW-846 8270C	05/29/2013 09:10	05/29/2013 18:11	SR
50-32-8	Benzo(a)pyrene	ND		ug/L	0.0158	0.0526	1	EPA SW-846 8270C	05/29/2013 09:10	05/29/2013 18:11	SR
205-99-2	Benzo(b)fluoranthene	ND		ug/L	0.0285	0.0526	1	EPA SW-846 8270C	05/29/2013 09:10	05/29/2013 18:11	SR
100-51-6	Benzyl alcohol	ND		ug/L	1.53	5.26	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 16:56	SR
191-24-2	Benzo(g,h,i)perylene	ND		ug/L	0.0116	0.0526	1	EPA SW-846 8270C	05/29/2013 09:10	05/29/2013 18:11	SR
207-08-9	Benzo(k)fluoranthene	ND		ug/L	0.0195	0.0526	1	EPA SW-846 8270C	05/29/2013 09:10	05/29/2013 18:11	SR
85-68-7	Benzyl butyl phthalate	ND		ug/L	0.897	5.26	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 16:56	SR
101-55-3	4-Bromophenyl phenyl ether	ND		ug/L	1.40	5.26	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 16:56	SR
59-50-7	4-Chloro-3-methylphenol	ND		ug/L	1.99	5.26	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 16:56	SR
106-47-8	4-Chloroaniline	ND		ug/L	3.14	5.26	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 16:56	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/L	1.86	5.26	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 16:56	SR
111-44-4	Bis(2-chloroethyl)ether	ND		ug/L	1.58	5.26	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 16:56	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/L	3.15	5.26	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 16:56	SR
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/L	0.496	5.26	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 16:56	SR
91-58-7	2-Chloronaphthalene	ND		ug/L	2.32	5.26	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 16:56	SR
95-57-8	2-Chlorophenol	ND		ug/L	1.88	5.26	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 16:56	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/L	2.58	5.26	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 16:56	SR
218-01-9	Chrysene	ND		ug/L	0.0122	0.0526	1	EPA SW-846 8270C	05/29/2013 09:10	05/29/2013 18:11	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/L	0.0418	0.0526	1	EPA SW-846 8270C	05/29/2013 09:10	05/29/2013 18:11	SR
132-64-9	Dibenzofuran	ND		ug/L	2.54	5.26	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 16:56	SR
84-74-2	Di-n-butyl phthalate	ND		ug/L	2.16	5.26	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 16:56	SR
95-50-1	1,2-Dichlorobenzene	ND		ug/L	2.62	5.26	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 16:56	SR
541-73-1	1,3-Dichlorobenzene	ND		ug/L	2.75	5.26	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 16:56	SR
106-46-7	1,4-Dichlorobenzene	ND		ug/L	2.33	5.26	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 16:56	SR
91-94-1	3,3'-Dichlorobenzidine	ND		ug/L	1.34	5.26	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 16:56	SR
120-83-2	2,4-Dichlorophenol	ND		ug/L	1.99	5.26	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 16:56	SR
84-66-2	Diethyl phthalate	ND		ug/L	2.69	5.26	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 16:56	SR
105-67-9	2,4-Dimethylphenol	ND		ug/L	1.68	5.26	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 16:56	SR

Sample Information

Client Sample ID: FB_052413 **York Sample ID:** 13E0868-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0868	170246501	Water	May 24, 2013 9:20 am	05/24/2013

Semi-Volatiles, 8270 List - low level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
131-11-3	Dimethyl phthalate	ND		ug/L	2.01	5.26	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 16:56	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/L	1.71	10.5	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 16:56	SR
51-28-5	2,4-Dinitrophenol	ND		ug/L	2.37	10.5	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 16:56	SR
606-20-2	2,6-Dinitrotoluene	ND		ug/L	1.69	5.26	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 16:56	SR
121-14-2	2,4-Dinitrotoluene	ND		ug/L	1.69	5.26	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 16:56	SR
117-84-0	Di-n-octyl phthalate	ND		ug/L	1.18	5.26	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 16:56	SR
206-44-0	Fluoranthene	ND		ug/L	0.0229	0.0526	1	EPA SW-846 8270C	05/29/2013 09:10	05/29/2013 18:11	SR
86-73-7	Fluorene	ND		ug/L	0.0111	0.0526	1	EPA SW-846 8270C	05/29/2013 09:10	05/29/2013 18:11	SR
118-74-1	Hexachlorobenzene	ND		ug/L	1.34	5.26	1	EPA SW-846 8270C	05/29/2013 09:10	05/29/2013 18:11	SR
87-68-3	Hexachlorobutadiene	ND		ug/L	2.94	5.26	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 16:56	SR
77-47-4	Hexachlorocyclopentadiene	ND		ug/L	2.66	5.26	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 16:56	SR
67-72-1	Hexachloroethane	ND		ug/L	3.20	5.26	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 16:56	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/L	0.0142	0.0526	1	EPA SW-846 8270C	05/29/2013 09:10	05/29/2013 18:11	SR
78-59-1	Isophorone	ND		ug/L	2.82	5.26	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 16:56	SR
91-57-6	2-Methylnaphthalene	ND		ug/L	0.0457	5.26	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 16:56	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/L	1.18	5.26	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 16:56	SR
95-48-7	2-Methylphenol	ND		ug/L	1.22	5.26	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 16:56	SR
91-20-3	Naphthalene	ND		ug/L	0.00821	5.26	1	EPA SW-846 8270C	05/29/2013 09:10	05/29/2013 18:11	SR
100-01-6	4-Nitroaniline	ND		ug/L	2.82	5.26	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 16:56	SR
99-09-2	3-Nitroaniline	ND		ug/L	1.77	5.26	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 16:56	SR
88-74-4	2-Nitroaniline	ND		ug/L	1.77	5.26	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 16:56	SR
98-95-3	Nitrobenzene	ND		ug/L	1.78	5.26	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 16:56	SR
88-75-5	2-Nitrophenol	ND		ug/L	2.48	5.26	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 16:56	SR
100-02-7	4-Nitrophenol	ND		ug/L	1.75	5.26	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 16:56	SR
621-64-7	N-nitroso-di-n-propylamine	ND		ug/L	2.69	5.26	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 16:56	SR
62-75-9	N-Nitrosodimethylamine	ND		ug/L	0.409	5.26	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 16:56	SR
86-30-6	N-Nitrosodiphenylamine	ND		ug/L	5.26	5.26	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 16:56	SR
87-86-5	Pentachlorophenol	ND		ug/L	1.53	5.26	1	EPA SW-846 8270C	05/29/2013 09:10	05/29/2013 18:11	SR
85-01-8	Phenanthrene	ND		ug/L	0.0526	0.0526	1	EPA SW-846 8270C	05/29/2013 09:10	05/29/2013 18:11	SR
108-95-2	Phenol	ND		ug/L	1.16	5.26	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 16:56	SR
129-00-0	Pyrene	ND		ug/L	0.0251	0.0526	1	EPA SW-846 8270C	05/29/2013 09:10	05/29/2013 18:11	SR
110-86-1	Pyridine	ND		ug/L	4.12	5.26	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 16:56	SR

Sample Information

Client Sample ID: FB_052413 **York Sample ID:** 13E0868-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0868	170246501	Water	May 24, 2013 9:20 am	05/24/2013

Semi-Volatiles, 8270 List - low level

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	2.60	5.26	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 16:56	SR
88-06-2	2,4,6-Trichlorophenol	ND		ug/L	1.84	5.26	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 16:56	SR
95-95-4	2,4,5-Trichlorophenol	ND		ug/L	2.01	5.26	1	EPA SW-846 8270C	05/29/2013 09:10	05/30/2013 16:56	SR

	Surrogate Recoveries	Result	Acceptance Range
5175-83-7	*Surrogate: 2,4,6-Tribromophenol*	*79.5 %*	*15-110*
321-60-8	*Surrogate: 2-Fluorobiphenyl*	*67.6 %*	*30-130*
367-12-4	*Surrogate: 2-Fluorophenol*	*25.9 %*	*15-110*
4165-60-0	*Surrogate: Nitrobenzene-d5*	*62.6 %*	*30-130*
4165-62-2	*Surrogate: Phenol-d5*	*13.7 %*	*10-110*
1718-51-0	*Surrogate: Terphenyl-d14*	*89.5 %*	*30-130*

Pesticides/PCBs, EPA 8081/8082 List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
8001-35-2	Toxaphene	ND	U	ug/L	0.0541	0.0541	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/31/2013 13:42	JW
72-43-5	Methoxychlor	ND	U	ug/L	0.00541	0.00541	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/31/2013 13:42	JW
1024-57-3	Heptachlor epoxide	ND	U	ug/L	0.00108	0.00108	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/31/2013 13:42	JW
76-44-8	Heptachlor	ND	U	ug/L	0.00108	0.00108	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/31/2013 13:42	JW
58-89-9	gamma-BHC (Lindane)	ND	U	ug/L	0.00108	0.00108	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/31/2013 13:42	JW
53494-70-5	Endrin ketone	ND	U	ug/L	0.00108	0.00108	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/31/2013 13:42	JW
7421-93-4	Endrin aldehyde	ND	U	ug/L	0.00108	0.00108	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/31/2013 13:42	JW
72-20-8	Endrin	ND	U	ug/L	0.00108	0.00108	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/31/2013 13:42	JW
1031-07-8	Endosulfan sulfate	ND	U	ug/L	0.00108	0.00108	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/31/2013 13:42	JW
33213-65-9	Endosulfan II	ND	U	ug/L	0.00108	0.00108	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/31/2013 13:42	JW
959-98-8	Endosulfan I	ND	U	ug/L	0.00108	0.00108	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/31/2013 13:42	JW
60-57-1	Dieldrin	ND	U	ug/L	0.00108	0.00108	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/31/2013 13:42	JW
319-86-8	delta-BHC	ND	U	ug/L	0.00108	0.00108	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/31/2013 13:42	JW
57-74-9	Chlordane, total	ND	U	ug/L	0.00432	0.00432	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/31/2013 13:42	JW
319-85-7	beta-BHC	ND	U	ug/L	0.00108	0.00108	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/31/2013 13:42	JW
319-84-6	alpha-BHC	ND	U	ug/L	0.00108	0.00108	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/31/2013 13:42	JW
309-00-2	Aldrin	ND	U	ug/L	0.00108	0.00108	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/31/2013 13:42	JW
50-29-3	4,4'-DDT	ND	U	ug/L	0.00108	0.00108	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/31/2013 13:42	JW
72-55-9	4,4'-DDE	ND	U	ug/L	0.00108	0.00108	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/31/2013 13:42	JW
72-54-8	4,4'-DDD	ND	U	ug/L	0.00108	0.00108	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/31/2013 13:42	JW

Sample Information

Client Sample ID: FB_052413 **York Sample ID:** 13E0868-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0868	170246501	Water	May 24, 2013 9:20 am	05/24/2013

Pesticides/PCBs, EPA 8081/8082 List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
11096-82-5	Aroclor 1260	ND	U	ug/L	0.0541	0.0541	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/30/2013 20:00	JW
11097-69-1	Aroclor 1254	ND	U	ug/L	0.0541	0.0541	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/30/2013 20:00	JW
12672-29-6	Aroclor 1248	ND	U	ug/L	0.0541	0.0541	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/30/2013 20:00	JW
53469-21-9	Aroclor 1242	ND	U	ug/L	0.0541	0.0541	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/30/2013 20:00	JW
11141-16-5	Aroclor 1232	ND	U	ug/L	0.0541	0.0541	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/30/2013 20:00	JW
11104-28-2	Aroclor 1221	ND	U	ug/L	0.0541	0.0541	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/30/2013 20:00	JW
12674-11-2	Aroclor 1016	ND	U	ug/L	0.0541	0.0541	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/30/2013 20:00	JW
1336-36-3	Total PCBs	ND	U	ug/L	0.0541	0.0541	1	EPA SW 846-8081/8082	05/29/2013 06:17	05/30/2013 20:00	JW

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*45.4 %*	*30-150*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*49.6 %*	*30-150*

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	ND	U	ug/L	10	10	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 12:04	MW
7440-36-0	Antimony	ND	U	ug/L	3	5	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 12:04	MW
7440-38-2	Arsenic	ND	U	ug/L	4	4	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 12:04	MW
7440-39-3	Barium	ND	U	ug/L	2	10	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 12:04	MW
7440-41-7	Beryllium	ND	U	ug/L	1	1	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 12:04	MW
7440-43-9	Cadmium	ND	U	ug/L	2	3	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 12:04	MW
7440-70-2	Calcium	**295**		ug/L	19	50	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 12:04	MW
7440-47-3	Chromium	ND	U	ug/L	2	5	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 12:04	MW
7440-48-4	Cobalt	ND	U	ug/L	2	5	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 12:04	MW
7440-50-8	Copper	ND	U	ug/L	2	5	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 12:04	MW
7439-89-6	Iron	ND	U	ug/L	10	20	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 12:04	MW
7439-92-1	Lead	**4**		ug/L	2	3	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 12:04	MW
7439-95-4	Magnesium	ND	U	ug/L	10	50	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 12:04	MW
7439-96-5	Manganese	ND	U	ug/L	2	5	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 12:04	MW
7440-02-0	Nickel	ND	U	ug/L	1	5	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 12:04	MW
7440-09-7	Potassium	ND	U	ug/L	26	50	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 12:04	MW
7782-49-2	Selenium	ND	U	ug/L	7	10	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 12:04	MW
7440-22-4	Silver	ND	U	ug/L	2	5	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 12:04	MW
7440-23-5	Sodium	**214**		ug/L	61	100	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 12:04	MW

Sample Information

Client Sample ID: FB_052413 **York Sample ID:** 13E0868-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0868	170246501	Water	May 24, 2013 9:20 am	05/24/2013

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-28-0	Thallium	ND	U	ug/L	3	10	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 12:04	MW
7440-62-2	Vanadium	ND	U	ug/L	2	10	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 12:04	MW
7440-66-6	Zinc	**36**		ug/L	2	20	1	EPA SW846-6010B/EPA 200.7	05/30/2013 08:02	05/30/2013 12:04	MW

Mercury by 7470/7471

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-7470

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND	U	ug/L	0.2	0.2	1	EPA SW846-7470	05/29/2013 13:49	05/30/2013 11:28	AA

Analytical Batch Summary

Batch ID: BE31237 **Preparation Method:** EPA 5030B **Prepared By:** EKM

YORK Sample ID	Client Sample ID	Preparation Date
13E0868-01	MW-8_052313	05/28/13
13E0868-02	DUP-1_052313	05/28/13
13E0868-03	MW-9_052313	05/28/13
13E0868-04	MW-6_052313	05/28/13
13E0868-05	MW-7_052313	05/28/13
13E0868-06	MW-3_052313	05/28/13
13E0868-07	MW-10_052313	05/28/13
13E0868-08	TRC-MW-3_052413	05/28/13
13E0868-09	FB_052413	05/28/13
BE31237-BLK1	Blank	05/28/13
BE31237-BS1	LCS	05/28/13
BE31237-BSD1	LCS Dup	05/28/13

Batch ID: BE31258 **Preparation Method:** EPA SW846-3510C Low Level **Prepared By:** TFD

YORK Sample ID	Client Sample ID	Preparation Date
13E0868-01	MW-8_052313	05/29/13
13E0868-02	DUP-1_052313	05/29/13
13E0868-03	MW-9_052313	05/29/13
13E0868-04	MW-6_052313	05/29/13
13E0868-05	MW-7_052313	05/29/13
13E0868-06	MW-3_052313	05/29/13
13E0868-07	MW-10_052313	05/29/13
13E0868-08	TRC-MW-3_052413	05/29/13
13E0868-09	FB_052413	05/29/13
BE31258-BLK1	Blank	05/29/13
BE31258-BLK1	Blank	05/29/13
BE31258-BS1	LCS	05/29/13
BE31258-BS2	LCS	05/29/13
BE31258-BS2	LCS	05/29/13
BE31258-BSD2	LCS Dup	05/29/13
BE31258-BSD2	LCS Dup	05/29/13

Batch ID: BE31278 **Preparation Method:** EPA 3510C **Prepared By:** KAM

YORK Sample ID	Client Sample ID	Preparation Date
13E0868-01	MW-8_052313	05/29/13
13E0868-02	DUP-1_052313	05/29/13
13E0868-03	MW-9_052313	05/29/13
13E0868-04	MW-6_052313	05/29/13
13E0868-05	MW-7_052313	05/29/13
13E0868-06	MW-3_052313	05/29/13
13E0868-07	MW-10_052313	05/29/13
13E0868-08	TRC-MW-3_052413	05/29/13
13E0868-09	FB_052413	05/29/13
BE31278-BLK1	Blank	05/29/13

BE31278-BS1	LCS	05/29/13
BE31278-BS2	LCS	05/29/13

Batch ID: BE31297 **Preparation Method:** EPA SW846-7470 **Prepared By:** AA

YORK Sample ID	Client Sample ID	Preparation Date
13E0868-01	MW-8_052313	05/29/13
13E0868-02	DUP-1_052313	05/29/13
13E0868-03	MW-9_052313	05/29/13
13E0868-04	MW-6_052313	05/29/13
13E0868-05	MW-7_052313	05/29/13
13E0868-06	MW-3_052313	05/29/13
13E0868-07	MW-10_052313	05/29/13
13E0868-08	TRC-MW-3_052413	05/29/13
13E0868-09	FB_052413	05/29/13
BE31297-BLK1	Blank	05/29/13
BE31297-BS1	LCS	05/29/13

Batch ID: BE31367 **Preparation Method:** EPA 3010A **Prepared By:** MW

YORK Sample ID	Client Sample ID	Preparation Date
13E0868-01	MW-8_052313	05/30/13
13E0868-02	DUP-1_052313	05/30/13
13E0868-03	MW-9_052313	05/30/13
13E0868-04	MW-6_052313	05/30/13
13E0868-05	MW-7_052313	05/30/13
13E0868-06	MW-3_052313	05/30/13
13E0868-07	MW-10_052313	05/30/13
13E0868-08	TRC-MW-3_052413	05/30/13
13E0868-09	FB_052413	05/30/13
BE31367-BLK1	Blank	05/30/13
BE31367-DUP1	Duplicate	05/30/13
BE31367-MS1	Matrix Spike	05/30/13
BE31367-SRM1	Reference	05/30/13
BE31367-SRM2	Reference	05/30/13

Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BE31237 - EPA 5030B											
Blank (BE31237-BLK1)											Prepared & Analyzed: 05/28/2013
1,1,1,2-Tetrachloroethane	ND	5.0	ug/L								
1,1,1-Trichloroethane	ND	5.0	"								
1,1,2,2-Tetrachloroethane	ND	5.0	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	5.0	"								
1,1,2-Trichloroethane	ND	5.0	"								
1,1-Dichloroethane	ND	5.0	"								
1,1-Dichloroethylene	ND	5.0	"								
1,1-Dichloropropylene	ND	5.0	"								
1,2,3-Trichlorobenzene	ND	5.0	"								
1,2,3-Trichloropropane	ND	5.0	"								
1,2,4-Trichlorobenzene	ND	5.0	"								
1,2,4-Trimethylbenzene	ND	5.0	"								
1,2-Dibromo-3-chloropropane	ND	5.0	"								
1,2-Dibromoethane	ND	5.0	"								
1,2-Dichlorobenzene	ND	5.0	"								
1,2-Dichloroethane	ND	5.0	"								
1,2-Dichloropropane	ND	5.0	"								
1,3,5-Trimethylbenzene	ND	5.0	"								
1,3-Dichlorobenzene	ND	5.0	"								
1,3-Dichloropropane	ND	5.0	"								
1,4-Dichlorobenzene	ND	5.0	"								
2,2-Dichloropropane	ND	5.0	"								
2-Butanone	ND	5.0	"								
2-Chlorotoluene	ND	5.0	"								
4-Chlorotoluene	ND	5.0	"								
Acetone	ND	5.0	"								
Benzene	ND	5.0	"								
Bromobenzene	ND	5.0	"								
Bromochloromethane	ND	5.0	"								
Bromodichloromethane	ND	5.0	"								
Bromoform	ND	5.0	"								
Bromomethane	ND	5.0	"								
Carbon tetrachloride	ND	5.0	"								
Chlorobenzene	ND	5.0	"								
Chloroethane	ND	5.0	"								
Chloroform	ND	5.0	"								
Chloromethane	ND	5.0	"								
cis-1,2-Dichloroethylene	ND	5.0	"								
cis-1,3-Dichloropropylene	ND	5.0	"								
Dibromochloromethane	ND	5.0	"								
Dibromomethane	ND	5.0	"								
Dichlorodifluoromethane	ND	5.0	"								
Ethyl Benzene	ND	5.0	"								
Hexachlorobutadiene	ND	5.0	"								
Isopropylbenzene	ND	5.0	"								
Methyl tert-butyl ether (MTBE)	ND	5.0	"								
Methylene chloride	ND	5.0	"								
Naphthalene	2.7	5.0	"								
n-Butylbenzene	ND	5.0	"								
n-Propylbenzene	ND	5.0	"								
o-Xylene	ND	5.0	"								

Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BE31237 - EPA 5030B											
Blank (BE31237-BLK1)									Prepared & Analyzed: 05/28/2013		
p- & m- Xylenes	ND	10	ug/L								
p-Isopropyltoluene	ND	5.0	"								
sec-Butylbenzene	ND	5.0	"								
Styrene	ND	5.0	"								
tert-Butylbenzene	ND	5.0	"								
Tetrachloroethylene	ND	5.0	"								
Toluene	ND	5.0	"								
trans-1,2-Dichloroethylene	ND	5.0	"								
trans-1,3-Dichloropropylene	ND	5.0	"								
Trichloroethylene	ND	5.0	"								
Trichlorofluoromethane	ND	5.0	"								
Vinyl Chloride	ND	5.0	"								
Xylenes, Total	ND	15	"								
Vinyl acetate	ND	5.0	"								
Surrogate: 1,2-Dichloroethane-d4	*47.8*		*"*	*50.0*		*95.7*	*72.6-129*				
Surrogate: p-Bromofluorobenzene	*49.4*		*"*	*50.0*		*98.9*	*63.5-145*				
Surrogate: Toluene-d8	*49.9*		*"*	*50.0*		*99.8*	*81.2-127*				
LCS (BE31237-BS1)									Prepared & Analyzed: 05/28/2013		
1,1,1,2-Tetrachloroethane	47		ug/L	50.0		93.8	82.3-130				
1,1,1-Trichloroethane	46		"	50.0		92.1	75.6-137				
1,1,2,2-Tetrachloroethane	53		"	50.0		105	71.3-131				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	47		"	50.0		94.3	71.1-129				
1,1,2-Trichloroethane	49		"	50.0		97.5	74.5-129				
1,1-Dichloroethane	46		"	50.0		91.5	79.6-132				
1,1-Dichloroethylene	43		"	50.0		85.7	80.2-146				
1,1-Dichloropropylene	45		"	50.0		90.0	75-136				
1,2,3-Trichlorobenzene	45		"	50.0		91.0	66.1-136				
1,2,3-Trichloropropane	49		"	50.0		98.9	63-131				
1,2,4-Trichlorobenzene	45		"	50.0		89.8	70.6-136				
1,2,4-Trimethylbenzene	45		"	50.0		90.0	75.3-135				
1,2-Dibromo-3-chloropropane	63		"	50.0		126	58.9-140				
1,2-Dibromoethane	51		"	50.0		102	79-130				
1,2-Dichlorobenzene	47		"	50.0		93.2	76.1-122				
1,2-Dichloroethane	48		"	50.0		96.2	74.6-132				
1,2-Dichloropropane	51		"	50.0		103	76.9-129				
1,3,5-Trimethylbenzene	46		"	50.0		92.7	70.6-127				
1,3-Dichlorobenzene	46		"	50.0		91.7	77-124				
1,3-Dichloropropane	50		"	50.0		100	75.8-126				
1,4-Dichlorobenzene	46		"	50.0		91.2	76.6-125				
2,2-Dichloropropane	50		"	50.0		99.3	69-133				
2-Butanone	53		"	50.0		107	70-130				
2-Chlorotoluene	44		"	50.0		88.0	66.3-119				
4-Chlorotoluene	46		"	50.0		91.9	69.2-127				
Acetone	47		"	50.0		93.1	70-130				
Benzene	49		"	50.0		97.7	76.2-129				
Bromobenzene	47		"	50.0		94.6	71.3-123				
Bromochloromethane	53		"	50.0		105	70.8-137				
Bromodichloromethane	49		"	50.0		97.0	79.7-134				
Bromoform	50		"	50.0		99.4	70.5-141				
Bromomethane	37		"	50.0		73.0	43.9-147				
Carbon tetrachloride	46		"	50.0		92.5	78.1-138				

Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BE31237 - EPA 5030B											
LCS (BE31237-BS1)								Prepared & Analyzed: 05/28/2013			
Chlorobenzene	48		ug/L	50.0		95.0	80.4-125				
Chloroethane	42		"	50.0		83.6	55.8-140				
Chloroform	47		"	50.0		95.0	76.6-133				
Chloromethane	36		"	50.0		72.5	48.8-115				
cis-1,2-Dichloroethylene	50		"	50.0		100	75.1-128				
cis-1,3-Dichloropropylene	50		"	50.0		99.3	74.5-128				
Dibromochloromethane	50		"	50.0		99.4	79.8-134				
Dibromomethane	52		"	50.0		103	79-130				
Dichlorodifluoromethane	22		"	50.0		43.7	47.1-101	Low Bias			
Ethyl Benzene	48		"	50.0		95.3	80.8-128				
Hexachlorobutadiene	43		"	50.0		86.1	64.8-128				
Isopropylbenzene	46		"	50.0		91.9	75.5-135				
Methyl tert-butyl ether (MTBE)	50		"	50.0		100	65.1-140				
Methylene chloride	39		"	50.0		77.6	61.3-120				
Naphthalene	51		"	50.0		102	62.3-148				
n-Butylbenzene	44		"	50.0		87.3	67.2-123				
n-Propylbenzene	45		"	50.0		90.4	70.5-127				
o-Xylene	46		"	50.0		91.8	75.9-122				
p- & m- Xylenes	94		"	100		93.9	77.7-127				
p-Isopropyltoluene	45		"	50.0		90.3	75.6-129				
sec-Butylbenzene	46		"	50.0		92.4	71.5-125				
Styrene	49		"	50.0		97.4	77.8-123				
tert-Butylbenzene	46		"	50.0		92.5	75.9-151				
Tetrachloroethylene	47		"	50.0		93.6	63.6-167				
Toluene	48		"	50.0		95.3	77-123				
trans-1,2-Dichloroethylene	45		"	50.0		90.7	76.3-139				
trans-1,3-Dichloropropylene	49		"	50.0		98.0	72.5-137				
Trichloroethylene	47		"	50.0		93.5	77.9-130				
Trichlorofluoromethane	38		"	50.0		76.5	57.4-133				
Vinyl Chloride	37		"	50.0		73.5	54.9-124				
Vinyl acetate	41		"	50.0		81.8	70-130				
Surrogate: 1,2-Dichloroethane-d4	*49.9*		*"*	*50.0*		*99.9*	*72.6-129*				
Surrogate: p-Bromofluorobenzene	*49.6*		*"*	*50.0*		*99.2*	*63.5-145*				
Surrogate: Toluene-d8	*50.6*		*"*	*50.0*		*101*	*81.2-127*				



Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BE31237 - EPA 5030B											
LCS Dup (BE31237-BSD1)								Prepared & Analyzed: 05/28/2013			
1,1,1,2-Tetrachloroethane	48		ug/L	50.0		95.1	82.3-130		1.38	21.1	
1,1,1-Trichloroethane	46		"	50.0		91.4	75.6-137		0.828	19.7	
1,1,2,2-Tetrachloroethane	53		"	50.0		106	71.3-131		0.379	20.8	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	48		"	50.0		96.6	71.1-129		2.45	21.7	
1,1,2-Trichloroethane	50		"	50.0		100	74.5-129		2.91	20.3	
1,1-Dichloroethane	47		"	50.0		93.3	79.6-132		1.90	20.6	
1,1-Dichloroethylene	44		"	50.0		87.3	80.2-146		1.83	20	
1,1-Dichloropropylene	45		"	50.0		90.4	75-136		0.355	19.3	
1,2,3-Trichlorobenzene	45		"	50.0		89.6	66.1-136		1.57	21.6	
1,2,3-Trichloropropane	48		"	50.0		96.0	63-131		2.93	23.9	
1,2,4-Trichlorobenzene	43		"	50.0		86.3	70.6-136		4.02	21.7	
1,2,4-Trimethylbenzene	44		"	50.0		88.4	75.3-135		1.79	18.8	
1,2-Dibromo-3-chloropropane	62		"	50.0		124	58.9-140		1.30	27.7	
1,2-Dibromoethane	50		"	50.0		100	79-130		1.56	23	
1,2-Dichlorobenzene	46		"	50.0		91.4	76.1-122		1.95	19.8	
1,2-Dichloroethane	48		"	50.0		95.6	74.6-132		0.605	20.2	
1,2-Dichloropropane	51		"	50.0		101	76.9-129		1.73	20.7	
1,3,5-Trimethylbenzene	44		"	50.0		89.0	70.6-127		4.12	18.9	
1,3-Dichlorobenzene	45		"	50.0		89.5	77-124		2.41	19.2	
1,3-Dichloropropane	52		"	50.0		103	75.8-126		3.15	22.1	
1,4-Dichlorobenzene	45		"	50.0		90.3	76.6-125		0.948	18.6	
2,2-Dichloropropane	49		"	50.0		97.4	69-133		1.95	19.8	
2-Butanone	58		"	50.0		116	70-130		8.08	30	
2-Chlorotoluene	44		"	50.0		87.9	66.3-119		0.0682	21.6	
4-Chlorotoluene	46		"	50.0		91.2	69.2-127		0.721	19	
Acetone	46		"	50.0		91.2	70-130		2.04	30	
Benzene	49		"	50.0		98.3	76.2-129		0.571	19	
Bromobenzene	47		"	50.0		94.5	71.3-123		0.0635	20.3	
Bromochloromethane	53		"	50.0		105	70.8-137		0.114	23.9	
Bromodichloromethane	49		"	50.0		98.1	79.7-134		1.11	21	
Bromoform	51		"	50.0		102	70.5-141		2.27	21.8	
Bromomethane	35		"	50.0		69.5	43.9-147		4.94	28.4	
Carbon tetrachloride	46		"	50.0		91.7	78.1-138		0.869	20.1	
Chlorobenzene	48		"	50.0		95.5	80.4-125		0.441	19.9	
Chloroethane	43		"	50.0		86.2	55.8-140		3.16	23.3	
Chloroform	48		"	50.0		96.3	76.6-133		1.38	20.3	
Chloromethane	37		"	50.0		73.6	48.8-115		1.56	24.5	
cis-1,2-Dichloroethylene	48		"	50.0		96.5	75.1-128		3.86	20.5	
cis-1,3-Dichloropropylene	51		"	50.0		102	74.5-128		2.37	19.9	
Dibromochloromethane	51		"	50.0		102	79.8-134		2.19	21.3	
Dibromomethane	52		"	50.0		105	79-130		1.27	22.4	
Dichlorodifluoromethane	22		"	50.0		43.5	47.1-101	Low Bias	0.413	23.9	
Ethyl Benzene	48		"	50.0		96.4	80.8-128		1.09	19.2	
Hexachlorobutadiene	42		"	50.0		83.6	64.8-128		2.99	20.6	
Isopropylbenzene	45		"	50.0		90.2	75.5-135		1.87	20	
Methyl tert-butyl ether (MTBE)	50		"	50.0		100	65.1-140		0.220	23.6	
Methylene chloride	39		"	50.0		78.9	61.3-120		1.64	20.4	
Naphthalene	50		"	50.0		101	62.3-148		1.07	27.1	
n-Butylbenzene	43		"	50.0		85.8	67.2-123		1.80	19.1	
n-Propylbenzene	45		"	50.0		90.5	70.5-127		0.111	23.4	
o-Xylene	46		"	50.0		92.3	75.9-122		0.608	19.3	

Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BE31237 - EPA 5030B											
LCS Dup (BE31237-BSD1)								Prepared & Analyzed: 05/28/2013			
p- & m- Xylenes	93		ug/L	100		93.5	77.7-127		0.438	18.6	
p-Isopropyltoluene	44		"	50.0		88.3	75.6-129		2.33	19.1	
sec-Butylbenzene	45		"	50.0		90.4	71.5-125		2.17	18.9	
Styrene	49		"	50.0		97.1	77.8-123		0.329	20.9	
tert-Butylbenzene	45		"	50.0		90.3	75.9-151		2.36	20.9	
Tetrachloroethylene	47		"	50.0		94.3	63.6-167		0.766	27.7	
Toluene	48		"	50.0		96.1	77-123		0.773	18.7	
trans-1,2-Dichloroethylene	45		"	50.0		89.5	76.3-139		1.38	19.5	
trans-1,3-Dichloropropylene	49		"	50.0		98.3	72.5-137		0.346	19.3	
Trichloroethylene	47		"	50.0		93.1	77.9-130		0.429	20.5	
Trichlorofluoromethane	38		"	50.0		76.9	57.4-133		0.495	21.4	
Vinyl Chloride	38		"	50.0		76.2	54.9-124		3.58	22.3	
Vinyl acetate	44		"	50.0		87.5	70-130		6.69	30	
Surrogate: 1,2-Dichloroethane-d4	*50.6*		*"*	*50.0*		*101*	*72.6-129*				
Surrogate: p-Bromofluorobenzene	*48.6*		*"*	*50.0*		*97.3*	*63.5-145*				
Surrogate: Toluene-d8	*50.1*		*"*	*50.0*		*100*	*81.2-127*				

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BE31278 - EPA 3510C											
Blank (BE31278-BLK1)											Prepared: 05/29/2013 Analyzed: 05/30/2013
Acenaphthene	ND	0.0500	ug/L								
Acenaphthylene	ND	0.0500	"								
Aniline	ND	5.00	"								
Anthracene	ND	0.0500	"								
Benzo(a)anthracene	ND	0.0500	"								
Benzo(a)pyrene	ND	0.0500	"								
Benzo(b)fluoranthene	ND	0.0500	"								
Benzyl alcohol	ND	5.00	"								
Benzo(g,h,i)perylene	ND	0.0500	"								
Benzo(k)fluoranthene	ND	0.0500	"								
Benzyl butyl phthalate	ND	5.00	"								
4-Bromophenyl phenyl ether	ND	5.00	"								
4-Chloro-3-methylphenol	ND	5.00	"								
4-Chloroaniline	ND	5.00	"								
Bis(2-chloroethoxy)methane	ND	5.00	"								
Bis(2-chloroethyl)ether	ND	5.00	"								
Bis(2-chloroisopropyl)ether	ND	5.00	"								
Bis(2-ethylhexyl)phthalate	0.800	5.00	"								
2-Chloronaphthalene	ND	5.00	"								
2-Chlorophenol	ND	5.00	"								
4-Chlorophenyl phenyl ether	ND	5.00	"								
Chrysene	ND	0.0500	"								
Dibenzo(a,h)anthracene	ND	0.0500	"								
Dibenzofuran	ND	5.00	"								
Di-n-butyl phthalate	ND	5.00	"								
1,2-Dichlorobenzene	ND	5.00	"								
1,3-Dichlorobenzene	ND	5.00	"								
1,4-Dichlorobenzene	ND	5.00	"								
3,3'-Dichlorobenzidine	ND	5.00	"								
2,4-Dichlorophenol	ND	5.00	"								
Diethyl phthalate	ND	5.00	"								
2,4-Dimethylphenol	ND	5.00	"								
Dimethyl phthalate	ND	5.00	"								
4,6-Dinitro-2-methylphenol	ND	10.0	"								
2,4-Dinitrophenol	ND	10.0	"								
2,6-Dinitrotoluene	ND	5.00	"								
2,4-Dinitrotoluene	ND	5.00	"								
Di-n-octyl phthalate	ND	5.00	"								
Fluoranthene	ND	0.0500	"								
Fluorene	ND	0.0500	"								
Hexachlorobenzene	ND	5.00	"								
Hexachlorobutadiene	ND	5.00	"								
Hexachlorocyclopentadiene	ND	5.00	"								
Hexachloroethane	ND	5.00	"								
Indeno(1,2,3-cd)pyrene	ND	0.0500	"								
Isophorone	ND	5.00	"								
2-Methylnaphthalene	ND	5.00	"								
3- & 4-Methylphenols	ND	5.00	"								
2-Methylphenol	ND	5.00	"								
Naphthalene	ND	5.00	"								
4-Nitroaniline	ND	5.00	"								



Semivolatile Organic Compounds by EPA Method 8270C - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BE31278 - EPA 3510C											
Blank (BE31278-BLK1)									Prepared: 05/29/2013 Analyzed: 05/30/2013		
3-Nitroaniline	ND	5.00	ug/L								
2-Nitroaniline	ND	5.00	"								
Nitrobenzene	ND	5.00	"								
2-Nitrophenol	ND	5.00	"								
4-Nitrophenol	ND	5.00	"								
N-nitroso-di-n-propylamine	ND	5.00	"								
N-Nitrosodimethylamine	ND	5.00	"								
N-Nitrosodiphenylamine	ND	5.00	"								
Pentachlorophenol	ND	5.00	"								
Phenanthrene	ND	0.0500	"								
Phenol	ND	5.00	"								
Pyrene	ND	0.0500	"								
Pyridine	ND	5.00	"								
1,2,4-Trichlorobenzene	ND	5.00	"								
2,4,6-Trichlorophenol	ND	5.00	"								
2,4,5-Trichlorophenol	ND	5.00	"								
Surrogate: 2,4,6-Tribromophenol	*75.8*		*"*	*75.2*		*101*	*15-110*				
Surrogate: 2-Fluorobiphenyl	*44.4*		*"*	*50.2*		*88.5*	*30-130*				
Surrogate: 2-Fluorophenol	*27.4*		*"*	*74.8*		*36.7*	*15-110*				
Surrogate: Nitrobenzene-d5	*40.8*		*"*	*49.9*		*81.7*	*30-130*				
Surrogate: Phenol-d5	*15.1*		*"*	*74.9*		*20.2*	*10-110*				
Surrogate: Terphenyl-d14	*58.2*		*"*	*50.0*		*116*	*30-130*				
LCS (BE31278-BS1)									Prepared: 05/29/2013 Analyzed: 05/30/2013		
Acenaphthene	44.1	0.0500	ug/L	50.0		88.2	30-140				
Acenaphthylene	41.9	0.0500	"	50.0		83.8	30-140				
Aniline	21.4	5.00	"	50.0		42.9	30-140				
Anthracene	48.3	0.0500	"	50.0		96.6	30-140				
Benzo(a)anthracene	47.7	0.0500	"	50.0		95.3	30-140				
Benzo(a)pyrene	53.0	0.0500	"	50.0		106	30-140				
Benzo(b)fluoranthene	46.2	0.0500	"	50.0		92.3	30-140				
Benzyl alcohol	21.2	5.00	"	50.0		42.4	30-130				
Benzo(g,h,i)perylene	16.4	0.0500	"	50.0		32.8	30-140				
Benzo(k)fluoranthene	48.3	0.0500	"	50.0		96.6	30-140				
Benzyl butyl phthalate	44.7	5.00	"	50.0		89.5	30-140				
4-Bromophenyl phenyl ether	51.0	5.00	"	50.0		102	30-140				
4-Chloro-3-methylphenol	35.6	5.00	"	50.0		71.2	30-130				
4-Chloroaniline	38.6	5.00	"	50.0		77.3	30-140				
Bis(2-chloroethoxy)methane	39.2	5.00	"	50.0		78.4	30-140				
Bis(2-chloroethyl)ether	34.8	5.00	"	50.0		69.6	30-140				
Bis(2-chloroisopropyl)ether	35.9	5.00	"	50.0		71.7	30-140				
Bis(2-ethylhexyl)phthalate	48.5	5.00	"	50.0		97.1	30-140				
2-Chloronaphthalene	40.5	5.00	"	50.0		80.9	30-140				
2-Chlorophenol	28.5	5.00	"	50.0		57.0	30-130				
4-Chlorophenyl phenyl ether	47.6	5.00	"	50.0		95.2	30-140				
Chrysene	48.3	0.0500	"	50.0		96.6	30-140				
Dibenzo(a,h)anthracene	31.0	0.0500	"	50.0		62.0	30-140				
Dibenzofuran	44.5	5.00	"	50.0		89.0	30-140				
Di-n-butyl phthalate	46.6	5.00	"	50.0		93.3	30-140				
1,2-Dichlorobenzene	31.9	5.00	"	50.0		63.9	30-140				
1,3-Dichlorobenzene	32.8	5.00	"	50.0		65.7	30-140				

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BE31278 - EPA 3510C											
LCS (BE31278-BS1)								Prepared: 05/29/2013 Analyzed: 05/30/2013			
1,4-Dichlorobenzene	33.2	5.00	ug/L	50.0		66.4	30-140				
3,3'-Dichlorobenzidine	54.7	5.00	"	50.0		109	30-140				
2,4-Dichlorophenol	37.3	5.00	"	50.0		74.7	30-130				
Diethyl phthalate	44.5	5.00	"	50.0		89.0	30-140				
2,4-Dimethylphenol	32.6	5.00	"	50.0		65.2	30-130				
Dimethyl phthalate	43.2	5.00	"	50.0		86.4	30-140				
4,6-Dinitro-2-methylphenol	52.9	10.0	"	50.0		106	30-130				
2,4-Dinitrophenol	48.6	10.0	"	50.0		97.1	30-130				
2,6-Dinitrotoluene	47.8	5.00	"	50.0		95.6	30-140				
2,4-Dinitrotoluene	44.7	5.00	"	50.0		89.5	30-140				
Di-n-octyl phthalate	45.2	5.00	"	50.0		90.4	30-140				
Fluoranthene	47.2	0.0500	"	50.0		94.5	30-140				
Fluorene	47.2	0.0500	"	50.0		94.5	30-140				
Hexachlorobenzene	47.6	5.00	"	50.0		95.2	30-140				
Hexachlorobutadiene	35.0	5.00	"	50.0		69.9	30-140				
Hexachlorocyclopentadiene	33.5	5.00	"	50.0		67.0	30-140				
Hexachloroethane	32.0	5.00	"	50.0		64.0	30-140				
Indeno(1,2,3-cd)pyrene	28.2	0.0500	"	50.0		56.5	30-140				
Isophorone	38.3	5.00	"	50.0		76.7	30-140				
2-Methylnaphthalene	37.7	5.00	"	50.0		75.3	30-140				
3- & 4-Methylphenols	21.0	5.00	"	50.0		42.1	30-130				
2-Methylphenol	24.3	5.00	"	50.0		48.7	30-130				
Naphthalene	37.7	5.00	"	50.0		75.5	30-140				
4-Nitroaniline	41.9	5.00	"	50.0		83.8	30-140				
3-Nitroaniline	44.2	5.00	"	50.0		88.5	30-140				
2-Nitroaniline	43.5	5.00	"	50.0		87.1	30-140				
Nitrobenzene	36.9	5.00	"	50.0		73.7	30-140				
2-Nitrophenol	35.8	5.00	"	50.0		71.7	30-130				
4-Nitrophenol	11.9	5.00	"	50.0		23.8	30-130	Low Bias			
N-nitroso-di-n-propylamine	41.5	5.00	"	50.0		83.0	30-140				
N-Nitrosodimethylamine	12.1	5.00	"	50.0		24.2	30-140	Low Bias			
N-Nitrosodiphenylamine	65.4	5.00	"	50.0		131	30-140				
Pentachlorophenol	49.6	5.00	"	50.0		99.3	30-130				
Phenanthrene	48.6	0.0500	"	50.0		97.2	30-140				
Phenol	9.58	5.00	"	50.0		19.2	30-130	Low Bias			
Pyrene	44.4	0.0500	"	50.0		88.7	30-140				
Pyridine	8.86	5.00	"	50.0		17.7	30-140	Low Bias			
1,2,4-Trichlorobenzene	35.9	5.00	"	50.0		71.8	30-140				
2,4,6-Trichlorophenol	42.8	5.00	"	50.0		85.6	30-130				
2,4,5-Trichlorophenol	42.0	5.00	"	50.0		84.0	30-130				
Surrogate: 2,4,6-Tribromophenol	*89.3*		*"*	*75.2*		*119*	*15-110*				
Surrogate: 2-Fluorobiphenyl	*42.1*		*"*	*50.2*		*83.8*	*30-130*				
Surrogate: 2-Fluorophenol	*23.6*		*"*	*74.8*		*31.5*	*15-110*				
Surrogate: Nitrobenzene-d5	*38.1*		*"*	*49.9*		*76.3*	*30-130*				
Surrogate: Phenol-d5	*13.2*		*"*	*74.9*		*17.7*	*10-110*				
Surrogate: Terphenyl-d14	*48.8*		*"*	*50.0*		*97.5*	*30-130*				



Semivolatile Organic Compounds by EPA Method 8270C - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BE31278 - EPA 3510C											
LCS (BE31278-BS2)							Prepared & Analyzed: 05/29/2013				
Acenaphthene	0.590	0.0500	ug/L	1.00		59.0	30-140				
Acenaphthylene	0.610	0.0500	"	1.00		61.0	30-140				
Aniline	ND	5.00	"				30-140				
Anthracene	0.620	0.0500	"	1.00		62.0	30-140				
Benzo(a)anthracene	0.690	0.0500	"	1.00		69.0	30-140				
Benzo(a)pyrene	0.730	0.0500	"	1.00		73.0	30-140				
Benzo(b)fluoranthene	0.790	0.0500	"	1.00		79.0	30-140				
Benzyl alcohol	ND	5.00	"				30-130				
Benzo(g,h,i)perylene	0.840	0.0500	"	1.00		84.0	30-140				
Benzo(k)fluoranthene	0.720	0.0500	"	1.00		72.0	30-140				
Benzyl butyl phthalate	ND	5.00	"				30-140				
4-Bromophenyl phenyl ether	ND	5.00	"				30-140				
4-Chloro-3-methylphenol	ND	5.00	"				30-130				
4-Chloroaniline	ND	5.00	"				30-140				
Bis(2-chloroethoxy)methane	ND	5.00	"				30-140				
Bis(2-chloroethyl)ether	ND	5.00	"				30-140				
Bis(2-chloroisopropyl)ether	ND	5.00	"				30-140				
Bis(2-ethylhexyl)phthalate	ND	5.00	"				30-140				
2-Chloronaphthalene	ND	5.00	"				30-140				
2-Chlorophenol	ND	5.00	"				30-130				
4-Chlorophenyl phenyl ether	ND	5.00	"				30-140				
Chrysene	0.640	0.0500	"	1.00		64.0	30-140				
Dibenzo(a,h)anthracene	1.00	0.0500	"	1.00		100	30-140				
Dibenzofuran	ND	5.00	"				30-140				
Di-n-butyl phthalate	ND	5.00	"				30-140				
1,3-Dichlorobenzene	ND	5.00	"				30-140				
1,2-Dichlorobenzene	ND	5.00	"				30-140				
1,4-Dichlorobenzene	ND	5.00	"				30-140				
3,3'-Dichlorobenzidine	ND	5.00	"				30-140				
2,4-Dichlorophenol	ND	5.00	"				30-130				
Diethyl phthalate	ND	5.00	"				30-140				
2,4-Dimethylphenol	ND	5.00	"				30-130				
Dimethyl phthalate	ND	5.00	"				30-140				
4,6-Dinitro-2-methylphenol	ND	10.0	"				30-130				
2,4-Dinitrophenol	ND	10.0	"				30-130				
2,6-Dinitrotoluene	ND	5.00	"				30-140				
2,4-Dinitrotoluene	ND	5.00	"				30-140				
Di-n-octyl phthalate	ND	5.00	"				30-140				
Fluoranthene	0.570	0.0500	"	1.00		57.0	30-140				
Fluorene	0.660	0.0500	"	1.00		66.0	30-140				
Hexachlorobenzene	ND	5.00	"				30-140				
Hexachlorobutadiene	ND	5.00	"				30-140				
Hexachlorocyclopentadiene	ND	5.00	"				30-140				
Hexachloroethane	ND	5.00	"				30-140				
Indeno(1,2,3-cd)pyrene	1.06	0.0500	"	1.00		106	30-140				
Isophorone	ND	5.00	"				30-140				
2-Methylnaphthalene	ND	5.00	"				30-140				
3- & 4-Methylphenols	ND	5.00	"				30-130				
2-Methylphenol	ND	5.00	"				30-130				
Naphthalene	0.540	5.00	"	1.00		54.0	30-140				
4-Nitroaniline	ND	5.00	"				30-140				

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BE31278 - EPA 3510C											
LCS (BE31278-BS2)							Prepared & Analyzed: 05/29/2013				
3-Nitroaniline	ND	5.00	ug/L				30-140				
2-Nitroaniline	ND	5.00	"				30-140				
Nitrobenzene	ND	5.00	"				30-140				
2-Nitrophenol	ND	5.00	"				30-130				
4-Nitrophenol	ND	5.00	"				30-130				
N-nitroso-di-n-propylamine	ND	5.00	"				30-140				
N-Nitrosodimethylamine	ND	5.00	"				30-140				
N-Nitrosodiphenylamine	ND	5.00	"				30-140				
Pentachlorophenol	ND	5.00	"				30-130				
Phenanthrene	0.590	0.0500	"	1.00		59.0	30-140				
Phenol	ND	5.00	"				30-130				
Pyrene	0.700	0.0500	"	1.00		70.0	30-140				
Pyridine	ND	5.00	"				30-140				
1,2,4-Trichlorobenzene	ND	5.00	"				30-140				
2,4,6-Trichlorophenol	ND	5.00	"				30-130				
2,4,5-Trichlorophenol	ND	5.00	"				30-130				
Surrogate: 2,4,6-Tribromophenol	*0.00*		*"*	*75.2*			*15-110*				
Surrogate: 2-Fluorobiphenyl	*0.00*		*"*	*50.2*			*30-130*				
Surrogate: 2-Fluorophenol	*0.00*		*"*	*74.8*			*15-110*				
Surrogate: Nitrobenzene-d5	*0.00*		*"*	*49.9*			*30-130*				
Surrogate: Phenol-d5	*0.00*		*"*	*74.9*			*10-110*				
Surrogate: Terphenyl-d14	*0.00*		*"*	*50.0*			*30-130*				

Organochlorine Pesticides by EPA SW 846-8081 - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BE31258 - EPA SW846-3510C Low Level											
Blank (BE31258-BLK1)									Prepared: 05/29/2013 Analyzed: 05/31/2013		
Toxaphene	ND	0.0500	ug/L								
Methoxychlor	ND	0.00500	"								
Heptachlor epoxide	ND	0.00100	"								
Heptachlor	ND	0.00100	"								
gamma-BHC (Lindane)	ND	0.00100	"								
Endrin ketone	ND	0.00100	"								
Endrin aldehyde	ND	0.00100	"								
Endrin	ND	0.00100	"								
Endosulfan sulfate	ND	0.00100	"								
Endosulfan II	ND	0.00100	"								
Endosulfan I	ND	0.00100	"								
Dieldrin	ND	0.00100	"								
delta-BHC	ND	0.00100	"								
Chlordane, total	ND	0.00400	"								
beta-BHC	ND	0.00100	"								
alpha-BHC	ND	0.00100	"								
Aldrin	ND	0.00100	"								
4,4'-DDT	ND	0.00100	"								
4,4'-DDE	ND	0.00100	"								
4,4'-DDD	ND	0.00100	"								
Aroclor 1260	ND	0.0500	"								
Aroclor 1254	ND	0.0500	"								
Aroclor 1248	ND	0.0500	"								
Aroclor 1242	ND	0.0500	"								
Aroclor 1232	ND	0.0500	"								
Aroclor 1221	ND	0.0500	"								
Aroclor 1016	ND	0.0500	"								
Total PCBs	ND	0.0500	"								
Surrogate: Tetrachloro-m-xylene	*0.127*		*"*	*0.200*		*63.3*	*30-150*				
Surrogate: Decachlorobiphenyl	*0.169*		*"*	*0.201*		*83.9*	*30-150*				

Organochlorine Pesticides by EPA SW 846-8081 - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BE31258 - EPA SW846-3510C Low Level											
LCS (BE31258-BS1)								Prepared: 05/29/2013 Analyzed: 05/31/2013			
Methoxychlor	0.0740	0.00500	ug/L	0.100		74.0	40-140				
Heptachlor epoxide	0.0599	0.00100	"	0.100		59.9	40-140				
Heptachlor	0.0591	0.00100	"	0.100		59.1	40-140				
gamma-BHC (Lindane)	0.0571	0.00100	"	0.100		57.1	40-140				
Endrin ketone	0.0718	0.00100	"	0.100		71.8	40-140				
Endrin aldehyde	0.0662	0.00100	"	0.100		66.2	40-140				
Endrin	0.0669	0.00100	"	0.100		66.9	40-140				
Endosulfan sulfate	0.0700	0.00100	"	0.100		70.0	40-140				
Endosulfan II	0.0638	0.00100	"	0.100		63.8	40-140				
Endosulfan I	0.0639	0.00100	"	0.100		63.9	40-140				
Dieldrin	0.0631	0.00100	"	0.100		63.1	40-140				
delta-BHC	0.0678	0.00100	"	0.100		67.8	40-140				
beta-BHC	0.0587	0.00100	"	0.100		58.7	40-140				
alpha-BHC	0.0585	0.00100	"	0.100		58.5	40-140				
Aldrin	0.0569	0.00100	"	0.100		56.9	40-140				
4,4'-DDT	0.0801	0.00100	"	0.100		80.1	40-140				
4,4'-DDE	0.0634	0.00100	"	0.100		63.4	40-140				
4,4'-DDD	0.0734	0.00100	"	0.100		73.4	40-140				
Surrogate: Tetrachloro-m-xylene	*0.0988*		*"*	*0.200*		*49.4*	*30-150*				
Surrogate: Decachlorobiphenyl	*0.154*		*"*	*0.201*		*76.4*	*30-150*				
LCS (BE31258-BS2)								Prepared: 05/29/2013 Analyzed: 05/30/2013			
Aroclor 1260	0.784	0.0500	ug/L	1.00		78.4	40-140				
Aroclor 1016	0.733	0.0500	"	1.00		73.3	40-140				
Surrogate: Tetrachloro-m-xylene	*0.116*		*"*	*0.200*		*58.0*	*30-150*				
Surrogate: Decachlorobiphenyl	*0.132*		*"*	*0.201*		*65.7*	*30-150*				
LCS Dup (BE31258-BSD2)								Prepared: 05/29/2013 Analyzed: 05/30/2013			
Aroclor 1260	0.806	0.0500	ug/L	1.00		80.6	40-140		2.72	200	
Aroclor 1016	0.769	0.0500	"	1.00		76.9	40-140		4.79	200	
Surrogate: Tetrachloro-m-xylene	*0.120*		*"*	*0.200*		*60.0*	*30-150*				
Surrogate: Decachlorobiphenyl	*0.138*		*"*	*0.201*		*68.7*	*30-150*				

Polychlorinated Biphenyls (PCB) by EPA SW 846-8082/EPA Compendium Methods - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BE31258 - EPA SW846-3510C Low Level											
Blank (BE31258-BLK1)									Prepared: 05/29/2013 Analyzed: 05/30/2013		
Aroclor 1016	ND	0.0500	ug/L								
Aroclor 1221	ND	0.0500	"								
Aroclor 1232	ND	0.0500	"								
Aroclor 1242	ND	0.0500	"								
Aroclor 1248	ND	0.0500	"								
Aroclor 1254	ND	0.0500	"								
Aroclor 1260	ND	0.0500	"								
Total PCBs	ND	0.0500	"								
Surrogate: Tetrachloro-m-xylene	*0.122*		*"*	*0.200*		*61.0*	*30-150*				
Surrogate: Decachlorobiphenyl	*0.131*		*"*	*0.201*		*65.2*	*30-150*				
LCS (BE31258-BS2)									Prepared: 05/29/2013 Analyzed: 05/30/2013		
Aroclor 1016	0.733	0.0500	ug/L	1.00		73.3	40-140				
Aroclor 1260	0.784	0.0500	"	1.00		78.4	40-140				
Surrogate: Tetrachloro-m-xylene	*0.116*		*"*	*0.200*		*58.0*	*30-150*				
Surrogate: Decachlorobiphenyl	*0.132*		*"*	*0.201*		*65.7*	*30-150*				
LCS Dup (BE31258-BSD2)									Prepared: 05/29/2013 Analyzed: 05/30/2013		
Aroclor 1016	0.769	0.0500	ug/L	1.00		76.9	40-140		4.79	200	
Aroclor 1260	0.806	0.0500	"	1.00		80.6	40-140		2.72	200	
Surrogate: Tetrachloro-m-xylene	*0.120*		*"*	*0.200*		*60.0*	*30-150*				
Surrogate: Decachlorobiphenyl	*0.138*		*"*	*0.201*		*68.7*	*30-150*				

Metals by EPA 6000 Series Methods - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BE31367 - EPA 3010A											
Blank (BE31367-BLK1)									Prepared & Analyzed: 05/30/2013		
Aluminum	ND	10	ug/L								
Antimony	ND	5	"								
Arsenic	ND	4	"								
Barium	ND	10	"								
Beryllium	ND	1	"								
Cadmium	ND	3	"								
Calcium	ND	50	"								
Chromium	ND	5	"								
Cobalt	ND	5	"								
Copper	ND	5	"								
Iron	ND	20	"								
Lead	ND	3	"								
Magnesium	ND	50	"								
Manganese	ND	5	"								
Nickel	ND	5	"								
Potassium	ND	50	"								
Selenium	ND	10	"								
Silver	ND	5	"								
Sodium	ND	100	"								
Thallium	ND	10	"								
Vanadium	ND	10	"								
Zinc	ND	20	"								
Duplicate (BE31367-DUP1)	*Source sample: 13E0868-01 (MW-8_052313)								Prepared & Analyzed: 05/30/2013		
Aluminum	96	10	ug/L		96				0.323	20	
Antimony	ND	5	"		ND					20	
Arsenic	ND	4	"		ND					20	
Barium	91	10	"		90				0.908	20	
Beryllium	ND	1	"		ND					20	
Cadmium	ND	3	"		ND					20	
Calcium	137000	50	"		137000				0.155	20	
Chromium	ND	5	"		ND					20	
Cobalt	ND	5	"		ND					20	
Copper	3	5	"		3				4.74	20	
Iron	138	20	"		144				4.24	20	
Lead	4	3	"		3				42.0	20	Non-dir.
Magnesium	25500	50	"		25500				0.0806	20	
Manganese	1670	5	"		1660				0.732	20	
Nickel	4	5	"		5				14.0	20	
Potassium	13000	50	"		13100				1.02	20	
Selenium	ND	10	"		ND					20	
Silver	ND	5	"		ND					20	
Sodium	59800	100	"		59500				0.429	20	
Thallium	ND	10	"		ND					20	
Vanadium	ND	10	"		ND					20	
Zinc	30	20	"		29				1.27	20	

Metals by EPA 6000 Series Methods - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BE31367 - EPA 3010A											
Matrix Spike (BE31367-MS1)	*Source sample: 13E0868-01 (MW-8_052313)							Prepared & Analyzed: 05/30/2013			
Antimony	261	5	ug/L	250	ND	104	75-125				
Arsenic	2210	4	"	2000	ND	111	75-125				
Barium	2190	10	"	2000	90	105	75-125				
Beryllium	51	1	"	50.0	ND	103	75-125				
Cadmium	53	3	"	50.0	ND	105	75-125				
Chromium	204	5	"	200	ND	102	75-125				
Cobalt	523	5	"	500	ND	105	75-125				
Copper	261	5	"	250	3	103	75-125				
Iron	1180	20	"	1000	144	103	75-125				
Lead	517	3	"	500	3	103	75-125				
Manganese	2180	5	"	500	1660	105	75-125				
Nickel	530	5	"	500	5	105	75-125				
Selenium	2310	10	"	2000	ND	116	75-125				
Silver	45	5	"	50.0	ND	90.5	75-125				
Thallium	2080	10	"	2000	ND	104	75-125				
Vanadium	513	10	"	500	ND	103	75-125				
Zinc	543	20	"	500	29	103	75-125				
Reference (BE31367-SRM1)								Prepared & Analyzed: 05/30/2013			
Aluminum	326	10	ug/L	292		112	72.6-129				
Antimony	593	5	"	686		86.4	70.6-120				
Arsenic	167	4	"	182		91.9	81.9-118				
Barium	2140	10	"	2080		103	87-113				
Beryllium	164	1	"	169		97.0	84.6-113				
Cadmium	385	3	"	393		97.9	85.2-114				
Chromium	602	5	"	611		98.5	87.1-113				
Cobalt	292	5	"	290		101	87.6-112				
Copper	567	5	"	569		99.6	90-110				
Iron	455	20	"	462		98.5	87.9-114				
Lead	262	3	"	259		101	85.7-114				
Manganese	1310	5	"	1280		102	89.8-111				
Nickel	303	5	"	279		109	88.5-113				
Selenium	973	10	"	1050		92.7	79.5-116				
Silver	311	5	"	333		93.3	85.9-115				
Thallium	505	10	"	487		104	80.1-120				
Vanadium	434	10	"	455		95.4	87.5-112				
Zinc	181	20	"	191		94.6	84.8-118				

Metals by EPA 6000 Series Methods - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BE31367 - EPA 3010A											
Reference (BE31367-SRM2)								Prepared & Analyzed: 05/30/2013			
Calcium	63900	50	ug/L	62700		102	86-114				
Magnesium	30100	50	"	29000		104	86.2-114				
Potassium	35300	50	"	32400		109	85.2-115				
Sodium	88000	100	"	85100		103	85-115				

Mercury by EPA 7000/200 Series Methods - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BE31297 - EPA SW846-7470											
Blank (BE31297-BLK1)									Prepared: 05/29/2013 Analyzed: 05/30/2013		
Mercury	ND	0.2	ug/L								
LCS (BE31297-BS1)									Prepared: 05/29/2013 Analyzed: 05/30/2013		
Mercury	2.327	0.2	ug/L	2.00		116	80-120				

Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
13E0868-01	MW-8_052313	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
13E0868-02	DUP-1_052313	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
13E0868-03	MW-9_052313	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
13E0868-04	MW-6_052313	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
13E0868-05	MW-7_052313	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
13E0868-06	MW-3_052313	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
13E0868-07	MW-10_052313	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
13E0868-08	TRC-MW-3_052413	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
13E0868-09	FB_052413	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C

Notes and Definitions

U	Analyte included in the analysis, but not detected
S-AC	Acid surrogate recovery outside of control limits. The data was accepted based on valid recovery of remaining two acid surrogates.
QL-02	This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
J	Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL); therefore, the result is an estimated concentration.
B	Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants. Data users should consider anything <10x the blank value as artifact.

ND	Analyte NOT DETECTED at the stated Reporting Limit (RL) or above.
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
MDL	METHOD DETECTION LIMIT - the minimum concentration that can be measured and reported with a 99% confidence that the concentration is greater than zero. If requested or required, a value reported below the RL and above the MDL is considered estimated and is noted with a "J" flag.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the MDL, with values between the MDL and the RL being "J" flagged as estimated results.

YORK ANALYTICAL LABORATORIES
120 RESEARCH DR.
STRATFORD, CT 06615
(203) 325-1371
FAX (203) 357-0166

Field Chain-of-Custody Record

NOTE: York's Std. Terms & Conditions are listed on the back side of this document. This document serves as your written authorization to York to proceed with the analyses requested and your signature binds you to York's Std. Terms & Conditions.

York Project No. 13E0868

YOUR Information

Company: Langan
Address: 360 W 31st St New York, NY
Phone No. (212) 479-5400
Contact Person: Tracy Cam-Spiros
E-Mail Address: tcamspiros@langan.com

Report To:

Company:
Address: same
Phone No.
Attention: Paul McMahon
E-Mail Address: pmmahon@langan.com

Invoice To:

Company:
Address: same
Phone No.
Attention:
E-Mail Address:

YOUR Project ID

170246501

Purchase Order No.

Samples from: CT ___ NY ✓ NJ ___

Turn-Around Time

- RUSH - Same Day
- RUSH - Next Day
- RUSH - Two Day
- RUSH - Three Day
- RUSH - Four Day ✓
- Standard(5-7 Days)

Report Type

- Summary Report ✓
- Summary w/ QA Summary
- CT RCP Package
- CTRCP DQA/DUE Pkg
- NY ASP A Package
- NY ASP B Package ✓
- NJDEP Red. Deliv.

Electronic Data Deliverables (EDD)

- Simple Excel
- NYSDEC EQuIS ✓
- EQuIS (std)
- EZ-EDD (EQuIS)
- NJDEP SRP HazSite EDD
- GIS KEY (std)
- Other
- **York Regulatory Comparison**
- **Excel Spreadsheet** ✓

Compare to the Following Regs: please circle: nysdec TOGS

Print Clearly and Legibly. All Information must be complete. Samples will NOT be logged in and the turn-around time clock will not begin until any questions by York are resolved.

Samples Collected/Authorized By (Signature)

Name (printed)

Matrix Codes
S - soil
Other - specify (oil, etc.)
WW - wastewater
GW - groundwater
DW - drinking water
Air-A - ambient air
Air-SV - soil vapor

Volatiles		Semi-Vols.	Pest/PCB/Herb	Metals	Misc. Org.	Full Lists	Misc.
8260 full	TICs	8270 or 625	8082PCB	RCRAS	TPH GRO	Pri.Poll.	Corrosivity
624	Site Spec	STARS list	8081Pest	PP13 list	TPH DRO	TCL Organics	Reactivity
STARS list	Nassau Co.	BN Only	8151Herb	TAL	CT ETPH	TAL Met/CN	Ignitability
BTEX	Suffolk Co.	Acids Only	CT RCP	CT15 list	NY 310-13	Full TCLP	Flash Point
MTBE	Ketones	PAH list	App. IX	TAGM list	TPH 1664	Full App. IX	Sieve Anal.
TCL list	Oxygenates	TAGM list	Site Spec.	NJDEP list	Air TO14A	Part 360-Routine	Heterotrophs
TAGM list	TCLP list	CT RCP list	SPLP or TCLP	Total	Air TO15	Part 360-Bacteria	TOX
CT RCP list	524.2	TCL list	TCLP Pest	Dissolved	Air STARS	Part 360-Sporulating Bacteria	BTU lb.
Arom. only	502.2	NJDEP list	TCLP Herb	SPLP or TCLP	Air VPH	Part 360-Fungus	Aquatic Tox.
Halog.only	NJDEP list	App. IX	Chlordane	Indiv. Metals	Air TICs	NYCDEP Sewer	TOC
App.IX list	SPLP or TCLP	TCLP BNA	608 Pest	LIST Below	Methane	NYSDEC Sewer	Asbestos
8021B list		SPLP or TCLP	608 PCB		Helium	TAGM	Silica

Sample Identification	Date/Time Sampled	Sample Matrix	Choose Analyses Needed from the Menu Above and Enter Below	Container Description(s)
MW-8_052313	05/23/13 14:32	GW	8260B VOC, 8270C SVOC, 8082 PCBs, TAL Metals	2 1L Ambers, 3 (HCl) VOAs, 1-500mL Plastic
DUP-1_052313	05/23/13	GW	8260B VOC, 8270C SVOC, 8082 PCBs, 8081 PEST, TAL Metals	3-1L Ambers, 3 VOAs, 1-500mL Plastic
MW-9_052313	05/23/13 8:55	GW		
MW-6_052313	05/23/13 10:00	GW		
MW-7_052313	05/23/13 10:30	GW		
MW-3_052313	05/23/13 12:20	GW		
MW-10_052313	05/23/13 16:20	GW		3-1L Ambers, 2 VOAs, 1-500mL Plastic
~~DUP~~ TRC-MW-3_052413	05/24/13 10:20	GW		3-1L Ambers, 2 VOAs, 1-500mL Plastic
FB_052413	05/24/13 9:20	GW		

Comments

Preservation (Check those Applicable): 4°C ✓ Frozen ___ HCl ✓ MeOH ___ HNO3 ✓ H2SO4 ___ NaOH ___ ZnAc ___ Ascorbic Acid ___ Other ___

Special Instructions

Field Filtered

Lab to Filter

Samples Relinquished By	Date/Time	Samples Received By	Date/Time
[signature]	05/24/13 12:53	[signature]	5/24 12:53
Samples Relinquished By	Date/Time	Samples Received in LAB By	Date/Time
			5/24/13 1740

Temperature on Receipt 3.6 °C

LIMITED HAZARDOUS BUILDING MATERIALS SURVEY REPORT

For

KINGSBRIDGE ARMORY
1 WEST KINGSBRIDGE ROAD
BRONX, NEW YORK 10468
(Block: 3247, Lot: 10)

Prepared For:

GILBANE BUILDING COMPANY
Wall Street Plaza
27th Floor
New York, New York 10005

Prepared By:

Langan Engineering, Environmental, Surveying
Landscape Architecture and Geology, D.P.C.
21 Penn Plaza
360 West 31st Street, 8th Floor
New York, New York 10001



Miroslaw Baran
NYCDEP Certified Asbestos Investigator

Vijay Patel
Senior Associate

November 8, 2019
Langan Project No. 170321307

LANGAN

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APPENDICES

Appendix A **Laboratory Test Results and Chain of Custody Documentation (Asbestos)**
Appendix B **Langan's Certifications and Laboratory Accreditations**
Appendix C **October 6, 2008 Asbestos Investigation Report by Langan**
Appendix D **August 24, 2000 Environmental Investigation Report by ET Environmental Corporation (ET)**

ACRONYMS

USEPA	United States Environmental Protection Agency
NYSDOL	New York State Department of Labor
NYCDEP	New York City Department of Environmental Protection
AHERA	Asbestos Hazard Emergency Response Act
OSHA	Occupational Safety and Health Administration
CAA	Clean Air Act
TSCA	Toxic Substance Control Act
CFR	Code of Federal Regulation
EPA	United States Environmental Protection Agency
NYSELAP	New York State Environmental Laboratory Accreditation Program
HEPA	High Efficiency Particulate Air
HUD	Housing and Urban Development
NESHAPS	National Standards for Hazardous Air Pollutants
RCRA	Resource Conservation and Recovery Act
PLM	Polarized Light Microscopy
TEM	Transmission Electron Microscopy
ACM	Asbestos-Containing Materials
LCP	Lead-Containing Paint
PCBs	Polychlorinated Biphenyls (PCBs)
SF	square Feet
LF	Linear Feet
mg/cm^2	Milligrams per square centimeter
PPM	Parts Per Million
XRF	X-ray Fluorescence
AAS	Atomic Absorption Spectrometry
TCLP	Toxicity Characteristic Leaching Procedure

EXECUTIVE SUMMARY

This report by Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C. (Langan) presents the findings of Hazardous building materials (Hazmat) identified at the Kingsbridge Armory located at 1 West Kingsbridge Road, Bronx, New York 10468 (Block: 3247, Lot: 10). The objective of this Hazmat Survey was to identify the presence/absence of asbestos-containing materials (ACM), lead containing paint (LCP), and universal/hazardous waste articles. The survey was limited to the building interiors. Suspect materials located on exterior elevations and roofs were excluded from the scope of work.

PROJECT INFORMATION:

Client Name:	Gilbane Building Company	Survey Dates:	October 23 & 25, 2019
Professional's Project #:	1707321307	Construction Dates:	1913
Professional's Project Manager:	Vijay Patel	No. of Building(s):	1
Phone No.:	973.560.4983	No. of Stories:	9 Levels, including Mezzanines, sub-basement, basement, and Towers.
Email:	vpatel@langan.com	Estimated Gross Footage:	Over 385,600 SF
Property Address:	Kingsbridge Armory 1 West Kingsbridge Road Bronx, New York 10468 (Block: 3247, Lot: 10)	Property Use:	Vacant

The following is a summary of ACM, LCP and other universal/miscellaneous hazardous articles identified in the building:

Asbestos-Containing Materials (ACM)

The following ACM and Assumed ACM materials were identified within the interiors of the Armory:

Material	Survey Results	Estimated Quantity
Block/air-cell pipe & joint insulation	ACM	6,250 LF
Concealed block and air-cell pipe insulation	ACM	7,100 LF
Pipe insulation debris	ACM	2,280 SF

Material	Survey Results	Estimated Quantity
Loose ACM contaminated construction & household debris	ACM	59,195 SF
Bags with ACM contaminated construction & household debris	ACM	90 CY
VAT & mastic	ACM	16,310 SF
VAT & mastic (damaged) & ACM contaminated construction & household debris	ACM	14,015 SF
Electrical wire insulation	ACM	46,250 SF
Mastic, flashing materials and caulking on gable ends and clerestory bands and contaminated panels	ACM	12,000 SF
Door caulk	ACM	60 SF
Ebony/Transite with electrical box	ACM	187 SF
Mirror glue	ACM	20 SF
Wall panel glue	ACM	1,750 SF

Most of the ACM was in damaged condition. Refer to Table 1 for a summary of asbestos survey findings.

Lead Containing Paint (LCP)

As per 40 CFR Part 745, TSCA, Title IV (Lead Exposure Reduction), the term "lead containing paint" means paint or other surface coatings that contain lead in excess of 1.0 milligrams per centimeter (mg/cm^2) or 0.5 percent by weight. Painted surfaces at the Armory were previously tested for lead and documented in 2000 Environmental Corporation (ET) report. Limited testing of lead in painted surfaces was performed by Langan during our recent site visits.

The vast majority of painted building components were identified to contain lead in excess of 1.0 milligrams per centimeter (mg/cm^2). Refer to Table 2 for the testing conducted by Langan, and Attachment D for a copy of XRF screening data documented in ET report.

Universal and Hazardous Waste Articles

Universal waste and hazardous waste articles consisting of fluorescent light ballasts, fluorescent light bulbs, MEC thermostat, high intensity discharge (HID), mercury containing equipment, batteries, and miscellaneous chemicals, etc. were identified in the building. The lamp ballasts/capacitors were assumed to contain Polychlorinated Biphenyls (PCBs) and/or di (2) ethylhexyl phthalate (DEHP) based on the information observed on labels or markings. The

inspection did not include sampling and analysis for waste classification, confirmation or identification purposes. Refer to Table 3 for an inventory of these materials.

1.0 INTRODUCTION

This report by Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C. (Langan) presents the findings of Hazardous building materials (Hazmat) identified at the Kingsbridge Armory located at 1 West Kingsbridge Road, Bronx, New York 10468 (Block: 3247, Lot: 10). The objective of this Hazmat Survey was to identify the presence/absence of asbestos-containing materials (ACM), lead containing paint (LCP), and universal/hazardous waste articles. The survey was limited to the building interiors. Suspect materials located on exterior elevations and roofs were excluded from the scope of work.

The remainder of this report presents our observations, findings, laboratory test results, plans showing sampling locations, and an itemized inventory of hazmat identified within the Armory.

2.0 SURVEY METHODOLOGY

Asbestos-Containing Materials

The asbestos survey was conducted in accordance with EPA protocol outlined in the EPA publication "Asbestos in Buildings". Suspect ACM was visually identified during a room-by-room, floor-by-floor survey of the buildings. Suspect ACM was categorized into various homogeneous materials and types, and sampled and analyzed for asbestos content. Sampling and analysis was conducted in accordance with EPA protocol 600/M4-82-020 per 40 CFR 763. Samples collected were properly packaged in individual containers, sealed; catalogued and chain-of-custody documentation was completed. Quantities of suspect materials were recorded and observations such as physical condition and friability of the materials were also noted. Samples were analyzed by AmeriSci laboratories.

Lead-Containing Paint Screening

A Heuresis Pb200i X-Ray Fluorescence (XRF) Spectrum Analyzer was used to test painted surfaces for lead. The Heuresis Pb200i analyzer uses a cobalt 57 radioactive

source and an advanced solid-state radiation detector to generate an x-ray fluorescence spectrum of a painted surface. During the analysis, the intensity of the x-rays is converted by the instrument's internal software into an estimate of the concentration of lead in the substance being analyzed. The results are interpreted as concentrations of lead in milligrams per square centimeter (mg/cm^2). This device is a field-screening tool, used to collect multiple readings in a short period of time. The method of measurement is based on spectrometric analysis of lead x-ray fluorescence within a controlled depth of interrogation. The reading is an estimate of lead content in all layers of paint.

Universal/Hazardous Waste Articles

As mandated by Subtitle C of the Resource Conservation and Recovery Act (RCRA), EPA promulgated hazardous waste regulations in 1980 to ensure that wastes which pose a threat to human health and the environment should be managed safely. Any waste within a building that makes it potentially harmful to human health or the environment is considered as a hazardous waste. Hazardous wastes are divided into listed wastes, characteristic wastes, universal wastes, and mixed wastes. The survey included preparing an inventory of universal and hazmat waste articles.

3.0 ASBESTOS CONTAINING MATERIALS

3.1 Terminology

Suspect Asbestos-Containing Materials

Asbestos has historically been used in certain types of construction and building materials. Until a material is examined using light microscopy or a similar technique, the building material is considered to be a suspect asbestos-containing material. A few examples of these materials include floor tiles, ceiling panels, thermal system insulation, fireproofing insulation, roofing materials, etc. Any suspect ACM of unknown asbestos content (that is not tested) should be handled as if it were an asbestos-containing material.

Asbestos–Containing Material

A material with an asbestos concentration greater than one percent by weight is considered to be asbestos-containing by the United States Environmental Protection Agency (USEPA). Thus, a material which contains asbestos in concentrations greater

than 1% by weight is considered as "positive" while materials that do not contain asbestos or asbestos is detected in concentrations less than one percent by weight are considered as "negative".

3.2 Files Review

Prior to conducting site survey, we reviewed the following pertinent reports for Armory:

1. October 6, 2008 Asbestos Investigation Report prepared by Langan
2. August 24, 2000 Environmental Investigation Report prepared by ET Environmental Corporation (ET) for subject building.

The reports reviewed documented presence of the following ACM in the Armory:

- various types of floor tiles/mastic (9-inch square beige floor tile and associated mastic, Black floor tile and associated mastic under plywood, 12-inch square tan wood design floor tile and associated mastic, 12-inch square terracotta floor tile and associated mastic, and Mastic associated with various 9-inch square floor tiles),
- pipe insulation debris mixed with plaster, wood and other construction debris
- air-cell and magnesia pipe and pipe joint insulation and mud-pack pipe joint insulation associated with fiberglass pipe insulation,
- wire wrap insulation,
- electric Transite switch panel,
- wall panel glue,
- mirror glue,
- interior door caulk

In addition to ACM, the vast majority of the painted building components were identified to contain lead in excess of 1.0 mg/cm^2. A copy of 2008 Langan and 2000 ET reports are provided in Appendices C & D, respectively.

3.3 Observations and Findings

The field survey of the subject Armory was conducted on October 23 & 25, 2019 by Langan's Miroslaw Baran, Adem Bajrami and Sanjay Patel, NYCDEP-certified asbestos investigators and NYSDOL-certified asbestos inspectors. Limited confirmatory samples of suspect materials were collected during the survey. As required by the USEPA, samples were analyzed by individual layer (i.e. floor tile and the associated mastic were analyzed as two (2) separate samples). Bulk samples of the suspect ACM were analyzed using the Polarized Light Microscopy (PLM) analytical methodology in accordance with 40CFR 763 and NESHAP regulations. Non-friable organically bound (NOB) material samples which tested negative via PLM were reanalyzed using transmission electron microscopy (TEM). Analytical testing was performed in accordance with NYSELAP Methods 198.1 (friable materials), 198.1(NOB), 198.4 (NOB-TEM) and 198.8 (surfacing materials containing vermiculite).

Refer to Table 1 for a summary of asbestos survey findings and Appendix A for the analytical test results and chain of custody documentation for the sampling performed during October 23 & 25, 2019 site visit. Sampling locations are depicted on Drawings ASL-1 thru ASL-7.

4.0 LEAD CONTAINING PAINT

Our review of the prior inspection report by ET indicate that the vast majority of the painted building components were identified to contain lead in excess of 1.0 mg/cm^2.

Limited testing of lead in painted surfaces was performed by Langan during our recent site visits. Overall, the painted surfaces were observed to be in poor condition. With the exception of ground level Drill Area, debris from damaged paint was observed mixed with ACM and other household debris throughout the building.

Refer to Table 2 for the testing conducted by Langan, and Attachment D for a copy of XRF screening data documented in ET report.

5.0 HAZARDOUS WASTE

The ET report documented and provided an inventory of Universal and other Waste identified in the building including but not limited to fluorescent lamps, high intensity discharge (HID) lamps, ballasts, mercury containing equipment, batteries, and miscellaneous chemicals. The lamp ballasts/capacitors were assumed to contain Polychlorinated Biphenyls (PCBs) and/or di (2) ethylhexyl phthalate (DEHP) based on the information observed on labels or markings. The inspection did not include sampling and analysis for waste classification, confirmation or identification purposes.

6.0 CONCLUSIONS AND RECOMMENDATIONS

6.1 Asbestos Containing Materials

Regulatory Guidelines and Requirements:

Federal

In accordance with the Clean Air Act (CAA), the EPA established National Emission Standards for Hazardous Air Pollutants (NESHAP) to protect the public from exposure to airborne pollutants. Asbestos was one of the air pollutants, which was addressed under the NESHAP 40 CFR Part 61. The purpose of asbestos NESHAP regulations is to protect public health by minimizing the release of asbestos when facilities which contain ACM are being renovated or demolished. EPA is responsible for enforcing regulations related to asbestos during renovations and demolition; however, the CAA allows the EPA to delegate this authority to state and local Agencies. Even after the EPA delegates responsibility to a state or local agency, the EPA retains the authority to oversee agency performance and to enforce NESHAP regulations as appropriate.

State

Asbestos in New York State is regulated under the Labor Law Section 906, Part 56 of Title 12 of the Official Compilation of Codes, Rules, and Regulations. Within the department and for the purpose of the Department of Labor, this part (rule) is known as Industrial Code Rule No. 56 (ICR 56) relating to hazards to public safety and health during the removal, encapsulation, or disturbance of friable asbestos, or any handling of ACM that may result in the release of asbestos fiber.

City Regulations

Asbestos Control Program (ACP), Title 15, Chapter 1 of the New York City Department of Environmental Protection (NYCDEP) regulates all asbestos abatement activities occurring within the City of New York. The ACP regulations also require asbestos surveys and abatement work to be performed by a NYCDEP certified asbestos investigator and asbestos workers, respectively.

The New York City Department of Building (NYCDOB) requires an ACP notification to be included with the renovation/demolition permit applications. The notification is performed using ACP 5 or ACP 20/21 forms.

Asbestos containing materials were identified at the Armory. With the exception of the ground level Drill Area, debris from damaged ACM mixed with other household debris and damaged paint was throughout the building. Access to the building should be restricted until the clean-up inside the Armory is completed.

All confirmed and presumed ACM in the building that is to be left in place should be managed in good condition under an Operations and Management (O & M) plan. The purpose and objective of the O & M Plan is to maintain the assumed, presumed or known asbestos containing materials in good condition, prevent future release of asbestos fibers, and minimize exposure of all building occupants to asbestos fibers.

All identified ACM that would be impacted by any planned renovation/demolition must be removed prior to commencing such activities. The removal and disposal of ACM must be performed by a NYSDOL licensed asbestos handling contractor in accordance with Federal, state, and local regulations. Proper notifications must be filed with the EPA, NYSDOL, NYC-DEP and other regulatory agencies prior to performing such activities.

As required by NYSDOL and NYCDEP regulations, the abatement project must be monitored by a NYSDOL certified project monitor. The project monitor oversees the contractor's work practices and also performs pre, during, and final clearance post-abatement air sampling in accordance with state and city regulations.

6.2 Lead Containing Paint

The vast majority of the painted building components were identified to contain lead in excess of 1.0 mg/cm^2. The paint was flaking, cracking and in deteriorated conditions. With the exception of the ground level Drill Area, debris from damaged paint was observed mixed with ACM and other household debris throughout the building.

Debris clean-up and stabilization of painted surfaces will be necessary prior to building occupancy. The Occupational Safety and Health Administration (OSHA) considers any concentration of lead in paint to be lead containing paint. Regardless of the lead concentrations in painted surfaces, the contractor shall comply with 29 CFR 1926.62, OSHA regulations, and take precautionary measures for dust control and limit employee exposure to lead dust during construction.

Painted surfaces that would be impacted by planned activities such as drilling, cutting, scrapping, etc. and create dust should be properly addressed by following safe work practices, good housekeeping procedures and/or following proper abatement procedures. Grinding and sanding of paint without HEPA filter exhaust, open flame gas-fired torches, unconfined abrasive blasting, and chemical strippers containing methylene chloride or other human carcinogenic chemicals are not recommended.

In addition to dust control work practices, personal protective equipment (PPE) per task type is required. Depending on presumed exposure, this requires at least prescribed respirator equipment (i.e., P-100 to full face mask), protective clothing in addition to necessary (Standard of Care) protective task gloves and traditional construction safety gear including protective eyewear/boots/hard hat/safety vest.

The Federal Resource Conservation and Recovery Act (RCRA) regulation governs the handling, transportation, and disposal of hazardous materials. As part of the demolition work scope it must be determined whether the demolition debris that is generated exhibits one or more of the characteristic wastes listed in subpart C of 40 CFR Part 261. Lead in paint is a characteristic waste, and therefore, the demolition debris must be characterized prior to its disposal and, if found to be hazardous waste as defined by Federal Statutes, it will need to be properly handled and disposed.

Workers protection in accordance with 29 CFR 1926.62 shall be followed while performing torch cutting and welding operations on painted metal objects.

6.3 Hazardous Waste

Miscellaneous and universal waste consisting of but not limited to fluorescent light ballasts, fluorescent light bulbs, HID bulbs, HVAC units, etc. were identified at the Armory. Hazardous waste articles which would require removal shall be properly managed; recycled and/or disposed of at a landfill permitted to accept such waste. The removal, handling, recycling, and disposal shall be performed in accordance with applicable federal, state, and local regulations.

7.0 LIMITATIONS, EXCEPTIONS AND ASSUMPTIONS

Opinions and recommendations presented in this report apply to site conditions and features as they existed at the time of Langan's site visit, and those reasonably foreseeable. They cannot necessarily apply to conditions and features of which Langan is unaware and has not had the opportunity to evaluate.

Langan's evaluation of ACM was conducted in accordance with the standard of care and current customary practice of the profession. There are limitations inherent to visual surveys, and therefore, this asbestos survey does not claim to have sampled all possible suspect ACM present in the building.

Demolition/renovation activities may reveal concealed materials that were not accessible during the asbestos survey. Any suspect building material that is not listed in this report must be assumed to be ACM and treated as such unless otherwise confirmed by laboratory testing. If any concealed suspect ACM is uncovered during the planned demolition activities, then those activities that will impact suspect ACM must be discontinued until the suspect materials is sampled by an asbestos consultant and tested by an accredited laboratory for the presence of asbestos.

TABLES

	Table 1 - SUMMARY OF ASBESTOS SURVEY FINDINGS - ACM IDNETIFIED					
Space ID	Material	Sample ID	Survey Results	Estimated Quantity of ACM	Condition	Notes/Comments
ACM IDENTIFIED						
Sub-Basement						
SB4	Ebony/Transite with electrical box	---	ACM See Note 1.	6 SF	Fair	---
SB5	Ebony/Transite with electrical box	---	ACM See Note 1.	80 SF	Fair	---
Entire Level	Concealed block and air-cell pipe insulation	---	ACM See Note 1.	500 LF	Unknown	See Note 8
Entire Level	Electrical wire insulation	---	ACM See Note 1.	1,000 LF	Unknown	See Note 7
Basement Level						
B01	Block/air-cell pipe & joint insulation	---	ACM See Note 1.	400 LF	Poor	---
	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	1,500 SF	N/A	See Note 3.
	Bags with ACM contaminated construction & household debris	---	ACM See Note 1.	4.00 CY	N/A	See Note 4.
	Ebony/Transite with electrical box	---	ACM See Note 1.	2 SF	Fair	---
	Pipe insulation debris	---	ACM See Note 1.	2,000 SF	N/A	---
B02	Ebony/Transite with electrical box	---	ACM See Note 1.	1 SF	Fair	---
B11	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	280 SF	N/A	See Note 3.
	Bags with ACM contaminated construction & household debris	---	ACM See Note 1.	2.00 CY	N/A	See Note 4.
B14	Ebony/Transite with electrical box	---	ACM See Note 1.	1 SF	Fair	---
B15	Block/air-cell pipe & joint insulation	---	ACM See Note 1.	10 LF	Poor	---
	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	100 SF	N/A	See Note 3.
B16	Block/air-cell pipe & joint insulation	---	ACM See Note 1.	13 LF	Poor	---
	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	130 SF	N/A	See Note 3.
B17	Block/air-cell pipe & joint insulation	---	ACM See Note 1.	14 LF	Poor	---
	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	140 SF	N/A	See Note 3.
B18	Block/air-cell pipe & joint insulation	---	ACM See Note 1.	15 LF	Poor	---
	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	150 SF	N/A	See Note 3.
B19	Block/air-cell pipe & joint insulation	---	ACM See Note 1.	20 LF	Poor	---
	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	200 SF	N/A	See Note 3.
B20A	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	150 SF	N/A	See Note 3.
	Bags with ACM contaminated construction & household debris	---	ACM See Note 1.	4.00 CY	N/A	See Note 4.
B21	Block/air-cell pipe & joint insulation	---	ACM See Note 1.	25 LF	Poor	---
	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	250 SF	N/A	See Note 3.
B22	Block/air-cell pipe & joint insulation	---	ACM See Note 1.	21 LF	Poor	---
	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	210 SF	N/A	See Note 3.
B23	Block/air-cell pipe & joint insulation	---	ACM See Note 1.	17 LF	Poor	---
	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	160 SF	N/A	See Note 3.
B24	Block/air-cell pipe & joint insulation	---	ACM See Note 1.	21 LF	Poor	---
	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	210 SF	N/A	See Note 3.
B25	Block/air-cell pipe & joint insulation	---	ACM See Note 1.	18 LF	Poor	---
	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	170 SF	N/A	See Note 3.
B26	Block/air-cell pipe & joint insulation	---	ACM See Note 1.	180 LF	Poor	---

	Table 1 - SUMMARY OF ASBESTOS SURVEY FINDINGS - ACM IDNETIFIED					
Space ID	Material	Sample ID	Survey Results	Estimated Quantity of ACM	Condition	Notes/Comments
B27	Block/air-cell pipe & joint insulation	—	ACM See Note 1.	55 LF	Poor	—
	Loose ACM contaminated construction & household debris	—	ACM See Note 1.	50 SF	N/A	See Note 3.
B28	Block/air-cell pipe & joint insulation	—	ACM See Note 1.	105 LF	Poor	—
	Loose ACM contaminated construction & household debris	—	ACM See Note 1.	900 SF	N/A	See Note 3.
B29	Block/air-cell pipe & joint insulation	—	ACM See Note 1.	130 LF	Poor	—
	Loose ACM contaminated construction & household debris	—	ACM See Note 1.	900 SF	N/A	See Note 3.
B30	Block/air-cell pipe & joint insulation	—	ACM See Note 1.	175 LF	Poor	—
	Loose ACM contaminated construction & household debris	—	ACM See Note 1.	900 SF	N/A	See Note 3.
B31	Block/air-cell pipe & joint insulation	—	ACM See Note 1.	140 LF	Poor	—
	Loose ACM contaminated construction & household debris	—	ACM See Note 1.	900 SF	N/A	See Note 3.
B32	Block/air-cell pipe & joint insulation	—	ACM See Note 1.	100 LF	Poor	—
	Loose ACM contaminated construction & household debris	—	ACM See Note 1.	860 SF	N/A	See Note 3.
B33	Block/air-cell pipe & joint insulation	—	ACM See Note 1.	80 LF	Poor	—
	Loose ACM contaminated construction & household debris	—	ACM See Note 1.	400 SF	N/A	See Note 3.
B34	Block/air-cell pipe & joint insulation	—	ACM See Note 1.	150 LF	Poor	—
	Loose ACM contaminated construction & household debris	—	ACM See Note 1.	860 SF	N/A	See Note 3.
B35	Block/air-cell pipe & joint insulation	—	ACM See Note 1.	150 LF	Poor	—
	Loose ACM contaminated construction & household debris	—	ACM See Note 1.	860 SF	N/A	See Note 3.
B36	Block/air-cell pipe & joint insulation	—	ACM See Note 1.	100 LF	Poor	—
	Loose ACM contaminated construction & household debris	—	ACM See Note 1.	860 SF	N/A	See Note 3.
B37	Block/air-cell pipe & joint insulation	—	ACM See Note 1.	360 LF	Poor	—
	Loose ACM contaminated construction & household debris	—	ACM See Note 1.	900 SF	N/A	See Note 3.
B38	Block/air-cell pipe & joint insulation	—	ACM See Note 1.	45 LF	Poor	—
	Loose ACM contaminated construction & household debris	—	ACM See Note 1.	50 SF	N/A	See Note 3.
	Bags with ACM contaminated construction & household debris	—	ACM See Note 1.	2.00 CY	N/A	See Note 4.
	Ebony/Transite with electrical box	—	ACM See Note 1.	4 SF	Fair	—
B39	Block/air-cell pipe & joint insulation	—	ACM See Note 1.	15 LF	Poor	—
	Loose ACM contaminated construction & household debris	—	ACM See Note 1.	150 SF	N/A	See Note 3.
B40	Loose ACM contaminated construction & household debris	—	ACM See Note 1.	300 SF	N/A	See Note 3.
	Bags with ACM contaminated construction & household debris	—	ACM See Note 1.	1.00 CY	N/A	See Note 4.
B40A	Loose ACM contaminated construction & household debris	—	ACM See Note 1.	90 SF	N/A	See Note 3.
	Bags with ACM contaminated construction & household debris	—	ACM See Note 1.	2.00 CY	N/A	See Note 4.
B41	Block/air-cell pipe & joint insulation	—	ACM See Note 1.	20 LF	Poor	—
	Loose ACM contaminated construction & household debris	—	ACM See Note 1.	200 SF	N/A	See Note 3.
B42	Block/air-cell pipe & joint insulation	—	ACM See Note 1.	12 LF	Poor	—
	Loose ACM contaminated construction & household debris	—	ACM See Note 1.	120 SF	N/A	See Note 3.
B44	Block/air-cell pipe & joint insulation	—	ACM See Note 1.	17 LF	Poor	—
	Loose ACM contaminated construction & household debris	—	ACM See Note 1.	170 SF	N/A	See Note 3.

	Table 1 - SUMMARY OF ASBESTOS SURVEY FINDINGS - ACM IDNETIFIED					
Space ID	Material	Sample ID	Survey Results	Estimated Quantity of ACM	Condition	Notes/Comments
B45	Block/air-cell pipe & joint insulation	—	ACM See Note 1.	180 LF	Poor	—
	Loose ACM contaminated construction & household debris	—	ACM See Note 1.	550 SF	N/A	See Note 3.
B46	Block/air-cell pipe & joint insulation	—	ACM See Note 1.	20 LF	Poor	—
	Loose ACM contaminated construction & household debris	—	ACM See Note 1.	190 SF	N/A	See Note 3.
B47	Block/air-cell pipe & joint insulation	—	ACM See Note 1.	17 LF	Poor	—
	Loose ACM contaminated construction & household debris	—	ACM See Note 1.	170 SF	N/A	See Note 3.
B48	Block/air-cell pipe & joint insulation	—	ACM See Note 1.	15 LF	Poor	—
	Loose ACM contaminated construction & household debris	—	ACM See Note 1.	150 SF	N/A	See Note 3.
B50	Block/air-cell pipe & joint insulation	—	ACM See Note 1.	20 LF	Poor	—
B51	Block/air-cell pipe & joint insulation	—	ACM See Note 1.	14 LF	Poor	—
	Loose ACM contaminated construction & household debris	—	ACM See Note 1.	130 SF	N/A	See Note 3.
B53	Block/air-cell pipe & joint insulation	—	ACM See Note 1.	25 LF	Poor	—
	Loose ACM contaminated construction & household debris	—	ACM See Note 1.	240 SF	N/A	See Note 3.
B54	Block/air-cell pipe & joint insulation	—	ACM See Note 1.	700 LF	Poor	—
	Loose ACM contaminated construction & household debris	—	ACM See Note 1.	5,800 SF	N/A	See Note 3.
B55	Block/air-cell pipe & joint insulation	—	ACM See Note 1.	60 LF	Poor	—
	Loose ACM contaminated construction & household debris	—	ACM See Note 1.	170 SF	N/A	See Note 3.
B56	Block/air-cell pipe & joint insulation	—	ACM See Note 1.	50 LF	Poor	—
	Loose ACM contaminated construction & household debris	—	ACM See Note 1.	500 SF	N/A	See Note 3.
B57	Block/air-cell pipe & joint insulation	—	ACM See Note 1.	45 LF	Poor	—
	Loose ACM contaminated construction & household debris	—	ACM See Note 1.	690 SF	N/A	See Note 3.
B61	Block/air-cell pipe & joint insulation	—	ACM See Note 1.	55 LF	Poor	—
	Loose ACM contaminated construction & household debris	—	ACM See Note 1.	250 SF	N/A	See Note 3.
B62	Block/air-cell pipe & joint insulation	—	ACM See Note 1.	3 LF	Poor	—
	Loose ACM contaminated construction & household debris	—	ACM See Note 1.	30 SF	N/A	See Note 3.
	VAT & mastic	—	ACM See Note 1.	200 SF	Poor	—
B63	Block/air-cell pipe & joint insulation	—	ACM See Note 1.	10 LF	Poor	—
	Loose ACM contaminated construction & household debris	—	ACM See Note 1.	20 SF	N/A	See Note 3.
B64	Block/air-cell pipe & joint insulation	—	ACM See Note 1.	6 LF	Poor	—
	Loose ACM contaminated construction & household debris	—	ACM See Note 1.	40 SF	N/A	See Note 3.
B65	Block/air-cell pipe & joint insulation	—	ACM See Note 1.	15 LF	Poor	—
	Loose ACM contaminated construction & household debris	—	ACM See Note 1.	100 SF	N/A	See Note 3.
B66	Loose ACM contaminated construction & household debris	—	ACM See Note 1.	50 SF	N/A	See Note 3.
B67	Block/air-cell pipe & joint insulation	—	ACM See Note 1.	15 LF	Poor	—
	Loose ACM contaminated construction & household debris	—	ACM See Note 1.	3,000 SF	N/A	See Note 3.
B68	Loose ACM contaminated construction & household debris	—	ACM See Note 1.	120 SF	N/A	See Note 3.
	Bags with ACM contaminated construction & household debris	—	ACM See Note 1.	3.00 CY	N/A	See Note 4.
B71	Block/air-cell pipe & joint insulation	—	ACM See Note 1.	70 LF	Poor	—
	Loose ACM contaminated construction & household debris	—	ACM See Note 1.	1,600 SF	N/A	See Note 3.

	Table 1 - SUMMARY OF ASBESTOS SURVEY FINDINGS - ACM IDNETIFIED					
Space ID	Material	Sample ID	Survey Results	Estimated Quantity of ACM	Condition	Notes/Comments
B72	Block/air-cell pipe & joint insulation	—	ACM See Note 1.	25 LF	Poor	—
	Loose ACM contaminated construction & household debris	—	ACM See Note 1.	150 SF	N/A	See Note 3.
B73	Block/air-cell pipe & joint insulation	—	ACM See Note 1.	20 LF	Poor	—
	Loose ACM contaminated construction & household debris	—	ACM See Note 1.	300 SF	N/A	See Note 3.
B74	Block/air-cell pipe & joint insulation	—	ACM See Note 1.	20 LF	Poor	—
	Loose ACM contaminated construction & household debris	—	ACM See Note 1.	300 SF	N/A	See Note 3.
B75	Block/air-cell pipe & joint insulation	—	ACM See Note 1.	20 LF	Poor	—
	Loose ACM contaminated construction & household debris	—	ACM See Note 1.	300 SF	N/A	See Note 3.
B76	Block/air-cell pipe & joint insulation	—	ACM See Note 1.	35 LF	Poor	—
	Loose ACM contaminated construction & household debris	—	ACM See Note 1.	300 SF	N/A	See Note 3.
B77	Ebony/Transite with electrical box	—	ACM See Note 1.	1 SF	Fair	—
B78A	Block/air-cell pipe & joint insulation	—	ACM See Note 1.	5 LF	Poor	—
	Loose ACM contaminated construction & household debris	—	ACM See Note 1.	180 SF	N/A	See Note 3.
B78	Block/air-cell pipe & joint insulation	—	ACM See Note 1.	60 LF	Poor	—
	Loose ACM contaminated construction & household debris	—	ACM See Note 1.	340 SF	N/A	See Note 3.
	Bags with ACM contaminated construction & household debris	—	ACM See Note 1.	2.00 CY	N/A	See Note 4.
B78B	Block/air-cell pipe & joint insulation	—	ACM See Note 1.	100 LF	Poor	—
	Loose ACM contaminated construction & household debris	—	ACM See Note 1.	370 SF	N/A	See Note 3.
	Door caulk	—	ACM See Note 1.	60 LF	Fair	—
B79	Loose ACM contaminated construction & household debris	—	ACM See Note 1.	230 SF	N/A	See Note 3.
B80	Loose ACM contaminated construction & household debris	—	ACM See Note 1.	160 SF	N/A	See Note 3.
B81	Loose ACM contaminated construction & household debris	—	ACM See Note 1.	150 SF	N/A	See Note 3.
B82	Loose ACM contaminated construction & household debris	—	ACM See Note 1.	50 SF	N/A	See Note 3.
B83	Loose ACM contaminated construction & household debris	—	ACM See Note 1.	150 SF	N/A	See Note 3.
B84	Loose ACM contaminated construction & household debris	—	ACM See Note 1.	100 SF	N/A	See Note 3.
B85	Block/air-cell pipe & joint insulation	—	ACM See Note 1.	15 LF	Poor	—
	Loose ACM contaminated construction & household debris	—	ACM See Note 1.	150 SF	N/A	See Note 3.
B86	Block/air-cell pipe & joint insulation	—	ACM See Note 1.	15 LF	Poor	—
	Loose ACM contaminated construction & household debris	—	ACM See Note 1.	150 SF	N/A	See Note 3.
B87	Block/air-cell pipe & joint insulation	—	ACM See Note 1.	15 LF	Poor	—
	Loose ACM contaminated construction & household debris	—	ACM See Note 1.	150 SF	N/A	See Note 3.
B88	Loose ACM contaminated construction & household debris	—	ACM See Note 1.	50 SF	N/A	See Note 3.
B89	Loose ACM contaminated construction & household debris	—	ACM See Note 1.	50 SF	N/A	See Note 3.
B93	Block/air-cell pipe & joint insulation	—	ACM See Note 1.	30 LF	Poor	—
	Loose ACM contaminated construction & household debris	—	ACM See Note 1.	180 SF	N/A	See Note 3.
B94	Block/air-cell pipe & joint insulation	—	ACM See Note 1.	8 LF	Poor	—
	Loose ACM contaminated construction & household debris	—	ACM See Note 1.	100 SF	N/A	See Note 3.

	Table 1 - SUMMARY OF ASBESTOS SURVEY FINDINGS - ACM IDNETIFIED					
Space ID	Material	Sample ID	Survey Results	Estimated Quantity of ACM	Condition	Notes/Comments
B95	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	150 SF	N/A	See Note 3.
B96	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	180 SF	N/A	See Note 3.
B97	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	260 SF	N/A	See Note 3.
B99	Block/air-cell pipe & joint insulation	---	ACM See Note 1.	8 LF	Poor	---
B100	Block/air-cell pipe & joint insulation	---	ACM See Note 1.	80 LF	Poor	---
	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	480 SF	N/A	See Note 3.
B101	Block/air-cell pipe & joint insulation	---	ACM See Note 1.	20 LF	Poor	---
	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	550 SF	N/A	See Note 3.
B102	Block/air-cell pipe & joint insulation	---	ACM See Note 1.	30 LF	Poor	---
	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	100 SF	N/A	See Note 3.
B103	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	550 SF	N/A	See Note 3.
B104	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	400 SF	N/A	See Note 3.
B105	Block/air-cell pipe & joint insulation	---	ACM See Note 1.	20 LF	Poor	---
	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	125 SF	N/A	See Note 3.
B106	Block/air-cell pipe & joint insulation	---	ACM See Note 1.	20 LF	Poor	---
	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	125 SF	N/A	See Note 3.
B109	Block/air-cell pipe & joint insulation	---	ACM See Note 1.	20 LF	Poor	---
	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	550 SF	N/A	See Note 3.
B110	Block/air-cell pipe & joint insulation	---	ACM See Note 1.	60 LF	Poor	---
	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	480 SF	N/A	See Note 3.
B111	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	220 SF	N/A	See Note 3.
B112	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	220 SF	N/A	See Note 3.
B113	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	50 SF	N/A	See Note 3.
B114	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	10 SF	N/A	See Note 3.
B115	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	20 SF	N/A	See Note 3.
B116	Block/air-cell pipe & joint insulation	---	ACM See Note 1.	50 LF	Poor	---
	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	125 SF	N/A	See Note 3.
B118	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	40 SF	N/A	See Note 3.
	Bags with ACM contaminated construction & household debris	---	ACM See Note 1.	0.50 CY	N/A	See Note 4.
B119	Block/air-cell pipe & joint insulation	---	ACM See Note 1.	20 LF	Poor	---
	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	660 SF	N/A	See Note 3.
	Bags with ACM contaminated construction & household debris	---	ACM See Note 1.	3.00 CY	N/A	See Note 4.
B121	Ebony/Transite with electrical box	---	ACM See Note 1.	1 SF	Fair	---
Entire Level	Concealed block and air-cell pipe insulation	---	ACM See Note 1.	500 LF	Unknown	See Note 8
Entire Level	Electrical wire insulation	---	ACM See Note 1.	15,000 LF	Unknown	See Note 7

	Table 1 - SUMMARY OF ASBESTOS SURVEY FINDINGS - ACM IDNETIFIED					
Space ID	Material	Sample ID	Survey Results	Estimated Quantity of ACM	Condition	Notes/Comments
Basement Mezzanine Level						
BM2	Block/air-cell pipe & joint insulation	---	ACM See Note 1.	2 LF	Poor	---
	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	50 SF	N/A	See Note 3.
BM5	Block/air-cell pipe & joint insulation	---	ACM See Note 1.	20 LF	Poor	---
	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	100 SF	N/A	See Note 3.
BM6	Block/air-cell pipe & joint insulation	---	ACM See Note 1.	8 LF	Poor	---
	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	50 SF	N/A	See Note 3.
BM7	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	10 SF	N/A	See Note 3.
BM8	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	20 SF	N/A	See Note 3.
BM10	Block/air-cell pipe & joint insulation	---	ACM See Note 1.	150 LF	Poor	---
	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	700 SF	N/A	See Note 3.
BM11	Block/air-cell pipe & joint insulation	---	ACM See Note 1.	80 LF	Poor	---
	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	600 SF	N/A	See Note 3.
BM12	Block/air-cell pipe & joint insulation	---	ACM See Note 1.	25 LF	Poor	---
	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	100 SF	N/A	See Note 3.
BM16	Block/air-cell pipe & joint insulation	---	ACM See Note 1.	40 LF	Poor	---
	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	750 SF	N/A	See Note 3.
BM19	Block/air-cell pipe & joint insulation	---	ACM See Note 1.	20 LF	Poor	---
	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	40 SF	N/A	See Note 3.
BM20	Block/air-cell pipe & joint insulation	---	ACM See Note 1.	130 LF	Poor	---
	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	750 SF	N/A	See Note 3.
BM21	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	650 SF	N/A	See Note 3.
	Bags with ACM contaminated construction & household debris	---	ACM See Note 1.	4.00 CY	N/A	See Note 4.
BM22	Block/air-cell pipe & joint insulation	---	ACM See Note 1.	30 LF	Poor	---
	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	50 SF	N/A	See Note 3.
BM23	Block/air-cell pipe & joint insulation	---	ACM See Note 1.	10 LF	Poor	---
	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	5 SF	N/A	See Note 3.
BM24	Block/air-cell pipe & joint insulation	---	ACM See Note 1.	80 LF	Poor	---
	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	40 SF	N/A	See Note 3.
BM25	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	600 SF	N/A	See Note 3.
BM27	Bags with ACM contaminated construction & household debris	---	ACM See Note 1.	0.25 CY	N/A	See Note 4.
BM28	Block/air-cell pipe & joint insulation	---	ACM See Note 1.	30 LF	Poor	---
	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	300 SF	N/A	See Note 3.
BM29	Block/air-cell pipe & joint insulation	---	ACM See Note 1.	10 LF	Poor	---
	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	100 SF	N/A	See Note 3.
BM33	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	750 SF	N/A	See Note 3.
BM34	Bags with ACM contaminated construction & household debris	---	ACM See Note 1.	0.25 CY	N/A	See Note 4.

	Table 1 - SUMMARY OF ASBESTOS SURVEY FINDINGS - ACM IDNETIFIED					
Space ID	Material	Sample ID	Survey Results	Estimated Quantity of ACM	Condition	Notes/Comments
BM36	Bags with ACM contaminated construction & household debris	---	ACM See Note 1.	0.25 CY	N/A	See Note 4.
BM37	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	460 SF	N/A	See Note 3.
BM38	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	40 SF	N/A	See Note 3.
BM39	Block/air-cell pipe & joint insulation	---	ACM See Note 1.	200 LF	Poor	---
	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	1,100 SF	N/A	See Note 3.
BM43	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	100 SF	N/A	See Note 3.
	Bags with ACM contaminated construction & household debris	---	ACM See Note 1.	1.00 CY	N/A	See Note 4.
BM45	Block/air-cell pipe & joint insulation	---	ACM See Note 1.	50 LF	Poor	---
	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	290 SF	N/A	See Note 3.
	Bags with ACM contaminated construction & household debris	---	ACM See Note 1.	1.00 CY	N/A	See Note 4.
BM48	Block/air-cell pipe & joint insulation	---	ACM See Note 1.	20 LF	Poor	---
	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	380 SF	N/A	See Note 3.
BM49	Block/air-cell pipe & joint insulation	---	ACM See Note 1.	10 LF	Poor	---
	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	15 SF	N/A	See Note 3.
BM50	Block/air-cell pipe & joint insulation	---	ACM See Note 1.	25 LF	Poor	---
	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	25 SF	N/A	See Note 3.
BM51	Block/air-cell pipe & joint insulation	---	ACM See Note 1.	20 LF	Poor	---
	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	320 SF	N/A	See Note 3.
BM52	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	25 SF	N/A	See Note 3.
BM53	Block/air-cell pipe & joint insulation	---	ACM See Note 1.	45 LF	Poor	---
	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	360 SF	N/A	See Note 3.
BM54	Block/air-cell pipe & joint insulation	---	ACM See Note 1.	20 LF	Poor	---
	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	30 SF	N/A	See Note 3.
BM56	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	260 SF	N/A	See Note 3.
BM58	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	300 SF	N/A	See Note 3.
	Bags with ACM contaminated construction & household debris	---	ACM See Note 1.	0.50 CY	N/A	See Note 4.
BM59	Block/air-cell pipe & joint insulation	---	ACM See Note 1.	25 LF	Poor	---
BM60	Block/air-cell pipe & joint insulation	---	ACM See Note 1.	8 LF	Poor	---
	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	380 SF	N/A	See Note 3.
BM61	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	360 SF	N/A	See Note 3.
BM62	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	260 SF	N/A	See Note 3.
BM63	VAT & mastic	---	ACM See Note 1.	160 SF	Poor	---
BM64	Ebony/Transite with electrical box	---	ACM See Note 1.	1 SF	Fair	---
BM65	Block/air-cell pipe & joint insulation	---	ACM See Note 1.	60 LF	Poor	---
BM65A	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	25 SF	N/A	See Note 3.
	Bags with ACM contaminated construction & household debris	---	ACM See Note 1.	0.25 CY	N/A	See Note 4.

	Table 1 - SUMMARY OF ASBESTOS SURVEY FINDINGS - ACM IDNETIFIED					
Space ID	Material	Sample ID	Survey Results	Estimated Quantity of ACM	Condition	Notes/Comments
BM66	VAT & mastic	—	ACM See Note 1.	1,450 SF	Poor	—
	Loose ACM contaminated construction & household debris	—	ACM See Note 1.	1,450 SF	N/A	See Note 3.
	Bags with ACM contaminated construction & household debris	—	ACM See Note 1.	0.75 CY	N/A	See Note 4.
BM67	VAT & mastic	—	ACM See Note 1.	160 SF	Poor	—
BM68	Loose ACM contaminated construction & household debris	—	ACM See Note 1.	340 SF	N/A	See Note 3.
	Bags with ACM contaminated construction & household debris	—	ACM See Note 1.	1.00 CY	N/A	See Note 4.
BM69	Block/air-cell pipe & joint insulation	—	ACM See Note 1.	25 LF	Poor	—
	Loose ACM contaminated construction & household debris	—	ACM See Note 1.	30 SF	N/A	See Note 3.
BM70	Loose ACM contaminated construction & household debris	—	ACM See Note 1.	280 SF	N/A	See Note 3.
BM71	Block/air-cell pipe & joint insulation	—	ACM See Note 1.	25 LF	Poor	—
	Loose ACM contaminated construction & household debris	—	ACM See Note 1.	380 SF	N/A	See Note 3.
BM72	Loose ACM contaminated construction & household debris	—	ACM See Note 1.	380 SF	N/A	See Note 3.
BM73	Block/air-cell pipe & joint insulation	—	ACM See Note 1.	25 LF	Poor	—
	Loose ACM contaminated construction & household debris	—	ACM See Note 1.	30 SF	N/A	See Note 3.
BM74	Block/air-cell pipe & joint insulation	—	ACM See Note 1.	23 LF	Poor	—
BM75	Loose ACM contaminated construction & household debris	—	ACM See Note 1.	300 SF	N/A	See Note 3.
BM76	Block/air-cell pipe & joint insulation	—	ACM See Note 1.	23 LF	Poor	—
BM77	Loose ACM contaminated construction & household debris	—	ACM See Note 1.	380 SF	N/A	See Note 3.
BM78	Block/air-cell pipe & joint insulation	—	ACM See Note 1.	25 LF	Poor	—
	Loose ACM contaminated construction & household debris	—	ACM See Note 1.	30 SF	N/A	See Note 3.
BM79	Block/air-cell pipe & joint insulation	—	ACM See Note 1.	23 LF	Poor	—
BM80	Loose ACM contaminated construction & household debris	—	ACM See Note 1.	300 SF	N/A	See Note 3.
BM81	Block/air-cell pipe & joint insulation	—	ACM See Note 1.	23 LF	Poor	—
BM82	Loose ACM contaminated construction & household debris	—	ACM See Note 1.	380 SF	N/A	See Note 3.
BM83	Block/air-cell pipe & joint insulation	—	ACM See Note 1.	12 LF	Poor	—
	Loose ACM contaminated construction & household debris	—	ACM See Note 1.	15 SF	N/A	See Note 3.
BM85	Loose ACM contaminated construction & household debris	—	ACM See Note 1.	300 SF	N/A	See Note 3.
BM87	VAT & mastic	—	ACM See Note 1.	330 SF	Poor	—
	Loose ACM contaminated construction & household debris	—	ACM See Note 1.	330 SF	N/A	See Note 3.
BM88	Loose ACM contaminated construction & household debris	—	ACM See Note 1.	60 SF	N/A	See Note 3.
BM89	Loose ACM contaminated construction & household debris	—	ACM See Note 1.	50 SF	N/A	See Note 3.
BM90	VAT & mastic	—	ACM See Note 1.	200 SF	Poor	—
	Loose ACM contaminated construction & household debris	—	ACM See Note 1.	200 SF	N/A	See Note 3.
BM91	VAT & mastic	—	ACM See Note 1.	100 SF	Poor	—
	Loose ACM contaminated construction & household debris	—	ACM See Note 1.	100 SF	N/A	See Note 3.
BM92	VAT & mastic	—	ACM See Note 1.	300 SF	Poor	—
	Loose ACM contaminated construction & household debris	—	ACM See Note 1.	300 SF	N/A	See Note 3.

	Table 1 - SUMMARY OF ASBESTOS SURVEY FINDINGS - ACM IDNETIFIED					
Space ID	Material	Sample ID	Survey Results	Estimated Quantity of ACM	Condition	Notes/Comments
BM93	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	50 SF	N/A	See Note 3.
BM94	VAT & mastic	---	ACM See Note 1.	200 SF	Poor	---
	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	200 SF	N/A	See Note 3.
BM95	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	60 SF	N/A	See Note 3.
BM96	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	60 SF	N/A	See Note 3.
BM97	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	500 SF	N/A	See Note 3.
	Bags with ACM contaminated construction & household debris	---	ACM See Note 1.	4.00 CY	N/A	See Note 4.
BM98	Block/air-cell pipe & joint insulation	---	ACM See Note 1.	30 LF	Poor	---
	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	15 SF	N/A	See Note 3.
BM99	Block/air-cell pipe & joint insulation	---	ACM See Note 1.	50 LF	Poor	---
	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	10 SF	N/A	See Note 3.
BM101	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	10 SF	N/A	See Note 3.
	Bags with ACM contaminated construction & household debris	---	ACM See Note 1.	0.50 CY	N/A	See Note 4.
BM102	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	20 SF	N/A	See Note 3.
BM103	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	20 SF	N/A	See Note 3.
BM104	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	20 SF	N/A	See Note 3.
BM105	Bags with ACM contaminated construction & household debris	---	ACM See Note 1.	0.25 CY	N/A	See Note 4.
BM106	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	5 SF	N/A	See Note 3.
	Bags with ACM contaminated construction & household debris	---	ACM See Note 1.	0.15 CY	N/A	See Note 4.
BM107	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	5 SF	N/A	See Note 3.
	Bags with ACM contaminated construction & household debris	---	ACM See Note 1.	0.15 CY	N/A	See Note 4.
BM111	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	15 SF	N/A	See Note 3.
BM123	VAT & mastic	---	ACM See Note 1.	1,500 SF	Fair	See Note 5.
BM134	VAT & mastic	---	ACM See Note 1.	1,900 SF	Fair	See Note 5.
BM136	VAT & mastic	---	ACM See Note 1.	440 SF	Fair	See Note 5.
BM137	VAT & mastic	---	ACM See Note 1.	360 SF	Fair	See Note 5.
BM139	VAT & mastic	---	ACM See Note 1.	200 SF	Fair	See Note 5.
BM140	VAT & mastic	---	ACM See Note 1.	130 SF	Fair	See Note 5.
Entire Level	Concealed block and air-cell pipe insulation	---	ACM See Note 1.	1,000 LF	Unknown	See Note 8
Entire Level	Electrical wire insulation	---	ACM See Note 1.	10,000 LF	Unknown	See Note 7
Ground Level						
G1	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	750 SF	N/A	See Note 3.
G2	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	390 SF	N/A	See Note 3.

	Table 1 - SUMMARY OF ASBESTOS SURVEY FINDINGS - ACM IDNETIFIED					
Space ID	Material	Sample ID	Survey Results	Estimated Quantity of ACM	Condition	Notes/Comments
G2	Bags with ACM contaminated construction & household debris	---	ACM See Note 1.	1.00 CY	N/A	See Note 4.
G3	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	25 SF	N/A	See Note 3.
G4	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	200 SF	N/A	See Note 3.
G5	Loose ACM contaminated construction & household debris	---	Assumed ACM --	100 SF	N/A	Inaccessible Space
G6	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	45 SF	N/A	See Note 3.
	Bags with ACM contaminated construction & household debris	---	ACM See Note 1.	0.15 CY	N/A	See Note 4.
G8	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	130 SF	N/A	See Note 3.
	Bags with ACM contaminated construction & household debris	---	ACM See Note 1.	2.00 CY	N/A	See Note 4.
G9	VAT & mastic	---	ACM See Note 1.	880 SF	Poor	---
	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	880 SF	N/A	See Note 3.
G10	VAT & mastic	---	ACM See Note 1.	120 SF	Poor	---
	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	120 SF	N/A	See Note 3.
	Bags with ACM contaminated construction & household debris	---	ACM See Note 1.	0.50 CY	N/A	See Note 4.
G11	VAT & mastic	---	ACM See Note 1.	930 SF	Poor	---
G12	VAT & mastic (damaged) & ACM contaminated construction & household debris	---	ACM See Note 1.	930 SF	Poor	---
G13	VAT & mastic	---	ACM See Note 1.	120 SF	Poor	---
G14	VAT & mastic	---	ACM See Note 1.	930 SF	N/A	See Note 6.
G15	VAT & mastic (damaged) & ACM contaminated construction & household debris	---	ACM See Note 1.	550 SF	Poor	---
	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	100 SF	N/A	See Note 3.
G16	VAT & mastic (damaged) & ACM contaminated construction & household debris	---	ACM See Note 1.	550 SF	Poor	---
	Block/air-cell pipe & joint insulation	---	ACM See Note 1.	20 LF	Poor	---
	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	100 SF	N/A	See Note 3.
G19	VAT & mastic (damaged) & ACM contaminated construction & household debris	---	ACM See Note 1.	870 SF	Poor	---
G20	VAT & mastic (damaged) & ACM contaminated construction & household debris	---	ACM See Note 1.	890 SF	Poor	---
G22	VAT & mastic	---	ACM See Note 1.	870 SF	Poor	---
G23	VAT & mastic (damaged) & ACM contaminated construction & household debris	---	ACM See Note 1.	870 SF	Poor	---
G24	VAT & mastic (damaged) & ACM contaminated construction & household debris	---	ACM See Note 1.	780 SF	Poor	---
G25	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	150 SF	N/A	See Note 3.
	Bags with ACM contaminated construction & household debris	---	ACM See Note 1.	0.50 CY	N/A	See Note 4.

	Table 1 - SUMMARY OF ASBESTOS SURVEY FINDINGS - ACM IDNETIFIED					
Space ID	Material	Sample ID	Survey Results	Estimated Quantity of ACM	Condition	Notes/Comments
G28/29	Pipe insulation debris in chases	PID	ACM CHRY 1.5%	100 SF	N/A	---
G30	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	840 SF	N/A	See Note 3.
	Bags with ACM contaminated construction & household debris	---	ACM See Note 1.	50.00 CY	N/A	See Note 4.
G41	Block/air-cell pipe & joint insulation	---	ACM See Note 1.	35 LF	Poor	---
	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	100 SF	N/A	See Note 3.
G42	Ebony/Transite with electrical box	---	ACM See Note 1.	50 SF	Fair	---
G43	Ebony/Transite with electrical box	---	ACM See Note 1.	50 SF	Fair	---
G44	Loose ACM contaminated construction & household debris	---	Assumed ACM --	20 CY	N/A	Inaccessible Space
G45	Block/air-cell pipe & joint insulation	---	ACM See Note 1.	90 LF	Fair	---
	Bags with ACM contaminated construction & household debris	---	ACM See Note 1.	3.00 CY	N/A	See Note 4.
Entire Level	Concealed block and air-cell pipe insulation	---	ACM See Note 1.	2,500 LF	Unknown	See Note 8
Entire Level	Electrical wire insulation	---	ACM See Note 1.	15,000 LF	Unknown	See Note 7
Ground Level Mezzanine						
GM1	Wall panel glue	---	ACM See Note 1.	100 SF	Poor	---
GM2	Pipe insulation debris	---	ACM See Note 1.	50 SF	N/A	---
GM5	VAT & mastic	---	ACM See Note 1.	130 SF	Fair	---
GM8	VAT & mastic	---	ACM See Note 1.	130 SF	Fair	---
GM11	VAT & mastic	---	ACM See Note 1.	130 SF	Fair	---
GM13	Pipe insulation debris	---	ACM See Note 1.	5 SF	N/A	---
	VAT & mastic	---	ACM See Note 1.	420 SF	Poor	---
GM15	Pipe insulation debris	---	ACM See Note 1.	15 SF	N/A	---
	VAT & mastic	---	ACM See Note 1.	420 SF	Poor	---
GM16	VAT & mastic	---	ACM See Note 1.	130 SF	Poor	---
GM18	VAT & mastic	---	ACM See Note 1.	130 SF	Poor	---
GM19	Pipe insulation debris	---	ACM See Note 1.	50 SF	N/A	---
GM21	Wall panel glue	---	ACM See Note 1.	50 SF	Poor	---
	VAT & mastic	---	ACM See Note 1.	130 SF	Fair	---
GM22	VAT & mastic	---	ACM See Note 1.	130 SF	Poor	---
GM25	VAT & mastic	---	ACM See Note 1.	130 SF	Poor	---
Entire Level	Concealed block and air-cell pipe insulation	---	ACM See Note 1.	600 LF	Unknown	See Note 8
Entire Level	Electrical wire insulation	---	ACM See Note 1.	1,000 LF	Unknown	See Note 7
Second Floor						
202	Block/air-cell pipe & joint insulation	---	ACM See Note 1.	50 LF	Poor	---
	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	360 SF	N/A	See Note 3.
202A	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	360 SF	N/A	See Note 3.
204	Block/air-cell pipe & joint insulation	---	ACM See Note 1.	40 LF	Poor	---
	VAT & mastic	---	ACM See Note 1.	650 SF	Poor	---
	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	650 SF	N/A	See Note 3.
207	VAT & mastic	---	ACM See Note 1.	2,200 SF	Poor	---
	Mirror glue	---	ACM See Note 1.	20 SF	Poor	---
	Wall panel glue	---	ACM See Note 1.	1,600 SF	Poor	---
209	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	125 SF	N/A	See Note 3.
	Block/air-cell pipe & joint insulation	---	ACM See Note 1.	6 LF	Poor	---

	Table 1 - SUMMARY OF ASBESTOS SURVEY FINDINGS - ACM IDNETIFIED					
Space ID	Material	Sample ID	Survey Results	Estimated Quantity of ACM	Condition	Notes/Comments
210	Bags with ACM contaminated construction & household debris	---	ACM See Note 1.	0.10 CY	N/A	See Note 4.
211	VAT & mastic (damaged) & ACM contaminated construction & household debris	---	ACM See Note 1.	510 SF	Poor	See Note 3.
212	VAT & mastic (damaged) & ACM contaminated construction & household debris	---	ACM See Note 1.	510 SF	Poor	See Note 3.
213	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	500 SF	N/A	See Note 3.
214	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	25 SF	N/A	See Note 3.
215	VAT & mastic (damaged) & ACM contaminated construction & household debris	---	ACM See Note 1.	530 SF	Poor	See Note 3.
216	VAT & mastic (damaged) & ACM contaminated construction & household debris	---	ACM See Note 1.	600 SF	Poor	See Note 3.
217	Block/air-cell pipe & joint insulation	---	ACM See Note 1.	9 LF	Poor	---
218	VAT & mastic (damaged) & ACM contaminated construction & household debris	---	ACM See Note 1.	390 SF	Poor	See Note 3.
219	VAT & mastic (damaged) & ACM contaminated construction & household debris	---	ACM See Note 1.	400 SF	Poor	See Note 3.
220	Block/air-cell pipe & joint insulation	---	ACM See Note 1.	9 LF	Poor	---
222	VAT & mastic (damaged) & ACM contaminated construction & household debris	---	ACM See Note 1.	390 SF	Poor	See Note 3.
223	VAT & mastic (damaged) & ACM contaminated construction & household debris	---	ACM See Note 1.	390 SF	Poor	See Note 3.
225	Block/air-cell pipe & joint insulation	---	ACM See Note 1.	9 LF	Poor	---
226	VAT & mastic (damaged) & ACM contaminated construction & household debris	---	ACM See Note 1.	390 SF	Poor	See Note 3.
227/ 228	VAT & mastic (damaged) & ACM contaminated construction & household debris	---	ACM See Note 1.	510 SF	Poor	See Note 3.
232	Ebony/Transite with electrical box	---	ACM See Note 1.	10 SF	Fair	---
Entire Level	Concealed block and air-cell pipe insulation	---	ACM See Note 1.	1,500 LF	Unknown	See Note 8
Entire Level	Electrical wire insulation	---	ACM See Note 1.	3,000 LF	Unknown	See Note 7
Third Floor						
302	VAT & mastic (damaged) & ACM contaminated construction & household debris	---	ACM See Note 1.	100 SF	Poor	See Note 3.
305	VAT & mastic (damaged) & ACM contaminated construction & household debris	---	ACM See Note 1.	600 SF	Poor	See Note 3.
307	VAT & mastic (damaged) & ACM contaminated construction & household debris	---	ACM See Note 1.	450 SF	Poor	See Note 3.
310	Block/air-cell pipe & joint insulation	---	ACM See Note 1.	140 LF	Poor	---
	VAT & mastic (damaged) & ACM contaminated construction & household debris	---	ACM See Note 1.	1,400 SF	Poor	See Note 3.

	Table 1 - SUMMARY OF ASBESTOS SURVEY FINDINGS - ACM IDNETIFIED					
Space ID	Material	Sample ID	Survey Results	Estimated Quantity of ACM	Condition	Notes/Comments
311	VAT & mastic (damaged) & ACM contaminated construction & household debris	---	ACM See Note 1.	25 SF	Poor	See Note 3.
313	VAT & mastic (damaged) & ACM contaminated construction & household debris	---	ACM See Note 1.	450 SF	Poor	See Note 3.
315	VAT & mastic (damaged) & ACM contaminated construction & household debris	---	ACM See Note 1.	480 SF	Poor	See Note 3.
316	VAT & mastic (damaged) & ACM contaminated construction & household debris	---	ACM See Note 1.	200 SF	Poor	See Note 3.
318	VAT & mastic (damaged) & ACM contaminated construction & household debris	---	ACM See Note 1.	100 SF	Poor	See Note 3.
319	Pipe insulation debris	---	ACM See Note 1.	60 SF	N/A	---
318	VAT & mastic (damaged) & ACM contaminated construction & household debris	---	ACM See Note 1.	150 SF	Poor	See Note 3.
Entire Level	Concealed block and air-cell pipe insulation	---	ACM See Note 1.	400 LF	Unknown	See Note 8
Entire Level	Electrical wire insulation	---	ACM See Note 1.	1,000 LF	Unknown	See Note 7
Forth Floor						
401	Block/air-cell pipe & joint insulation	---	ACM See Note 1.	25 LF	Poor	---
	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	400 SF	N/A	See Note 3.
402	Block/air-cell pipe & joint insulation	---	ACM See Note 1.	25 LF	Poor	---
	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	400 SF	N/A	See Note 3.
Entire Level	Concealed block and air-cell pipe insulation	---	ACM See Note 1.	100 LF	Unknown	See Note 8
Entire Level	Electrical wire insulation	---	ACM See Note 1.	200 LF	Unknown	See Note 7
Fifth Floor						
Entire Level	Electrical wire insulation	---	ACM See Note 1.	50 LF	Unknown	See Note 7
Exterior (Gable Ends, Clerestory Bands and Parapets)						
--	Mastic, flashing materials and caulking on gable ends and clerestory bands	---	ACM See Note 1.	12,000 SF	Unknown	See Note 9.
NON-ACM IDENTIFIED						
Sub-Basement						
Entire Level	Wall plaster	WP	Non-ACM See Note 10.	-- --	Poor	Throughout
SB7	Boiler Lining (small square boilers)	BLN	Non-ACM ND	-- --	Poor	---
Entire Level	New mud-pack pipe joint insulation associated w/ fiberglass	---	Non-ACM See Note 2.	-- --	Poor	Scattered Locations
SB7	Boiler gasket	---	Non-ACM See Note 2.	-- --	Poor	---
SB7	Boiler edge patch material	---	Non-ACM See Note 2.	-- --	Poor	---
SB7 SB10	Breeching insulation	---	Non-ACM See Note 2.	-- --	Poor	---
Basement Level						
Entire Level	Wall plaster and ceiling plaster	WP CP	Non-ACM See Note 10.	-- --	Poor	Throughout

	Table 1 - SUMMARY OF ASBESTOS SURVEY FINDINGS - ACM IDNETIFIED					
Space ID	Material	Sample ID	Survey Results	Estimated Quantity of ACM	Condition	Notes/Comments
Entire Level	Electric arc protecting shield with new electrical panels	EAP	Non-ACM ND	-- --	Fair	Select Locations
Entire Level	New mud-pack pipe joint insulation associated w/ fiberglass	---	Non-ACM See Note 2.	-- --	Poor	Scattered Locations
Entire Level	Sheetrock wallboard and joint compound	---	Non-ACM See Note 2.	-- --	Poor	Scattered Locations
Entire Level	Vibration dumper cloth	---	Non-ACM See Note 2.	-- --	Fair	Select Locations
Entire Level	Pressboard material	---	Non-ACM See Note 2.	-- --	Poor	Select Locations
Entire Level	Electric panel board with new panels	---	Non-ACM See Note 2.	-- --	Fair	Select Locations
Entire Level	Cove base and associated mastic	---	Non-ACM See Note 2.	-- --	Fair	Select Locations
Entire Level	Pyroblock	---	Non-ACM See Note 2.	-- --	Unknown	Scattered Locations
Basement Mezzanine Level						
Entire Level	Wall plaster and ceiling plaster	WP CP	Non-ACM See Note 10.	-- --	Poor	Throughout
Entire Level	Electric arc protecting shield with new electrical panels	EAP	Non-ACM ND	-- --	Fair	Select Locations
Entire Level	New mud-pack pipe joint insulation associated w/ fiberglass	---	Non-ACM See Note 2.	-- --	Poor	Scattered Locations
Entire Level	Sheetrock wallboard and joint compound	---	Non-ACM See Note 2.	-- --	Poor	Scattered Locations
Entire Level	Vibration dumper cloth	---	Non-ACM See Note 2.	-- --	Fair	Select Locations
Entire Level	Pressboard material	---	Non-ACM See Note 2.	-- --	Poor	Select Locations
Entire Level	Electric panel board with new panels	---	Non-ACM See Note 2.	-- --	Fair	Select Locations
Entire Level	Cove base and associated mastic	---	Non-ACM See Note 2.	-- --	Fair	Select Locations
Entire Level	Pyroblock	---	Non-ACM See Note 2.	-- --	Unknown	Scattered Locations
Ground Level						
G1/G2	Pipe joint insulation in chases	PJ1	Non-ACM ND	-- --	Poor	---
G4	12-inch ceiling tile	CT	Non-ACM ND	-- --	Poor	---
	Glue to ceiling tile	CGD	Non-ACM ND	-- --	Poor	---
G4 G5	Window glazing putty	WGP	Non-ACM ND	-- --	Fair	---
G18	Red cementitious floor material	CFM	Non-ACM ND	-- --	Good	---
G31 thru 39	Pipe joint insulation	PJ2	Non-ACM ND	-- --	Poor	---
Entire Level	Wall plaster and ceiling plaster	WP CP	Non-ACM See Note 10.	-- --	Poor	Throughout
Entire Level	Electric arc protecting shield with new electrical panels	EAP	Non-ACM ND	-- --	Fair	Select Locations
Entire Level	New mud-pack pipe joint insulation associated w/ fiberglass	---	Non-ACM See Note 2.	-- --	Poor	Scattered Locations
Entire Level	Sheetrock wallboard and joint compound	---	Non-ACM See Note 2.	-- --	Poor	Scattered Locations
Entire Level	Vibration dumper cloth	---	Non-ACM See Note 2.	-- --	Fair	Select Locations

	Table 1 - SUMMARY OF ASBESTOS SURVEY FINDINGS - ACM IDNETIFIED					
Space ID	Material	Sample ID	Survey Results	Estimated Quantity of ACM	Condition	Notes/Comments
Entire Level	Electric panel board with new panels	---	Non-ACM See Note 2.	-- --	Fair	Select Locations
Entire Level	Cove base and associated mastic	---	Non-ACM See Note 2.	-- --	Fair	Select Locations
Ground Mezzanine Level						
Entire Level	Wall plaster and ceiling plaster	WP CP	Non-ACM See Note 10.	-- --	Poor	Throughout
Entire Level	Sheetrock wallboard and joint compound	---	Non-ACM See Note 2.	-- --	Poor	Scattered Locations
Entire Level	Cove base and associated mastic	---	Non-ACM See Note 2.	-- --	Fair	Select Locations
Second Floor						
213	Red cementitious floor material	CFM	Non-ACM ND	-- --	Good	---
Entire Level	Wall plaster and ceiling plaster	WP CP	Non-ACM See Note 10.	-- --	Poor	Throughout
Entire Level	Sheetrock wallboard and joint compound	---	Non-ACM See Note 2.	-- --	Poor	Scattered Locations
Entire Level	Cove base and associated mastic	---	Non-ACM See Note 2.	-- --	Fair	Select Locations
Third Floor						
Entire Level	Wall plaster and ceiling plaster	WP CP	Non-ACM See Note 10.	-- --	Poor	Throughout
Entire Level	Sheetrock wallboard and joint compound	---	Non-ACM See Note 2.	-- --	Poor	Scattered Locations
Entire Level	Cove base and associated mastic	---	Non-ACM See Note 2.	-- --	Fair	Select Locations
Fourth Floor						
Entire Level	Black coating on brick wall under plaster	WCM	Non-ACM ND	-- --	Poor	---
Entire Level	Wall plaster and ceiling plaster	WP CP	Non-ACM See Note 10.	-- --	Poor	Throughout

NOTES:

1 ACM as per Langan Asbestos Investigation Report dated September 25, 2008.

2 Non-ACM as per Langan Asbestos Investigation Report dated September 25, 2008.

3 With the exception of the ground level Drill Area, debris from damaged ACM mixed with other household debris and damaged paint was throughout the Armory.

4 Black bags filled with asbestos contaminated construction & household debris were identified at several locations, all bags in the building shall be assumed ACM contaminated.

5 Multi-layers of floor tile/covering and mastic were observed at isolated locations. At the eastern section of the Basement Mezzanine, ACM floor tiles and mastic were observed covered with a layer of plywood and non-ACM floor tiles.

6 This area was renovated , however, old ACM floor tiles as identified in 2008 Langan Report may exist under new flooring.

7 Provided quantity reflects an approximate length of electrical conduits exposed and concealed within wall, floor and ceiling cavities throughout the floor. The size and number of wires within the conduits may vary.

8 An estimate is provided for the presence of concealed ACM pipe insulation within inaccessible wall, floor, and ceiling cavities.

9 The estimated quantity reflects area occupied by the panels. The information related to ACM within the gable areas is based on the data documented in prior survey reports. Due to height restrictions, the gable areas were inaccessible during Langan surveys.

10 Non-ACM as per Langan Asbestos Investigation Report dated September 25, 2008. Confirmatory sampling was performed during recent survey. Laboratory test results confirmed wall and ceiling plaster to be non-ACM.

Table 2 - XRF SCREENING RESULTS								
Survey ID #	Component	Substrate	Color	Test Location		Total Lead mg/cm^2	Results	Comments
				Floor	Area			
N/A	Calibration					1.00		---
N/A	Calibration					0.90		
N/A	Calibration					0.90		
1	**Wall**	**Plaster**	**White**	**2nd**	**Space 213**	**34.00**	**POSITIVE**	**Poor**
2	Truss/Column	Metal	Grey	2nd	Space 232	0.90	NEGATIVE	Fair to Good
3	**Truss/Column**	**Metal**	**Grey**	**2nd**	**Space 232**	**19.60**	**POSITIVE**	**Fair to Good**
4	**Truss/Column**	**Metal**	**Grey**	**2nd**	**Space 232**	**4.20**	**POSITIVE**	**Fair to Good**
5	**Handrail**	**Metal**	**Grey**	**2nd**	**Space 232**	**8.20**	**POSITIVE**	**Fair to Good**
6	Wall	Brick	Grey	2nd	Space 232	0.10	NEGATIVE	Poor
7	Wall	Brick	Grey	2nd	Space 232	-0.10	NEGATIVE	Poor
8	**Handrail**	**Metal**	**Grey**	**2nd**	**Space 232**	**5.70**	**POSITIVE**	**Fair to Good**
9	Wall	Brick	Grey	2nd	Space 232	0.00	NEGATIVE	Poor
10	Wall	Brick	Grey	2nd	Space 232	0.30	NEGATIVE	Poor
11	**Pipe insulation**	**Canvas**	**Green**	**2nd**	**Space 232**	**1.90**	**POSITIVE**	**Fair to Good**
12	**Truss/Column**	**Metal**	**Grey**	**2nd**	**Space 232**	**2.20**	**POSITIVE**	**Fair to Good**
13	Conduit	Metal	Lt.Green	2nd	Space 232	0.30	NEGATIVE	Good
14	**Beam**	**Metal**	**Beige**	**2nd**	**Space 232**	**8.70**	**POSITIVE**	**Poor**
15	**Stair**	**Metal**	**Grey**	**2nd**	**Space 232**	**8.10**	**POSITIVE**	**Poor**
16	**Radiator**	**Metal**	**Silver**	**2nd**	**Space 232**	**8.50**	**POSITIVE**	**Fair to Good**
17	**Wall**	**Plaster**	**Tan**	**2nd**	**Space 231**	**37.00**	**POSITIVE**	**Poor**
18	**Wall**	**Plaster**	**Grey**	**2nd**	**Space 231**	**39.00**	**POSITIVE**	**Poor**
19	**Ceiling**	**Plaster**	**Grey**	**2nd**	**Space 213**	**40.00**	**POSITIVE**	**Poor**
20	**Wall**	**Plaster**	**Tan**	**2nd**	**Space 206**	**15.60**	**POSITIVE**	**Poor**
21	**Wall**	**Plaster**	**Grey**	**2nd**	**Space 213**	**43.00**	**POSITIVE**	**Poor**
22	**Wall**	**Plaster**	**Grey**	**3rd**	**Space 313**	**40.00**	**POSITIVE**	**Poor**
23	**Frame (Door)**	**Wood**	**Grey**	**3rd**	**Space 313**	**38.00**	**POSITIVE**	**Poor**
24	**Door**	**Wood**	**Grey**	**3rd**	**Space 313**	**41.00**	**POSITIVE**	**Poor**
25	**Wall**	**Plaster**	**Beige**	**1st**	**Sapce G18**	**40.00**	**POSITIVE**	**Poor**
26	**Ceiling**	**Plaster**	**Beige**	**1st**	**Sapce G18**	**39.00**	**POSITIVE**	**Poor**
27	Door	Wood	Varnish	1st	Sapce G18	0.00	NEGATIVE	Fair to Good
28	Frame (Door)	Wood	Varnish	1st	Sapce G18	-0.30	NEGATIVE	Fair to Good
29	**Wall**	**Brick**	**Brown**	**1st**	**Sapce G45**	**13.50**	**POSITIVE**	**Fair to Good**
30	**Wall**	**Brick**	**Beige**	**1st**	**Sapce G45**	**6.60**	**POSITIVE**	**Poor**
31	**Wall**	**Brick**	**Brown**	**1st**	**Sapce G45**	**1.30**	**POSITIVE**	**Fair to Good**
32	Wall	Brick	Tan	1st	Sapce G45	0.00	NEGATIVE	Fair to Good
33	**Wall**	**Brick**	**Tan**	**1st**	**Sapce G45**	**4.60**	**POSITIVE**	**Fair to Good**
34	**Floor**	**Concrete**	**Yellow**	**1st**	**Sapce G45**	**12.80**	**POSITIVE**	**Fair to Good**
35	**Bollard**	**Metal**	**Yellow**	**1st**	**Sapce G45**	**5.10**	**POSITIVE**	**Good**
36	**Bollard**	**Metal**	**Yellow**	**1st**	**Sapce G45**	**2.80**	**POSITIVE**	**Good**
37	**Ceiling**	**Plaster**	**Beige**	**BMez**	**Sapce BM65**	**31.00**	**POSITIVE**	**Poor**
38	**Wall**	**Plaster**	**Grey**	**BMez**	**Sapce BM65**	**32.00**	**POSITIVE**	**Poor**
39	Door	Metal	Grey	BMez	Sapce BM65	0.80	NEGATIVE	Poor
40	**Frame (Door)**	**Metal**	**Grey**	**BMez**	**Sapce BM65**	**4.80**	**POSITIVE**	**Poor**
41	**Door**	**Wood**	**Green**	**BMez**	**Sapce BM64**	**2.00**	**POSITIVE**	**Poor**
42	**Frame (Door)**	**Wood**	**Green**	**BMez**	**Sapce BM64**	**1.70**	**POSITIVE**	**Poor**
43	**Column**	**Metal**	**Grey**	**BMez**	**Sapce BM114**	**25.40**	**POSITIVE**	**Poor**
44	**Column**	**Metal**	**White**	**BMez**	**Sapce BM114**	**25.80**	**POSITIVE**	**Poor**
45	**Wall**	**Brick**	**Grey**	**BMez**	**Sapce BM114**	**26.40**	**POSITIVE**	**Poor**
46	Wall	Brick	Tan	BMez	Sapce BM114	0.20	NEGATIVE	Poor
47	Wall	Brick	Tan	BMez	Sapce BM114	0.50	NEGATIVE	Poor
48	Ceiling	Plaster	Beige	BMez	Sapce BM114	-0.20	NEGATIVE	Poor
49	**Wall**	**Brick**	**Green**	**BMez**	**Sapce BM36**	**1.80**	**POSITIVE**	**Poor**
50	Column	Concrete	Tan	BMez	Sapce BM23	0.30	NEGATIVE	Poor
51	**Column**	**Concrete**	**Tan**	**BMez**	**Sapce BM23**	**42.00**	**POSITIVE**	**Poor**
52	**Wall**	**Brick**	**Tan**	**BMez**	**Sapce BM22**	**33.00**	**POSITIVE**	**Poor**
53	Wall	Brick	Grey	BMez	Sapce BM16	0.30	NEGATIVE	Poor
54	**Door**	**Metal**	**Green**	**BMez**	**Sapce BM10**	**19.00**	**POSITIVE**	**Poor**
55	**Column**	**Metal**	**Tan**	**BMez**	**Sapce BM10**	**27.20**	**POSITIVE**	**Poor**
56	Wall	Brick	Lt.Green	BMez	Sapce BM4	0.20	NEGATIVE	Poor
57	**Column**	**Concrete**	**Grey**	**BMez**	**Sapce BM1**	**2.20**	**POSITIVE**	**Poor**
58	**Column**	**Metal**	**Orange**	**Bsmt**	**Sapce B67**	**23.40**	**POSITIVE**	**Poor**
59	**Column**	**Metal**	**Yellow**	**Bsmt**	**Sapce B01**	**29.80**	**POSITIVE**	**Poor**
60	**Ramp**	**Wood**	**Yellow**	**Bsmt**	**Sapce B01**	**26.90**	**POSITIVE**	**Poor**
61	**Column**	**Metal**	**Yellow**	**Bsmt**	**Sapce B01**	**9.60**	**POSITIVE**	**Poor**
62	**Column**	**Metal**	**Orange**	**Bsmt**	**Sapce B01**	**18.90**	**POSITIVE**	**Poor**
63	**Beam**	**Metal**	**Orange**	**Bsmt**	**Sapce B01**	**10.80**	**POSITIVE**	**Poor**
64	**Door**	**Wood**	**Green**	**Bsmt**	**Sapce B01**	**16.80**	**POSITIVE**	**Poor**
65	**Frame (Door)**	**Wood**	**Green**	**Bsmt**	**Sapce B01**	**32.00**	**POSITIVE**	**Poor**
66	**Air Duct**	**Metal**	**Orange**	**Bsmt**	**Sapce B57**	**13.70**	**POSITIVE**	**Fair to Good**
67	**Air Duct**	**Metal**	**Orange**	**Bsmt**	**Sapce B01**	**5.00**	**POSITIVE**	**Fair to Good**

Table 2 - XRF SCREENING RESULTS								
Survey ID #	Component	Substrate	Color	Test Location		Total Lead mg/cm^2	Results	Comments
				Floor	Area			
68	**Wall**	**Plaster**	**Tan**	**Bsmt**	**Sapce B43**	**2.60**	**POSITIVE**	**Poor**
69	**Wall**	**Plaster**	**Tan**	**Bsmt**	**Sapce B43**	**21.20**	**POSITIVE**	**Poor**
70	**Ceiling**	**Plaster**	**Tan**	**Bsmt**	**Sapce B58**	**21.40**	**POSITIVE**	**Poor**
71	Wall	Brick	Red	Bsmt	Sapce B45	-0.10	NEGATIVE	Poor
72	Wall	Brick	Tan	Bsmt	Sapce B45	0.00	NEGATIVE	Poor
73	**Wall**	**Brick**	**Tan**	**Bsmt**	**Sapce B77**	**47.00**	**POSITIVE**	**Poor**
74	Column	Plaster	Tan	Bsmt	Sapce B77	-0.30	NEGATIVE	Poor
75	**Stair**	**Metal**	**Grey**	**Bsmt**	**Sapce B54**	**16.30**	**POSITIVE**	**Poor**
76	**Wall**	**Plaster**	**Blue**	**Bsmt**	**Sapce B79**	**30.00**	**POSITIVE**	**Poor**
77	**Wall**	**Brick**	**Grey**	**Bsmt**	**Sapce B38**	**12.30**	**POSITIVE**	**Poor**
78	**Column**	**Metal**	**Grey**	**Bsmt**	**Sapce B38**	**28.50**	**POSITIVE**	**Poor**
79	**Wall**	**Brick**	**Blue**	**Bsmt**	**Sapce B35**	**4.10**	**POSITIVE**	**Poor**
80	**Floor**	**Concrete**	**Grey**	**Bsmt**	**Sapce B35**	**1.50**	**POSITIVE**	**Poor**
81	**Wall**	**Concrete**	**Grey**	**Bsmt**	**Sapce B38**	**3.50**	**POSITIVE**	**Poor**
82	**Wall**	**Brick**	**White**	**Bsmt**	**Sapce B31**	**2.10**	**POSITIVE**	**Poor**
83	Wall	Brick	Green	Bsmt	Sapce B38	-0.10	NEGATIVE	Fair to Good
84	Wall	Brick	Red	Bsmt	Sapce B38	-0.20	NEGATIVE	Fair to Good
85	Wall	Brick	Silver	Bsmt	Sapce B38	-0.20	NEGATIVE	Fair to Good
86	**Wall**	**Brick**	**Grey**	**Bsmt**	**Sapce B38**	**1.70**	**POSITIVE**	**Poor**
87	Wall	Wood	Tan	Bsmt	Sapce B121	0.00	NEGATIVE	Fair to Good
88	Wall	Brick	White	Bsmt	Sapce B121	0.00	NEGATIVE	Fair to Good
89	Wall	Brick	Tan	Bsmt	Sapce B121	0.10	NEGATIVE	Fair to Good
N/A	Calibration					0.90		
N/A	Calibration					0.90		---
N/A	Calibration					1.10		

NEGATIVE	= Negative Lead Result
POSITIVE	= Positive Lead Result

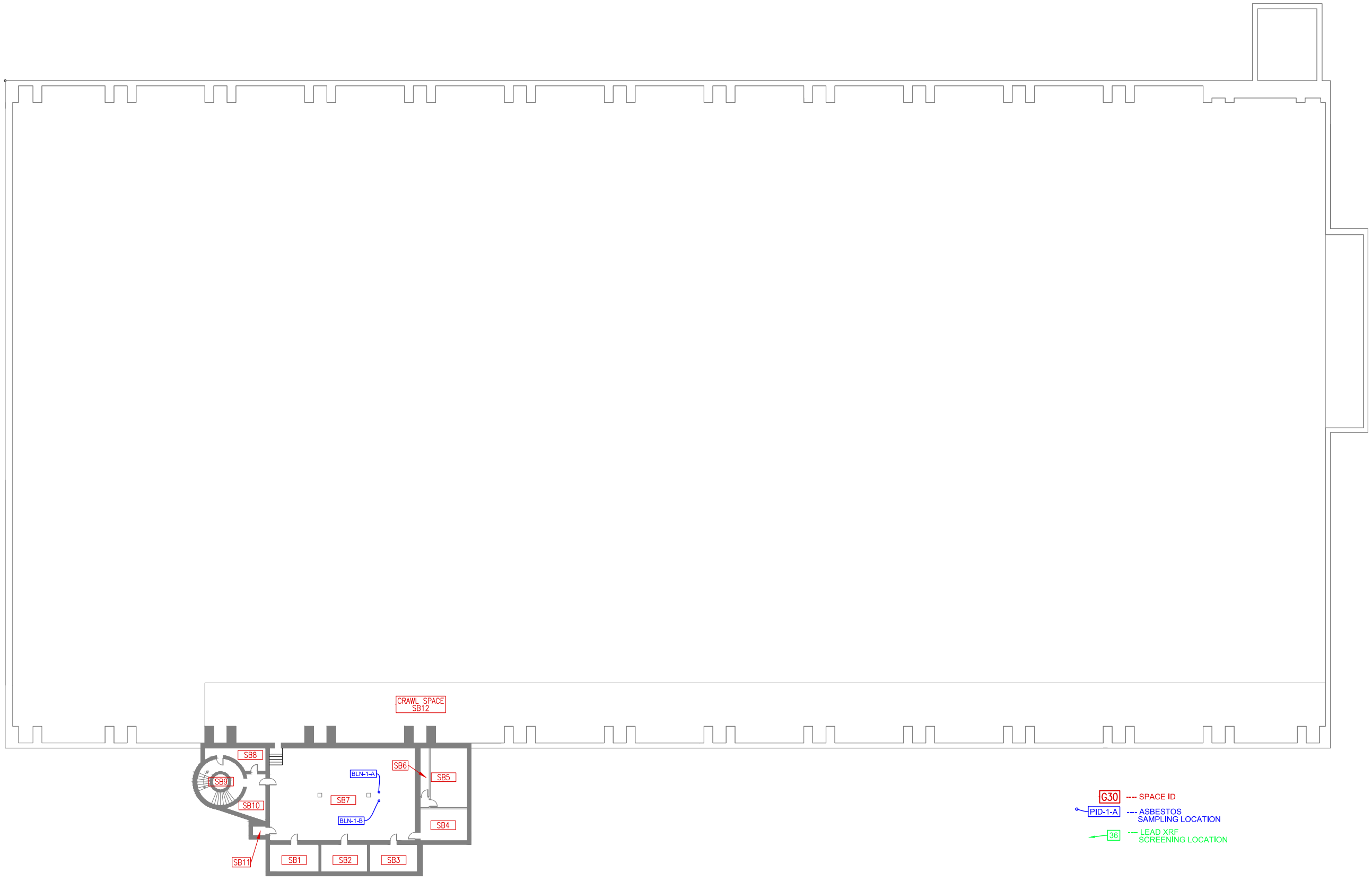
<LOD = Less than level of detection

Table 3 - UNIVERSAL/HAZARDOUS WASTE INVENTORY							
Article/Device	**Approximate Quantity [Units]**						
	Sub-Basement	**Basement**	**Basement Mezzanine**	**Ground Level**	**Ground Mezzanine**	**Second Floor**	**Third Floor**
UNIVERSAL WASTE GROUP							
Fluorescent lamps	50	1,000	1,400	250	50	350	2
Emergency lights with Batteries	--	7	30	10	--	--	--
Batteries	--	5	--	7	--	--	--
MCE Thermostats/Gauges	9	1	--	--	--	--	--
HID, MVC, HPS, MH lamps	--	6	--	13	--	--	--
Compact Fluorescent Lamp (CFL)	--	--	--	10	5	--	--
Mercury light ballasts	--	--	--	72	--	--	--
WASTE CONTAINING RADIOACTIVE MATERIALS* GROUP							
Smoke detectors	--	--	30	--	--	--	--
Exit signs	--	10	10	12	--	20	--
PCBs CONTAING WASTE* GROUP							
Fluorescent Light Ballasts	25	450	690	150	25	70	4
Electric motors with capacitors that may contain PCBs (associated with pumps, fans, shutter door openers, etc.)	12	11	--	7	--	--	--
Electronic equipment containing circuit boards with capacitors such as Computers and Peripherals, Telephones, TVs, etc.	--	--	--	30	10	--	--
Wall mounted electronic devices containing circuit boards with capacitors	--	20	20	--	--	--	--
WASTE CONTAINING CFCs and/or HCFCs* GROUP							
Refrigerator/Water Fountain	1	2	--	2	--	--	--
MIXED HAZARDOUS WASTE GROUP							
Fire extinguishers	1	5	10	--	--	1	2
Chemicals (Bottles/Cans)	--	--	--	--	5	--	10
Paint (5-Gallon Bucket) - Old unknown content	--	--	70	--	--	--	--

* - Due to live electricity and building's operations the ballasts associated with the light fixtures and other electrical devices are assumed to contain PCBs; EXIT signs and smoke detectors are assumed to contain radioactive materials; and heat transformer systems are assumed to contain CFCs and/or HCFCs.

MCE - Mercury-Containing Equipment; HID - High Intensity Discharge; MVC - Mercury Vapor Containing; HPS - High Pressure Sodium; MH - Metal Halide; CFCs - Chlorodifluoromethanes (R-12); HCFCs - Hydrofluorocarbons (R-22)

DRAWINGS



1 / ASL-1 SUB-BASEMENT
SCALE N.T.S

GENERAL NOTES:

A. THIS PLAN IS PROVIDED TO SHOW APPROXIMATE SAMPLING LOCATIONS. THE ACTUAL LAYOUT OF THE BUILDING AND BUILDING EQUIPMENT MAY BE SLIGHTLY DIFFERENT THAN SHOWN.

LANGAN
Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C.
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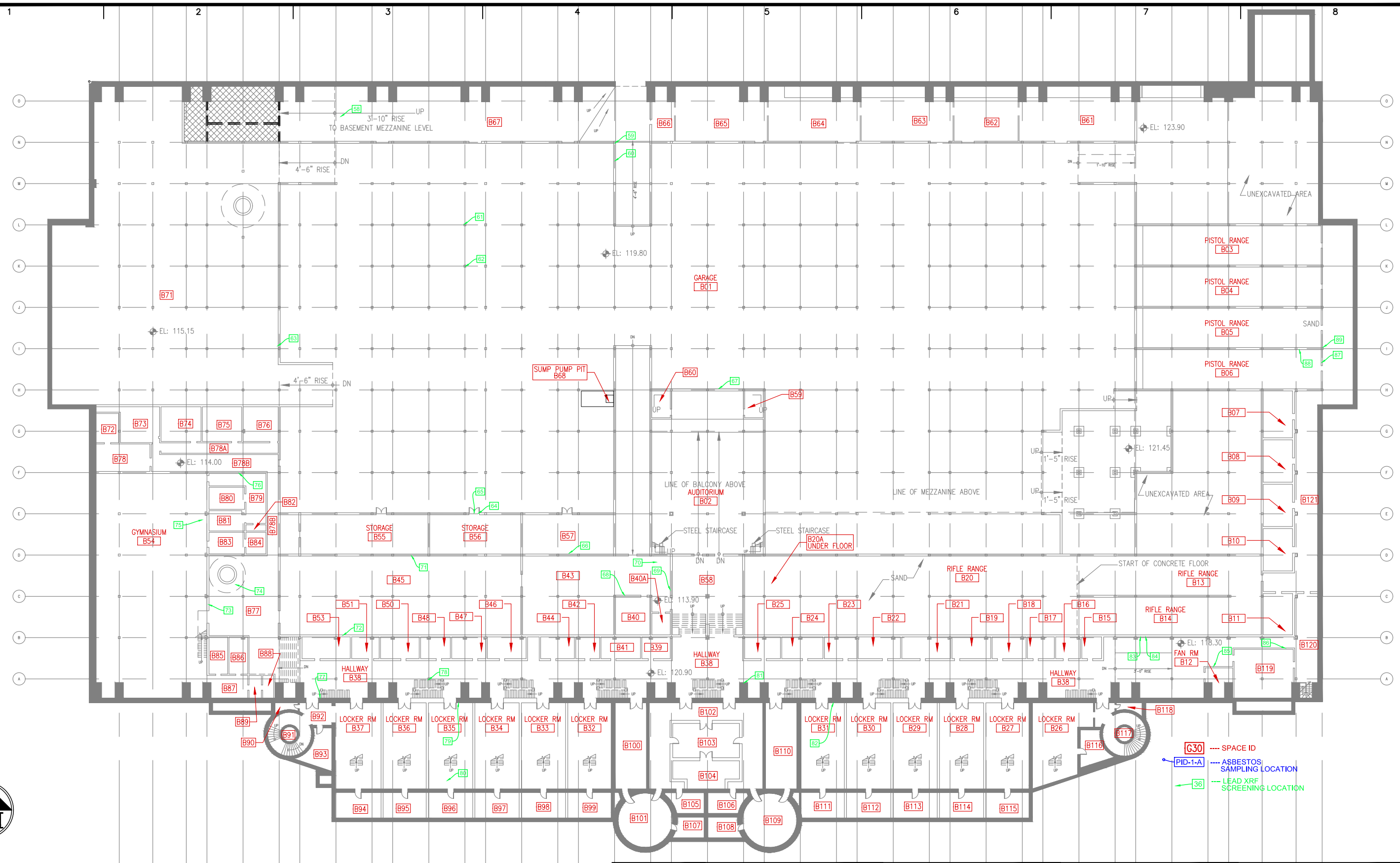
Project
Kingsbridge Armory
1 West Kingsbridge Rd
BRONX NEW YORK

Drawing Title
SPACE IDs
ASBESTOS SAMPLING
AND LEAD XRF
SCREENING LOCATIONS

Project No.	170321307
Date	2019-11-4
Drawn By	MB
Checked By	VP

Drawing No.
ASL-1
Sheet 1 of 7

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1
ASL-2

BASEMENT

SCALE N.T.S

GENERAL NOTES:

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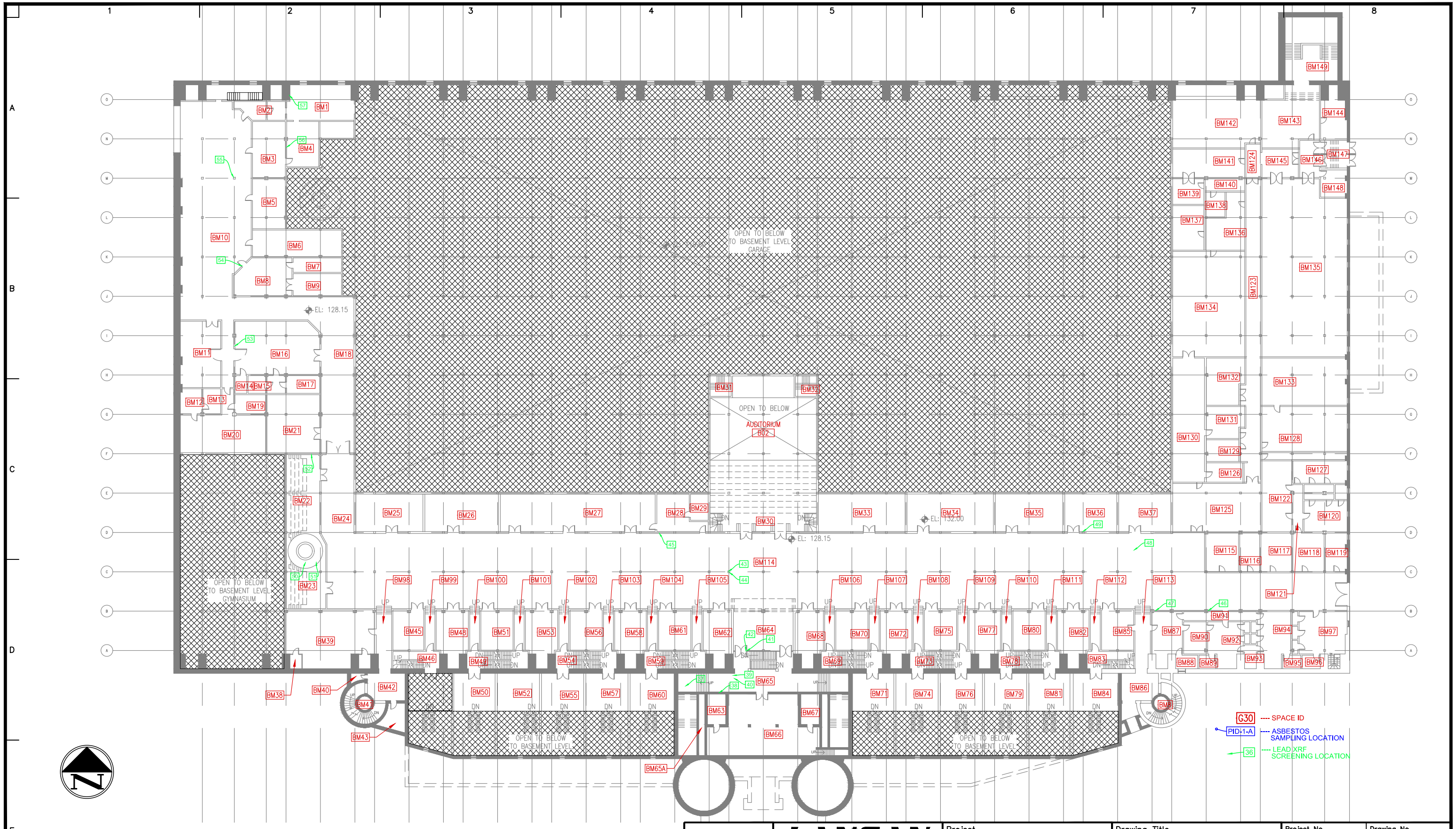
Project
Kingsbridge Armory
1 West Kingsbridge Rd
BRONX NEW YORK

Drawing Title
SPACE IDs
ASBESTOS SAMPLING
AND LEAD XRF
SCREENING LOCATIONS

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Date 2019-11-4
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ASL-2
Sheet 1 of 7

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1 ASL-3

BASEMENT MEZZANINE

SCALE N.T.S

GENERAL NOTES:

A. THIS PLAN IS PROVIDED TO SHOW APPROXIMATE SAMPLING LOCATIONS. THE ACTUAL LAYOUT OF THE BUILDING AND BUILDING EQUIPMENT MAY BE SLIGHTLY DIFFERENT THAN SHOWN.

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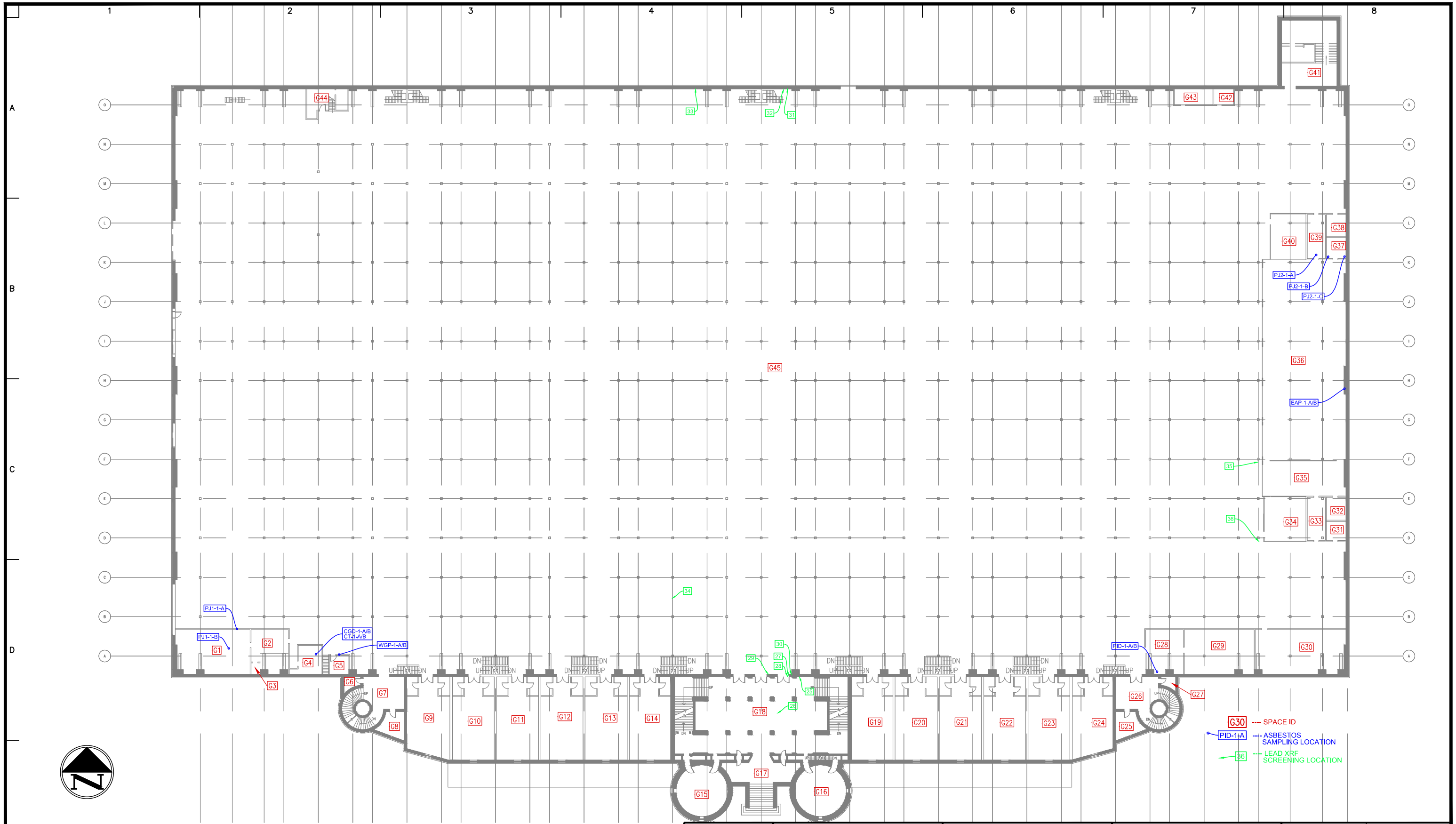
Project
Kingsbridge Armory
1 West Kingsbridge Rd
BRONX NEW YORK

Drawing Title
SPACE IDs
ASBESTOS SAMPLING
AND LEAD XRF
SCREENING LOCATIONS

Project No. 170321307
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Sheet 1 of 7

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1 ASL-4 GROUND LEVEL

SCALE N.T.S

GENERAL NOTES:

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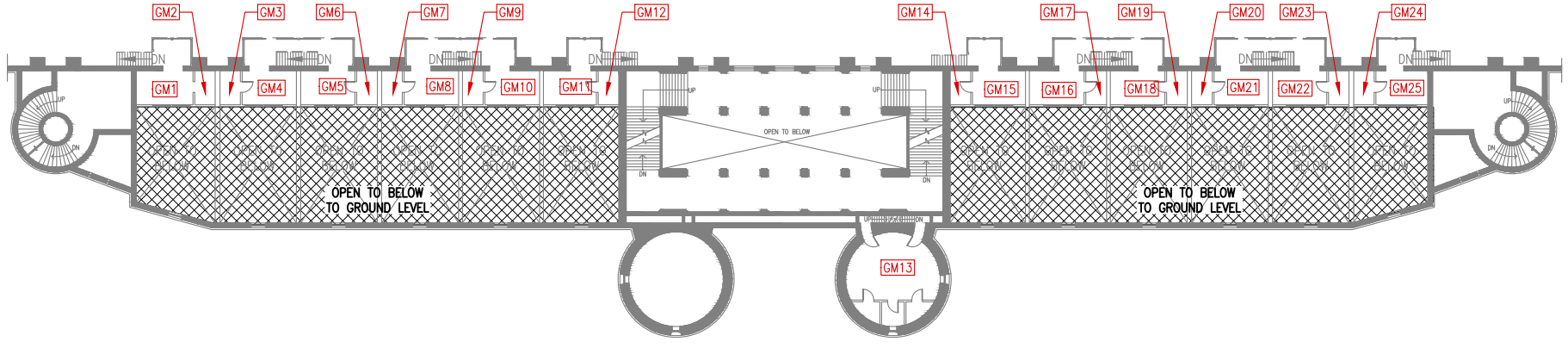
Drawing Title
SPACE IDs
ASBESTOS SAMPLING
AND LEAD XRF
SCREENING LOCATIONS

Project No.	170321307
Date	2019-11-4
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Drawing No.
ASL-4

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G30 ---- SPACE ID

PID-1-A ---- ASBESTOS SAMPLING LOCATION

36 ---- LEAD XRF SCREENING LOCATION

1 / ASL-5 GROUND MEZZANINE

SCALE N.T.S

GENERAL NOTES:

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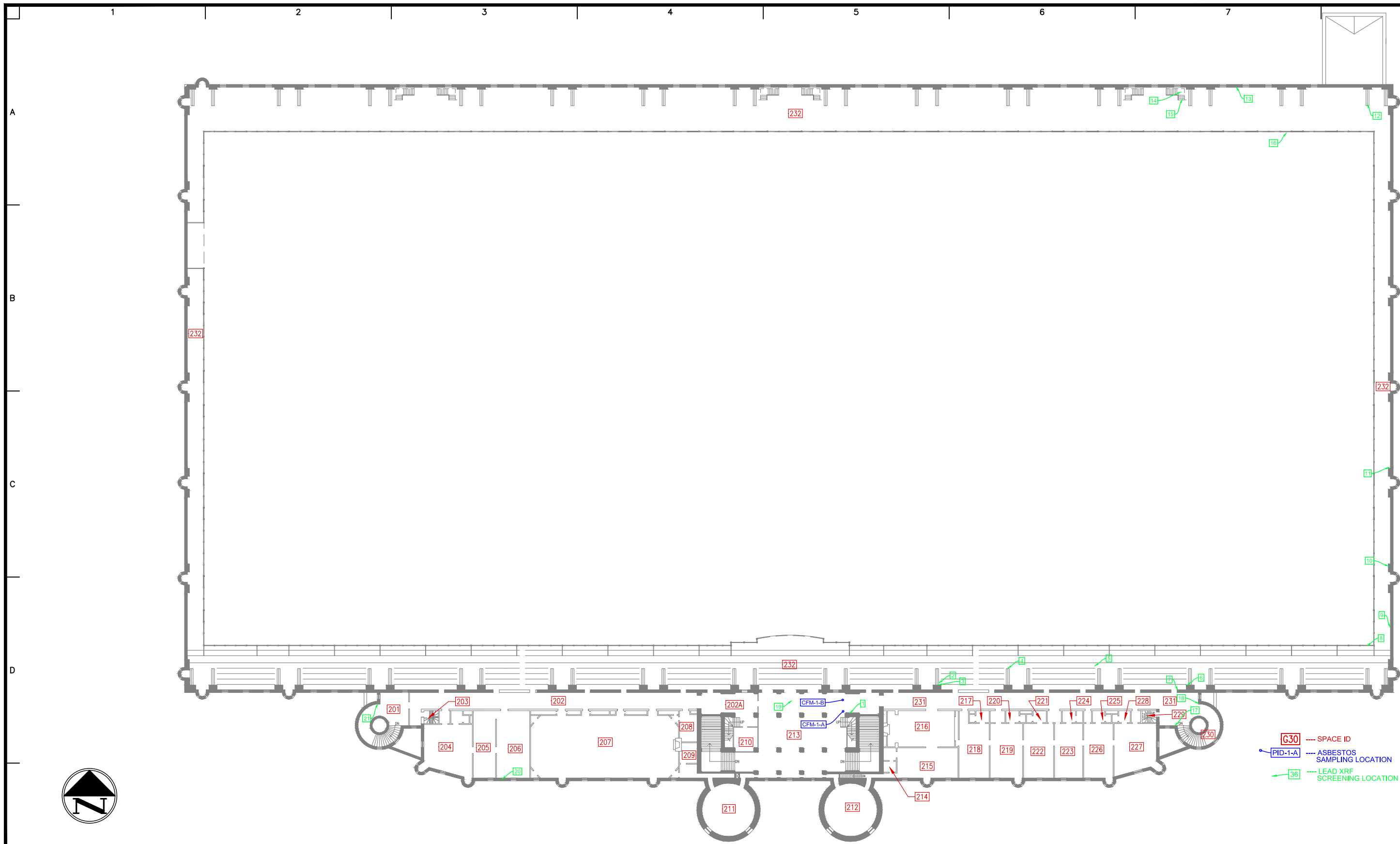
Drawing Title
SPACE IDs
ASBESTOS SAMPLING
AND LEAD XRF
SCREENING LOCATIONS

Project No.	170321307
Date	2019-11-4
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Drawing No.
ASL-5

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1 ASL-6 SECOND LEVEL

SCALE N.T.S

GENERAL NOTES:

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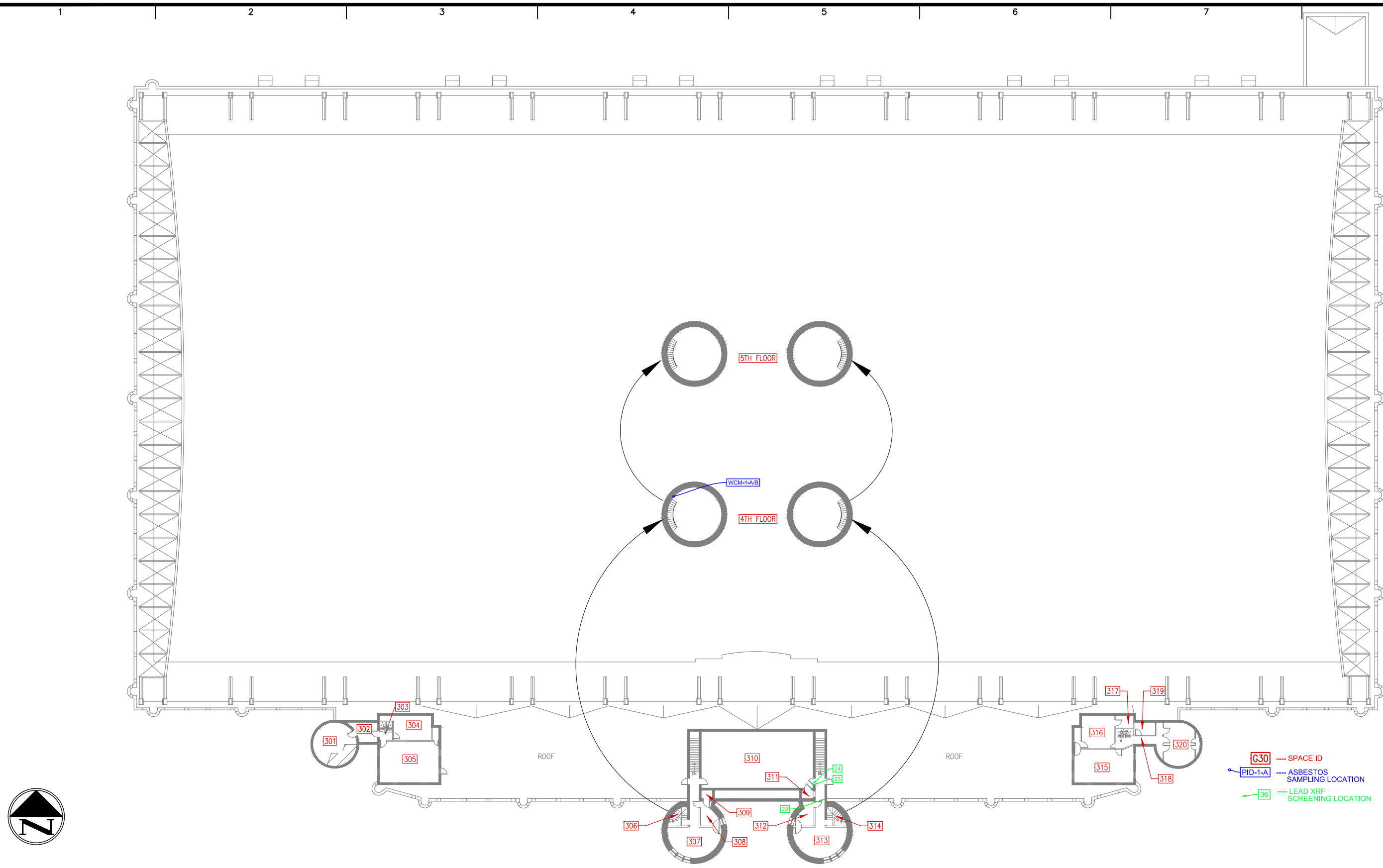
Project
Kingsbridge Armory
1 West Kingsbridge Rd
BRONX NEW YORK

Drawing Title
SPACE IDs
ASBESTOS SAMPLING
AND LEAD XRF
SCREENING LOCATIONS

Project No. 170321307
Date 2019-11-4
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1 / ASL-7 THIRD LEVEL (+ 4TH AND 5TH LEVELS)
SCALE N.T.S

GENERAL NOTES:

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Drawing Title
SPACE IDs
ASBESTOS SAMPLING
AND LEAD XRF
SCREENING LOCATIONS

Project No. 170321307
Date 2019-11-4
Drawn By MB
Checked By VP

Drawing No. ASL-7
Sheet 1 of 7

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A P P E N D I X A

Laboratory Test Results and Chain of Custody Documentation (Asbestos)

AmeriSci New York
117 EAST 30TH ST.
NEW YORK, NY 10016
TEL: (212) 679-8600 • FAX: (212) 679-3114

PLM Bulk Asbestos Report

Langan Engineering & Environmental S
Attn: Vijay Patel
300 Kimball Drive
4th Floor
Parsippany, NJ 07054

Date Received 10/29/19 **AmeriSci Job #** 219104286
Date Examined 10/30/19 **P.O. #**
ELAP # 11480 **Page** 1 **of** 9
RE: 170321307; Kingsbridge Armory; 29 Kingsbridge Road, Bronx, New York

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
WP-1	219104286-01.1	*No*	NAD [1]
WP-1	**Location:** Ground Level East - Wall Plaster (Skim Coat)		(by NYS ELAP 198.1) by Kensen Caro on 10/30/19
Analyst Description: White, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
WP-1	219104286-01.2	*No*	NAD
WP-1	**Location:** Ground Level East - Wall Plaster (Base Coat)		(by NYS ELAP 198.1) by Kensen Caro on 10/30/19
Analyst Description: Grey, Homogeneous, Non-Fibrous, Cementitious, Bulk Material **Asbestos Types:** **Other Material:** Animal hair 2 %, Cellulose 1 %, Non-fibrous 97 %			
WP-2	219104286-02.1	*No*	NAD
WP-2	**Location:** Ground Level West - Wall Plaster (Skim Coat)		(by NYS ELAP 198.1) by Kensen Caro on 10/30/19
Analyst Description: White, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
WP-2	219104286-02.2	*No*	NAD
WP-2	**Location:** Ground Level West - Wall Plaster (Base Coat)		(by NYS ELAP 198.1) by Kensen Caro on 10/30/19
Analyst Description: Grey, Homogeneous, Non-Fibrous, Cementitious, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
WP-3	219104286-03.1	*No*	NAD
WP-3	**Location:** Ground Level Mezzanine West - Wall Plaster (Skim Coat)		(by NYS ELAP 198.1) by Kensen Caro on 10/30/19
Analyst Description: White, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 100 %			

See Reporting notes on last page

PLM Bulk Asbestos Report

170321307; Kingsbridge Armory; 29 Kingsbridge Road, Bronx, New York

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
WP-3	219104286-03.2	***No***	NAD
WP-3	**Location:** Ground Level Mezzanine West - Wall Plaster (Base Coat)		(by NYS ELAP 198.1) by Kensen Caro on 10/30/19
Analyst Description: Grey, Homogeneous, Non-Fibrous, Cementitious, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
WP-4	219104286-04.1	***No***	NAD
WP-4	**Location:** Ground Level Mezzanine East - Wall Plaster (Skim Coat)		(by NYS ELAP 198.1) by Kensen Caro on 10/30/19
Analyst Description: White, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
WP-4	219104286-04.2	***No***	NAD
WP-4	**Location:** Ground Level Mezzanine East - Wall Plaster (Base Coat)		(by NYS ELAP 198.1) by Kensen Caro on 10/30/19
Analyst Description: Grey, Homogeneous, Non-Fibrous, Cementitious, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
WP-5	219104286-05.1	***No***	NAD
WP-5	**Location:** Second Floor West - Wall Plaster (Skim Coat)		(by NYS ELAP 198.1) by Kensen Caro on 10/30/19
Analyst Description: White, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
WP-5	219104286-05.2	***No***	NAD
WP-5	**Location:** Second Floor West - Wall Plaster (Base Coat)		(by NYS ELAP 198.1) by Kensen Caro on 10/30/19
Analyst Description: Grey, Homogeneous, Non-Fibrous, Cementitious, Bulk Material **Asbestos Types:** **Other Material:** Animal hair Trace, Non-fibrous 100 %			
WP-6	219104286-06.1	***No***	NAD
WP-6	**Location:** Second Floor Hallway - Wall Plaster (Skim Coat)		(by NYS ELAP 198.1) by Kensen Caro on 10/30/19
Analyst Description: White, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 100 %			

See Reporting notes on last page

PLM Bulk Asbestos Report

170321307; Kingsbridge Armory; 29 Kingsbridge Road, Bronx, New York

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
WP-6	219104286-06.2	***No***	NAD
WP-6	**Location:** Second Floor Hallway - Wall Plaster (Base Coat)		(by NYS ELAP 198.1) by Kensen Caro on 10/30/19
Analyst Description: Grey, Homogeneous, Non-Fibrous, Cementitious, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
WP-7	219104286-07.1	***No***	NAD
WP-7	**Location:** Third Floor - Wall Plaster (Skim Coat)		(by NYS ELAP 198.1) by Kensen Caro on 10/30/19
Analyst Description: White, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
WP-7	219104286-07.2	***No***	NAD
WP-7	**Location:** Third Floor - Wall Plaster (Base Coat)		(by NYS ELAP 198.1) by Kensen Caro on 10/30/19
Analyst Description: Grey, Homogeneous, Non-Fibrous, Cementitious, Bulk Material **Asbestos Types:** **Other Material:** Animal hair 1 %, Cellulose Trace, Non-fibrous 99 %			
CP-1	219104286-08.1	***No***	NAD
CP-1	**Location:** Ground Level West - Ceiling Plaster (Skim Coat)		(by NYS ELAP 198.1) by Kensen Caro on 10/30/19
Analyst Description: White, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
CP-1	219104286-08.2	***No***	NAD
CP-1	**Location:** Ground Level West - Ceiling Plaster (Base Coat)		(by NYS ELAP 198.1) by Kensen Caro on 10/30/19
Analyst Description: Grey, Homogeneous, Fibrous, Cementitious, Bulk Material **Asbestos Types:** **Other Material:** Animal hair 2 %, Non-fibrous 98 %			
CP-2	219104286-09.1	***No***	NAD
CP-2	**Location:** Ground Level East - Ceiling Plaster (Skim Coat)		(by NYS ELAP 198.1) by Kensen Caro on 10/30/19
Analyst Description: White, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 100 %			

See Reporting notes on last page

PLM Bulk Asbestos Report

170321307; Kingsbridge Armory; 29 Kingsbridge Road, Bronx, New York

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
CP-2	219104286-09.2	***No***	NAD
CP-2	**Location:** Ground Level East - Ceiling Plaster (Base Coat)		(by NYS ELAP 198.1) by Kensen Caro on 10/30/19
Analyst Description: Grey, Homogeneous, Non-Fibrous, Cementitious, Bulk Material **Asbestos Types:** **Other Material:** Animal hair 1 %, Non-fibrous 99 %			
CP-3	219104286-10.1	***No***	NAD
CP-3	**Location:** Ground Level Mezzanine East - Ceiling Plaster (Skim Coat)		(by NYS ELAP 198.1) by Kensen Caro on 10/30/19
Analyst Description: White, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
CP-3	219104286-10.2	***No***	NAD
CP-3	**Location:** Ground Level Mezzanine East - Ceiling Plaster (Base Coat)		(by NYS ELAP 198.1) by Kensen Caro on 10/30/19
Analyst Description: Grey, Homogeneous, Non-Fibrous, Cementitious, Bulk Material **Asbestos Types:** **Other Material:** Animal hair Trace, Non-fibrous 100 %			
CP-4	219104286-11.1	***No***	NAD
CP-4	**Location:** Ground Level Mezzanine West - Ceiling Plaster (Skim Coat)		(by NYS ELAP 198.1) by Kensen Caro on 10/30/19
Analyst Description: White, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
CP-4	219104286-11.2	***No***	NAD
CP-4	**Location:** Ground Level Mezzanine West - Ceiling Plaster (Base Coat)		(by NYS ELAP 198.1) by Kensen Caro on 10/30/19
Analyst Description: Grey, Homogeneous, Non-Fibrous, Cementitious, Bulk Material **Asbestos Types:** **Other Material:** Animal hair 1 %, Cellulose Trace, Non-fibrous 99 %			
CP-5	219104286-12.1	***No***	NAD
CP-5	**Location:** Second Floor West - Ceiling Plaster (Skim Coat)		(by NYS ELAP 198.1) by Kensen Caro on 10/30/19
Analyst Description: White, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 100 %			

See Reporting notes on last page

PLM Bulk Asbestos Report

170321307; Kingsbridge Armory; 29 Kingsbridge Road, Bronx, New York

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
CP-5	219104286-12.2	***No***	NAD
CP-5	**Location:** Second Floor West - Ceiling Plaster (Base Coat)		(by NYS ELAP 198.1) by Kensen Caro on 10/30/19
Analyst Description: Grey, Homogeneous, Fibrous, Cementitious, Bulk Material **Asbestos Types:** **Other Material:** Animal hair 5 %, Non-fibrous 95 %			
CP-6	219104286-13.1	***No***	NAD
CP-6	**Location:** Second Floor East - Ceiling Plaster (Skim Coat)		(by NYS ELAP 198.1) by Kensen Caro on 10/30/19
Analyst Description: White, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
CP-6	219104286-13.2	***No***	NAD
CP-6	**Location:** Second Floor East - Ceiling Plaster (Base Coat)		(by NYS ELAP 198.1) by Kensen Caro on 10/30/19
Analyst Description: Grey, Homogeneous, Non-Fibrous, Cementitious, Bulk Material **Asbestos Types:** **Other Material:** Animal hair 2 %, Cellulose 1 %, Non-fibrous 97 %			
CP-7	219104286-14.1	***No***	NAD
CP-7	**Location:** Third Floor - Ceiling Plaster (Skim Coat)		(by NYS ELAP 198.1) by Kensen Caro on 10/30/19
Analyst Description: White, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
CP-7	219104286-14.2	***No***	NAD
CP-7	**Location:** Third Floor - Ceiling Plaster (Base Coat)		(by NYS ELAP 198.1) by Kensen Caro on 10/30/19
Analyst Description: Grey, Homogeneous, Fibrous, Cementitious, Bulk Material **Asbestos Types:** **Other Material:** Animal hair 4 %, Cellulose 1 %, Non-fibrous 95 %			
PID-1-A	219104286-15	***Yes***	0.5 % [2]
PID-1	**Location:** Ground Level East Restrooms - Pipe Insulation Debris in Chase		(EPA 400 PC) by Kensen Caro on 10/30/19
Analyst Description: Brown, Heterogeneous, Fibrous, Bulk Material **Asbestos Types:** Chrysotile 0.5 % **Other Material:** Cellulose 95 %, Non-fibrous 4.5 %			

See Reporting notes on last page

PLM Bulk Asbestos Report

170321307; Kingsbridge Armory; 29 Kingsbridge Road, Bronx, New York

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
PID-1-B	219104286-16	***Yes***	1.5 %[2]
PID-1	**Location:** Ground Level East Restrooms - Pipe Insulation Debris in Chase		(EPA 400 PC) by Kensen Caro on 10/30/19
Analyst Description: Brown, Heterogeneous, Fibrous, Bulk Material **Asbestos Types:** Chrysotile 1.5 % **Other Material:** Cellulose 95 %, Non-fibrous 3.5 %			
BLN-1-A	219104286-17	***No***	NAD
BLN-1	**Location:** Sub-Basement - Boiler Room - Boiler Lining (Small Square Boilers)		(by NYS ELAP 198.1) by Kensen Caro on 10/30/19
Analyst Description: White, Homogeneous, Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Fibrous glass 70 %, Non-fibrous 30 %			
BLN-1-B	219104286-18	***No***	NAD
BLN-1	**Location:** Sub-Basement - Boiler Room - Boiler Lining (Small Square Boilers)		(by NYS ELAP 198.1) by Kensen Caro on 10/30/19
Analyst Description: White, Homogeneous, Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Fibrous glass 70 %, Non-fibrous 30 %			
CGD-1-A	219104286-19	***No***	NAD
CGD-1	**Location:** Ground Level Storage Next To West Restrooms - Glue Daubs To Ceiling Tiles		(by NYS ELAP 198.6) by Kensen Caro on 10/30/19
Analyst Description: Dark Brown, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 46.8 %			
CGD-1-B	219104286-20	***No***	NAD
CGD-1	**Location:** Ground Level Storage Next To West Restrooms - Glue Daubs To Ceiling Tiles		(by NYS ELAP 198.6) by Kensen Caro on 10/30/19
Analyst Description: Dark Brown, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 43.7 %			
CT-1-A	219104286-21	***No***	NAD
CT-1	**Location:** Ground Level Storage Next To West Restrooms - 12-Inch Ceiling Tile		(by NYS ELAP 198.6) by Kensen Caro on 10/30/19
Analyst Description: Grey, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 27 %			

See Reporting notes on last page

PLM Bulk Asbestos Report

170321307; Kingsbridge Armory; 29 Kingsbridge Road, Bronx, New York

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
CT-1-B	219104286-22	***No***	NAD
CT-1	**Location:** Ground Level Storage Next To West Restrooms - 12-Inch Ceiling Tile		(by NYS ELAP 198.6) by Kensen Caro on 10/30/19
Analyst Description: Grey, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 28 %			
EAP-1-A	219104286-23	***No***	NAD
EAP-1	**Location:** Ground Level - Electric Arc Protecting Shield		(by NYS ELAP 198.6) by Kensen Caro on 10/30/19
Analyst Description: OffWhite, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 1.1 % **Comment:** (NOB) Material			
EAP-1-B	219104286-24	***No***	NAD
EAP-1	**Location:** Ground Level - Electric Arc Protecting Shield		(by NYS ELAP 198.6) by Kensen Caro on 10/30/19
Analyst Description: OffWhite, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 0.9 % **Comment:** (NOB) Material			
PJ2-1-A	219104286-25	***No***	NAD
PJ2-1	**Location:** Ground Level East Storages - Mud-Packed Pipe Joint Insulation To Fiberglass		(by NYS ELAP 198.1) by Kensen Caro on 10/30/19
Analyst Description: Grey, Homogeneous, Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Cellulose 30 %, Fibrous glass 5 %, Non-fibrous 65 %			
PJ2-1-B	219104286-26	***No***	NAD
PJ2-1	**Location:** Ground Level East Storages - Mud-Packed Pipe Joint Insulation To Fiberglass		(by NYS ELAP 198.1) by Kensen Caro on 10/30/19
Analyst Description: Grey, Homogeneous, Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Cellulose 20 %, Fibrous glass 5 %, Non-fibrous 75 %			

See Reporting notes on last page

PLM Bulk Asbestos Report

170321307; Kingsbridge Armory; 29 Kingsbridge Road, Bronx, New York

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
PJ2-1-C PJ2-1	219104286-27 **Location:** Ground Level East Storages - Mud-Packed Pipe Joint Insulation To Fiberglass	***No***	NAD (by NYS ELAP 198.1) by Kensen Caro on 10/30/19
Analyst Description: Grey, Homogeneous, Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Cellulose 10 %, Fibrous glass 5 %, Non-fibrous 85 %			
PJ1-1-A PJ1-1	219104286-28 **Location:** Ground Level West Restrooms Chase - Mud-Packed Pipe Joint Insulation To Fiberglass	***No***	NAD (by NYS ELAP 198.1) by Kensen Caro on 10/30/19
Analyst Description: Grey, Homogeneous, Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Fibrous glass 15 %, Non-fibrous 85 %			
PJ1-1-B PJ1-1	219104286-29 **Location:** Ground Level West Restrooms Chase - Mud-Packed Pipe Joint Insulation To Fiberglass	***No***	NAD (by NYS ELAP 198.1) by Kensen Caro on 10/30/19
Analyst Description: Grey, Homogeneous, Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Fibrous glass 15 %, Non-fibrous 85 %			
CFM-1-A CFM-1	219104286-30 **Location:** Second Floor Center - Red Cementitious Floor Material	***No***	NAD (by NYS ELAP 198.1) by Kensen Caro on 10/30/19
Analyst Description: Red, Homogeneous, Non-Fibrous, Cementitious, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
CFM-1-B CFM-1	219104286-31 **Location:** Second Floor Center - Red Cementitious Floor Material	***No***	NAD (by NYS ELAP 198.1) by Kensen Caro on 10/30/19
Analyst Description: Red, Homogeneous, Non-Fibrous, Cementitious, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
WCM-1-A WCM-1	219104286-32 **Location:** Fourth Level - Tower - Black Coating On Brick Wall	***No***	NAD (by NYS ELAP 198.6) by Kensen Caro on 10/30/19
Analyst Description: Black, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 58.7 %			

See Reporting notes on last page

PLM Bulk Asbestos Report

170321307; Kingsbridge Armory; 29 Kingsbridge Road, Bronx, New York

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
WCM-1-B WCM-1	219104286-33 **Location:** Fourth Level - Tower - Black Coating On Brick Wall	***No***	NAD (by NYS ELAP 198.6) by Kensen Caro on 10/30/19
Analyst Description: Black, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 61.7 %			
WGP-1-A WGP-1	219104286-34 **Location:** Ground Level Storage Next To West Restrooms - Window Glazing Putty	***No***	NAD (by NYS ELAP 198.6) by Kensen Caro on 10/30/19
Analyst Description: Beige, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 8.6 %			
WGP-1-B WGP-1	219104286-35 **Location:** Ground Level Storage Next To West Restrooms - Window Glazing Putty	***No***	NAD (by NYS ELAP 198.6) by Kensen Caro on 10/30/19
Analyst Description: Beige, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 3.4 %			

Reporting Notes:

(1) This job was - Analyzed using Motic BA310 Pol Scope S/N 1190000538

(2) Analysis Results For Soil, Dust, Or Debris May Be Highly Variable Because Of The Heterogeneous Nature Of These Samples

Analyzed by: Kensen Caro _____

*NAD/NSD =no asbestos detected; NA =not analyzed; NA/PS=not analyzed/positive stop, (SOF-V) = Sprayed On Fireproofing containing Vermiculite; (SM-V) = Surfacing Material containing Vermiculite; PLM Bulk Asbestos Analysis by Appd E to Subpt E, 40 CFR 763 (NVLAP 200546-0), ELAP PLM Method 198.1 for NY friable samples, which includes the identification and quantitation of vermiculite or 198.6 for NOB samples or EPA 400 pt ct by Appd E to Subpt E, 40 CFR 763 (NY ELAP Lab 11480); Note:PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. NAD or Trace results by PLM are inconclusive, TEM is currently the only method that can be used to determine if this material can be considered or treated as non asbestos-containing in NY State (also see EPA Advisory for floor tile, FR 59,146,38970,8/1/94) National Institute of Standards and Technology Accreditation requirements mandate that this report must not be reproduced except in full without the approval of the lab.This PLM report relates ONLY to the items tested. AIHA-LAP, LLC Lab ID 102843, RI Cert AAL-094, CT Cert PH-0186, Mass Cert AA000054.

Reviewed By:_____ _____END OF REPORT_____

Client Name: Langan Engineering & Environmental Services

Table I
Summary of Bulk Asbestos Analysis Results

170321307; Kingsbridge Armory; 29 Kingsbridge Road, Bronx, New York

AmeriSci Sample #	Client Sample#	HG Area	Sample Weight (gram)	Heat Sensitive Organic %	Acid Soluble Inorganic %	Insoluble Non-Asbestos Inorganic %	** Asbestos % by PLM/DS	** Asbestos % by TEM
01.1	WP-1	WP-1	----	----	----	----	NAD	NA
Location:	Ground Level East - Wall Plaster (Skim Coat)							
01.2	WP-1	WP-1	----	----	----	----	NAD	NA
Location:	Ground Level East - Wall Plaster (Base Coat)							
02.1	WP-2	WP-2	----	----	----	----	NAD	NA
Location:	Ground Level West - Wall Plaster (Skim Coat)							
02.2	WP-2	WP-2	----	----	----	----	NAD	NA
Location:	Ground Level West - Wall Plaster (Base Coat)							
03.1	WP-3	WP-3	----	----	----	----	NAD	NA
Location:	Ground Level Mezzanine West - Wall Plaster (Skim Coat)							
03.2	WP-3	WP-3	----	----	----	----	NAD	NA
Location:	Ground Level Mezzanine West - Wall Plaster (Base Coat)							
04.1	WP-4	WP-4	----	----	----	----	NAD	NA
Location:	Ground Level Mezzanine East - Wall Plaster (Skim Coat)							
04.2	WP-4	WP-4	----	----	----	----	NAD	NA
Location:	Ground Level Mezzanine East - Wall Plaster (Base Coat)							
05.1	WP-5	WP-5	----	----	----	----	NAD	NA
Location:	Second Floor West - Wall Plaster (Skim Coat)							
05.2	WP-5	WP-5	----	----	----	----	NAD	NA
Location:	Second Floor West - Wall Plaster (Base Coat)							
06.1	WP-6	WP-6	----	----	----	----	NAD	NA
Location:	Second Floor Hallway - Wall Plaster (Skim Coat)							
06.2	WP-6	WP-6	----	----	----	----	NAD	NA
Location:	Second Floor Hallway - Wall Plaster (Base Coat)							
07.1	WP-7	WP-7	----	----	----	----	NAD	NA
Location:	Third Floor - Wall Plaster (Skim Coat)							
07.2	WP-7	WP-7	----	----	----	----	NAD	NA
Location:	Third Floor - Wall Plaster (Base Coat)							
08.1	CP-1	CP-1	----	----	----	----	NAD	NA
Location:	Ground Level West - Ceiling Plaster (Skim Coat)							
08.2	CP-1	CP-1	----	----	----	----	NAD	NA
Location:	Ground Level West - Ceiling Plaster (Base Coat)							

See Reporting notes on last page

Table I
Summary of Bulk Asbestos Analysis Results
170321307; Kingsbridge Armory; 29 Kingsbridge Road, Bronx, New York

AmeriSci Sample #	Client Sample#	HG Area	Sample Weight (gram)	Heat Sensitive Organic %	Acid Soluble Inorganic %	Insoluble Non-Asbestos Inorganic %	** Asbestos % by PLM/DS	** Asbestos % by TEM
09.1	CP-2	CP-2	----	----	----	----	NAD	NA
Location:	Ground Level East - Ceiling Plaster (Skim Coat)							
09.2	CP-2	CP-2	----	----	----	----	NAD	NA
Location:	Ground Level East - Ceiling Plaster (Base Coat)							
10.1	CP-3	CP-3	----	----	----	----	NAD	NA
Location:	Ground Level Mezzanine East - Ceiling Plaster (Skim Coat)							
10.2	CP-3	CP-3	----	----	----	----	NAD	NA
Location:	Ground Level Mezzanine East - Ceiling Plaster (Base Coat)							
11.1	CP-4	CP-4	----	----	----	----	NAD	NA
Location:	Ground Level Mezzanine West - Ceiling Plaster (Skim Coat)							
11.2	CP-4	CP-4	----	----	----	----	NAD	NA
Location:	Ground Level Mezzanine West - Ceiling Plaster (Base Coat)							
12.1	CP-5	CP-5	----	----	----	----	NAD	NA
Location:	Second Floor West - Ceiling Plaster (Skim Coat)							
12.2	CP-5	CP-5	----	----	----	----	NAD	NA
Location:	Second Floor West - Ceiling Plaster (Base Coat)							
13.1	CP-6	CP-6	----	----	----	----	NAD	NA
Location:	Second Floor East - Ceiling Plaster (Skim Coat)							
13.2	CP-6	CP-6	----	----	----	----	NAD	NA
Location:	Second Floor East - Ceiling Plaster (Base Coat)							
14.1	CP-7	CP-7	----	----	----	----	NAD	NA
Location:	Third Floor - Ceiling Plaster (Skim Coat)							
14.2	CP-7	CP-7	----	----	----	----	NAD	NA
Location:	Third Floor - Ceiling Plaster (Base Coat)							
15	PID-1-A	PID-1	----	----	----	----	Chrysotile 0.5	NA
Location:	Ground Level East Restrooms - Pipe Insulation Debris in Chase							
16	PID-1-B	PID-1	----	----	----	----	Chrysotile 1.5	NA
Location:	Ground Level East Restrooms - Pipe Insulation Debris in Chase							
17	BLN-1-A	BLN-1	----	----	----	----	NAD	NA
Location:	Sub-Basement - Boiler Room - Boiler Lining (Small Square Boilers)							
18	BLN-1-B	BLN-1	----	----	----	----	NAD	NA
Location:	Sub-Basement - Boiler Room - Boiler Lining (Small Square Boilers)							

See Reporting notes on last page

Table I

Summary of Bulk Asbestos Analysis Results

170321307; Kingsbridge Armory; 29 Kingsbridge Road, Bronx, New York

AmeriSci Sample #	Client Sample#	HG Area	Sample Weight (gram)	Heat Sensitive Organic %	Acid Soluble Inorganic %	Insoluble Non-Asbestos Inorganic %	** Asbestos % by PLM/DS	** Asbestos % by TEM
19	CGD-1-A	CGD-1	0.188	46.8	6.4	46.8	NAD	NAD
Location:	Ground Level Storage Next To West Restrooms - Glue Daubs To Ceiling Tiles							
20	CGD-1-B	CGD-1	0.199	48.2	8.0	43.7	NAD	NAD
Location:	Ground Level Storage Next To West Restrooms - Glue Daubs To Ceiling Tiles							
21	CT-1-A	CT-1	0.270	13.3	59.6	27.0	NAD	NAD
Location:	Ground Level Storage Next To West Restrooms - 12-Inch Ceiling Tile							
22	CT-1-B	CT-1	0.239	11.7	60.3	28.0	NAD	NAD
Location:	Ground Level Storage Next To West Restrooms - 12-Inch Ceiling Tile							
23	EAP-1-A	EAP-1	0.089	97.8	1.1	1.1	NAD	NAD
Location:	Ground Level - Electric Arc Protecting Shield							
24	EAP-1-B	EAP-1	0.114	98.2	0.9	0.9	NAD	NAD
Location:	Ground Level - Electric Arc Protecting Shield							
25	PJ2-1-A	PJ2-1	----	----	----	----	NAD	NA
Location:	Ground Level East Storages - Mud-Packed Pipe Joint Insulation To Fiberglass							
26	PJ2-1-B	PJ2-1	----	----	----	----	NAD	NA
Location:	Ground Level East Storages - Mud-Packed Pipe Joint Insulation To Fiberglass							
27	PJ2-1-C	PJ2-1	----	----	----	----	NAD	NA
Location:	Ground Level East Storages - Mud-Packed Pipe Joint Insulation To Fiberglass							
28	PJ1-1-A	PJ1-1	----	----	----	----	NAD	NA
Location:	Ground Level West Restrooms Chase - Mud-Packed Pipe Joint Insulation To Fiberglass							
29	PJ1-1-B	PJ1-1	----	----	----	----	NAD	NA
Location:	Ground Level West Restrooms Chase - Mud-Packed Pipe Joint Insulation To Fiberglass							
30	CFM-1-A	CFM-1	----	----	----	----	NAD	NA
Location:	Second Floor Center - Red Cementitious Floor Material							
31	CFM-1-B	CFM-1	----	----	----	----	NAD	NA
Location:	Second Floor Center - Red Cementitious Floor Material							
32	WCM-1-A	WCM-1	0.225	16.4	24.9	58.7	NAD	NAD
Location:	Fourth Level - Tower - Black Coating On Brick Wall							
33	WCM-1-B	WCM-1	0.214	12.1	26.2	61.7	NAD	NAD
Location:	Fourth Level - Tower - Black Coating On Brick Wall							
34	WGP-1-A	WGP-1	0.221	15.8	75.6	8.6	NAD	NAD
Location:	Ground Level Storage Next To West Restrooms - Window Glazing Putty							

See Reporting notes on last page

Client Name: Langan Engineering & Environmental Services

Table I
Summary of Bulk Asbestos Analysis Results

170321307; Kingsbridge Armory; 29 Kingsbridge Road, Bronx, New York

AmeriSci Sample #	Client Sample#	HG Area	Sample Weight (gram)	Heat Sensitive Organic %	Acid Soluble Inorganic %	Insoluble Non-Asbestos Inorganic %	** Asbestos % by PLM/DS	** Asbestos % by TEM
35	WGP-1-B	WGP-1	0.206	12.1	84.5	3.4	NAD	NAD

Location: Ground Level Storage Next To West Restrooms - Window Glazing Putty

Analyzed by: Khaalid W. Perine_____; Date Analyzed 10/30/2019

**Quantitative Analysis (Semi/Full); Bulk Asbestos Analysis - PLM by Appd E to Subpt E, 40 CFR 763 or ELAP 198.1 for New York friable samples or ELAP 198.6 for New York NOB samples; TEM (Semi/Full) by EPA 600/R-93/116 (or ELAP 198.4; for New York samples; NAD = no asbestos detected during a quantitative analysis; NA = not analyzed; Trace = <1%; (SOF-V) = Sprayed On Fireproofing containing Vermiculite; (SM-V) = Surfacing Material containing Vermiculite; Quantitation for beginning weights of <0.1 grams should be considered as qualitative only; Qualitative Analysis: Asbestos analysis results of "Present" or "NVA = No Visible Asbestos" represents results for Qualitative PLM or TEM Analysis only (no accreditation coverage available from any regulatory agency for qualitative analyses): NVLAP (PLM) 200546-0, NYSDOH ELAP Lab 11480, AIHA-LAP, LLC (PLM) Lab ID 102843.

Warning Note: PLM limitation, only TEM will resolve fibers <0.25 micrometers in diameter. TEM bulk analysis is representative of the fine grained matrix material and may not be representative of non-uniformly dispersed debris for which PLM evaluation is recommended (i.e. soils and other heterogenous materials).

Reviewed By:_____

LANGAN
300 Kimball Drive
Parsippany, NJ 07054
Phone: 973-560-4900
Fax: 973-560-4901

CHAIN OF CUSTODY RECORD / ANALYSIS REQUEST

Project Name:	KINGSBRIDGE ARMORY		
Address:	29 KINGSBRIDGE ROAD BRONX, NEW YORK	Auth. By: Phone No:	Vijay Patel 973.560.4983
Langan Job No.:	170321307	Sampling Date:	10/25/2019
Sampled By/License #:	MIROSLAW BARAN / NYC114570/NYS03-03533 SANJAY PATEL / NYC115945/NYS98-10216		

Sample #	Sample ID	Description of Sample	Sample Location	Analysis Requested for Asbestos: PLM	PLM-NOB	TEM	Analysis Requested for Lead: AAS	TCLP	Analysis Requested for PCB: EPA Method 8082	Results
1	**WP-1**	Wall Plaster (2 layers)	Ground Level East	X						
2	**WP-2**	Wall Plaster (2 layers)	Ground Level West	X						
3	**WP-3**	Wall Plaster (2 layers)	Ground Level Mezzanine West	X						
4	**WP-4**	Wall Plaster (2 layers)	Ground Level Mezzanine East	X						
5	**WP-5**	Wall Plaster (2 layers)	Second Floor West	X						
6	**WP-6**	Wall Plaster (2 layers)	Second Floor Hallway	X						
7	**WP-7**	Wall Plaster (2 layers)	Third Floor	X						
8	**CP-1**	Ceiling Plaster (2 layers)	Ground Level West	X						
9	**CP-2**	Ceiling Plaster (2 layers)	Ground Level East	X						
10	**CP-3**	Ceiling Plaster (2 layers)	Ground Level Mezzanine East	X						

Total No. of Samples: #2191042866 10

Turnaround Request:	RUSH	12 hours	24 hours	48 hours	72 hours	5 days
			X			

Laboratory Instructions: Stop analysis @ 1st positive (>1% by weight) for each homogenous sample group. Please e-mail results to mbaran@langan.com and vpatel@langan.com.

Please analyze all plaster samples. Do not stop analysis @ 1st positive (>1% by weight).

Relinquished By	Company	Date	Time	Received by	Company	Date	Time
MIROSLAW BARAN	LANGAN	10/28/2019			AmeriSci	10/29/19	11:22

Laboratory Name

LANGAN
300 Kimball Drive
Parsippany, NJ 07054
Phone: 973-560-4900
Fax: 973-560-4901

CHAIN OF CUSTODY RECORD / ANALYSIS REQUEST

Project Name:	KINGSBRIDGE ARMORY		
Address:	29 KINGSBRIDGE ROAD BRONX, NEW YORK	Auth. By: Phone No:	Vijay Patel 973.560.4983
Langan Job No.:	170321307	Sampling Date:	10/25/2019
Sampled By/License #:	MIROSLAW BARAN / NYC114570/NYS03-03533 SANJAY PATEL / NYC115945/NYS98-10216		

Sample #	Sample ID	Description of Sample	Sample Location	Analysis Requested for Asbestos: PLM	PLM-NOB	TEM	Analysis Requested for Lead: AAS	TCLP	Analysis Requested for PCB: EPA Method 8082	Results
11	CP-4	Ceiling Plaster (2 layers)	Ground Level Mezzanine West	X						
12	CP-5	Ceiling Plaster (2 layers)	Second Floor West	X						
13	CP-6	Ceiling Plaster (2 layers)	Second Floor East	X						
14	CP-7	Ceiling Plaster (2 layers)	Third Floor	X						
15	PID-1-A	Pipe Insulation Debris in Chase	Ground Level East Restrooms	X						
16	PID-1-B	Pipe Insulation Debris in Chase	Ground Level East Restrooms	X						
17	BLN-1-A	Boiler Lining (Small square boilers)	Sub-Basement - Boiler Room	X						
18	BLN-1-B	Boiler Lining (Small square boilers)	Sub-Basement - Boiler Room	X						
19	CGD-1-A	Glue Daubs to Ceiling Tiles	Ground Level Storage next to West Restrooms		X	X				
20	CGD-1-B	Glue Daubs to Ceiling Tiles	Ground Level Storage next to West Restrooms		X	X				

Total No. of Samples: #219104286 10

Turnaround Request:	RUSH	12 hours	24 hours	48 hours	72 hours	5 days
			X			

Laboratory Instructions: Stop analysis @ 1st positive (>1% by weight) for each homogenous sample group. Please e-mail results to mbaran@langan.com and vpatel@langan.com.

Please analyze all plaster samples. Do not stop analysis @ 1st positive (>1% by weight).

Relinquished By:	Date:	Time:	Received by:	Date:	Time:
MIROSLAW BARAN	10/28/2019			10/29/19	11:22
Company: LANGAN			Company: Amer. Sci		

Laboratory Name:

LANGAN
300 Kimball Drive
Parsippany, NJ 07054
Phone: 973-560-4900
Fax: 973-560-4901

CHAIN OF CUSTODY RECORD / ANALYSIS REQUEST

Project Name:	KINGSBRIDGE ARMORY		
Address:	29 KINGSBRIDGE ROAD BRONX, NEW YORK	Auth. By: Phone No:	Vijay Patel 973.560.4983
Langan Job No.:	170321307	Sampling Date:	10/25/2019
Sampled By/License #:	MIROSLAW BARAN / NYC114570/NYS03-03533 SANJAY PATEL / NYC115945/NYS98-10216		

Sample #	Sample ID	Description of Sample	Sample Location	Analysis Requested for Asbestos: PLM	PLM-NOB	TEM	Analysis Requested for Lead: AAS	TCLP	Analysis Requested for PCB: EPA Method 8082	Results
21	CT-1-A	12-inch Ceiling Tile	Ground Level Storage next to West Restrooms		X	X				
22	CT-1-B	12-inch Ceiling Tile	Ground Level Storage next to West Restrooms		X	X				
23	EAP-1-A	Electric Arc Protecting Shield	Ground Level	X						
24	EAP-1-B	Electric Arc Protecting Shield	Ground Level	X						
25	PJ2-1-A	Mud-packed Pipe Joint Insulation to Fiberglass	Ground Level East Storages	X						
26	PJ2-1-B	Mud-packed Pipe Joint Insulation to Fiberglass	Ground Level East Storages	X						
27	PJ2-1-C	Mud-packed Pipe Joint Insulation to Fiberglass	Ground Level East Storages	X						
28	PJ1-1-A	Mud-packed Pipe Joint Insulation to Fiberglass	Ground Level West Restrooms Chase	X						
29	PJ1-1-B	Mud-packed Pipe Joint Insulation to Fiberglass	Ground Level West Restrooms Chase	X						
30	CFM-1-A	Red Cementitious Floor Material	Second Floor Center	X						

Total No. of Samples: #2191042866 10

Turnaround Request:

RUSH	12 hours	24 hours	48 hours	72 hours	5 days
		X			

Laboratory Instructions: Stop analysis @ 1st positive (>1% by weight) for each homogenous sample group. Please e-mail results to mbaran@langan.com and vpatel@langan.com.

Please analyze all plaster samples. Do not stop analysis @ 1st positive (>1% by weight).

Relinquished By:	Date:	Time:	Received by:	Date:	Time:
MIROSLAW BARAN	10/28/2019			10/29/19	11:22
Company: LANGAN			Company: AmeriSci		

Laboratory Name:

LANGAN
300 Kimball Drive
Parsippany, NJ 07054
Phone: 973-560-4900
Fax: 973-560-4901

CHAIN OF CUSTODY RECORD / ANALYSIS REQUEST

Project Name:	KINGSBRIDGE ARMORY		
Address:	29 KINGSBRIDGE ROAD BRONX, NEW YORK	Auth. By: Phone No:	Vijay Patel 973.560.4983
Langan Job No.:	170321307	Sampling Date:	10/25/2019
Sampled By/License #:	MIROSLAW BARAN / NYC114570/NYS03-03533 SANJAY PATEL / NYC115945/NYS98-10216		

Sample #	Sample ID	Description of Sample	Sample Location	Analysis Requested for Asbestos: PLM	PLM-NOB	TEM	Analysis Requested for Lead: AAS	TCLP	Analysis Requested for PCB: EPA Method 8082	Results
31	**CFM-1-B**	Red Cementitious Floor Material	Second Floor Center	X						
32	**WCM-1-A**	Black Coating on Brick Wall	4th Level - Tower		X	X				
33	**WCM-1-B**	Black Coating on Brick Wall	4th Level - Tower		X	X				
34	**WGP-1-A**	Window Glazing Putty	Ground Level Storage next to West Restrooms		X	X				
35	**WGP-1-B**	Window Glazing Putty	Ground Level Storage next to West Restrooms		X	X				
--										
--										
--		#219104286								
--										
--										

Total No. of Samples:	5	Turnaround Request:	RUSH	12 hours	24 hours	48 hours	72 hours	5 days
					X			

Laboratory Instructions: Stop analysis @ 1st positive (>1% by weight) for each homogenous sample group. Please e-mail results to mbaran@langan.com and vpatel@langan.com.

Please analyze all plaster samples. Do not stop analysis @ 1st positive (>1% by weight).

Relinquished By:	Date:	Time:	Received by:	Date:	Time:
MIROSLAW BARAN	10/28/2019			10/29/19	11:22
Company: **LANGAN**			Company: AmriSci		

Laboratory Name:

A P P E N D I X B

Langan's Certifications and Laboratory Accreditations

New York State – Department of Labor
Division of Safety and Health
License and Certificate Unit
State Campus, Building 12
Albany, NY 12240

ASBESTOS HANDLING LICENSE

Langan Engineering, Environmental, Surveying,
Landscape Architecture and Geology, D.P.C.
4th Floor
300 Kimball Drive

Parsippany, NJ 07054

FILE NUMBER: 13-70336
LICENSE NUMBER: 70336
LICENSE CLASS: RESTRICTED
DATE OF ISSUE: 03/07/2019
EXPIRATION DATE: 03/31/2020

Duly Authorized Representative – Vijay Patel:

This license has been issued in accordance with applicable provisions of Article 30 of the Labor Law of New York State and of the New York State Codes, Rules and Regulations (12 NYCRR Part 56). It is subject to suspension or revocation for a (1) serious violation of state, federal or local laws with regard to the conduct of an asbestos project, or (2) demonstrated lack of responsibility in the conduct of any job involving asbestos or asbestos material.

This license is valid only for the contractor named above and this license or a photocopy must be prominently displayed at the asbestos project worksite. This license verifies that all persons employed by the licensee on an asbestos project in New York State have been issued an Asbestos Certificate, appropriate for the type of work they perform, by the New York State Department of Labor.

Eileen M. Franko, Director
For the Commissioner of Labor

SH 432 (8/12)

NYC DEP ASBESTOS CONTROL PROGRAM

ASBESTOS CERTIFICATE



BAJRAMI,
ADEM
INVESTIGATOR
125555

EXPIRES: 11/9/2020
DOB:11/9/1978 M 6' 02"

MUST BE CARRIED ON ALL ASBESTOS PROJECTS

NYC DEP ASBESTOS CONTROL PROGRAM

ASBESTOS CERTIFICATE



PATEL,
SANJAYKUMAR B
INVESTIGATOR
115945

EXPIRES: 9/18/2019
DOB:9/18/1967 M 5' 11"

MUST BE CARRIED ON ALL ASBESTOS PROJECTS

STATE OF NEW YORK - DEPARTMENT OF LABOR
ASBESTOS CERTIFICATE

N.Y.S



SANJAYKUMAR PATEL
CLASS(EXPIRES)
C ATEC(09/19) D INSP(09/19)
H PM (09/19)

CERT# 98-10216
DMV# 587051083

MUST BE CARRIED ON ASBESTOS PROJECTS

01213 0047366699 25

EYES BLK
HAIR BLK
HGT 6' 00"

IF FOUND RETURN TO:
NYSDOL - L&C UNIT
ROOM 161A BUILDING 12
STATE OFFICE CAMPUS
ALBANY NY 12240

United States Environmental Protection Agency

This is to certify that



Sanjay B Patel

has fulfilled the requirements of the Toxic Substances Control Act (TSCA) Section 402, and has received certification to conduct lead-based paint activities pursuant to 40 CFR Part 745.226 as:

Risk Assessor

In the Jurisdiction of:

All EPA Administered Lead-based Paint Activities Program States, Tribes and Territories

This certification is valid from the date of issuance and expires November 20, 2021

LBP-R-4543-1

Certification #

September 18, 2018

Issued On

John Gorman, Chief

Pesticides & Toxic Substances Branch

NYC DEP ASBESTOS CONTROL PROGRAM

ASBESTOS CERTIFICATE



BARAN,
MIROSLAW
INVESTIGATOR
114570

EXPIRES: 06/21/2021
DOB:06/21/1972 M 5' 09"

MUST BE CARRIED ON ALL ASBESTOS PROJECTS

STATE OF NEW YORK - DEPARTMENT OF LABOR
ASBESTOS CERTIFICATE

N.Y.S



MIROSLAW M BARAN
CLASS(EXPIRES)
C ATEC(06/20) D INSP(06/20)
H PM (06/20)

CERT# 03-03533
DMV# 521159926

MUST BE CARRIED ON ASBESTOS PROJECTS

United States Environmental Protection Agency

This is to certify that



Miroslaw M Baran

has fulfilled the requirements of the Toxic Substances Control Act (TSCA) Section 402, and has received certification to conduct lead-based paint activities pursuant to 40 CFR Part 745.226 as:

Risk Assessor

In the Jurisdiction of:

All EPA Administered Lead-based Paint Activities Program States, Tribes and Territories

This certification is valid from the date of issuance and expires February 21, 2022

LBP-R-I198699-1

Certification #

February 07, 2019

Issued On

John Gorman, Chief

Pesticides & Toxic Substances Branch

NEW YORK STATE OF OPPORTUNITY. | Department of Health

ANDREW M. CUOMO
Governor

HOWARD A. ZUCKER, M.D., J.D.
Commissioner

SALLY DRESLIN, M.S., R.N.
Executive Deputy Commissioner

LAB ID: 11480

April 01, 2019

MR. PAUL J. MUCHA
AMERICA SCIENCE TEAM NEW YORK, INC
117 EAST 30TH ST
NEW YORK, NY 10016

Certificate Expiration Date:
April 01, 2020

Dear Mr. Mucha,

Enclosed are certificate(s) of approval issued to your environmental laboratory for the current permit year. The certificate(s) supersede(s) any previously issued one(s) and is(are) in effect through the expiration date listed. Please carefully examine the certificate(s) to insure that the categories, subcategories, analytes, and methods for which your laboratory is approved are correct. In addition, verify that your laboratory's name, address, lead technical director, and identification number are accurate.

Pursuant to NYCRR Subpart 55-2.2, original certificates must be posted conspicuously in the laboratory and copies shall be made available to any client of the laboratory upon request.

Pursuant to NYCRR Subpart 55-2.6, any misrepresentation of the fields of accreditation (category - method - analyte) for which your laboratory is approved may result in denial, suspension, or revocation of your certification. Any use of the Environmental Laboratory Approval Program (ELAP) or National Environmental Laboratory Accreditation Program (NELAP) name, reference to the laboratory's approval status, and/or using the NELAP logo in any catalogs, advertising, business solicitations, proposals, quotations, laboratory analytical reports, or other materials must include the laboratory's ELAP identification number and distinguish between testing for which the laboratory is approved and testing for which the laboratory is not approved.

If you have any questions, please contact ELAP at the New York State Department of Health (NYS DOH), Wadsworth Center, PO Box 509, Albany NY, 12201-0509; by phone at (518) 485-5570; by facsimile at (518) 485-5568; and by email at elap@health.ny.gov.

Sincerely,

Victoria Pretti

Victoria Pretti
Director and QA Officer
Environmental Laboratory Approval Program

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER

Expires 12:01 AM April 01, 2020
Issued April 01, 2019

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MR. PAUL J. MUCHA
AMERICA SCIENCE TEAM NEW YORK, INC
117 EAST 30TH ST
NEW YORK, NY 10016

NY Lab Id No: 11480

is hereby APPROVED as an Environmental Laboratory in conformance with the National Environmental Laboratory Accreditation Conference Standards (2003) for the category ENVIRONMENTAL ANALYSES POTABLE WATER
All approved analytes are listed below:

Miscellaneous

Asbestos	EPA 100.2

Serial No.: 59673

Property of the New York State Department of Health. Certificates are valid only at the address shown, must be conspicuously posted, and are printed on secure paper. Continued accreditation depends on successful ongoing participation in the Program. Consumers are urged to call (518) 485-5570 to verify the laboratory's accreditation status.

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER

Expires 12:01 AM April 01, 2020
Issued April 01, 2019

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MR. PAUL J. MUCHA
AMERICA SCIENCE TEAM NEW YORK, INC
117 EAST 30TH ST
NEW YORK, NY 10016

NY Lab Id No: 11480

is hereby APPROVED as an Environmental Laboratory for the category
ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE
All approved subcategories and/or analytes are listed below:

Miscellaneous

Asbestos In Friable Material	Item 198.1 of Manual
	EPA 600/M4/82/020
Asbestos in Non-Friable Material-PLM	Item 198.6 of Manual (NOB by PLM)
Asbestos In Non-Friable Material-TEM	Item 198.4 of Manual

Serial No.: 59674

Property of the New York State Department of Health. Certificates are valid only at the address shown, must be conspicuously posted, and are printed on secure paper. Continued accreditation depends on successful ongoing participation in the Program. Consumers are urged to call (518) 485-5570 to verify the laboratory's accreditation status.

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER

Expires 12:01 AM April 01, 2020
Issued April 01, 2019

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MR. PAUL J. MUCHA
AMERICA SCIENCE TEAM NEW YORK, INC
117 EAST 30TH ST
NEW YORK, NY 10016

NY Lab Id No: 11480

is hereby APPROVED as an Environmental Laboratory for the category
ENVIRONMENTAL ANALYSES AIR AND EMISSIONS
All approved subcategories and/or analytes are listed below:

Miscellaneous

Asbestos	40 CFR 763 APX A No. III
	YAMATE,AGARWAL GIBB
	NIOSH 7402
Fibers	NIOSH 7400 A RULES

Serial No.: 59675

Property of the New York State Department of Health. Certificates are valid only at the address shown, must be conspicuously posted, and are printed on secure paper. Continued accreditation depends on successful ongoing participation in the Program. Consumers are urged to call (518) 485-5570 to verify the laboratory's accreditation status.

NVLAP® National Voluntary Laboratory Accreditation Program

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

AmeriSci New York
117 E. 30th Street
New York, NY 10016
Mr. Paul Mucha
Phone: 212-679-8600 Fax: 212-679-2711
Email: pmucha@amerisci.com
http://www.amerisci.com

ASBESTOS FIBER ANALYSIS — NVLAP LAB CODE 200546-0

Bulk Asbestos Analysis

Code	*Description*
18/A01	EPA -- 40 CFR Appendix E to Subpart E of Part 763, Interim Method of the Determination of Asbestos in Bulk Insulation Samples
18/A03	EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials

Airborne Asbestos Analysis

Code	*Description*
18/A02	U.S. EPA's "Interim Transmission Electron Microscopy Analytical Methods-Mandatory and Nonmandatory-and Mandatory Section to Determine Completion of Response Actions" as found in 40 CFR, Part 763, Subpart E, Appendix A.

For the National Voluntary Laboratory Accreditation Program

United States Department of Commerce
National Institute of Standards and Technology

Certificate of Accreditation to ISO/IEC 17025:2017

NVLAP LAB CODE: 200546-0

AmeriSci New York

New York, NY

is accredited by the National Voluntary Laboratory Accreditation Program for specific services, listed on the Scope of Accreditation, for:

Asbestos Fiber Analysis

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communique dated January 2009).

2019-07-01 through 2020-06-30

Effective Dates

For the National Voluntary Laboratory Accreditation Program

A P P E N D I X C

Copy of the October 6, 2008 Asbestos Investigation Report prepared by Langan

LANGAN
ENGINEERING & ENVIRONMENTAL SERVICES

David T. Gockel, P.E., P.P.
George P. Kelley, P.E.
George E. Derrick, P.E.
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Ryan C. Linthicum, P.E.
Vijay Patel
Mark K. Seel, P.E., P.G.
Beverly R. Williams

October 6, 2008

Dean Vanderwarker
Related Retail
60 Columbus Circle
New York, New York 10004

Re: Asbestos Investigation
Kingsbridge Armory
29 West Kingsbridge Road
Bronx, New York
Langan Project No. 5815101

Dear Mr. Vanderwarker:

Langan Engineering and Environmental Services, P.C. (Langan) completed an asbestos investigation of the above referenced building. The purpose of this investigation was to confirm the presence/absence of asbestos containing materials (ACM) within the subject building. The asbestos investigation was performed on September 4, 5, and 8, 2008, by Langan's New York City Department of Environmental Protection Agency (NYCDEP) certified asbestos investigators, Messrs Miroslaw Baran and Sanjay Patel. Langan's certifications are provided in the Attachments.

Site and Building Description

The project site is at the center of a city block bordered by West 195th Street to the north, West Kingsbridge Road to the south, Jerome Avenue to the east, and Reservoir Avenue to the west (Figure 1). Most of the Site is occupied by the landmark Kingsbridge Armory building (Armory), which was constructed on an approximately 200,000-square-foot (sq-ft) footprint between 1912 and 1917 over the abandoned east basin of the Jerome Park Reservoir. The main drill hall at the center of the Armory measures approximately 300 by 600 feet (ft) and is spanned freely by an arched roof framing that rises 110 ft above the drill hall floor. Beneath the drill floor, two cellar levels formerly housed offices, a garage, a gymnasium, rifle and pistol ranges, and rooms for other military functions. The drill hall volume is flanked to the south by a two-story headhouse with a single cellar floor and four towers that contain offices and residential quarters. The eastern portion of the sub-cellar area underlies the Jerome Avenue sidewalk. The sub-cellar of the Armory building is accessible by a ramp that extends from West 195th Street. The Armory is currently owned and operated by the City of New York, and is used for

storage of City property. The heat and hot water to the building was supplied by oil-fired boilers located in the sub-basement.

Observations and Findings

Prior to conducting the field investigation, we reviewed the Environmental Survey Report dated August 24, 2000, prepared by ET Environmental Corporation (ET). The report documented the following building materials to be asbestos containing materials (ACM): Built-up roofing and flashing materials, Roof shingle, Various colors 9-inch square floor tiles, Air-cell and magnesia pipe and pipe joint insulation, Mud-pack pipe joint insulation associated with fiberglass pipe insulation, Window caulking and glazing putty, and Caulking associated with exterior joints, seams and cracks. The wall and ceiling plaster, boiler breeching and insulation, grey floor coating, various ceiling tiles and panels, wallboard and joint compound were documented to be non-ACM.

During Langan's investigation, suspect materials observed in the building were documented, assessed, quantified, and sampled, as necessary. In addition to the materials identified in ET report, Langan observed the following suspect materials which were not addressed: Baseboard Molding Glue, Pyroblock, Pressboard material, Wire wrap insulation, Electric ebony/Transite switch panel, Safety switch backing material, Vibration dumper cloth, Floor joint fill material, Wall panel glue, Mirror glue, Exterior and interior door caulking, Black and brown linoleum, 9-inch square beige floor tile and associated mastic, Black floor tile and associated mastic under plywood, 12-inch square beige floor tile and associated mastic, 12-inch square tan wood design floor tile and associated mastic, 12-inch square terracotta floor tile and associated mastic, 12-inch square dark brown floor tile and associated mastic, Mastic associated with various 9-ich square floor tiles, Pipe insulation debris mixed with plaster, wood and contaminated construction debris.

A total of sixty-six (66) bulk samples of the observed suspect materials were collected during our investigation. Samples were analyzed by AmeriSci laboratory of New York, New York. AmeriSci is accredited by the Environmental Laboratory Accreditation Program (ELAP) and National Voluntary Laboratory Accreditation Program (NVLAP). A copy of laboratory test results, chain-of–custody documentation, and Laboratory's accreditations is provided in the Attachments.

Findings

According to USEPA, a material with an asbestos content greater than one percent by weight is considered as an asbestos-containing material. Consequently, the following materials in the building were identified to be ACM:

- Pipe and Joint Insulation = 9,048 linear feet
- Wire wrap insulation = 26,500 linear feet

- Electric Transite switch panel= 45 square feet
- Floor joint fill material =1,800 square feet
- Wall panel glue = 1,600 square feet
- Mirror glue = 20 square feet
- Various types of floor tiles/mastic (9-inch square beige floor tile and associated mastic, Black floor tile and associated mastic under plywood, 12-inch square tan wood design floor tile and associated mastic, 12-inch square terracotta floor tile and associated mastic, and Mastic associated with various 9-inch square floor tiles) = 28,100 square feet
- Exterior and interior door caulking = 208 Masonry openings
- Original built-up roofing and flashing materials = 50 square feet
- Pipe insulation debris mixed with plaster, wood and other construction debris = 58,700 square feet plus additional 40 cubic yards

The baseboard molding glue, Pyroblock, pressboard material, safety switch backing material, vibration dumper cloth, black and brown linoleum, 12-inch square beige floor tile and associated mastic, 12-inch square dark brown floor tile and associated mastic were identified to be non-ACM. A summary of the asbestos survey findings is provided in attached Table 1.

The ET report documented the built-up roofing material. Apparently, the building was observed to have fairly new built-up roofing. Based on our field observations and review of the Building Department records, it appears that as part of 2002 exterior restoration project, the built-up roofing materials and several windows in the building were replaced. Any roof cuts would void existing warranty, and therefore, the roofs were not sampled during our investigation.

Conclusions and Recommendations

Asbestos-containing materials were identified in friable and non-friable forms in the subject building. All confirmed and presumed ACM in the building that is to be left in place should be managed in good condition under an Operations and Management (O & M) plan. The purpose and objective of the O & M Plan is to maintain the assumed, presumed or known asbestos containing materials in good condition, prevent future release of asbestos fibers, and minimize exposure of all building occupants to asbestos fibers.

Asbestos containing debris from damaged pipe insulation was observed throughout the building. Access to the building should be restricted until the clean-up work is completed.

ACM that would be impacted by planned renovation must be properly removed prior to performing such activities. Refer to Table 1 for the summary of asbestos inspection findings. The removal and disposal of ACM must be performed by a NYS-DOL licensed asbestos handling contractor in accordance with Federal, state, and local regulations. Proper notifications must be filed with the US-EPA, NYS-DOL, NYC-DEP and other regulatory agencies prior to performing such activities.

Abatement design documents should be prepared to identify the locations of ACM removal and specify removal work practices.

As required by the NYS-DOL and NYC-DEP regulations, the abatement project must be monitored by a NYS-DOL certified project monitor. The project monitor oversees contractor's work practices to ensure regulatory compliance and also performs pre, during, and final clearance post abatement air sampling in accordance with the state and city regulations.

In addition to ACM, lead based paint was observed throughout the building. The paint was flaking, cracking, with debris lying on the floor. Apparently, paint stabilization work was performed in the basement and sub-basement. In addition to LBP, suspect PCB/Mercury containing electrical articles were observed throughout the building.

Estimated Remediation Cost

Budgetary estimates for asbestos abatement are provided in Attachments.

The cost for the removal of visually observed ACM/contaminated debris, removal of PCB/Mercury containing electrical articles, and remediation/stabilization of damaged paint in the building is estimated to be approximately **$ 1,350,000,** including preparation of abatement design documents, project monitoring, air sample analysis, and closeout documentation.

We trust that this report will satisfy your requirements. If you have any questions regarding this report, please call me at 201-794-6900.

Sincerely,
Langan Engineering & Environmental Services, P.C.

Vijay Patel
Associate

Cc: Joel Landes– Langan

Attachments: Table 1 - Summary of Asbestos Survey Findings,
Table 2 - Budgetary Estimate for Asbestos Abatement,
Results of Laboratory Analyses and Chain-of-Custody Documentation, and
Langan certifications and Laboratory accreditations

Table 1 – Summary of Asbestos Survey Findings

TABLE 1
SUMMARY OF ASBESTOS SURVEY FINDINGS
KINGSBRIDGE ARMORY
29 KINGSBRIDGE ROAD
BRONX, NEW YORK

Homogeneous Material	ACM or Non-ACM	Approximate Quantity of ACM	Condition	Comments
Sub-Basement				
Original mud-pack pipe joint insulation associated w/ fiberglass	ACM	3 joints	Fair	—
New mud-pack pipe joint insulation associate w/ fiberglass	Non-ACM	—	Good to fair	Confirmed negative as per ET Environmental Corp. report dated August 24, 2000.
Boiler gasket	Non-ACM	—	Good	—
Boiler edge patch material	Non-ACM	—	Good	—
Breeching insulation	Non-ACM	—	Good	Confirmed negative as per ET Environmental Corp. report dated August 24, 2000.
Wall plaster	Non-ACM	—	Poor	Confirmed negative as per ET Environmental Corp. report dated August 24, 2000.
Basement				
Original mud-pack pipe joint insulation associated w/ fiberglass	ACM	20 joints	Fair to poor	—
Block and air-cell pipe insulation	ACM	4,350 LF	Poor	Confirmed positive as per ET Environmental Corp. report dated August 24, 2000. Pipe gauges, dents, and open ends were observed.
Pipe insulation debris mixed with plaster, wood and other construction debris on the floor.	ACM	39,000 SF	—	The average thickness of the debris layer in majority of the contaminated area was one inch; however, in several locations, thickness of debris layer reached up to two feet.
Pipe insulation debris mixed with plaster, wood and other construction debris in black plastic bags.	ACM	25 CY	—	—

TABLE 1
SUMMARY OF ASBESTOS SURVEY FINDINGS
KINGSBRIDGE ARMORY
29 KINGSBRIDGE ROAD
BRONX, NEW YORK

Homogeneous Material	ACM or Non-ACM	Approximate Quantity of ACM	Condition	Comments
Various types of floor tile and associated mastic	ACM	300 SF	Fair to poor	Most of the identified floor tiles were confirmed positive as per ET Environmental Corp. report dated August 24, 2000 and recent Langan's investigation. Mastic associated with these floor tiles was sampled and analyzed during recent Langan's investigation and was confirmed to be ACM.
Electrical wire insulation	ACM	10,000 LF	Unknown	—
Interior door caulking	ACM	3 door openings	Good	—
Wall and ceiling plaster	Non-ACM	—	Poor	Confirmed negative as per ET Environmental Corp. report dated August 24, 2000.
New mud-pack pipe joint insulation associate w/ fiberglass	Non-ACM	—	Good to fair	Confirmed negative as per ET Environmental Corp. report dated August 24, 2000.
Sheetrock wallboard and joint compound	Non-ACM	—	Good to fair	Confirmed negative as per ET Environmental Corp. report dated August 24, 2000.
Vibration dumper cloth	Non-ACM	—	Good to fair	—
Electric panel board	Non-ACM	—	Good to fair	—
Pressboard material	Non-ACM	—	Good to fair	—
Cove base and associated mastic	Non-ACM	—	Fair	—
Pyroblock	Non-ACM	—	Unknown	—
Basement Mezzanine				
Block and air-cell pipe insulation	ACM	1,125 LF	Poor	Confirmed positive as per ET Environmental Corp. report dated August 24, 2000. Pipe gauges, dents, and open ends were observed.

TABLE 1
SUMMARY OF ASBESTOS SURVEY FINDINGS
KINGSBRIDGE ARMORY
29 KINGSBRIDGE ROAD
BRONX, NEW YORK

Homogeneous Material	ACM or Non-ACM	Approximate Quantity of ACM	Condition	Comments
Pipe insulation debris mixed with plaster, wood and other construction debris on the floor.	ACM	17,500 SF	—	The average thickness of the debris layer in majority of the contaminated area was one inch; however, in several locations, thickness of debris layer reached up to two feet.
Pipe insulation debris mixed with plaster, wood and other construction debris in black plastic bags.	ACM	10 CY	—	—
Various types of floor tile and associated mastic	ACM	5,500 SF	Fair to poor	Most of the identified floor tiles were confirmed positive as per ET Environmental Corp. report dated August 24, 2000 and recent Langan's investigation. Mastic associated with these floor tiles was sampled and analyzed during recent Langan's investigation and was confirmed to be ACM. Up to two layers of floor tile/covering and mastic were observed at isolated locations. At the eastern section of Basement Mezzanine ACM floor tiles and mastic were observed to be covered with layer of plywood and non-ACM floor tiles.
Electrical wire insulation	ACM	3,000 LF	Unknown	—
Wall and ceiling plaster	Non-ACM	—	Poor	Confirmed negative as per ET Environmental Corp. report dated August 24, 2000.
New mud-pack pipe joint insulation associate w/ fiberglass	Non-ACM	—	Good to fair	Confirmed negative as per ET Environmental Corp. report dated August 24, 2000.
Sheetrock wallboard and joint compound	Non-ACM	—	Good to fair	Confirmed negative as per ET Environmental Corp. report dated August 24, 2000.
Vibration dumper cloth	Non-ACM	—	Good to fair	—
Electric panel board	Non-ACM	—	Good to fair	—
Cove base and associated mastic	Non-ACM	—	Fair	—

TABLE 1
SUMMARY OF ASBESTOS SURVEY FINDINGS
KINGSBRIDGE ARMORY
29 KINGSBRIDGE ROAD
BRONX, NEW YORK

Homogeneous Material	ACM or Non-ACM	Approximate Quantity of ACM	Condition	Comments
Pyroblock	Non-ACM	—	Unknown	—
1st Floor				
Block and air-cell pipe insulation	ACM	120 LF	Fair	Confirmed positive as per ET Environmental Corp. report dated August 24, 2000. Pipe open ends were observed.
Pipe insulation debris mixed with plaster on the floor.	ACM	300 SF	—	—
Pipe insulation debris mixed with plaster, wood and other construction debris in black plastic bags.	ACM	5 CY	—	—
Various types of floor tile and associated mastic	ACM	9,500 SF	Fair to poor	Most of the identified floor tiles were confirmed positive as per ET Environmental Corp. report dated August 24, 2000 and recent Langan's investigation. Mastic associated with these floor tiles was sampled and analyzed during recent Langan's investigation and was confirmed to be ACM. Up to two layers of floor tile/covering and mastic were observed at isolated locations. At one location ACM floor tiles and mastic were observed to be covered with layer of plywood.
Ebony/Transite Electric switch panel	ACM	45 SF	Good to fair	—
Electrical wire insulation	ACM	10,000 LF	Unknown	—
Wall and ceiling plaster	Non-ACM	—	Poor	Confirmed negative as per ET Environmental Corp. report dated August 24, 2000.
New mud-pack pipe joint insulation associate w/ fiberglass	Non-ACM	—	Good to fair	Confirmed negative as per ET Environmental Corp. report dated August 24, 2000.
Sheetrock wallboard and joint compound	Non-ACM	—	Good to fair	Confirmed negative as per ET Environmental Corp. report dated August 24, 2000.

TABLE 1
SUMMARY OF ASBESTOS SURVEY FINDINGS
KINGSBRIDGE ARMORY
29 KINGSBRIDGE ROAD
BRONX, NEW YORK

Homogeneous Material	ACM or Non-ACM	Approximate Quantity of ACM	Condition	Comments
Vibration dumper cloth	Non-ACM	—	Good to fair	—
Cove base and associated mastic	Non-ACM	—	Fair	—
1st Floor Mezzanine				
Pipe insulation debris mixed with plaster on the floor.	ACM	500 SF	—	—
Various types of floor tile and associated mastic	ACM	1,600 SF	Fair to poor	Most of the identified floor tiles were confirmed positive as per ET Environmental Corp. report dated August 24, 2000 and recent Langan's investigation. Mastic associated with these floor tiles was sampled and analyzed during recent Langan's investigation and was confirmed to be ACM.
Electrical wire insulation	ACM	1,000 LF	Unknown	—
Wall and ceiling plaster	Non-ACM	—	Poor	Confirmed negative as per ET Environmental Corp. report dated August 24, 2000.
Sheetrock wallboard and joint compound	Non-ACM	—	Good to fair	Confirmed negative as per ET Environmental Corp. report dated August 24, 2000.
Cove base and associated mastic	Non-ACM	—	Fair	—
2nd Floor				
Block and air-cell pipe insulation	ACM	250 LF	Fair	Confirmed positive as per ET Environmental Corp. report dated August 24, 2000. Pipe gauges, dents, and open ends were observed.
Pipe insulation debris on suspended ceiling plaster.	ACM	600 SF	—	—

TABLE 1
SUMMARY OF ASBESTOS SURVEY FINDINGS
KINGSBRIDGE ARMORY
29 KINGSBRIDGE ROAD
BRONX, NEW YORK

Homogeneous Material	ACM or Non-ACM	Approximate Quantity of ACM	Condition	Comments
Various types of floor tile and associated mastic	ACM	7,700 SF	Fair to poor	Most of the identified floor tiles were confirmed positive as per ET Environmental Corp. report dated August 24, 2000 and recent Langan's investigation. Mastic associated with these floor tiles was sampled and analyzed during recent Langan's investigation and was confirmed to be ACM. Up to two layers of floor tile/covering and mastic were observed at isolated locations. Hardwood flooring underneath floor tiles was mouldered and was in poor condition. Hardwood flooring was installed on concrete sub-flooring.
Wall panel glue	ACM	1,600 SF	—	—
Mirror glue	ACM	20 SF	—	—
Electrical wire insulation	ACM	2,000 LF	Unknown	—
Wall and ceiling plaster	Non-ACM	—	Poor	Confirmed negative as per ET Environmental Corp. report dated August 24, 2000.
Sheetrock wallboard and joint compound	Non-ACM	—	Good to fair	Confirmed negative as per ET Environmental Corp. report dated August 24, 2000.
Cove base and associated mastic	Non-ACM	—	Fair	—
3rd Floor and 4th Tower Level				
Block and air-cell pipe insulation	ACM	180 LF	Fair	Confirmed positive as per ET Environmental Corp. report dated August 24, 2000. Pipe gauges, dents, and open ends were observed.
Pipe insulation debris mixed with plaster on the floor.	ACM	1,000 SF	—	—

TABLE 1
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KINGSBRIDGE ARMORY
29 KINGSBRIDGE ROAD
BRONX, NEW YORK

Homogeneous Material	ACM or Non-ACM	Approximate Quantity of ACM	Condition	Comments
Various types of floor tile and associated mastic	ACM	3,500 SF	Fair to poor	Most of the identified floor tiles were confirmed positive as per ET Environmental Corp. report dated August 24, 2000 and recent Langan's investigation. Mastic associated with these floor tiles was sampled and analyzed during recent Langan's investigation and was confirmed to be ACM. Up to two layers of floor tile/covering and mastic were observed at isolated locations. Hardwood flooring underneath floor tiles was mouldered and was in poor condition. Hardwood flooring was installed on concrete sub-flooring.
Electrical wire insulation	ACM	500 LF	Unknown	—
Wall and ceiling plaster	Non-ACM	—	Poor	Confirmed negative as per ET Environmental Corp. report dated August 24, 2000.
Sheetrock wallboard and joint compound	Non-ACM	—	Good to fair	Confirmed negative as per ET Environmental Corp. report dated August 24, 2000.
Cove base and associated mastic	Non-ACM	—	Fair	—
Roofs and Exteriors				
Original built-up roofing, flashing and mastic materials	ACM	50 SF	Good	Confirmed positive as per ET Environmental Corp. report dated August 24, 2000. See Note 1.
Window caulking and glazing putty	ACM	200 masonry window openings	Good to fair	Confirmed positive as per ET Environmental Corp. report dated August 24, 2000.
Exterior door caulking	ACM	5 masonry door openings	Good	—
Floor joint fill material along perimeter building walls.	ACM	1,800 LF	Good	—

TABLE 1
SUMMARY OF ASBESTOS SURVEY FINDINGS
KINGSBRIDGE ARMORY
29 KINGSBRIDGE ROAD
BRONX, NEW YORK

Homogeneous Material	ACM or Non-ACM	Approximate Quantity of ACM	Condition	Comments
Caulking on gable ends and clerestory bands	ACM	12,000 SF of surface impacted by caulking presence	—	Confirmed positive as per ET Environmental Corp. report dated August 24, 2000.
Inaccessible areas				
Block and air-cell pipe insulation	ACM	3,000 LF	Unknown	Confirmed positive as per ET Environmental Corp. report dated August 24, 2000. An allowance is provided for the presence of concealed ACM pipe insulation within wall and ceiling cavities.
Pipe insulation debris mixed with plaster on the floor and floor covering.	ACM	1,000 SF	—	An allowance is provided for the presence of concealed ACM pipe insulation within inaccessible building spaces.

Notes:

1. The ET report documented the built-up roofing material. Apparently, the building was observed to have fairly new built-up roofing. Based on our field observations and review of the Building Department records, it appears that as part of 2002 exterior restoration project, the built-up roofing materials and several windows in the building were replaced. Any roof cuts would void existing warranty, and therefore, the roofs were not sampled during our investigation.
2. Any suspect material that is not listed in this report must be presumed ACM until confirmed via laboratory testing.

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Table 2 – Budgetary Estimate for Asbestos Abatement

TABLE 2
BUDGETARY ESTIMATE FOR HAZMAT ABATEMENT
Kingsbridge Armory
29 West Kingsbridge Road
BRONX, NEW YORK

ACM or Presumed ACM	Quantity of ACM or Presumed ACM	Unit Price	Budgetary Estimate
SUB-BASEMENT			
Original mud-pack pipe joint insulation associated w/ fiberglass	3 Joint	$500	$1,500
BASEMENT			
Original mud-pack pipe joint insulation associated w/ fiberglass	20 joint	$15	$300
Block and air-cell pipe insulation	4,350 LF	$18	$78,300
Pipe insulation debris mixed with plaster, wood and other construction debris on the floor.	39,000 SF	$5	$195,000
Pipe insulation debris mixed with plaster, wood and other construction debris in black plastic bags.	25 CY	$300	$7,500
Various types of floor tile and associated mastic	300 SF	$7	$2,100
Electrical wire insulation	10,000 LF	$3	$30,000
Interior door caulking	3 DO	$100	$300
BASEMENT MEZZANINE			
Block and air-cell pipe insulation	1,125 LF	$12	$13,500
Pipe insulation debris mixed with plaster, wood and other construction debris on the floor.	17,500 SF	$5	$87,500
Pipe insulation debris mixed with plaster, wood and other construction debris in black plastic bags.	10 CY	$300	$3,000
Various types of floor tile and associated mastic	5,500 SF	$7	$38,500
Electrical wire insulation	3,000 LF	$3	$9,000
FIRST FLOOR			
Block and air-cell pipe insulation	120 LF	$50	$6,000
Pipe insulation debris mixed with plaster on the floor.	300 SF	$10	$3,000
Pipe insulation debris mixed with plaster, wood and other construction debris in black plastic bags.	5 CY	$300	$1,500
Various types of floor tile and associated mastic	9,500 SF	$7	$66,500
Ebony/Transite Electric switch panel	45 SF	$15	$675
Electrical wire insulation	10,000 LF	$3	$30,000
FIRST FLOOR MEZZANINE			
Pipe insulation debris mixed with plaster on the floor.	500 SF	$5	$2,500
Various types of floor tile and associated mastic	1,600 SF	$7	$11,200
Electrical wire insulation	1,000 LF	$3	$3,000

BUDGETARY ESTIMATE FOR HAZMAT ABATEMENT
Kingsbridge Armory
29 West Kingsbridge Road
BRONX, NEW YORK

ACM or Presumed ACM	Quantity of ACM or Presumed ACM	Unit Price	Budgetary Estimate
SECOND FLOOR			
Block and air-cell pipe insulation	250 LF	$15	$3,750
Pipe insulation debris on suspended ceiling plaster.	600 SF	$5	$3,000
Various types of floor tile and associated mastic	7,700 SF	$7	$53,900
Wall panel glue	1,600 SF	$6	$9,600
Mirror glue	20 SF	$6	$120
Electrical wire insulation	2,000 LF	$3	$6,000
THIRD FLOOR AND FOURTH TOWER LEVEL			
Block and air-cell pipe insulation	180 LF	$30	$5,400
Pipe insulation debris mixed with plaster on the floor.	1,000 SF	$5	$5,000
Various types of floor tile and associated mastic	3,500 SF	$7	$24,500
Electrical wire insulation	500 LF	$3	$1,500
ROOFS AND EXTERIORS			
Original built-up roofing, flashing and mastic materials	50 SF	$50	$2,500
Window caulking and glazing putty	200 WO	$500	$100,000
Exterior door caulking	5 DO	$100	$500
Floor joint fill material along perimeter building walls.	1,800 LF	$5	$9,000
INACCESSIBLE AREAS			
Block and air-cell pipe insulation concealed within wall and ceiling cavities	3,000 LF	$35	$105,000
Pipe insulation debris mixed with plaster on the floor and floor covering.	100 SF	$10	$1,000
TOTAL ASBESTOS ABATEMENT ESTIMATES			**$920,645**
ESTIMATED COST FOR THE MANAGEMENT AND REMEDIATION OF LEAD BASED PAINTED COMPONENTS			**$229,355**
ESTIMATED COST FOR THE REMOVAL OF PCB/MERCURY CONTAINING ELECTRICAL ARTICLES			**$50,000**
ESTIMATED TOTAL FOR PREPARATION OF DESIGN DOCUMENTS, PROJECT MONITORING, AIR SAMPLE ANALYSIS, CLOSURE REPORT, AND SUBMITTAL REVIEW			**$150,000**
ESTIMATED TOTAL FOR THE REMEDIATION OF HAZMAT			**$1,350,000**

Notes:

1. The aforementioned unit prices for asbestos removal are based on the location, size and complexity of the project, and assume that all abatement work will be completed in one phase. These estimates are for budgetary purposes only. Actual removal cost may vary depending upon the market conditions and time of the year ACM are being removed, and work phasing. The estimates include the cost for insurance, overhead, material, labor, disposal permits, OSHA sampling and analysis, and profits. Additionally, the estimated cost is also based on the assumption that union labor wage rate will be used for the workers' and supervisors' wages.

Results of Laboratory/ Chain-of-Custody

LANGAN

AmeriSci New York
117 EAST 30TH ST.
NEW YORK, NY 10016
TEL: (212) 679-8600 • FAX: (212) 679-3114

PLM Bulk Asbestos Report

Langan Engineering & Environmental S
Attn: Vijay Patel
River Drive Center 1

Elmwood Park, NJ 07407

Date Received 09/12/08 **AmeriSci Job #** 208092383
Date Examined 09/15/08 **P.O. #**
ELAP # 11480 **Page** 1 **of** 15
RE: 5815101; Kingsbridge Armory; 29 West Kingsbridge Road, Bronx, New York

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
PYB-1-A	208092383-01	*No*	NAD
1 **Location:** Pyro Blocks; 1st Floor			(by NYS ELAP 198.1) by John P. Koubiadis on 09/15/08
Analyst Description: OffWhite, Homogeneous, Non-Fibrous, Bulk Material			
Asbestos Types:			
Other Material: Non-fibrous 100 %			
PYB-1-B	208092383-02	*No*	NAD
1 **Location:** Pyro Blocks; 1st Floor			(by NYS ELAP 198.1) by John P. Koubiadis on 09/15/08
Analyst Description: OffWhite, Homogeneous, Non-Fibrous, Bulk Material			
Asbestos Types:			
Other Material: Non-fibrous 100 %			
BG-1-A	208092383-03	*No*	NAD
2 **Location:** Boiler Gasket; Boiler Room In Sub Basement			(by NYS ELAP 198.1) by John P. Koubiadis on 09/15/08
Analyst Description: Tan, Homogeneous, Non-Fibrous, Bulk Material			
Asbestos Types:			
Other Material: Fibrous glass 95 %, Non-fibrous 5 %			
BG-1-B	208092383-04	*No*	NAD
2 **Location:** Boiler Gasket; Boiler Room In Sub Basement			(by NYS ELAP 198.1) by John P. Koubiadis on 09/15/08
Analyst Description: Tan/Brown, Heterogeneous, Fibrous, Bulk Material			
Asbestos Types:			
Other Material: Fibrous glass 75 %, Non-fibrous 25 %			
BEP-1-A	208092383-05	*No*	NAD
3 **Location:** Boiler Edge Patch Material; Boiler Room In Sub Basement			(by NYS ELAP 198.1) by John P. Koubiadis on 09/15/08
Analyst Description: Grey, Homogeneous, Fibrous, Bulk Material			
Asbestos Types:			
Other Material: Fibrous glass 20 %, Non-fibrous 80 %			

See Reporting notes on last page

PLM Bulk Asbestos Report

5815101; Kingsbridge Armory; 29 West Kingsbridge Road,
Bronx, New York

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
BEP-1-B 3	208092383-06 **Location:** Boiler Edge Patch Material; Boiler Room In Sub Basement	***No***	NAD (by NYS ELAP 198.1) by John P. Koubiadis on 09/15/08
Analyst Description: Grey, Homogeneous, Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Fibrous glass 20 %, Non-fibrous 80 %			
PB-1-A 4	208092383-07 **Location:** Pressboard Material; Basement	***No***	NAD (by NYS ELAP 198.1) by John P. Koubiadis on 09/15/08
Analyst Description: Grey, Homogeneous, Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Cellulose 95 %, Non-fibrous 5 %			
PB-1-B 4	208092383-08 **Location:** Pressboard Material; Basement	***No***	NAD (by NYS ELAP 198.1) by John P. Koubiadis on 09/15/08
Analyst Description: Grey, Homogeneous, Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Cellulose 95 %, Non-fibrous 5 %			
WI-1-A 5	208092383-09 **Location:** Wire Wrap Insulation; Seating Area	***Yes***	14 % (by NYS ELAP 198.6) by John P. Koubiadis on 09/15/08
Analyst Description: Grey/Black, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** Chrysotile 14.0 % **Other Material:** Non-fibrous 48.9 %			
WI-1-B 5	208092383-10 **Location:** Wire Wrap Insulation; Seating Area		NA/PS
Analyst Description: Bulk Material **Asbestos Types:** **Other Material:**			
EB-1-A 6	208092383-11 **Location:** Electric Panel Board; Basement	***No***	NAD (by NYS ELAP 198.1) by John P. Koubiadis on 09/15/08
Analyst Description: Grey, Homogeneous, Non-Fibrous, Cementitious, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 100 %			

See Reporting notes on last page

PLM Bulk Asbestos Report

5815101; Kingsbridge Armory; 29 West Kingsbridge Road,
Bronx, New York

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
EB-1-B 6	208092383-12 **Location:** Electric Panel Board; Basement	***No***	NAD (by NYS ELAP 198.1) by John P. Koubiadis on 09/15/08
Analyst Description: Grey, Homogeneous, Non-Fibrous, Cementitious, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
SSB-1-A 7	208092383-13 **Location:** Safety Switch Backing Material; Seat Level	***No***	NAD (by NYS ELAP 198.1) by John P. Koubiadis on 09/15/08
Analyst Description: Brown, Homogeneous, Non-Fibrous, Cementitious, Bulk Material **Asbestos Types:** **Other Material:** Cellulose 10 %, Non-fibrous 90 %			
SSB-1-B 7	208092383-14 **Location:** Safety Switch Backing Material; Seat Level	***No***	NAD (by NYS ELAP 198.1) by John P. Koubiadis on 09/15/08
Analyst Description: Brown, Homogeneous, Non-Fibrous, Cementitious, Bulk Material **Asbestos Types:** **Other Material:** Cellulose 10 %, Non-fibrous 90 %			
TR-1-A 8	208092383-15 **Location:** Transite Electrical Panel; 1st Floor	***Yes***	22.2 % (by NYS ELAP 198.1) by John P. Koubiadis on 09/15/08
Analyst Description: Grey, Homogeneous, Fibrous, Cementitious, Bulk Material **Asbestos Types:** Chrysotile 22.2 % **Other Material:** Non-fibrous 77.8 %			
TR-1-B 8	208092383-16 **Location:** Transite Electrical Panel; 1st Floor		NA/PS
Analyst Description: Bulk Material **Asbestos Types:** **Other Material:**			
DB-1-A 9	208092383-17 **Location:** Debris On The Floor Pipe Insulation; Basement	***Yes***	50 % (by NYS ELAP 198.1) by John P. Koubiadis on 09/15/08
Analyst Description: Grey, Homogeneous, Fibrous, Bulk Material **Asbestos Types:** Chrysotile 50.0 % **Other Material:** Non-fibrous 50 %			

See Reporting notes on last page

PLM Bulk Asbestos Report

5815101; Kingsbridge Armory; 29 West Kingsbridge Road,
Bronx, New York

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
DB-1-B	208092383-18		NA/PS
9	**Location:** Debris On The Floor Pipe Insulation; Basement		
Analyst Description: Bulk Material **Asbestos Types:** **Other Material:**			
FLEX-1-A	208092383-19	***No***	NAD
10	**Location:** Vibration Damper Cloth; Basement		(by NYS ELAP 198.1) by John P. Koubiadis on 09/15/08
Analyst Description: Grey, Homogeneous, Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Cellulose 90 %, Non-fibrous 10 %			
FLEX-1-B	208092383-20	***No***	NAD
10	**Location:** Vibration Damper Cloth; Basement		(by NYS ELAP 198.1) by John P. Koubiadis on 09/15/08
Analyst Description: Grey, Homogeneous, Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Cellulose 90 %, Non-fibrous 10 %			
MPJ-1-A	208092383-21	***Yes***	44.4 %
11	**Location:** Mud Pack Pipe Joint Attached With Old Fiberglass Pipe Insulation; Center Restroom On South Side- Basement		(by NYS ELAP 198.1) by John P. Koubiadis on 09/15/08
Analyst Description: Grey, Homogeneous, Fibrous, Bulk Material **Asbestos Types:** Chrysotile 44.4 % **Other Material:** Non-fibrous 55.6 %			
FJF-1-A	208092383-22	***Yes***	1.5 %
12	**Location:** Floor Joint Fill Material; Exterior- West Side By Building Wall		(by NYS ELAP 198.6) by John P. Koubiadis on 09/15/08
Analyst Description: Black, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** Chrysotile 1.5 % **Other Material:** Non-fibrous 4.9 %			
FJF-1-B	208092383-23		NA/PS
12	**Location:** Floor Joint Fill Material; Exterior- West Side By Building Wall		
Analyst Description: Bulk Material **Asbestos Types:** **Other Material:**			

See Reporting notes on last page

PLM Bulk Asbestos Report

5815101; Kingsbridge Armory; 29 West Kingsbridge Road,
Bronx, New York

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
WPG-1-A	208092383-24	***Yes***	7.2 %
13	**Location:** Wooden Wall Panel Glue; 2nd Floor		(by NYS ELAP 198.6) by John P. Koubiadis on 09/15/08
Analyst Description: Brown, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** Chrysotile 7.2 % **Other Material:** Non-fibrous 48.7 %			
WPG-1-B	208092383-25		NA/PS
13	**Location:** Wooden Wall Panel Glue; 2nd Floor		
Analyst Description: Bulk Material **Asbestos Types:** **Other Material:**			
WGL-1-A	208092383-26	***No***	NAD
14	**Location:** Glue Attached With Cork Wall Tiles; 1st Floor Mezzanine		(by NYS ELAP 198.6) by John P. Koubiadis on 09/15/08
Analyst Description: Brown, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 45.4 %			
WGL-1-B	208092383-27	***No***	NAD
14	**Location:** Glue Attached With Cork Wall Tiles; 1st Floor Mezzanine		(by NYS ELAP 198.6) by John P. Koubiadis on 09/15/08
Analyst Description: Brown, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 44.4 %			
MG-1-A	208092383-28	***Yes***	3.2 %
15	**Location:** Mastic Attached With Mirrors On The Wall; 2nd Floor		(by NYS ELAP 198.6) by John P. Koubiadis on 09/15/08
Analyst Description: Black, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** Chrysotile 3.2 % **Other Material:** Non-fibrous 55.1 %			
MG-1-B	208092383-29		NA/PS
15	**Location:** Mastic Attached With Mirrors On The Wall; 2nd Floor		
Analyst Description: Bulk Material **Asbestos Types:** **Other Material:**			

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PLM Bulk Asbestos Report

5815101; Kingsbridge Armory; 29 West Kingsbridge Road,
Bronx, New York

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
IDC-1-A 16	208092383-30 **Location:** Interior Door Caulking; Basement	***Yes***	6.1 % (by NYS ELAP 198.6) by John P. Koubiadis on 09/15/08
Analyst Description: Grey, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** Chrysotile 3.0 %, Anthophyllite 3.0 % **Other Material:** Fibrous Talc 10 %, Non-fibrous 34 %			
IDC-1-B 16	208092383-31 **Location:** Interior Door Caulking; Basement		NA/PS
Analyst Description: Bulk Material **Asbestos Types:** **Other Material:**			
DC-1-A 17	208092383-32 **Location:** Door Caulking; Exterior	***Yes***	2.4 % (by NYS ELAP 198.6) by John P. Koubiadis on 09/15/08
Analyst Description: Black, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** Chrysotile 2.4 %, Anthophyllite <1 % pc **Other Material:** Fibrous glass 5 %, Non-fibrous 30.1 %			
DC-1-B 17	208092383-33 **Location:** Door Caulking; Exterior		NA/PS
Analyst Description: Bulk Material **Asbestos Types:** **Other Material:**			
WC-1-A 18	208092383-34 **Location:** Window Caulking; Exterior	***Yes***	3.4 % (by NYS ELAP 198.6) by John P. Koubiadis on 09/15/08
Analyst Description: Grey, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** Chrysotile 1.7 %, Anthophyllite 1.7 % **Other Material:** Fibrous Talc 5 %, Non-fibrous 34.5 %			
WC-1-B 18	208092383-35 **Location:** Window Caulking; Exterior		NA/PS
Analyst Description: Bulk Material **Asbestos Types:** **Other Material:**			

See Reporting notes on last page

PLM Bulk Asbestos Report

5815101; Kingsbridge Armory; 29 West Kingsbridge Road,
Bronx, New York

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
BBM-1-A 19	208092383-36L1 **Location:** Covebase; Basement- Mezzanine	***No***	NAD (by NYS ELAP 198.6) by John P. Koubiadis on 09/15/08
Analyst Description: Black, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 27.5 %			
BBM-1-A 19	208092383-36L2 **Location:** Covebase Mastic; Basement- Mezzanine	***No***	NAD (by NYS ELAP 198.6) by John P. Koubiadis on 09/15/08
Analyst Description: Tan, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 0.2 %			
BBM-1-B 19	208092383-37L1 **Location:** Covebase; Basement- Mezzanine	***No***	NAD (by NYS ELAP 198.6) by John P. Koubiadis on 09/15/08
Analyst Description: Black, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 25.9 %			
BBM-1-B 19	208092383-37L2 **Location:** Covebase Mastic; Basement- Mezzanine	***No***	NAD (by NYS ELAP 198.6) by John P. Koubiadis on 09/15/08
Analyst Description: Tan, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 0.9 %			
BBM-2-A 20	208092383-38L1 **Location:** 6" Black Covebase; 2nd Floor	***No***	NAD (by NYS ELAP 198.6) by John P. Koubiadis on 09/15/08
Analyst Description: Black, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 11.8 %			
BBM-2-A 20	208092383-38L2 **Location:** 6" Black Covebase Mastic; 2nd Floor	***No***	NAD (by NYS ELAP 198.6) by John P. Koubiadis on 09/15/08
Analyst Description: Tan, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 0.3 %			

See Reporting notes on last page

PLM Bulk Asbestos Report

5815101; Kingsbridge Armory; 29 West Kingsbridge Road,
Bronx, New York

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
BBM-2-B 20	208092383-39L1 **Location:** 6" Black Covebase; 2nd Floor	***No***	NAD (by NYS ELAP 198.6) by John P. Koubiadis on 09/15/08
Analyst Description: Black, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 29.3 %			
BBM-2-B 20	208092383-39L2 **Location:** 6" Black Covebase Mastic; 2nd Floor	***No***	NAD (by NYS ELAP 198.6) by John P. Koubiadis on 09/15/08
Analyst Description: Tan, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 0.6 %			
FC-1-A 21	208092383-40 **Location:** Black Linoleum Floor Covering; Basement Mezzanine	***No***	NAD (by NYS ELAP 198.6) by John P. Koubiadis on 09/15/08
Analyst Description: Brown, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 19.1 %			
FC-1-B 21	208092383-41 **Location:** Black Linoleum Floor Covering; Basement Mezzanine	***No***	NAD (by NYS ELAP 198.6) by John P. Koubiadis on 09/15/08
Analyst Description: Brown, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 18 %			
FC-2-A 22	208092383-42 **Location:** Brown Linoleum Floor Covering; Middle Stair Room Basement Mezzanine	***No***	NAD (by NYS ELAP 198.6) by John P. Koubiadis on 09/15/08
Analyst Description: Brown, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 16.3 %			
FC-2-B 22	208092383-43 **Location:** Brown Linoleum Floor Covering; Middle Stair Room Basement Mezzanine	***No***	NAD (by NYS ELAP 198.6) by John P. Koubiadis on 09/15/08
Analyst Description: Brown, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 16.1 %			

See Reporting notes on last page

PLM Bulk Asbestos Report

5815101; Kingsbridge Armory; 29 West Kingsbridge Road,
Bronx, New York

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
FT-1-A	208092383-44	***Yes***	4 %
23	**Location:** 9" Sq. Beige Floor Tiles/ No Mastic; Basement- North Side		(by NYS ELAP 198.6) by John P. Koubiadis on 09/15/08
Analyst Description: Tan, Homogeneous, Non-Fibrous, Bulk Material			
Asbestos Types: Chrysotile 4.0 %			
Other Material: Non-fibrous 17.8 %			
FT-1-B	208092383-45		NA/PS
23	**Location:** 9" Sq. Beige Floor Tiles/ No Mastic; Basement- North Side		
Analyst Description: Bulk Material			
Asbestos Types:			
Other Material:			
FT-2A	208092383-46L1	***No***	NAD
24	**Location:** L1: 12" Sq. White Floor Tile; Basement- Mezzanine		(by NYS ELAP 198.6) by John P. Koubiadis on 09/15/08
Analyst Description: OffWhite, Homogeneous, Non-Fibrous, Bulk Material			
Asbestos Types:			
Other Material: Non-fibrous 0.9 %			
FT-2A	208092383-46L2	***No***	NAD
24	**Location:** L1: 12" Sq. White Floor Tile Mastic; Basement- Mezzanine		(by NYS ELAP 198.6) by John P. Koubiadis on 09/15/08
Analyst Description: Tan, Homogeneous, Non-Fibrous, Bulk Material			
Asbestos Types:			
Other Material: Non-fibrous 1.5 %			
FT-2A	208092383-46L3	***No***	NAD
24	**Location:** L2: 12" Sq. Beige Floor Tile; Basement- Mezzanine		(by NYS ELAP 198.6) by John P. Koubiadis on 09/15/08
Analyst Description: Tan, Homogeneous, Non-Fibrous, Bulk Material			
Asbestos Types:			
Other Material: Non-fibrous 6.4 %			
FT-2A	208092383-46L4	***No***	NAD
24	**Location:** L2: 12" Sq. Beige Floor Tile Mastic; Basement- Mezzanine		(by NYS ELAP 198.6) by John P. Koubiadis on 09/15/08
Analyst Description: Black, Homogeneous, Non-Fibrous, Bulk Material			
Asbestos Types:			
Other Material: Non-fibrous 5.6 %			

See Reporting notes on last page

PLM Bulk Asbestos Report

5815101; Kingsbridge Armory; 29 West Kingsbridge Road,
Bronx, New York

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
FT-2-B 24	208092383-47L1 **Location:** L1: 12" Sq. White Floor Tiles; Basement- Mezzanine	***No***	NAD (by NYS ELAP 198.6) by John P. Koubiadis on 09/15/08
Analyst Description: OffWhite, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 1.8 %			
FT-2-B 24	208092383-47L2 **Location:** L1: 12" Sq. White Floor Tiles Mastic; Basement- Mezzanine	***No***	NAD (by NYS ELAP 198.6) by John P. Koubiadis on 09/15/08
Analyst Description: Tan, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 2.7 %			
FT-2-B 24	208092383-47L3 **Location:** L2: 12" Sq. Beige Floor Tiles; Basement- Mezzanine	***No***	NAD (by NYS ELAP 198.6) by John P. Koubiadis on 09/15/08
Analyst Description: Tan, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 3.4 %			
FT-2-B 24	208092383-47L4 **Location:** L2: 12" Sq. Beige Floor Tiles Mastic; Basement- Mezzanine	***No***	NAD (by NYS ELAP 198.6) by John P. Koubiadis on 09/15/08
Analyst Description: Black, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 5.6 %			
FT-2-C 24	208092383-48L1 **Location:** 12" Sq. Beige Floor Tiles - Only 1 Layer; Basement- Mezzanine	***No***	NAD (by NYS ELAP 198.6) by John P. Koubiadis on 09/15/08
Analyst Description: Tan, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 6.9 %			
FT-2-C 24	208092383-48L2 **Location:** 12" Sq. Beige Floor Tiles Mastic- Only 1 Layer; Basement- Mezzanine	***No***	NAD (by NYS ELAP 198.6) by John P. Koubiadis on 09/15/08
Analyst Description: Black, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 7 %			

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PLM Bulk Asbestos Report

5815101; Kingsbridge Armory; 29 West Kingsbridge Road,
Bronx, New York

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
FT-3-A 25	208092383-49L1 **Location:** Black Floor Tiles; Basement- Mezzanine Under Plywood & FT-2	***Yes***	6.9 % (by NYS ELAP 198.6) by John P. Koubiadis on 09/15/08
Analyst Description: Black, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** Chrysotile 6.9 % **Other Material:** Non-fibrous 34.6 %			
FT-3-A 25	208092383-49L2 **Location:** Black Floor Tile Mastic/ Felt Paper; Basement- Mezzanine Under Plywood & FT-2	***No***	NAD (by NYS ELAP 198.6) by John P. Koubiadis on 09/15/08
Analyst Description: Black, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 10.8 %			
FT-3-B 25	208092383-50L1 **Location:** Black Floor Tiles; Basement- Mezzanine Under Plywood & FT-2		NA/PS
Analyst Description: Bulk Material **Asbestos Types:** **Other Material:**			
FT-3-B 25	208092383-50L2 **Location:** Black Floor Tile Mastic/ Felt Paper; Basement- Mezzanine Under Plywood & FT-2	***Yes***	Trace (<0.25 % pc) (ELAP 198.6; 400pc) by John P. Koubiadis on 09/15/08
Analyst Description: Black, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** Chrysotile <0.25 % pc **Other Material:** Non-fibrous 9.8 %			
FT-4-A 26	208092383-51L1 **Location:** 12" Sq. Tan Wood Design Floor Tiles; 1st Floor- Mezzanine	***Yes***	5.5 % (by NYS ELAP 198.6) by John P. Koubiadis on 09/15/08
Analyst Description: Grey, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** Chrysotile 5.5 % **Other Material:** Non-fibrous 23.5 %			
FT-4-A 26	208092383-51L2 **Location:** 12" Sq. Tan Wood Design Floor Tiles Mastic; 1st Floor- Mezzanine	***No***	NAD (by NYS ELAP 198.6) by John P. Koubiadis on 09/15/08
Analyst Description: Brown/Black, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 19.5 %			

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PLM Bulk Asbestos Report

5815101; Kingsbridge Armory; 29 West Kingsbridge Road,
Bronx, New York

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
FT-4-B 26	208092383-52L1 **Location:** 12" Sq. Tan Wood Design Floor Tiles; 1st Floor- Mezzanine		NA/PS
Analyst Description: Bulk Material **Asbestos Types:** **Other Material:**			
FT-4-B 26	208092383-52L2 **Location:** 12" Sq. Tan Wood Design Floor Tiles Mastic; 1st Floor- Mezzanine	***No***	NAD (by NYS ELAP 198.6) by John P. Koubiadis on 09/15/08
Analyst Description: Brown/Black, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 19.8 %			
FT-5-A 27	208092383-53L1 **Location:** 12" Sq. Terra Cotta Red With Brown Spackles FT; 2nd Floor	***Yes***	3.7 % (by NYS ELAP 198.6) by John P. Koubiadis on 09/15/08
Analyst Description: Red, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** Chrysotile 3.7 % **Other Material:** Non-fibrous 25.7 %			
FT-5-A 27	208092383-53L2 **Location:** 12" Sq. Terra Cotta Red With Brown Spackles FT Mastic; 2nd Floor	***No***	NAD (by NYS ELAP 198.6) by John P. Koubiadis on 09/15/08
Analyst Description: Tan, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 27.1 %			
FT-5-B 27	208092383-54L1 **Location:** 12" Sq. Terra Cotta Red With Brown Spackles FT; 2nd Floor		NA/PS
Analyst Description: Bulk Material **Asbestos Types:** **Other Material:**			
FT-5-B 27	208092383-54L2 **Location:** 12" Sq. Terra Cotta Red With Brown Spackles FT Mastic; 2nd Floor	***No***	NAD (by NYS ELAP 198.6) by John P. Koubiadis on 09/15/08
Analyst Description: Tan, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 29.1 %			

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PLM Bulk Asbestos Report

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Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
FT-6-A 28	208092383-55L1 **Location:** 12" Sq. Dark Brown Floor Tile; 2nd Floor	***No***	NAD (by NYS ELAP 198.6) by John P. Koubiadis on 09/15/08
Analyst Description: Grey, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 11.5 %			
FT-6-A 28	208092383-55L2 **Location:** 12" Sq. Dark Brown Floor Tile Mastic; 2nd Floor	***No***	NAD (by NYS ELAP 198.6) by John P. Koubiadis on 09/15/08
Analyst Description: Black, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 19.8 %			
FT-6-B 28	208092383-56L1 **Location:** 12" Sq. Dark Brown Floor Tile; 2nd Floor	***No***	NAD (by NYS ELAP 198.6) by John P. Koubiadis on 09/15/08
Analyst Description: Grey, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 11.3 %			
FT-6-B 28	208092383-56L2 **Location:** 12" Sq. Dark Brown Floor Tile Mastic; 2nd Floor	***No***	NAD (by NYS ELAP 198.6) by John P. Koubiadis on 09/15/08
Analyst Description: Black, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 12.7 %			
MA-1-A 29	208092383-57 **Location:** Mastic Attached With 9" Sq. Red Floor Tiles (No FT); Middle Stair Room Basement- Mezzanine	***No***	NAD (by NYS ELAP 198.6) by John P. Koubiadis on 09/15/08
Analyst Description: Black, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 9.7 %			
MA-1-B 29	208092383-58 **Location:** Mastic Attached With 9" Sq. Red Floor Tiles (No FT); Middle Stair Room Basement- Mezzanine	***No***	NAD (by NYS ELAP 198.6) by John P. Koubiadis on 09/15/08
Analyst Description: Black, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 24.8 %			

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PLM Bulk Asbestos Report

5815101; Kingsbridge Armory; 29 West Kingsbridge Road,
Bronx, New York

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
MA-2-A 30	208092383-59 **Location:** Mastic/ Felt Paper Attached With 9" Sq. Brown Floor Tiles; 1st Floor	***No***	NAD (by NYS ELAP 198.6) by John P. Koubiadis on 09/15/08
Analyst Description: Black, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 10.7 %			
MA-2-B 30	208092383-60 **Location:** Mastic/ Felt Paper Attached With 9" Sq. Brown Floor Tiles; 1st Floor	***No***	NAD (by NYS ELAP 198.6) by John P. Koubiadis on 09/15/08
Analyst Description: Black, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 11.8 %			
MA-3-A 31	208092383-61 **Location:** Mastic/ Felt Paper Attached With 9" Sq. Black Floor Tiles; 1st Floor	***No***	NAD (by NYS ELAP 198.6) by John P. Koubiadis on 09/15/08
Analyst Description: Black, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 2.7 %			
MA-3-B 31	208092383-62 **Location:** Mastic/ Felt Paper Attached With 9" Sq. Black Floor Tiles; 1st Floor	***No***	NAD (by NYS ELAP 198.6) by John P. Koubiadis on 09/15/08
Analyst Description: Black, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 1.9 %			
MA-4-A 32	208092383-63 **Location:** Mastic/ Felt Paper Attached With 9" Sq. Blue Floor Tiles; 1st Floor	***No***	NAD (by NYS ELAP 198.6) by John P. Koubiadis on 09/15/08
Analyst Description: Black, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 11.4 %			
MA-4-B 32	208092383-64 **Location:** Mastic/ Felt Paper Attached With 9" Sq. Blue Floor Tiles; 1st Floor	***No***	NAD (by NYS ELAP 198.6) by John P. Koubiadis on 09/15/08
Analyst Description: Black, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 10.7 %			

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PLM Bulk Asbestos Report

5815101; Kingsbridge Armory; 29 West Kingsbridge Road,
Bronx, New York

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
MA-5-A	208092383-65	***No***	NAD
33	**Location:** Mastic Attached With 9" Sq. Wood Design Floor Tiles; 1st Floor- Mezzanine		(by NYS ELAP 198.6) by John P. Koubiadis on 09/15/08
Analyst Description: Black, Homogeneous, Non-Fibrous, Bulk Material			
Asbestos Types:			
Other Material: Non-fibrous 6.8 %			
MA-5-B	208092383-66	***No***	NAD
33	**Location:** Mastic Attached With 9" Sq. Wood Design Floor Tiles; 1st Floor- Mezzanine		(by NYS ELAP 198.6) by John P. Koubiadis on 09/15/08
Analyst Description: Black, Homogeneous, Non-Fibrous, Bulk Material			
Asbestos Types:			
Other Material: Non-fibrous 4.3 %			

Reporting Notes:

Analyzed by: John P. Koubiadis

*NAD/NSD =no asbestos detected; NA =not analyzed; NA/PS=not analyzed/positive stop; PLM Bulk Asbestos Analysis by EPA 600/M4-82-020 per 40 CFR 763 (NVLAP Lab Code 200546-0), ELAP PLM Method 198.1 for NY friable samples or 198.6 for NOB samples (NY ELAP Lab ID11480); Note:PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. NAD or Trace results by PLM are inconclusive, TEM is currently the only method that can be used to determine if this material can be considered or treated as non asbestos-containing in NY State (also see EPA Advisory for floor tile,FR 59,146,38970,8/1/94). National Institute of Standards and Technology Accreditation requirements mandate that this report must not be reproduced except in full without the approval of the lab. This PLM report relates ONLY to the items tested. AIHA Lab # 102843.

Reviewed By:

END OF REPORT

Table I
Summary of Bulk Asbestos Analysis Results
5815101; Kingsbridge Armory; 29 West Kingsbridge Road, Bronx, New York

AmeriSci Sample #	Client Sample#	HG Area	Sample Weight (gram)	Heat Sensitive Organic %	Acid Soluble Inorganic %	Insoluble Non-Asbestos Inorganic %	** Asbestos % by PLM/DS	** Asbestos % by TEM
01	PYB-1-A	1	----	----	----	----	NAD	NA
Location:	Pyro Blocks; 1st Floor							
02	PYB-1-B	1	----	----	----	----	NAD	NA
Location:	Pyro Blocks; 1st Floor							
03	BG-1-A	2	----	----	----	----	NAD	NA
Location:	Boiler Gasket; Boiler Room In Sub Basement							
04	BG-1-B	2	----	----	----	----	NAD	NA
Location:	Boiler Gasket; Boiler Room In Sub Basement							
05	BEP-1-A	3	----	----	----	----	NAD	NA
Location:	Boiler Edge Patch Material; Boiler Room In Sub Basement							
06	BEP-1-B	3	----	----	----	----	NAD	NA
Location:	Boiler Edge Patch Material; Boiler Room In Sub Basement							
07	PB-1-A	4	----	----	----	----	NAD	NA
Location:	Pressboard Material; Basement							
08	PB-1-B	4	----	----	----	----	NAD	NA
Location:	Pressboard Material; Basement							
09	WI-1-A	5	1.276	19.2	17.9	48.9	Chrysotile 14.0	NA
Location:	Wire Wrap Insulation; Seating Area							
10	WI-1-B	5	1.123	21.8	16.9	61.3	NA/PS	NA
Location:	Wire Wrap Insulation; Seating Area							
11	EB-1-A	6	----	----	----	----	NAD	NA
Location:	Electric Panel Board; Basement							
12	EB-1-B	6	----	----	----	----	NAD	NA
Location:	Electric Panel Board; Basement							
13	SSB-1-A	7	----	----	----	----	NAD	NA
Location:	Safety Switch Backing Material; Seat Level							
14	SSB-1-B	7	----	----	----	----	NAD	NA
Location:	Safety Switch Backing Material; Seat Level							
15	TR-1-A	8	----	----	----	----	Chrysotile 22.2	NA
Location:	Transite Electrical Panel; 1st Floor							
16	TR-1-B	8	----	----	----	----	NA/PS	NA
Location:	Transite Electrical Panel; 1st Floor							

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AmeriSci Sample #	Client Sample#	HG Area	Sample Weight (gram)	Heat Sensitive Organic %	Acid Soluble Inorganic %	Insoluble Non-Asbestos Inorganic %	** Asbestos % by PLM/DS	** Asbestos % by TEM
17	DB-1-A	9	----	----	----	----	Chrysotile 50.0	NA
Location:	Debris On The Floor Pipe Insulation; Basement							
18	DB-1-B	9	----	----	----	----	NA/PS	NA
Location:	Debris On The Floor Pipe Insulation; Basement							
19	FLEX-1-A	10	----	----	----	----	NAD	NA
Location:	Vibration Damper Cloth; Basement							
20	FLEX-1-B	10	----	----	----	----	NAD	NA
Location:	Vibration Damper Cloth; Basement							
21	MPJ-1-A	11	----	----	----	----	Chrysotile 44.4	NA
Location:	Mud Pack Pipe Joint Attached With Old Fiberglass Pipe Insulation; Center Restroom On South Side- Basement							
22	FJF-1-A	12	0.172	90.1	3.5	4.9	Chrysotile 1.5	NA
Location:	Floor Joint Fill Material; Exterior- West Side By Building Wall							
23	FJF-1-B	12	0.382	75.9	3.9	20.2	NA/PS	NA
Location:	Floor Joint Fill Material; Exterior- West Side By Building Wall							
24	WPG-1-A	13	1.298	34.9	9.2	48.7	Chrysotile 7.2	NA
Location:	Wooden Wall Panel Glue; 2nd Floor							
25	WPG-1-B	13	0.565	32.2	27.4	40.4	NA/PS	NA
Location:	Wooden Wall Panel Glue; 2nd Floor							
26	WGL-1-A	14	0.425	52.5	2.1	45.4	NAD	NAD
Location:	Glue Attached With Cork Wall Tiles; 1st Floor Mezzanine							
27	WGL-1-B	14	0.432	53.7	1.9	44.4	NAD	NAD
Location:	Glue Attached With Cork Wall Tiles; 1st Floor Mezzanine							
28	MG-1-A	15	0.504	25.2	16.5	55.1	Chrysotile 3.2	NA
Location:	Mastic Attached With Mirrors On The Wall; 2nd Floor							
29	MG-1-B	15	0.361	27.4	17.2	55.4	NA/PS	NA
Location:	Mastic Attached With Mirrors On The Wall; 2nd Floor							
30	IDC-1-A	16	0.795	27.2	22.8	44.0	Chrysotile 3.0	NA
Location:	Interior Door Caulking; Basement						Anthophyllite 3.0	
31	IDC-1-B	16	0.507	28.8	22.1	49.1	NA/PS	NA
Location:	Interior Door Caulking; Basement							
32	DC-1-A	17	0.451	53.4	9.1	35.1	Chrysotile 2.4	NA
Location:	Door Caulking; Exterior						Anthophyllite <1	

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AmeriSci Sample #	Client Sample#	HG Area	Sample Weight (gram)	Heat Sensitive Organic %	Acid Soluble Inorganic %	Insoluble Non-Asbestos Inorganic %	** Asbestos % by PLM/DS	** Asbestos % by TEM
33	DC-1-B	17	0.803	38.1	10.6	51.3	NA/PS	NA
Location:	Door Caulking; Exterior							
34	WC-1-A	18	0.198	41.9	15.2	39.5	Chrysotile 1.7	NA
Location:	Window Caulking; Exterior						Anthophyllite 1.7	
35	WC-1-B	18	0.484	39.3	12.0	48.8	NA/PS	NA
Location:	Window Caulking; Exterior							
36L1	BBM-1-A	19	0.364	40.9	31.6	27.5	NAD	NAD
Location:	Covebase; Basement- Mezzanine							
36L2	BBM-1-A	19	0.416	30.3	69.5	0.2	NAD	NAD
Location:	Covebase Mastic; Basement- Mezzanine							
37L1	BBM-1-B	19	0.482	42.3	31.7	25.9	NAD	NAD
Location:	Covebase; Basement- Mezzanine							
37L2	BBM-1-B	19	0.435	31.0	68.0	0.9	NAD	NAD
Location:	Covebase Mastic; Basement- Mezzanine							
38L1	BBM-2-A	20	0.363	37.2	51.0	11.8	NAD	NAD
Location:	6" Black Covebase; 2nd Floor							
38L2	BBM-2-A	20	0.312	28.8	70.8	0.3	NAD	NAD
Location:	6" Black Covebase Mastic; 2nd Floor							
39L1	BBM-2-B	20	0.559	38.3	32.4	29.3	NAD	NAD
Location:	6" Black Covebase; 2nd Floor							
39L2	BBM-2-B	20	0.344	27.3	72.1	0.6	NAD	NAD
Location:	6" Black Covebase Mastic; 2nd Floor							
40	FC-1-A	21	0.747	71.8	9.1	19.1	NAD	NAD
Location:	Black Linoleum Floor Covering; Basement Mezzanine							
41	FC-1-B	21	0.668	71.1	10.9	18.0	NAD	NAD
Location:	Black Linoleum Floor Covering; Basement Mezzanine							
42	FC-2-A	22	0.719	72.9	10.8	16.3	NAD	NAD
Location:	Brown Linoleum Floor Covering; Middle Stair Room Basement Mezzanine							
43	FC-2-B	22	0.669	72.9	10.9	16.1	NAD	NAD
Location:	Brown Linoleum Floor Covering; Middle Stair Room Basement Mezzanine							
44	FT-1-A	23	0.239	20.1	58.2	17.8	Chrysotile 4.0	NA
Location:	9" Sq. Beige Floor Tiles/ No Mastic; Basement- North Side							

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AmeriSci Sample #	Client Sample#	HG Area	Sample Weight (gram)	Heat Sensitive Organic %	Acid Soluble Inorganic %	Insoluble Non-Asbestos Inorganic %	** Asbestos % by PLM/DS	** Asbestos % by TEM
45	FT-1-B	23	0.604	20.9	47.5	31.6	NA/PS	NA
Location:	9" Sq. Beige Floor Tiles/ No Mastic; Basement- North Side							
46L1	FT-2A	24	0.999	11.5	87.6	0.9	NAD	NAD
Location:	L1: 12" Sq. White Floor Tile; Basement- Mezzanine							
46L2	FT-2A	24	0.067	22.4	76.1	1.5	NAD	NAD
Location:	L1: 12" Sq. White Floor Tile Mastic; Basement- Mezzanine							
46L3	FT-2A	24	0.327	21.7	71.9	6.4	NAD	NAD
Location:	L2: 12" Sq. Beige Floor Tile; Basement- Mezzanine							
46L4	FT-2A	24	0.393	25.7	68.7	5.6	NAD	NAD
Location:	L2: 12" Sq. Beige Floor Tile Mastic; Basement- Mezzanine							
47L1	FT-2-B	24	0.621	11.0	87.3	1.8	NAD	NAD
Location:	L1: 12" Sq. White Floor Tiles; Basement- Mezzanine							
47L2	FT-2-B	24	0.112	22.3	75.0	2.7	NAD	NAD
Location:	L1: 12" Sq. White Floor Tiles Mastic; Basement- Mezzanine							
47L3	FT-2-B	24	0.667	22.6	73.9	3.4	NAD	NAD
Location:	L2: 12" Sq. Beige Floor Tiles; Basement- Mezzanine							
47L4	FT-2-B	24	0.213	39.9	54.5	5.6	NAD	NAD
Location:	L2: 12" Sq. Beige Floor Tiles Mastic; Basement- Mezzanine							
48L1	FT-2-C	24	0.549	21.1	71.9	6.9	NAD	NAD
Location:	12" Sq. Beige Floor Tiles - Only 1 Layer; Basement- Mezzanine							
48L2	FT-2-C	24	0.270	65.6	27.4	7.0	NAD	NAD
Location:	12" Sq. Beige Floor Tiles Mastic- Only 1 Layer; Basement- Mezzanine							
49L1	FT-3-A		0.337	27.6	30.9	41.5	Chrysotile 6.9	NA
Location:	Black Floor Tiles; Basement- Mezzanine Under Plywood & FT-2							
49L2	FT-3-A	25	0.167	80.8	8.4	10.8	NAD	NAD
Location:	Black Floor Tile Mastic/ Felt Paper; Basement- Mezzanine Under Plywood & FT-2							
50L1	FT-3-B		0.414	28.7	27.1	44.2	NA	NA
Location:	Black Floor Tiles; Basement- Mezzanine Under Plywood & FT-2							
50L2	FT-3-B	25	0.214	81.8	8.4	7.8	Chrysotile <0.25	Chrysotile 2.0
Location:	Black Floor Tile Mastic/ Felt Paper; Basement- Mezzanine Under Plywood & FT-2							
51L1	FT-4-A	26	1.003	26.3	44.7	23.5	Chrysotile 5.5	NA
Location:	12" Sq. Tan Wood Design Floor Tiles; 1st Floor- Mezzanine							

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AmeriSci Sample #	Client Sample#	HG Area	Sample Weight (gram)	Heat Sensitive Organic %	Acid Soluble Inorganic %	Insoluble Non-Asbestos Inorganic %	** Asbestos % by PLM/DS	** Asbestos % by TEM
51L2	FT-4-A	26	0.215	54.4	26.0	19.5	NAD	NAD
Location:	12" Sq. Tan Wood Design Floor Tiles Mastic; 1st Floor- Mezzanine							
52L1	FT-4-B	26	0.590	26.8	44.7	28.5	NA/PS	NA
Location:	12" Sq. Tan Wood Design Floor Tiles; 1st Floor- Mezzanine							
52L2	FT-4-B	26	0.177	58.8	21.5	19.8	NAD	NAD
Location:	12" Sq. Tan Wood Design Floor Tiles Mastic; 1st Floor- Mezzanine							
53L1	FT-5-A	27	0.562	23.7	47.0	25.7	Chrysotile 3.7	NA/PS
Location:	12" Sq. Terra Cotta Red With Brown Spackles FT; 2nd Floor							
53L2	FT-5-A	27	0.059	39.0	33.9	21.7	NAD	Chrysotile 5.4
Location:	12" Sq. Terra Cotta Red With Brown Spackles FT Mastic; 2nd Floor							
54L1	FT-5-B	27	0.266	24.4	54.5	21.1	NA/PS	NA/PS
Location:	12" Sq. Terra Cotta Red With Brown Spackles FT; 2nd Floor							
54L2	FT-5-B	27	0.086	50.0	20.9	29.1	NAD	NA/PS
Location:	12" Sq. Terra Cotta Red With Brown Spackles FT Mastic; 2nd Floor							
55L1	FT-6-A	28	0.617	24.8	63.7	11.4	NAD	Chrysotile Trace
Location:	12" Sq. Dark Brown Floor Tile; 2nd Floor							
55L2	FT-6-A	28	0.167	62.3	18.0	19.6	NAD	Chrysotile <1.0
Location:	12" Sq. Dark Brown Floor Tile Mastic; 2nd Floor							
56L1	FT-6-B	28	0.586	24.1	64.7	11.3	NAD	NAD
Location:	12" Sq. Dark Brown Floor Tile; 2nd Floor							
56L2	FT-6-B	28	0.063	57.1	30.2	12.7	NAD	NAD
Location:	12" Sq. Dark Brown Floor Tile Mastic; 2nd Floor							
57	MA-1-A	29	0.093	63.4	26.9	8.2	NAD	Chrysotile 1.5
Location:	Mastic Attached With 9" Sq. Red Floor Tiles (No FT); Middle Stair Room Basement- Mezzanine							
58	MA-1-B	29	0.105	50.5	24.8	24.8	NAD	NA/PS
Location:	Mastic Attached With 9" Sq. Red Floor Tiles (No FT); Middle Stair Room Basement- Mezzanine							
59	MA-2-A	30	0.197	84.8	4.6	10.6	NAD	Chrysotile Trace
Location:	Mastic/ Felt Paper Attached With 9" Sq. Brown Floor Tiles; 1st Floor							
60	MA-2-B	30	0.451	84.0	4.2	11.7	NAD	Chrysotile Trace
Location:	Mastic/ Felt Paper Attached With 9" Sq. Brown Floor Tiles; 1st Floor							
61	MA-3-A	31	0.291	91.4	5.8	2.6	NAD	Chrysotile Trace
Location:	Mastic/ Felt Paper Attached With 9" Sq. Black Floor Tiles; 1st Floor							

See Reporting notes on last page

Table I
Summary of Bulk Asbestos Analysis Results
5815101; Kingsbridge Armory; 29 West Kingsbridge Road, Bronx, New York

AmeriSci Sample #	Client Sample#	HG Area	Sample Weight (gram)	Heat Sensitive Organic %	Acid Soluble Inorganic %	Insoluble Non-Asbestos Inorganic %	** Asbestos % by PLM/DS	** Asbestos % by TEM
62	MA-3-B	31	0.212	93.4	4.7	1.8	NAD	Chrysotile Trace
Location:	Mastic/ Felt Paper Attached With 9" Sq. Black Floor Tiles; 1st Floor							
63	MA-4-A	32	0.166	84.3	4.2	11.3	NAD	Chrysotile Trace
Location:	Mastic/ Felt Paper Attached With 9" Sq. Blue Floor Tiles; 1st Floor							
64	MA-4-B	32	0.140	85.0	4.3	10.7	NAD	NAD
Location:	Mastic/ Felt Paper Attached With 9" Sq. Blue Floor Tiles; 1st Floor							
65	MA-5-A	33	0.059	84.7	8.5	5.1	NAD	Chrysotile 1.7
Location:	Mastic Attached With 9" Sq. Wood Design Floor Tiles; 1st Floor- Mezzanine							
66	MA-5-B	33	0.138	88.4	7.2	4.3	NAD	NA/PS
Location:	Mastic Attached With 9" Sq. Wood Design Floor Tiles; 1st Floor- Mezzanine							

Analyzed by: Aleksandr Barengolts; Date Analyzed 9/15/2008

**Quantitative Analysis (Semi/Full); Bulk Asbestos Analysis - PLM by EPA 600/M4-82-020 per 40 CFR or ELAP 198.1 for New York friable samples or ELAP 198.6 for New York NOB samples; TEM (Semi/Full) by EPA 600/R-93/116 (not covered by NVLAP Bulk accreditation); or ELAP 198.4 for New York samples; NAD = no asbestos detected during a quantitative analysis; NA = not analyzed; Trace = <1%; Quantitation for beginning weights of <0.1 grams should be considered as qualitative only; Qualitative Analysis: Asbestos analysis results of "Present" or "NVA = No Visible Asbestos" represents results for Qualitative PLM or TEM Analysis only (no accreditation coverage available from any regulatory agency for qualitative analyses); AIHA Lab # 102843, NVLAP Lab Code 200546-0, NYSDOH ELAP LAB ID 11480.

Warning Note: PLM limitation, only TEM will resolve fibers <0.25 micrometers in diameter. TEM bulk analysis is representative of the fine grained matrix material and may not be representative of non-uniformly dispersed debris for which PLM evaluation is recommended (i.e. soils and other heterogenous materials).

Reviewed By:

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CHAIN OF CUSTODY RECORD / ANALYSIS REQUEST

Project Name:	Kingsbridge Armory	Project. No.:	5815101
Address:	29 West Kingsbridge Road	Auth. By:	Vijay Patel
Site Location:	Bronx, New York	Phone No:	(201) 794-6900
Sampled By:	M. Baran/S. Patel	License #:	103281
Company:	LANGAN		72hrs TAT

ANALYSIS REQUESTED: Asbestos: **XX** Lead:
BULK: **XX**

Sample ID Number	Description of Sample	Location	Sampling Date	PLM	PLM-NOB	TEM	AAS	TCLP
PYB-1-A	pyro-blocks	1st Floor	9/4,5 &8/08	X				
PYB-1-B	↓	↓	↓	X				
BG-1-A	Boiler Gasket	Boiler room in sub basement	↓	X	20809238 3 -			
BG-1-B	↓	↓	↓	X				
BEP-1-A	Boiler edge Patch materials	↓	↓	X				
BEP-1-B	↓	↓	↓	X				
PB-1-A	Pressboard material	Basement	↓	X				
PB-1-B	↓	↓	↓	X				
WI-1-A	Wire wrap insulation	seating area	↓	X				
WI-1-B	↓	↓	↓	X				

Total No. of Samples: 10

Laboratory Instructions/Turnaround Requested: 72hrs TAT

XXX Stop at first positive result for each homogeneous sample; Analyze by layer

Relinquished By: Sanjay Patel	DATE:	Received By:
Sanjay Patel	9/11/08	9/12
Fedex Delivery	TIME:	0937
Company: LANGAN		Company:

Relinquished By:	DATE:	Received By:
	TIME:	
Company: LANGAN		Company:

Laboratory Name & Address: **AmeriSci, NY**

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Fax: 203-789-6142

CHAIN OF CUSTODY RECORD / ANALYSIS REQUEST

Project Name:	Kingsbridge Armory	Project. No.:	5815101
Address:	29 West Kingsbridge Road	Auth. By:	Vijay Patel
Site Location:	Bronx, New York	Phone No:	(201) 794-6900
Sampled By:	M. Baran/S. Patel	License #:	103281
Company:	LANGAN		72hrs TAT

ANALYSIS REQUESTED: Asbestos: **XX** Lead:
BULK: **XX**

Sample ID Number	Description of Sample	Location	Sampling Date	PLM	PLM-NOB	TEM	AAS	TCLP
EB-1-A	Electric panel board	Basement	9/4,5 &8/08	X				
EB-1-B	↓	↓	↓	X				
SSB-1-A	Safety switch backing material	seat level	↓	X	20809283-			
SSB-1-B	↓	↓	↓	X				
TR-1-A	Transite electrical panel	1st Floor	↓	X				
TR-1-B	↓	↓	↓	X				
DB-1-A	Debris on the floor Pipe insulation	Basement	↓	X				
DB-1-B	↓	↓	↓	X				
FLEX-1-A	Vibration damper cloth	Basement	↓	X				
FLEX-1-B	↓	↓	↓	X				

Total No. of Samples: 10
Laboratory Instructions/Turnaround Requested: 72hrs TAT

XXX Stop at first positive result for each homogeneous sample; Analyze by layer

Relinquished By: Sanjay Patel	DATE:	Received By:
Sanjay Patel	9/11/08	9/12
Fedex Delivery	TIME:	1037
Company: LANGAN		Company:

Relinquished By:	DATE:	Received By:
	TIME:	
Company: LANGAN		Company:

Laboratory Name & Address: **AmeriSci, NY**

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CHAIN OF CUSTODY RECORD / ANALYSIS REQUEST

Project Name:	Kingsbridge Armory	Project. No.:	5815101
Address:	29 West Kingsbridge Road	Auth. By:	Vijay Patel
Site Location:	Bronx, New York	Phone No:	(201) 794-6900
Sampled By:	M. Baran/S. Patel	License #:	103281
Company:	LANGAN		72hrs TAT

ANALYSIS REQUESTED: Asbestos: XX — Lead:

BULK: XX

Sample ID Number	Description of Sample	Location	Sampling Date	PLM	PLM-NOB	TEM	AAS	TCLP
					208092383-			
MPJ-1-A	Mudpack pipe joint attached with old fiberglass pipe insulation	Center restroom on southside - Basement	9/4,5 &8/08	X				
FJF-1-A	Floor joint fill material	Exterior - Westside by building wall	↓	X	X	X		
FJF-1-B	↓	↓	↓	X	X	X		
WPG-1-A	Wooden wall panel glue	2nd floor	↓		X	X		
WPG-1-B	↓	↓	↓		X	X		
WGL-1-A	Glue attached with cork wall tiles	1st Floor Mezza-nine	↓		X	X		
WGL-1-B	↓	↓	↓		X	X		
MG-1-A	Mastic attached with mirrors on the wall	2nd Floor	↓		X	X		
MG-1-B	↓	↓	↓		X	X		
/	/	/	/					

Total No. of Samples: 09

Laboratory Instructions/Turnaround Requested: 72hrs TAT

XXX Stop at first positive result for each homogeneous sample; Analyze by layer

Relinquished By: Sanjay Patel	DATE:	Received By:
Sanjay Patel	9/11/08	9/12
Fedex Delivery	TIME:	
Company: LANGAN		Company: LOSF

Relinquished By:	DATE:	Received By:
	TIME:	
Company: LANGAN		Company:

Laboratory Name & Address: **AmeriSci, NY**

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				ANALYSIS REQUESTED: Asbestos: XX				Lead:
Project Name:	Kingsbridge Armory	Project. No.:	5815101	BULK: XX				
Address:	29 West Kingsbridge Road	Auth. By:	Vijay Patel					
Site Location:	Bronx, New York	Phone No:	(201) 794-6900					
Sampled By:	M. Baran/S. Patel	License #:	103281	PLM	PLM-NOB	TEM	AAS	TCLP
Company:	LANGAN		72hrs TAT					

Sample ID Number	Description of Sample	Location	Sampling Date					
IDC-1-A	Interior door caulking	Basement	9/4,5 &8/08		X	X		
IDC-1-B	↓	↓	↓		X	X		
DC-1-A	Door Caulking	Exterior	↓		X	X		
DC-1-B	↓	↓	↓		X	X		
WC-1-A	Window Caulking	↓	↓		X	X		
WC-1-B	↓	↓	↓		X	X		
BBM-1-A	Cove base and mastic	Basement - Mezzanine	↓		X	X		
BBM-1-B	↓	↓	↓		X	X		
BBM-2-A	6" black cove base and mastic	2nd floor	↓		X	X		
BBM-2-B	↓	↓	↓		X	X		

2080923833

Total No. of Samples: 10
Laboratory Instructions/Turnaround Requested: 72hrs TAT

XXX Stop at first positive result for each homogeneous sample; Analyze by layer

Relinquished By: Sanjay Patel	DATE:	Received By:
Sanjay Patel	9/11/08	9/12
Fedex Delivery	TIME:	1037
Company: LANGAN		Company:

Relinquished By:	DATE:	Received By:
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Company: LANGAN		Company:

Laboratory Name & Address: **AmeriSci, NY**

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				ANALYSIS REQUESTED: Asbestos: XX				Lead:
Project Name:	Kingsbridge Armory	Project. No.:	5815101	BULK: XX				
Address:	29 West Kingsbridge Road	Auth. By:	Vijay Patel					
Site Location:	Bronx, New York	Phone No:	(201) 794-6900	PLM	PLM-NOB	TEM	AAS	TCLP
Sampled By:	M. Baran/S. Patel	License #:	103281					
Company:	LANGAN		72hrs TAT					

Sample ID Number	Description of Sample	Location	Sampling Date	PLM	PLM-NOB	TEM	AAS	TCLP
FC-1-A	Black linoleum floor covering	Basement Mezzanine	9/4,5 &8/08		X	X		
FC-1-B	↓	↓	↓		X	X		
FC-2-A	Brown linoleum floor covering	Middle stair room Basement Mezzaine	↓		X	X		
FC-2-A	↓	↓	↓		X	X		
FT-1-A	9"sq. Beige floor tiles/ NO mastic	Basement - North side	↓		X	X		
FT-1-B	↓	↓	↓		X	X		
FT-2-A	L1: 12"sq. white floor tiles and mastic	Basement - Mezzanine	↓		X	X		
	L2: 12"sq. beige floor tiles and mastic	↓	↓		X	X		
FT-2-B	↓	↓	↓		X	X		
FT-2-C	12"sq. beige floor tiles and mastic - Only 1 layer	↓	↓		X	X		

2080923833

Total No. of Samples: 09

Laboratory Instructions/Turnaround Requested: 72hrs TAT

XXX Stop at first positive result for each homogeneous sample; Analyze by layer

Relinquished By: Sanjay Patel	DATE:	Received By:
Sanjay Patel	9/11/08	9/12 1037
Fedex Delivery	TIME:	
Company: LANGAN		Company:

Relinquished By:	DATE:	Received By:
	TIME:	
Company: LANGAN		Company:

Laboratory Name & Address: **AmeriSci, NY**

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CHAIN OF CUSTODY RECORD / ANALYSIS REQUEST

Project Name:	Kingsbridge Armory	Project. No.:	5815101
Address:	29 West Kingsbridge Road	Auth. By:	Vijay Patel
Site Location:	Bronx, New York	Phone No:	(201) 794-6900
Sampled By:	M. Baran/S. Patel	License #:	103281
Company:	LANGAN		72hrs TAT

Sample ID Number	Description of Sample	Location	Sampling Date	ANALYSIS REQUESTED: Asbestos: XX BULK: XX PLM	PLM-NOB	TEM	Lead: AAS	TCLP
FT-3-A	Black floor tiles and mastic/felt paper	Basement-Mezzanine under Plywood & FT-2	9/4,5 &8/08		X	X		
FT-3-B	↓	↓	↓		X	X		
FT-4-A	12" sq. tan wood design floor tiles and mastic	1st floor-Mezzanine			X	X	2080923	83
FT-4-B	↓	↓			X	X		
FT-5-A	12" sq. terra cotta red with brown speckles FT and mastic	2nd Floor			X	X		
FT-5-B	↓	↓			X	X		
FT-6-A	12" sq. dark brown floor tiles and mastic	2nd Floor			X	X		
FT-6-B	↓	↓			X	X		
MA-1-A	Mastic attached with 9" sq. red floor tiles (NO FT)	Middle stair room Basement-Mezzanine			X	X		
MA-1-B	↓	↓	↓		X	X		

Total No. of Samples: 10

Laboratory Instructions/Turnaround Requested: 72hrs TAT

XXX Stop at first positive result for each homogeneous sample; Analyze by layer

Relinquished By: Sanjay Patel	DATE:	Received By:
Sanjay Patel	9/11/08	9/12
Fedex Delivery	TIME:	0937
Company: LANGAN		Company:

Relinquished By:	DATE:	Received By:
	TIME:	
Company: LANGAN		Company:

Laboratory Name & Address: **AmeriSci, NY**

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Site Location:	Bronx, New York	Phone No:	(201) 794-6900
Sampled By:	M. Baran/S. Patel	License #:	103281
Company:	LANGAN		72hrs TAT

ANALYSIS REQUESTED: Asbestos: XX
BULK: XX
Lead:

Sample ID Number	Description of Sample	Location	Sampling Date	PLM	PLM-NOB	TEM	AAS	TCLP
MA-2-A	Mastic/Felt paper attached with 9" sq. brown floor tiles,	1st Floor	9/4,5 &8/08		X	X		
MA-2-B	↓	↓	↓		X	X		
MA-3-A	Mastic/Felt paper attached with 9"sq. black floor tiles	1st Floor			X	X		
MA-3-B	↓	↓	↓		X	X		
MA-4-A	Mastic/Felt attached with 9" sq. blue floor tiles	1st Floor			X	X		
MA-4-B	↓	↓	↓		X	X		
MA-5-A	Mastic attached with 9" sq. wood design floor tiles	1st Floor-Mezzanine			X	X		
MA-5-B	↓	↓	↓		X	X		

2080923837

Total No. of Samples: 08

Laboratory Instructions/Turnaround Requested: 72hrs TAT

XXX Stop at first positive result for each homogeneous sample; Analyze by layer

Relinquished By: Sanjay Patel	DATE:	Received By:
Sanjay Patel	9/11/08	9/12
Fedex Delivery	TIME:	1037
Company: LANGAN		Company:

Relinquished By:	DATE:	Received By:
	TIME:	
Company: LANGAN		Company:

Laboratory Name & Address: **AmeriSci, NY**

Langan Certifications/ Laboratory Accreditations

LANGAN

NEW YORK STATE - DEPARTMENT OF LABOR
DIVISION OF SAFETY AND HEALTH
LICENSE AND CERTIFICATE UNIT
STATE CAMPUS BUILDING 12
ALBANY, NY 12240

ASBESTOS HANDLING LICENSE

Langan Engineering And Environmental Services, Inc.
River Drive Center One
619 River Drive
Elmwood Park, NJ 07407

FILE NUMBER: 99-0273
LICENSE NUMBER: 29702
LICENSE CLASS: RESTRICTED
DATE OF ISSUE: 06/10/2008
EXPIRATION DATE: 06/30/2009

Duly Authorized Representative – Vijay Patel

This license has been issued in accordance with applicable provisions of Article 30 of the Labor Law of New York State and of the New York State Codes, Rules and Regulations (12 NYCRR Part 56). It is subject to suspension or revocation for a (1) serious violation of state, federal or local laws with regard to the conduct of an asbestos project, or (2) demonstrated lack of responsibility in the conduct of any job involving asbestos or asbestos material.

This license is valid only for the contractor named above and this license or a photocopy must be prominently displayed at the asbestos project worksite. This license verifies that all persons employed by the licensee on an asbestos project in New York State have been issued an Asbestos Certificate, appropriate for the type of work they perform, by the New York State Department of Labor.

Maureen A. Cox, Director
FOR THE COMMISSIONER OF LABOR

SH 432 (4-07)

United States Environmental Protection Agency

This is to certify that

Langan Engineering & Environmental Services, Inc.

619 River Drive Center 1, Elmwood Park, New Jersey 07407

has fulfilled the requirements of the Toxic Substances Control Act (TSCA) Section 402(a)(1), and has received certification to conduct lead-based paint activities pursuant to 40 CFR Part 745.226.

In the Jurisdiction of:

New York

This certification is valid from the date of issuance and expires May 30, 2009

NY-2233-1

Certification #

JUN - 5 2006

Issued On

Kenneth S. Stoller

Kenneth S. Stoller, P.E., QEP, DEE, Chief

Pesticides & Toxic Substances Branch

TSC
providing TOTAL SAFETY CONSULTING
5 Court Square
Long Island City, NY 11101
718.389.2103 - Fax: 718.389.6155
www.totalsafety.org



NYC DOB 4-HR Supported Scaffold User Certificate

Name: Vijay Patel
Director: Tom Ferrante **Class Date: 06/19/2007**

Exp. Date: 06/19/2011 **Card No. SS07-2653**

STATE OF NEW YORK - DEPARTMENT OF LABOR
ASBESTOS CERTIFICATE



VIJAY B PATEL
CLASS(EXPIRES)
C ATEC(05/08) D INSP(05/08)
E MGPL(05/08) H PM (05/08)
I PD (05/08)

CERT# 98-12523

MUST BE CARRIED ON ASBESTOS PROJECTS

NYC DEP Asbestos Control Program
Asbestos Certificate



PATEL,
VIJAY B
INVESTIGATOR
103029
EXPIRES: 5/13/2008

Must be carried on all asbestos projects

NYC DEP Asbestos Control Program
Asbestos Certificate



PATEL,
VIJAY B
INVESTIGATOR
110337
EXPIRES: 5/13/2010
DOB: [redacted] M 5' 06"

Must be carried on all asbestos projects

STATE OF NEW YORK - DEPARTMENT OF LABOR
ASBESTOS CERTIFICATE



VIJAY B PATEL
CLASS(EXPIRES)
C ATEC(05/09) D INSP(05/09)
E MGPL(05/09) H PM (05/09)
I PD (05/09)

CERT# 98-12523
DMV# [redacted]

MUST BE CARRIED ON ASBESTOS PROJECTS

New York
PROJECT DESIGNER



Certified Lead-Based
Paint Professional

Certification No NY-P-2789-1	
Date of Birth	Expiration Date 09/29/2009
Address	
Badge Holder's Name Vijay B. Patel	
Badge Holder's Signature	

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(MC-74040T)
Washington, DC 20460
or call 1-800-424-LEAD

New York
RISK ASSESSOR



Certified Lead-Based
Paint Professional

Certification No NY-R-2789-1	
Date of Birth	Expiration Date 09/29/2009
Address	
Badge Holder's Name Vijay B. Patel	
Badge Holder's Signature	

If found, drop in any mailbox
Postmaster: Please return to:
US EPA
1200 Pennsylvania Ave, NW
(MC-74040T)
Washington, DC 20460
or call 1-800-424-LEAD

EYES BLK
HAIR BLK

IF FOUND RETURN TO:
NYSDOL - L&C UNIT
ROOM 290A BUILDING 12
STATE OFFICE CAMPUS
ALBANY NY 12240

New York
RISK ASSESSOR



Certified Lead-Based
Paint Professional

New York
INSPECTOR



Certified Lead-Based
Paint Professional

New Jersey Department of
Health & Senior Services
Indoor Environments Program
Lead Certification Permit



SANJAY B PATEL
Permit Number: 017721
ID Number: 006046
Expiration Date: 3/28/2009



Authorization Signature: James A. Buonadies, Director

Inspector/Risk Assessor

NJ Department of Community Affairs
Division of Codes and Standards
Bureau of Code Services



This is to certify that

Sanjay Patel

has been certified as:
Asbestos Safety Technician

Certification #	**01110**
Effective Date	**8/1/2007**
Expiration Date	**7/31/2009**

TSC
providing TOTAL SAFETY CONSULTING
5 Court Square
Long Island City, NY 11101
718.389.2103 - Fax: 718.389.6155
www.totalsafety.org



NYC DOB 4-HR Supported Scaffold User Certificate

Name: Sanjay Patel
Director: Tom Ferrante **Class Date: 06/19/2007**

Exp. Date: 06/19/2011 **Card No. SS07-2672**

This card in no way certifies or verifies this individuals competency in the safe operation of scaffolds

If found, please contact TSC at (718) 389-2103

NYC DEP Asbestos Control Program
Asbestos Certificate



PATEL,
SANJAYKUMAR B
INVESTIGATOR
108041
EXPIRES: 9/18/2009

Must be carried on all asbestos projects

Certification No NY-I-4643-1	
Date of Birth	Expiration Date 11/20/2009
Address	
Badge Holder's Name	Sanjay B Patel
Badge Holder's Signature	

If found, drop in any mailbox
Postmaster: Please return to:
US EPA
1200 Pennsylvania Ave, NW
(MC-7404OT)
Washington, DC 20460
or call 1-800-424-LEAD

STATE OF NEW YORK - DEPARTMENT OF LABOR
ASBESTOS CERTIFICATE



SANJAYKUMAR PATEL
CLASS(EXPIRES)
C ATEC(09/08) D INSP(09/08)
H PM (09/08)

CERT# 98-10216

MUST BE CARRIED ON ASBESTOS PROJECTS

THIS CARD IS ISSUEDPURSUANT TO
N.J.S.A. 52:27D-119 ET SEQ OF THE
STATE OF NEW JERSEY

CHIEF
BUREAU OF CODE SERVICES

Certification No NY-R-4643-1	
Date of Birth	Expiration Date 11/20/2009
Address	
Badge Holder's Name	Sanjay B Patel
Badge Holder's Signature	

If found, drop in any mailbox
Postmaster: Please return to:
US EPA
1200 Pennsylvania Ave, NW
(MC-7404OT)
Washington, DC 20460
or call 1-800-424-LEAD

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IF FOUND RETURN TO:
NYSDOL - L&C UNIT
ROOM 290A BUILDING 12
STATE OFFICE CAMPUS
ALBANY NY 12240

This certificate must be shown to a NYCDEP representative upon request. Report loss immediately to NYCDEP Asbestos Control Program, 8th floor 59-17 Junction Blvd., Flushing, NY 11373

This PERMIT has been issued in accordance with N.J.A.C. 8:62. You MUST have this PERMIT with you on the job. To report a lost or stolen permit, notify us of edits to information on a permit, report change of address, report defects in card, or to find out how to renew a permit, contact the NJDHSS at:
New Jersey Department of Health & Senior Services
Consumer & Environmental Health Services
Indoor Environments Program, Training and Certification
3635 Quakerbridge Road, PO Box 372
Trenton, NJ 08625-0372
Telephone: (609) 631-6749 Fax: (609)588-7618
www.state.nj.us/health/eoh/leadasb/
If this permit is found abandoned, please send to above address.

DA 5/14/2007

United States Department of Commerce
National Institute of Standards and Technology

NVLAP®

Certificate of Accreditation to ISO/IEC 17025:2005

NVLAP LAB CODE: 200546-0

AmeriSci New York

New York, NY

is accredited by the National Voluntary Laboratory Accreditation Program for specific services, listed on the Scope of Accreditation, for:

BULK ASBESTOS FIBER ANALYSIS

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communique dated 18 June 2005).

2008-07-01 through 2009-06-30

Effective dates

DEPARTMENT OF COMMERCE * UNITED STATES OF AMERICA *

Sally S. Bruce

For the National Institute of Standards and Technology

NVLAP-01C (REV. 2006-09-13)

National Voluntary Laboratory Accreditation Program

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

AmeriSci New York
DBA: AmeriSci New York
117 E. 30th Street
New York, NY 10016
Mr. Paul Mucha
Phone: 212-679-8600 Fax: 212-679-2711
E-Mail: pmucha@amerisci.com
URL: http://www.amerisci.com

BULK ASBESTOS FIBER ANALYSIS (PLM) **NVLAP LAB CODE 200546-0**

NVLAP Code	*Designation / Description*
18/A01	EPA-600/M4-82-020: Interim Method for the Determination of Asbestos in Bulk Insulation Samples

2008-07-01 through 2009-06-30
Effective dates

Sally S. Bruce
For the National Institute of Standards and Technology

United States Department of Commerce
National Institute of Standards and Technology

NVLAP®

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2008-07-01 through 2009-06-30

Effective dates

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For the National Institute of Standards and Technology

NVLAP-01C (REV. 2006-09-13)

NVLAP® National Voluntary Laboratory Accreditation Program

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AmeriSci New York
DBA: AmeriSci New York
117 E. 30th Street
New York, NY 10016
Mr. Paul Mucha
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E-Mail: pmucha@amerisci.com
URL: http://www.amerisci.com

AIRBORNE ASBESTOS FIBER ANALYSIS (TEM) **NVLAP LAB CODE 200546-0**

NVLAP Code	*Designation / Description*
18/A02	U.S. EPA's "Interim Transmission Electron Microscopy Analytical Methods-Mandatory and Nonmandatory-and Mandatory Section to Determine Completion of Response Actions" as found in 40 CFR, Part 763, Subpart E, Appendix A.

2008-07-01 through 2009-06-30
Effective dates

Sally S. Bruce
For the National Institute of Standards and Technology

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER
RICHARD F. DAINES, M.D.

Expires 12:01 AM April 01, 2009
Issued April 01, 2008

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MR. PAUL MUCHA
AMERICA SCIENCE TEAM NEW YORK INC
117 EAST 30TH ST
NEW YORK, NY 10016

NY Lab Id No: 11480
EPA Lab Code: NY01378

is hereby APPROVED as an Environmental Laboratory for the category
ENVIRONMENTAL ANALYSES POTABLE WATER
All approved subcategories and/or analytes are listed below:

Drinking Water Miscellaneous

Asbestos	EPA 100.1
	EPA 100.2

Serial No.: 36239

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NEW YORK STATE DEPARTMENT OF HEALTH
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RICHARD F. DAINES, M.D.

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EPA Lab Code: NY01378

is hereby APPROVED as an Environmental Laboratory for the category
ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE
All approved subcategories and/or analytes are listed below:

Miscellaneous

Asbestos in Friable Material	EPA 600/M4/82/020
	Item 198.1 of Manual
Asbestos in Non-Friable Material-PLM	Item 198.6 of Manual (NOB by PLM)
Asbestos in Non-Friable Material-TEM	ITEM 198.4 OF MANUAL

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NY Lab Id No: 11480
EPA Lab Code: NY01378

is hereby APPROVED as an Environmental Laboratory for the category
ENVIRONMENTAL ANALYSES AIR AND EMISSIONS
All approved subcategories and/or analytes are listed below:

Miscellaneous Air

Asbestos	40 CFR 763 APX A No. III
	YAMATE,AGARWAL GIBB
Fibers	NIOSH 7400 A RULES

Serial No.: 36241

Property of the New York State Department of Health. Valid only at the address shown. Must be conspicuously posted. Valid certificates have a raised seal. Continued accreditation depends on successful ongoing participation in the Program. Consumers are urged to call (518) 485-5570 to verify laboratory's accreditation status.

A P P E N D I X D

Copy of the August 24, 2000 Environmental Investigation Report prepared by ET Environmental Corporation

ETENVIRONMENTAL
CORPORATION

KINGSBRIDGE ARMORY ROOF REHABILITATION PROJECT
ENVIRONMENTAL SURVEY REPORT



Kingsbridge Armory Roof
29 West Kingsbridge Road
Bronx, New York

Date Prepared: September 15, 2000

Prepared for:
New York City Economic Development Corporation
110 William Street
New York, NY 10038

Prepared by:
ET Environmental Corporation
3424 Peachtree Road
Suite 200
Atlanta, GA 30326

Written by:
George Pineda, ET
Piotr Chmielinski, HPE
Fred Burkhardt, ATC

This report is submitted the 15th day of September in the Year 2000 by:

George Pineda, CIH, CHMM

Piotr Chmielinski, M.S., CIH

KINGSBRIDGE ARMORY ROOF REHABILITATION PROJECT

ENCLOSED DOCUMENTATION:

1. Environmental Survey Executive Summary
2. Summary Scope of Work
3. Asbestos Survey Report and Removal Specifications
4. Lead Survey Report and Removal Specifications
5. Survey of Biological Contamination

Attachment(s):

A. Environmental Survey Report Prepared By ATC

EXECUTIVE SUMMARY

Environmental testing was conducted to determine if any hazardous building materials will be impacted by roofing work scheduled at the Kingsbridge Armory. Specifically, the roof area was investigated for the presence of asbestos, lead-based paint and bird droppings. This Environmental Survey reports the following findings which may impact construction activities in the roof area of the Kingsbridge Armory:

- Built-up roofing, two-tab shingle and underlayment and caulking were identified as Category 1 non-friable asbestos-containing materials.
- Pipe insulation on the Drill Floor Mezzanine was identified as friable asbestos-containing material.
- Painted surfaces throughout the building contain regulated levels of lead-based paint.
- Bird droppings are present on the roof trusses

Removal/management of these materials is necessary in order to minimize worker exposures and prevent release of hazardous materials into the environment. Abatement plans, which outline procedures for handling these hazardous materials, are incorporated in the enclosed documentation.

The information enclosed is limited in scope to accessible areas of the roof and other areas that may be impacted by roof renovation. Any new materials encountered during the renovation process should be appropriately tested prior to disturbance.

Summary Scope of Work

Asbestos

A. Remove and dispose of all layers of built-up roofing including underlayment, mastics, flashings and adhesives to the deck from the South and North Shed Roofs.

B. Remove and dispose of all layers of two tab shingle roofing including underlayment, mastics, flashings and adhesives to the deck from the South and North Vault Roofs.

C. Remove and dispose of all layers of EPDM, rigid insulation and built-up roofing including underlayment, mastics, flashings and adhesives to the deck from the low slope administrative building roof, parapet band and one story structures located on the roof.

D. Remove and dispose of all exposed and concealed mastics, flashing material, adhesives and caulking from the East and West gable ends.

E. Remove and dispose of all exposed and concealed mastics, flashing material, adhesives and caulking from the North and South clerestory bands.

F. Remove and dispose of all exposed and concealed caulking from the parapet wall.

G. Remove and dispose of perimeter pipe insulation on the drill floor mezzanine level to facilitate roof abatement.

H. Removal and disposal of accumulated debris on drill floor as asbestos contaminated waste prior to commencement of scaffolding work and throughout roof abatement work.

I. Removal and disposal of accumulated roofing debris surrounding the armory building prior to commencement of abatement work and throughout roof abatement work.

Demolition

A. Remove and dispose of existing roof decking from the South and North shed and vault roofs. If contaminated with roofing material dispose of as asbestos containing waste.

B. Remove metal panels from the East and West gable ends to access mastics, flashing material, adhesives and caulking. If metal panels are contaminated with mastics, flashing materials, adhesives or caulking decontaminate or dispose of as asbestos containing waste.

C. Remove corrugated and metal panels from the North and South clerestory bands to access mastics, flashing material, adhesives and caulking. If corrugated or metal panels are contaminated with mastics, flashing materials, adhesives or caulking decontaminate or dispose of as asbestos containing waste.

Avian Fecal Contamination

A. Remove any significant deposits of bird droppings.

B. Place all waste in 6 mil poly bags.

C. Dispose of waste as normal construction debris.

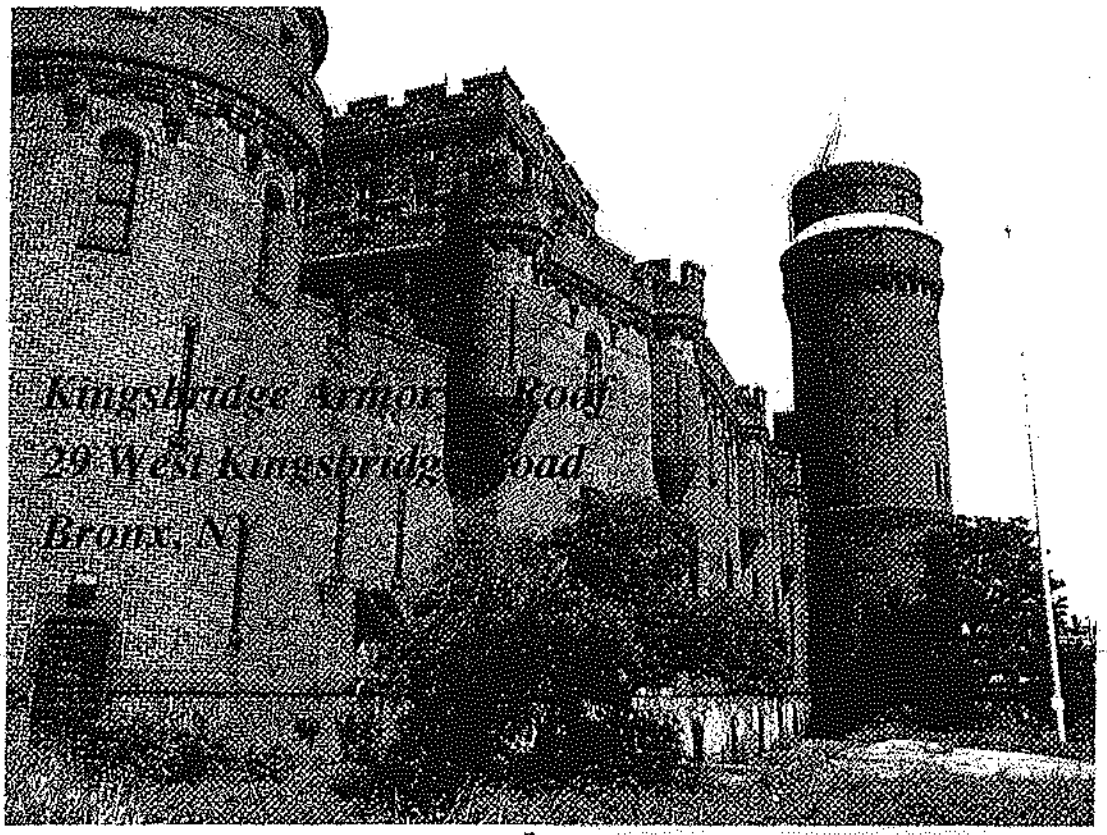
Load Paint Abatement/Surface Preparation

A. Remove all coatings and debris from the top cord of roof trusses and angle brackets exposed by removal of the roof decking.

B. Coatings removal shall meet SSPC Specifications SP-11-87T for Power Tool Cleaning to Bare Metal. It is the intent to remove all coatings and debris from these surfaces to facilitate other trades' work on these surfaces during this project.

ETENVIRONMENTAL
CORPORATION

KINGSBRIDGE ARMORY ROOF REHABILITATION PROJECT
Asbestos Survey Report (Summary) And Removal Specifications



Date Prepared: *September 15, 2000*

Prepared for: *New York City Economic Development Corporation*
110 William Street
New York, NY 10038

Prepared by: *ET Environmental Corporation*
3424 Peachtree Road
Suite 200
Atlanta, GA 30326

Written by: *George Pineda, CIH, CHMM*
Piotr Chmielinski, M.S., CIH

REPORT SUMMARY

Testing was conducted to determine if asbestos is present in the roofing material of a building planned for renovation, located at 29 West Kingsbridge Road in Bronx, New York. The survey and collection of samples was conducted in August, 2000. This report concludes that non-friable asbestos containing materials are present on the roof.

Chrysotile asbestos (Category 1 non-friable) was identified in:

South Shed Roof	Built-up roofing, wood decking* (Black, ~64,800 sf)
North Shed Roof	Built-up roofing, wood decking (Black, ~64,800 sf)
South Vault Roof	Two-tab shingle and underlayment, wood decking (Black, ~41,300 sf)
North Vault Roof	Two-tab shingle and underlayment, wood decking (Black, ~41,300 sf)
Low slope – Administrative Wing	Two-tab shingle and underlayment, wood decking (Black, ~41,300 sf)
East Metal Gable End	Caulking (Black, ~3,500 sf)
West Metal Gable End	Caulking (Black, ~3,500 sf)
South Clerestory Band	Caulking (Black, ~2,500 sf)
North Clerestory Band	Caulking (Black, ~2,500 sf)
Parapet Wall	Caulking (Black, ~1,400 sf)

NOTE: Quantities are an estimation only. If used for abatement purposes, the contractor should confirm these amounts.

** if contaminated by ACM*

This report is submitted the 8th day of September in the Year 2000 by:

George Pineda, CIH, CHMM

Piotr Chmielinski, M.S., CIH

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Introduction

Project Description

The property located at 29 West Kingsbridge Road was surveyed at the request of the New York City Economic Development Corporation. The building is located in Bronx, New York.

The building is a 900,000 square foot building previously used as an armory.

In August, 2000, Mr. James Ruchalski (New York Certificate # AH 91-06714) and Mr. Jay Dupay (New York Certificate # AN 88-05963) of ATC Associates, Inc. (ATC) inspected the above mentioned structure and collected a total of 29 representative samples of different suspect building materials on the roof. Inspection and collection of samples included accessing all roof areas and collecting samples of any roofing materials that were suspected to contain asbestos.

Bulk sampling was conducted utilizing techniques of destructive methods (a complete review of survey limitations is provided under Bulk Sampling Collection).

Objective of Survey

The goal of the survey was to determine if any materials on the roof contain asbestos. This information is required to comply with current State of New York and City of New York asbestos regulations prior to the renovation of this structure.

Current Regulatory Guidelines

OSHA: Meets criteria for OSHA medical records rule. 29 CFR 1910.20 (7/1/88)

OSHA: 8 hr Time Weighted avg.: 0.1 fiber/cc. A fiber is defined as a particulate form of asbestos, tremolite, anthophyllite, or actinolite, 5 µm or longer, with a length-to-diameter ratio of at least 3:1. 29 CFR 1910.1001 (8/10/94)

NIOSH: 8-hr TWA: .1 fiber/cc (fibers greater than 5 µm in length) NIOSH. NIOSH POCKET GUIDE CHEM HAZ 2ND PRT 1987 Appendix D

ACGIH: TLV - Time Weighted Avg. (TWA) 0.2 fiber/cc (fibers longer than 5 µm and with an aspect ratio equal to or greater than 3:1) (1980) ACGIH. TLVs 1989-90., p. 12

EPA: Asbestos has been designated as a hazardous air pollutant under section 112 of the Clean Air Act. 40 CFR 61.01 (7/1/88)

Miscellaneous Published Reports

NTIS: Industrial Health Hazards Due to Atmospheric Factors, April 1982-May 1983.

USEPA/ECAO: Asbestos Health Update (1984) EPA 600/8-84-003A

WHO: Environ Health Criteria: Asbestos and Other Natural Mineral Fibers (1986)

USEPA: Health and Environmental Effects Profile for Asbestos (1979)

Survey and Analytical Methods

Air Sample Collection

No air samples were collected during this inspection.

Bulk Sample Collection

Samples of building material were collected using metal sampling devices. Material collected was contained entirely within catch containers and emissions from sampling were contained by application of wetting agents when appropriate.

Bulk sampling was conducted utilizing standard techniques. Efforts were made not to impair the function or appearance of items sampled. In some instances, samples could not be taken without adversely impacting the intended function of the material

Sample Analysis

Analysis of bulk building material for the presence of asbestos, was conducted using the current NIOSH 7403 method. The technique includes use of polarized light microscopy with confirmation technique using dispersion staining. This method is designed to identify asbestos minerals and determine their estimated concentrations as a percent by weight. Ref: NIOSH. MANUAL ANALYT METH 3RD ED VOLS 1,2 SUPPLS 1984. V1 7403-1.

The United States Environmental Protection Agency (USEPA) defines ACM as a material which contains greater than 1% (w/w) of asbestos. Thus, materials that contain asbestos in concentrations greater than 1% are frequently labeled "positive" while materials containing less than 1% are labeled "negative". Although this convention has gained general acceptance, the designation was arbitrarily determined and may be subject to revision in the future. Precedent for such a revision can be found in the redefinition of "ACM" by the USEPA to include non-friable materials.

In some cases limitations associated with the analytical method must also be considered when determining what is a "positive" result. For instance, when asbestos fibers are contained within a vinyl matrix of a floor tile, the analysis requires that the vinyl be dissolved in organic solvents. In this case it is difficult to assign an accurate percentage to the asbestos content of the floor tile and labeling this floor tile as "negative", when it contains less than 1% asbestos, may be inappropriate and misleading. Likewise, some flooring materials are formulated using very fine asbestos fibers. At some point these very fine fibers become invisible to light microscopy techniques. Experience has demonstrated that reports of trace quantities of asbestos in some flooring materials following examination by light microscopy may be inaccurate. Frequently flooring materials are found to contain significantly more asbestos when analyzed by other techniques such as electron microscopy.

For these reasons, the "positive" designation in this report will be applied to materials when even trace quantities of asbestos are detected. This will remain the case unless additional testing or other information is available to confirm the concentration of asbestos to be less than or equal to 1%.

Results

The laboratory report listing the results for all twenty-nine (29) samples collected from the roof area is included in Attachment A to this survey report. Asbestos was identified in twenty-two (22) of the samples.

Results Summary

The on-site inspection and subsequent review of laboratory results of the 29 bulk samples collected during the survey in August, 2000 found that

- Chrysotile asbestos (Category 1 non-friable) was identified in the built-up roofing located on the North and South Shed Roofs.
- Chrysotile asbestos (Category 1 non-friable) was identified in the two tab shingle and underlayment located on the North Vault Roof.
- Chrysotile asbestos (Category 1 non-friable) was identified in the window mastic (see Photograph 4) located on the East and West Gable Ends, North and South Clerestory Bands and Parapet Wall.

Conclusions and Recommendations

The findings of this survey include Category 1 non-friable roofing material and caulking.

Due to the planned renovation of the building, the State of New York and City of New York require any asbestos-containing materials (i.e. roofing material and pipe insulation) that will be disturbed during renovation to be removed prior to renovation. All asbestos removal work must be performed by a qualified asbestos abatement contractor.

NOTE: While care has been taken to locate and sample all suspect materials associated with the structures, the potential does exist for additional materials to be concealed within the structures (i.e. behind framing, under roofing, etc.). For this reason, during the renovation process, care should be taken to recognize any materials that may become evident and accessible. Additional testing and/or removal of the materials may be required.

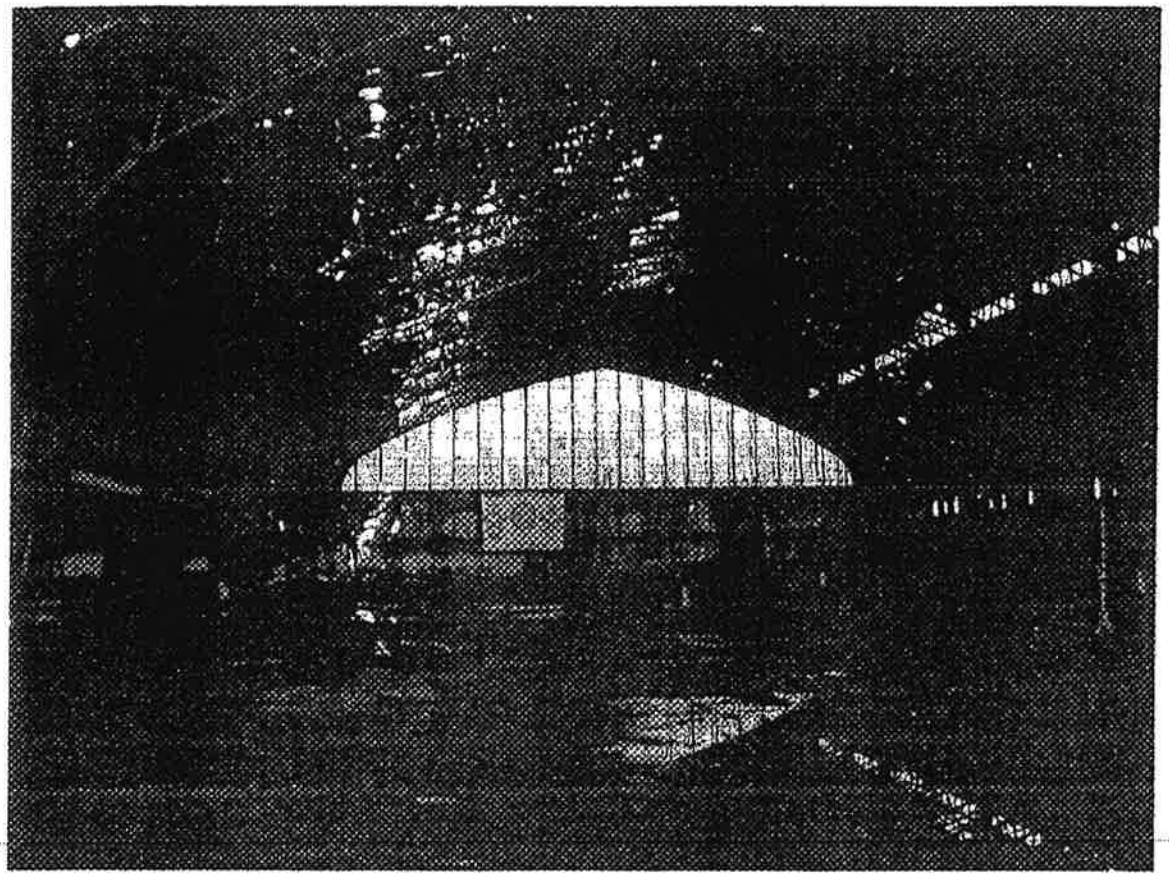
If renovation is not scheduled for the near future in building areas not included in the roof rehabilitation phase, the building owner should implement the following:

1. Control access to the area where the asbestos containing materials are located. This controlled access should include restricting workers and repair activities in the area to those persons who have been notified that some building materials contain asbestos.
2. Use work practices and/or other controls as necessary to inhibit the release or spread of asbestos fibers from the ACM. These work practices should include instructions not to cut, drill, sand or disturb the ACM matrix in any manner that may cause the release of asbestos fibers from the material.



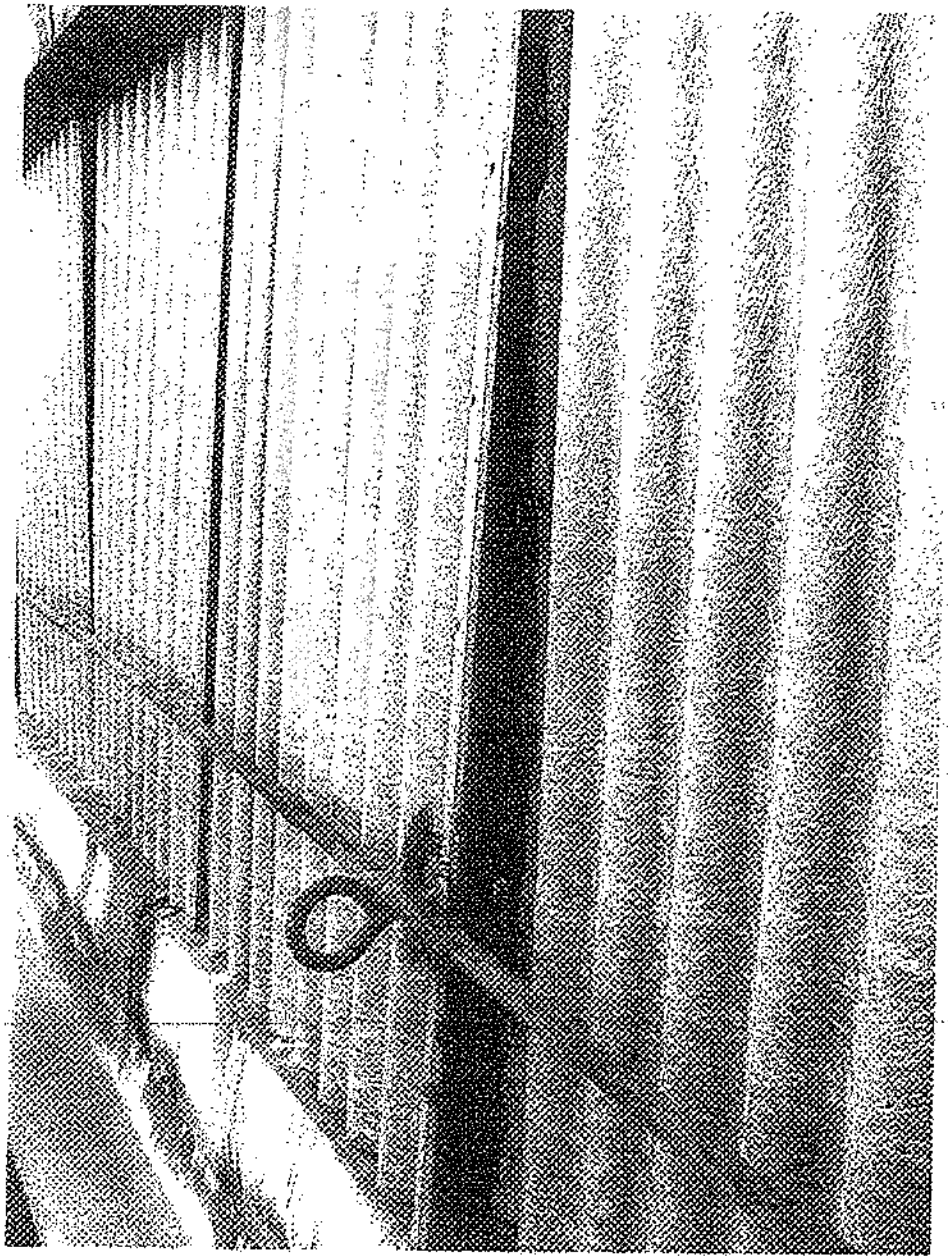
Photograph 1

The Kingsbridge Armory. View of the south side from 29 West Kingsbridge Road.



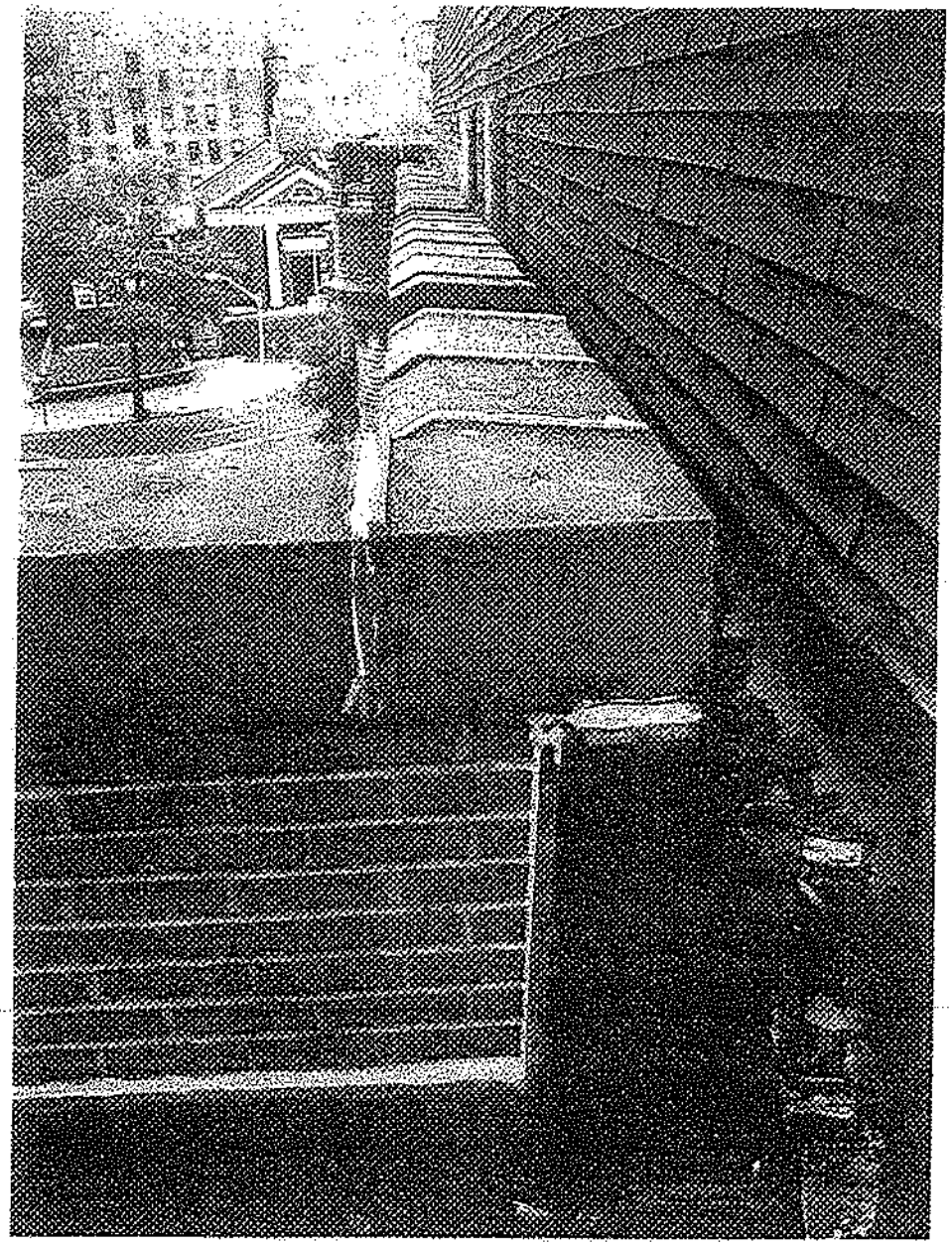
Photograph 2

View of the interior (drill floor) facing south. Removal of ACM pipe insulation and cleaning of ACM debris from the floor will be part of roof work.



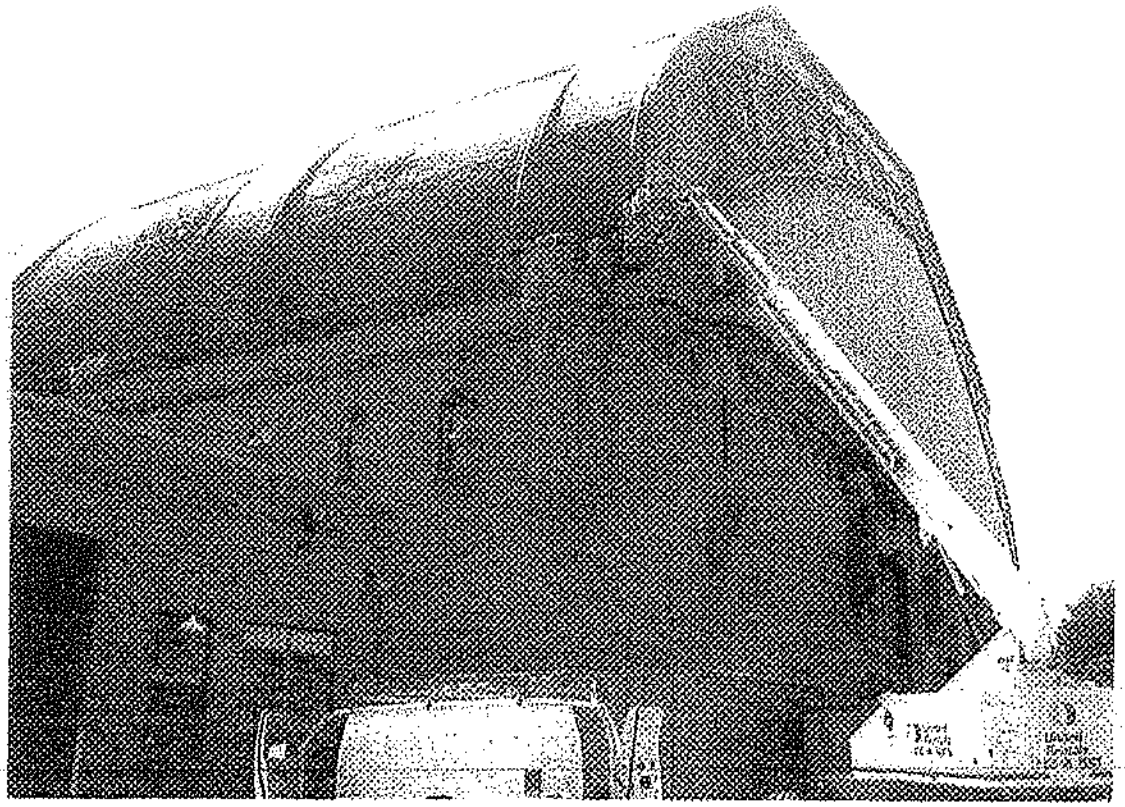
Photograph 4

View of corrugated boards with ACM mastic/coating.



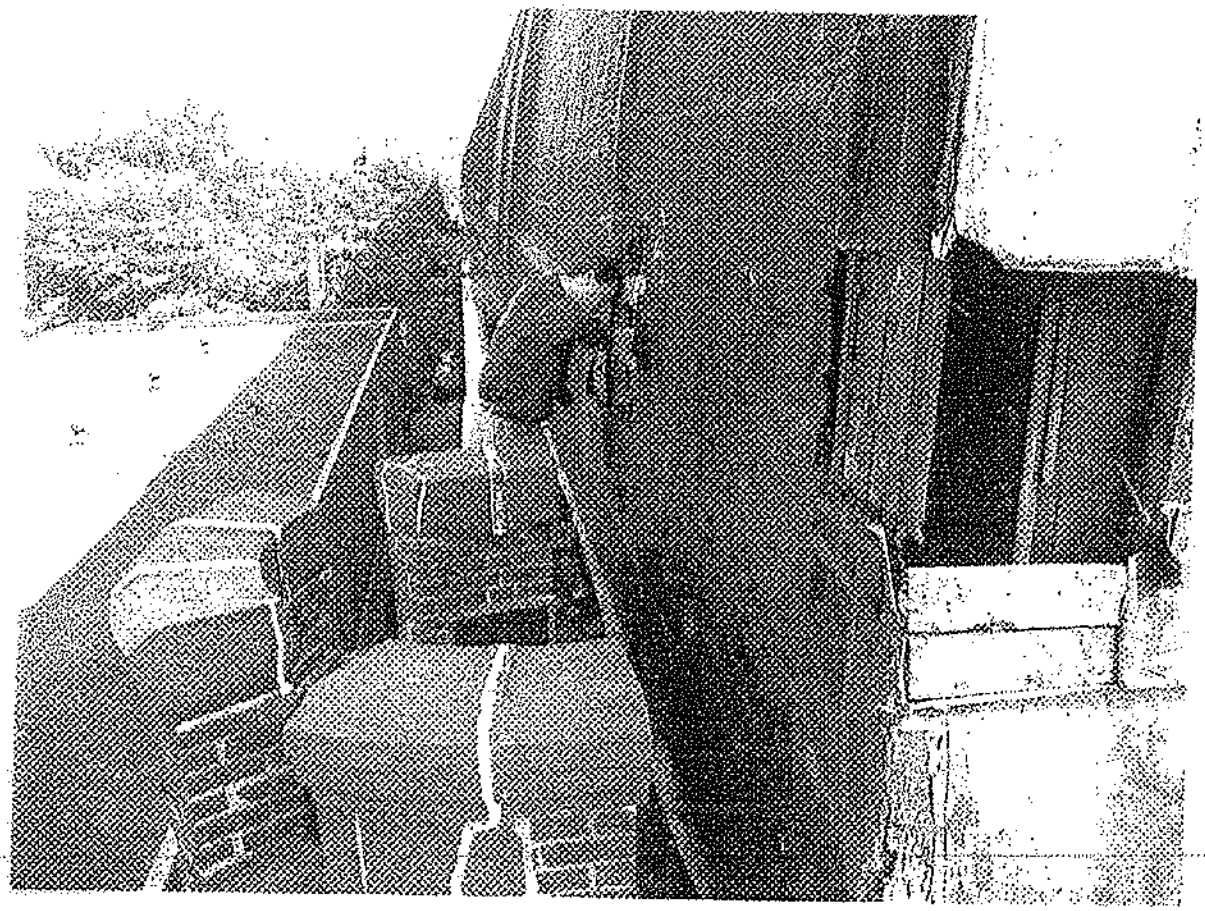
Photograph 5

View of the southwest parapet. With the exception of parapet ACM caulkings (white and black), all ACM roofing materials must be removed during the roofing phase of the project.



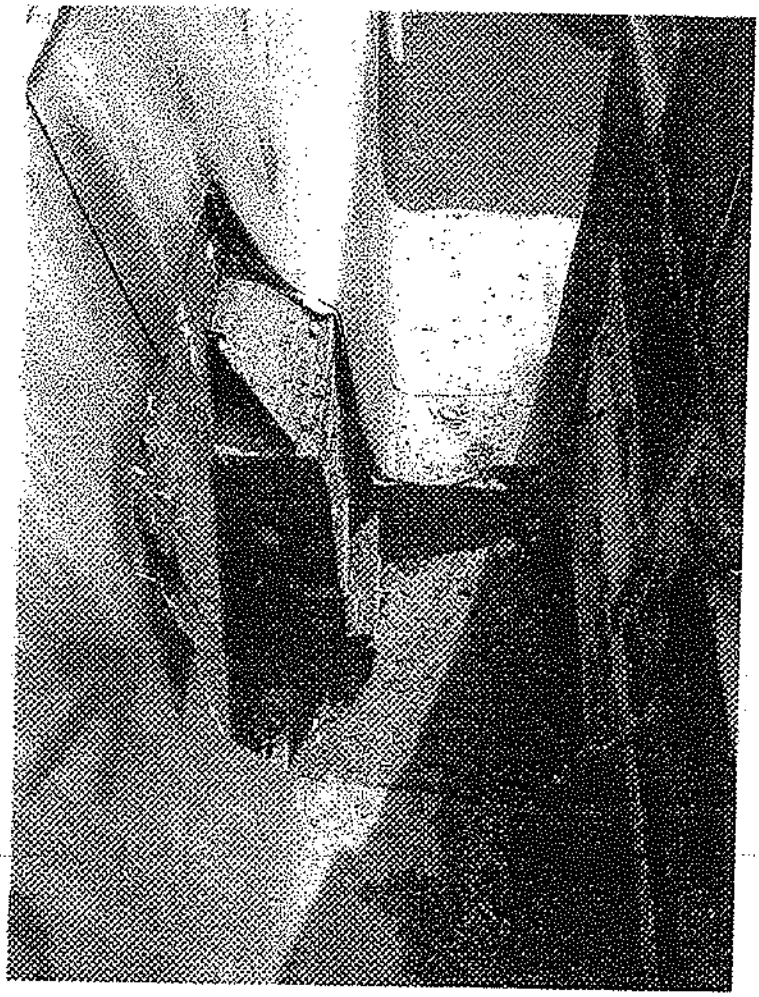
Photograph 6

View of the northwest roof.



Photograph 7

View of the northwest corner of the roof.



Photograph 8

View of the west side parapet.

Appendix A

ASBESTOS REMOVAL SPECIFICATIONS

ASBESTOS REMOVAL SPECIFICATIONS

PART 1 GENERAL

1.01 SCOPE OF WORK

A. This asbestos abatement Project will consist of the removal and disposal of all asbestos containing roofing, contaminated decking, caulking, miscellaneous adhesives and pipe insulation materials from the areas identified below at the Kingsbridge Armory, Bronx, NY.

B. The work shall include but not be limited to the removal of following asbestos-containing materials (ACM):

Location:	ACM	Quantity
South Shed Roof	Built-up roofing, wood decking[1]	64,800 SF
North Shed Roof	Built-up roofing, wood decking	64,800 SF
South Vault Roof	Two-tab Shingle and underlayment, wood decking	41,300 SF
North Vault Roof	Two-tab Shingle and underlayment, wood decking	41,300 SF
Low slope – Administrative Wing	EPDM & Rigid Insulation over built-up roofing	20,000 SF
East Metal Gable End	Caulking[2]	3,500 SF
West Metal Gable End	Caulking[2]	3,500 SF
South Clerestory Band	Caulking[2]	2,500 SF
North Clerestory Band	Caulking[2]	2,500 SF
Parapet Wall	Caulking[2]	1,400 LF
Drill Floor Mezzanine	Pipe Insulation	1,500 LF
Drill Floor	Debris[3]	180,000 sf
Exterior (around building perimeter)	Roofing debris	N/A

[1] If wood decking is contaminated by ACM.

[2] Approximate square footage of surfaces impacted by the caulking.

ETENVIRONMENTAL
CORPORATION

KINGSBRIDGE ARMORY ROOF REHABILITATION PROJECT
ATTACHMENT A
ENVIRONMENTAL SURVEY REPORT PREPARED BY ATC



Kingsbridge Armory Roof
29 West Kingsbridge Road
Bronx, New York

Asbestos Survey

A Joint Venture of Turner Construction Company and EMCON

Asbestos Report

Environmental Survey of:	KINGSBRIDGE ARMORY 29 WEST KINGSBRIDGE ROAD BRONX, NY 10468
Prepared for:	ET ENVIRONMENTAL CORPORATION 3424 Peachtree Road, NE Suite 200 Atlanta, GA 30326
Prepared by:	ATC ASSOCIATES INC. 104 East 25th Street, 10th Fl. New York, New York 10010
ATC Project #:	75018-0001
Report Date:	August 24, 2000

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EXECUTIVE SUMMARY

ATC Associates Inc. was contracted by ET Environmental Corp. to conduct a survey of the Kingsbridge Armory 29 West Kingsbridge Road, Bronx, NY. The intent was to identify asbestos containing materials, lead containing and/or lead based paints and coatings, mercury-containing switches or lamps, suspect PCB (polychlorinated biphenyls) or DEHP (Di (2-ethylhexyl) phathatlate) containing light ballasts, storage tanks and stored or abandoned materials at the facility.

The survey identified an estimated fourteen thousand two hundred sixty (14,260) feet of thermal system insulation (piping, cementitious joints), thirty-three thousand six hundred sixty (33,660) square feet of flooring materials (floor tiles, linoleum) and two-hundred thirty-five thousand (235,000) square feet of roofing materials (2-tab shingles, built-up roofing, mastics). Additionally, glazing associated with the windows (interior and exterior) and caulking material associated with windows and exterior joints, seams and cracks was identified as asbestos containing materials. Plaster surfaces primarily walls and ceilings were tested throughout the armory and were determined to **not** be an asbestos containing material.

The survey confirmed lead at detectable levels and above for each substrate as follows; 59% of brick, 45% concrete, 73% metal, 89% plaster and 56% wood. Substrates were distinguished by and identified by the exposed coating color. However, variance of lead results within a single testing combination particularly gray painted concrete substrate indicate that the lead-containing layer(s) occur below the exposed common layer. Therefore, the generally poor condition of painted surfaces combined with the inability to distinguish painted components by the exposed color all paint should be considered lead containing for purposes of OSHA compliance, waste stream management and environmental dust control.

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No mercury containing switches were observed. Ballasts inspected at various locations of the Armory were found to be not labeled as to content or in poor condition, therefore all ballasts were considered PCB or DEHP containing. An estimated six hundred fifty (650) light fixtures, one thousand two hundred fifty (1,250) bulbs/tubes, seven hundred (700) ballasts and one hundred nine (109)metal halide lights were observed. All PCB/DEHP-contaminated materials should be incinerated, mercury containing lighting lamps, such as: Fluorescent, Mercury Vapor, and High Intensity Discharge lamps (including Metal Halide lamps, High Pressure Sodium lamps, and Low Pressure Sodium lamps) should be disposed through a complete recycling process.

The visual inspection of the Armory grounds indicated that at least four underground storage tanks existed at one time as determined by identified vent pipes and fill ports. Regulatory database review identified five underground storage tanks and two aboveground storage tanks associated with the Armory. An electro-magnetic survey of suspect areas indicated that two buried tanks might exist in the garage parking area. Presumably, these could be the closed tanks identified as tank 1 –diesel and tank 2- unleaded gasoline. Additionally, the survey identified seven additional aboveground 275-gallon storage tanks in the basement not identified in the regulatory database. Tanks 1 and 2 appear to have been closed and abandoned in place, which can be verified by test pits. Additional investigation is required to ascertain the disposition of tanks 3 through 7. The seven aboveground storage tanks identified by the survey need to be examined/tested for product type, content and eventual disposition.

Throughout the Armory, various paints, solvents and maintenance products were observed that would require consolidation and disposal. Abandoned refrigeration/air conditioner units may contain CFC compounds and require reclamation prior to disposal. Several animal/bird carcasses and small quantities of avian excreta were observed in localized areas, disturbance of these items would require personal protective equipment.

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INTRODUCTION

ATC Associates Inc. was contracted by ET Environmental Corp. to conduct a survey of the Kingsbridge Armory 29 West Kingsbridge Road, Bronx, NY. The intent was to identify asbestos containing materials, lead containing and/or lead based paints and coatings, mercury containing switches or lamps, suspect PCB (polychlorinated biphenyls) or DEHP (Di (2-ethylhexyl) phathatlate) containing light ballasts, storage tanks and stored or abandoned materials at the Kingsbridge Armory.

Messrs James Ruchalski and Jay Dupay of ATC performed the asbestos survey. Mr. Dupay holds certifications from the New York City Department of Environmental Protection as an Asbestos Investigator and the New York State Department of Labor as an Asbestos Inspector and will be the inspector of record for all filings. Mr. Ruchalski holds certification from the New York State Department of Labor as an Asbestos Inspector. Mr. Richard Edwards and Maraina Medinets performed the XRF survey. The survey was performed from July 24 through August 22, 2000.

STANDARDS OF CARE

ATC Associates Inc.'s work was performed in a professional manner with the best interest of our client in mind. Our objective was to perform our work with care, exercising the customary skills and competence of consulting professionals in the relevant disciplines. The conclusions presented in this report are professional opinions based upon visual observations of the site and laboratory results from samples collected and analyzed.

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The opinions and recommendations presented herein apply to site conditions existing at the time of our observations. ATC Associates Inc. cannot act as insurers, and no expressed or implied representation or warrant is included or intended in our report except that our work was performed, within the limits prescribed by our clients, with the customary thoroughness and competence of our profession at the time and place the services were rendered. This report is designed to generally identify the accessible recognized environmental materials identified in the introduction at the facility.

ASBESTOS – SURVEY

Guidelines used for the survey were established by the Environmental Protection Agency (EPA) in the Guidance for Controlling Asbestos Containing Materials in Buildings, Office of Pesticides and Toxic Substances, Doc 560/5-85-024, and 40 CFR Part 763, Asbestos Hazard Emergency Response Act (AHERA).

Field information was organized in accordance with the AHERA methodology of homogenous area (HA). During the survey, reasonable effort was made to identify all locations and types of ACM materials associated with the scope of work. Multiple samples of homogeneous materials were chosen at random. However, due to inconsistencies of a manufacturer's processes and the contractor's installation methods, materials of similar construction may contain various amounts of asbestos. Further, some materials that were not originally specified to contain asbestos may in fact contain this mineral. For example, cementitious pipe insulation and plaster were frequently mixed with asbestos at the construction site for ease of application. Locating all asbestos materials can only be definitively achieved by conducting exploratory demolition and sampling every section of pipe insulation, fitting or valve covering, fireproofing, and other suspect ACM.

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Bulk samples of suspect ACM were analyzed using polarized light microscopy (PLM) coupled with dispersion staining, as described in 40 CFR Part 763 and the National Emissions Standard for Hazardous Air Pollutants (NESHAP). NESHAP is the standard industry protocol for the determination of asbestos in building materials. A suspect material is immersed in a solution of known refractive index and subjected to illumination by polarized light. The color displays that result is compared to a standardized atlas whereby the specific variety of asbestos is determined. It should also be recognized that PLM is primarily a qualitative identification method whereby asbestos percentage, if any, is estimated. While EPA, New York State; and New York City regulations governing ACM consider materials containing greater than 1-percent as asbestos, accurately quantifying asbestos content below 5-percent has been shown to be unreliable. Without additional and more sophisticated analysis, using transmission electron microscopy (TEM), a 1-percent content or less of asbestos in a building material sample may still result in an exposure or possible respiratory hazard should the material be indiscriminately demolished. Therefore, for identification and appropriate asbestos management, ATC recommends that any detected asbestos in a suspect material using PLM be considered asbestos. For those materials revealing no asbestos using PLM, TEM analysis should be conducted for confirmation.

The New York State Department of Health has revised the PLM Stratified Point Counting Method. The new method, "Polarized Light Microscopy Methods for Identifying and Quantifying Asbestos in Bulk Samples" can be found as item 198.1 in the Environmental Laboratory Approval program (ELAP) Certification manual. The method specifies a procedure of analysis for bulk samples that fall into the category of "Non-friable Organically Bound" (NOB). This category includes any sample in a flexible to rigid asphalt or vinyl matrix (floor tiles, mastic, roofing shingles, roofing felt, etc.). Additional materials that may fall into this category are textured paints and stucco, pipe valve and joint packing, and a variety of other applications. These samples must be "ashed" in a muffle furnace at 480-degrees Celsius (to remove organic matrix), treated with acid (to remove any mineral carbonate), and filtered through a 0.4-micron filter before being analyzed by PLM. The sample must be weighted between each of these steps to track the percent loss of organic matrix.

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ELAP has determined that analysis of NOB materials is not reliably performed by PLM. Therefore, if PLM yields results of 1-percent asbestos or less, the result must be confirmed by TEM. Bulk samples that undergo TEM analysis use the sample reduction methodology stated above for NOB analysis by PLM. ELAP certified laboratories must include the following statement with their PLM analysis results for each "inclusive" (1-percent or less asbestos) NOB sample: "Polarized-light microscopy is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-ACM, confirmation must be made by quantitative transmission electron microscopy".

Selected samples initially analyzed by Polarized Light Microscopy which yielded a negative PLM result and which are classified as a "non-friable" material, were then re-analyzed utilizing Transmission Electron Microscopy methodology described above. The laboratory performing both these analysis procedures was ATC Associates Inc., located at 104 East 25th Street, New York, New York. The following laboratory accreditation's are included in Appendix C:

- National Voluntary Laboratory Accreditation Program (Lab Code 1187-00)
- New York State Environmental Laboratory Approval Program (Lab No. 10879)
- American Industrial Hygiene Association Accredited Laboratory (Lab No. 7054)

ASBESTOS – SURVEY FINDINGS

Two hundred twenty-five bulk samples were collected from representative homogeneous areas throughout the facility. Tabular summary of bulk samples is located in Appendix A with field data/chain of custody forms in Appendix B. Asbestos sample locations and schematic material drawings are located in Appendix H. Based upon visual inspection of representative materials likely to be impacted by the planned interior demolition and/or renovation and bulk sample laboratory analytical results, the following materials have been identified as **asbestos containing materials [ACM]** (greater than one percent asbestos).

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- 2-tab roof shingle
- Built-up roofing
- Tar paper underlayment
- Roofing mastics/adhesives
- Pitch pockets
- 9" x 9" floor tiles (all colors)
- Sheet linoleum
- Corrugated (aircell) pipe insulation
- Cementitious pipe joint insulation associated with corrugated (aircell) pipe insulation
- magnesia (pre-formed block) pipe insulation
- Cementitious pipe joint insulation associated with magnesia (pre-formed block) pipe insulation
- Cementitious pipe joint insulation associated with fiberglass pipe insulation (National Guard Office only)
- window glazing (interior and exterior)
- Caulking material associated with windows and exterior joints, seams and cracks

Thermal system insulation was identified primarily in exposed readily accessible locations throughout the facility as described below. However, concealed thermal system insulation was observed in interstitial wall spaces associated with bathroom fixtures and the plenum area above suspended plaster ceilings.

Sub-basement	No ACM observed
Basement	TSI located on perimeter steam, hot and cold water lines. Piping in hallways has been abated and replaced with non-ACM insulation.
Basement Mezzanine	TSI located on perimeter steam, hot and cold water lines. TSI located on steam lines parallel to hallway in ammunition storage rooms. Asbestos containing flooring in office areas on southern wall.

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Drill Floor	Perimeter steam and hot and cold water lines. Asbestos containing flooring in office areas along southern wall. Asbestos containing window caulking and glazing on all windows.
Drill Floor Mezzanine	TSI located on steam, hot and cold water lines associated with bathrooms. Asbestos containing flooring in office areas on southern wall.
Second Floor	Perimeter steam and hot and cold water lines. Asbestos containing flooring in office areas along southern wall. Asbestos containing window caulking and glazing on all windows.
Third Floor	Perimeter steam and hot and cold water lines. Asbestos containing flooring in office areas along southern wall. Asbestos containing window caulking and glazing on all windows.
Roofs	Built-up and two tab shingle roofing including underlayment, mastics, flashings and adhesives. Mastics, flashing material, adhesives and caulking on gable ends, clerestory bands and parapets.

The survey identified the following estimated quantities of asbestos containing thermal system insulation (piping, cementitious joints), flooring materials (floor tiles, linoleum) and roofing materials (3-tab shingles, built-up roofing, mastics) within the survey boundaries.

Level	Thermal System Insulation (Linear Feet)	Flooring Material (Square Feet)	Roofing (Square Feet)
Basement	7,410	300	-
Basement Mezzanine	2,275	1,000	-
Drill Floor	3,540	6,460	-
Second Floor	675	17,500	-
Third Floor	210	8,400	-
Fourth Floor	150	-	-
Roofs	-	-	235,000
Totals	**14,260**	**33,660**	**235,000**

A detailed table of asbestos containing materials by area is located in Appendix D.

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Based upon visual inspection of materials determined to be impacted by the renovation program and bulk sample laboratory analytical results, the following materials are identified as **not asbestos containing materials** (less than one- percent asbestos).

- Boiler insulation'
- Breeching insulation
- Gray floor coating – drill floor
- Cementitious pipe joint insulation associated with fiberglass pipe insulation (Main armory building)
- 12" x 12" ceiling tile
- 2' x 2' ceiling tile
- 2' x 4' ceiling tile
- Joint compound
- Wall plaster – brown coat
- Wall plaster – white coat
- Ceiling plaster – brown coat
- Ceiling plaster – white coat
- Brown paper under 3-tab shingle
- Wallboard

LEAD – SURVEY (PAINTED SURFACES)

The objective of this survey was to identify existing lead-based paint on potentially impacted building surfaces during pending renovation/demolition activities. All painted components were not sampled with the XRF; rather, the survey sampled representative painted building substrates and components and based on the results assumptions as to lead content are made in this report. If questions arise as to the lead content in paint found on a specific surface not tested by ATC, additional testing may be required.

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A portable Lead Paint Analyzer manufactured by Radiation Monitoring Devices (RMD) was used to test all accessible painted components. The instrument was operated in accordance with manufacturer's instructions and XRF performance characteristic sheet (PCS). Representative readings were taken from each surface. Three calibration readings were taken before and after testing in the facility to ensure proper instrument operation. XRF results were divided into three categories: positive, inconclusive, and negative as defined by the PCS. According to the revised PCS for the RMD device, inconclusive ranges exist only for metal substrates. If the result was inconclusive, a paint chip sample was collected for laboratory analysis to determine the actual result.

LEAD –SURVEY FINDINGS (PAINTED SURFACES)

One thousand one hundred ninety building surfaces were tested with a portable X-Ray Fluorescence analyzer for lead content. Substrates tested within the Armory were; brick, concrete, metal, plaster, sheetrock, and wood. Substrates were distinguished by and identified by the exposed coating color. Bulk samples collected form the steel arch's on the drill floor confirmed lead content on the arched of between 8.92 and 56.67 %. A tabular summary of XRF survey data and bulk samples is located in Appendix E

Substrate	Shots	Shots >.4	Shots > 1	Percent of components with XRF detectable levels of lead	Percent of components with a Lead based coating
Brick	119	70	67	59%	56%
Concrete	178	80	62	45%	35%
Metal	403	295	238	73%	59%
Plaster	207	184	180	89%	87%
Sheetrock	34	0	0	0%	0%
Wood	249	140	106	56%	43%
Sub-Total	1190	769	653	65%	55%
Calibration	35				
Total	1225				

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LEAD – SURVEY (TARGET RANGES)

Waste classification of the soils/sand identified within the basement rifle and pistol ranges was performed to determine proper handling and storage requirements as well as the disposal location (i.e., either RCRA Subtitle "C" landfill or Construction and Demolition (C&D) Subtitle "D" landfill). Environmental Protection Agency's (EPA) Resource Conservation and Recovery Act (RCRA) mandates that the lead containing media be characterized as either hazardous or non-hazardous waste prior to disposal. The TCLP composite samples were representative of the various materials that constituted the waste stream. The Inspector donned disposable gloves, which were changed prior to the collection of each sample. The material was placed into a ziplock bag, sealed, and labeled with a unique identifier. A minimum of 100 grams of material was collected. A chain of custody form was completed and submitted with the samples to the laboratory.

LEAD – SURVEY FINDINGS (TARGET RANGES)

ATC collected four (4) representative four-point composite samples from the basement shooting ranges. Sample 1 was collected form Pistol Ranges 9 – 16, Sample 2 was collected form Pistol Ranges 1 – 8, Sample 3 was collected from the most recently active portion of the Rifle Ranges, Sample 4 was collected from the abandoned portion of the Rifle Ranges behind the steel back stop. Analytical results indicate that the anticipated waste stream from each of the sampled areas contain levels of leachable lead in excess of RCRA standards. All four samples contained leachable lead above 5ppm.

Sample	Location	Analytical Result)
1	Pistol Range 9 – 16	1,480 ppm
2	Pistol Range 1 – 8	655 ppm
3	Rifle Range (active)	23.9 ppm
4	Rifle Range (abandoned)	5.84 ppm

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Based on TCLP results indicating leachable levels of lead greater than 5 ppm, the waste streams generated by the removal of the soils, sands and other material are characterized as a hazardous lead containing solid waste as defined by RCRA.

FLUORESCENT AND HIGH-INTENSITY DISCHARGE LIGHTING (HID)/BALLASTS

A visual walk-through of the Armory was conducted including examination of typical fixtures to ascertain the approximate quantity of mercury containing switches, lamps and suspect PCB or DEHP containing light ballasts. A drawing identifying approximate room locations and quantities of fixtures, bulbs and ballasts in located in Appendix H. No mercury containing switches were observed. Ballasts inspected at various locations of the Armory were found to be not labeled as to content or in poor condition, therefore all ballasts were considered PCB or DEHP containing. An estimated quantity of light fixtures, bulbs and ballasts is as follows:

Level	FIXTURES	Bulbs/Tubes	Ballasts	Metal Halide Lights
Basement	185	450	300	9
Basement Mezzanine	190	300	145	-
Drill Floor	175	300	145	100
Second Floor	100	200	110	-
Third Floor	-	-	-	-
Fourth Floor	-	-	-	-
Totals	**650**	**1250**	**700**	**109**

The primary concern regarding the disposal of used fluorescent ballasts is the health risk associated with polychlorinated biphenyl's (PCBs). Human exposure to these possible carcinogens can cause skin, liver, and reproductive disorders. Fluorescent and high-intensity discharge (HID) ballasts contain a small capacitor that may contain high concentrations of PCBs (greater than 90% pure PCBs or 900,000 ppm). These chemical compounds were widely used as insulators in electrical equipment such as capacitors, switches, and voltage regulators through the late 1970s.

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The Toxic Substances Control Act (TSCA) was enacted in 1976, and subsequently banned the production of PCBs in the United States. The specific regulations governing the use and disposal of PCBs are found in Volume 40 Code of Federal Regulations (CFR) Part 761.

The proper method for disposing used ballasts depends on several factors, such as the type and condition of the ballasts and the regulations or recommendations in effect in the state(s) where you remove or discard them. TSCA specifies the disposal method for ballasts that are leaking PCBs. In addition, generators of PCB-containing ballast wastes may be subject to notification and liability provisions under the Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA) (also known as "Superfund").

Identifying criteria

- All ballasts manufactured through 1979 contain PCBs.
- Ballasts manufactured after 1979 that do not contain PCBs are labeled "No PCBs."
- If a ballast is not labeled "No PCBs," assume it contains PCBs.

DEHP-CONTAINING BALLASTS

Di (2-ethylhexyl) phathatlate (DEHP) is a substance that was used to replace PCBs in certain ballast capacitors beginning in 1979. DEHP in its pure form is listed as a hazardous waste under the Resource Conservation and Recovery Act (RCRA). However, once it has been used in a lighting ballast, it is no longer hazardous as defined by RCRA. (See 40 CFR 261.33, Part 261 Appendix VII, Section 268.34, and Section 268.43.) DEHP is regulated under CERCLA– the Superfund law. The "Reportable Quantity" (RQ) of DEHP under CERCLA is 100 pounds. (See 40 CFR, Section 302.4.) This means that if you are disposing of 100 pounds or more of the material in a 24 hour period (approximately 1,600 fluorescent lighting ballasts), you are required to notify the National Response Center at (800) 424-8802. It also means that parties involved with the disposal of DEHP ballasts may be held liable under Superfund if clean up of the DEHP is required.

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Identifying criteria

- DEHP has been found in ballasts designed for the following lighting fixtures: four foot fluorescent fixtures manufactured between 1979 and 1985
- Eight foot fluorescent fixtures manufactured between 1979 and 1991
- High intensity discharge (HID) fixtures manufactured between 1979 and 1991

MERCURY-CONTAINING LAMPS

Fluorescent and high-intensity discharge (HID) lamps contain a small quantity of mercury that can be harmful to the environment and to human health when improperly managed. Mercury is regulated under RCRA, which is administered by the US Environmental Protection Agency. Under current Federal law, mercury-containing lamps such as fluorescent and HID lamps may be hazardous waste. In addition, incandescent and HID lamps may contain small quantities of lead that can also be potentially harmful to human health and the environment.

STORAGE TANKS

The visual inspection of the Armory grounds indicated that at least four underground storage tanks existed; one underground storage tank (UST) in the western parking area as evidenced by an observed fill port and possible vent line, two UST's associated with the maintenance garage as evidenced by two vent lines and one UST associated with the heating plant of the National Guard Office and garage as evidenced by an observed fill port and vent line. A database search located in Appendix F provided by Environmental Data Resources, Inc. identified five underground storage tanks and two aboveground storage tanks associated with the Armory as follows:

Tank	Product	Capacity (gallons)	Status
1	Diesel	3,000	Closed
2	Unleaded Gasoline	2,000	Closed
3	1,2 or 4 Fuel Oil	2,000	Closed
4	1,2 or 4 Fuel Oil	8,000	Closed
5	Unleaded Gasoline	225	Closed
6	Diesel	225	Unknown
7	Other	275	Unknown

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Additionally, eight additional aboveground 275-gallon storage tanks were identified in the basement southeast hallway opposite the shooting ranges, and not identified in the regulatory database.

Sanborn fire insurance maps for the years 1896, 1900, 1914, 1945, 1950, 1981, 1991, 1992, 1993, 1995 and 1996, and aerial photographs for years 1954, 1966, 1975, 1984 and 1994 provided by Environmental Data Resources, Inc. did not provide any indication of tank locations.

An electro-magnetic of suspect areas was performed by NAEVA (Appendix G) indicated that two buried tanks might exist in the garage parking area. Presumably, these could be the closed tanks identified as tank 1 –diesel and tank 2- unleaded gasoline.

SURVEY LIMITATIONS

No lighting, extensive debris, standing water and microbial growth obscure many areas throughout the facility. These limitations impeded access and restricted viewing of some materials. Access to the upper shed roof and the entire north roof was not possible during this survey.

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CONCLUSIONS AND RECOMMENDATIONS

Asbestos

Asbestos containing materials have been located throughout the Kingsbridge Armory. Asbestos containing materials identified by the survey or revealed by subsequent demolition to be asbestos containing should be removed and disposed of prior to initiation of construction activities. The removal of these materials should be conducted by a State of New York licensed asbestos abatement contractor in accordance with all applicable federal, state, and local regulations. Sufficient sample density exists from the plasters to allow ATC to prepare a New York City Department of Environmental Protection Asbestos Control Program form 5 (Not an Asbestos Project) for demolition of plaster surfaces following abatement of the asbestos containing materials.

Lead - (Painted Surfaces)

All painted surfaces and building components should be assumed to contain lead and be handled in accordance with the requirements of the OSHA Lead Exposure in Construction Standard (29 CFR 1926.62) and any other local requirements. Painted components within the Armory are in generally poor condition throughout and should be considered lead containing for purposes of OSHA compliance, waste stream management and environmental dust control.

This survey does not relieve any renovation/demolition contractors from the responsibility of:

- The Occupational Safety and Health Administration's (OSHA) Construction Industry requirements.
- The Resource Conservation and Recovery Act (RCRA) requirements for testing and disposal of lead-contaminated materials.
- Any other applicable federal, state, or local regulations.

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Lead –(Target Ranges)

All sand including wood dead stop material should be handled and disposed of as lead contaminated material.

PCB/DEHP, Mercury

All PCB/DEHP-contaminated materials should be incinerated pursuant to the U.S. Environmental Protection Agency's PCB Rules 40 CFR Part 761 and relevant state rules and regulations. All mercury containing lighting lamps, such as: Fluorescent, Mercury Vapor, and High Intensity Discharge lamps (including Metal Halide lamps, High Pressure Sodium lamps, and Low Pressure Sodium lamps) should be disposed through a complete recycling process.

Storage Tanks

Tanks 1 and 2 appear to have been closed and abandoned in place, which can be verified by test pits. Additional investigation is required to ascertain the disposition of tanks 3 through 7. The seven aboveground storage tanks identified by the survey need to be examined/tested for product type, content and eventual disposition

MISCELANEOUS

The Kingsbridge Armory is identified as a large quanity generator of hazardous/regulated waste. This registration if inactive should be closed out. Throughout the Armory, various paints, solvents and maintenance products were observed that would require consolidation and disposal. Abandoned refrigeration/air conditioner units may contain CFC compounds and require reclamation prior to disposal. Several animal/bird carcasses and small quantities of avian excreta were observed in localized areas, disturbance of these items would require personal protective equipment.

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APPENDIX A:
SAMPLE ANALYSIS RESULTS IN TABULAR FORM

Building	HA #	Bulk Sample	Material	Floor	Sample Coordinates	(Type & %)
Armory	FT1	001	Floor Tile "wood grain"	1	Rm # 1W-6	6% Chrysotile
Armory	FT1	002	Floor Tile "wood grain" 9"x 9"	1	Rm # 1W-6	NA
Armory	FT1	003	Floor Tile "wood grain" 9"x 9"	1	Rm # 1W-6	NA
Armory	MS1	004	Mastic from wood grn ft	1	Rm # 1W-6	INC
Armory	MS1	005	Mastic from wood grn ft	1	Rm # 1W-6	INC
Armory	MS1	006	Mastic from wood grn ft	1	Rm # 1W-6	INC
Armory	FT2	007	Floortile 9"x 9"	1	Rm # 1W-5	18% Chrysotile
Armory	FT2	008	Maroone	1	Rm # 1W-5	NA
Armory	FT2	009	Maroone	1	Rm # 1W-5	NA
Armory	MS2	010	Mastic maroone Floor Tile	1	Rm # 1W-5	INC
Armory	MS2	011	Mastic maroone Floor Tile	1	Rm # 1W-5	INC
Armory	MS2	012	Mastic maroone Floor Tile	1	Rm # 1W-5	INC
Armory	FT3	013	Floor tile brown 9"x 9"	1	Rm # 1E-4	5% Chrysotile
Armory	FT10	014	Floor tile brown 9"x 9"	2	Rm # 2E-3	NA
Armory	FT10	015	Floor tile brown 9"x 9"		Set #1 office	NA
Armory	MS3	016	Mastic Brown - Floor Tile	1	Rm #1E-4	INC
Armory	FT10	017	Floor tile brown 9"x 9"	2	Rm #2E-3	INC
Armory	MS10	018	Mastic brown FT		Set #1 office	INC
Armory	FT4	019	Floor Tile Black 9"x 9"	1	Rm # 1E-1	12% Chrysotile
Armory	FT4	020	Floor Tile Black 9"x 9"	1	Rm # 1E-1	NA
Armory	FT4	021	Floor Tile Black 9"x 9"	1	Rm # 1E-1	NA
Armory	MS4	022	Mastic Black - Floor Tile	1	Rm # 1E-1	INC
Armory	MS4	023	Mastic Black - Floor Tile	1	Rm # 1E-1	INC
Armory	MS4	024	Mastic Black - Floor Tile	1	Rm # 1E-1	INC
Armory	FT5	025	Floor tile - Red 9"x 9"	1	Rm # 1W-4	6% Chrysotile
Armory	FT5	026	Floor tile - Red 9"x 9"	1	Rm # 1W-4	NA
Armory	FT5	027	Floor tile - Red 9"x 9"	1	Rm #1E-2	NA

NAD - No Asbestos Detected
INC - Inconclusive by PLM
NA - Not Analysed

Building	HA #	Bulk Sample	Material	Floor	Sample Coordinates	(Type & %)
Armory	MS5	028	Mastic red	1	Rm # 1W-4	INC
Armory	MS5	029	Mastic red	1	Rm # 1W-4	INC
Armory	MS5	030	Mastic red	1	Rm #1E-2	INC
Armory	FT6	031	Floor tile - blue 9"x 9"	1	Rm # 1W-4	22% Chrysotile
Armory	FT6	032	Floor tile - blue 9"x 9"	1	Rm # 1W-4	NA
Armory	FT6	033	Floor tile - blue 9"x 9"	1	Rm # 1W-4	NA
Armory	MS6	034	Mastic blue - Floor Tile	1	Rm # 1W-4	INC
Armory	MS6	035	Mastic blue - Floor Tile	1	Rm # 1W-4	INC
Armory	MS6	036	Mastic blue - Floor Tile	1	Rm # 1W-4	INC
Shelter		037	Floor tile - white 12" x 12"	BM	Womens Shelter	INC
Shelter		038	Floor tile - white 12" x 12"	BM	Medical Office	INC
Shelter		039	Floor tile - white 12" x 12"	BM	Medical Office	INC
Shelter		040	Mastic white - Floor Tile	BM	Womens shelter medical office	INC
Shelter		041	Mastic white 12" ft	BM	Womens shelter medical office	INC
Shelter		042	Mastic white 12" ft	BM	Womens shelter medical office	INC
Armory	FT7	043	Brown Linoleum	1	Rm #1W-5	2% Chrysotile
Armory	FT11	044	Brown Linoleum	1	Rm #1W-5	NA
Armory	FT7	045	Brown Linoleum	1	Rm #1W-5	NA
Armory	FT8	046	White Linoleum	1	Rm #1W-1	INC
Armory	FT8	047	White Linoleum	1	Rm #1W-1	INC
Armory	FT8	048	White Linoleum	1	Rm #1W-1	INC
Armory	FT9	049	Black Linoleum	1	SWT #2 Upper Office	INC
Armory	FT9	050	Black Linoleum	1	1W - 1	INC
Armory	FT9	051	Black Linoleum	1	SWT #2 Upper Office	INC
Shelter		052	Tan 12" x 12" Floor Tile	BM	Womens Shelter	INC
Shelter		053	Tan 12" x 12" Floor Tile	BM	Hallway	INC
Shelter		054	Tan 12" x 12" Floor Tile	BM	Dorm #	INC

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Building	HA #	Bulk Sample	Material	Floor	Sample Coordinates	(Type & %)
Shelter		055	Mastic 12"x 12' Floor Tile	BM	Dorm #	INC
Shelter		056	Mastic 12"x 12' Floor Tile	BM	Dorm #	INC
Shelter		057	Mastic 12"x 12' Floor Tile	BM	Dorm #	INC
Shelter		058	Void			VOID
Shelter		059	2'x 2' Ceiling Tile	BM	Womens shelter medical office	NAD
Shelter		060	2'x 2' Ceiling Tile	BM	Womens shelter medical office	NAD
Shelter		061	2'x 2' Ceiling Tile	BM	Womens shelter medical office	NAD
Shelter		062	2'x 2' Ceiling Tile	BM	Womens shelter medical office	NAD
Shelter		063	2'x 4' Ceiling Tile	BM	Womens shelter lounge	NAD
Shelter		064	2'x 4' Ceiling Tile	BM	Womens shelter lounge	NAD
Shelter		065	2'x 4' Ceiling Tile	BM	Womens shelter cafeteria	NAD
Shelter		066	2'x 4' Ceiling Tile	BM	Womens shelter cafeteria	NAD
Shelter		067	Cove Base	BM	Womens shelter cafeteria	INC
Shelter		068	Cove Base	BM	Womens shelter cafeteria	INC
Shelter		069	Cove Base	BM	Womens shelter cafeteria	INC
Shelter		070	Cove Base	BM	Womens shelter cafeteria	INC
Armory	CT1	071	2'x 4' Ceiling Tile	1	Room 1E2	NAD
Armory	CT1	072	2'x 4' Ceiling Tile	1	Room 1E2	NAD
Armory	CT1	073	2'x 4' Ceiling Tile	1	Room 1E2	NAD
Armory	CT2	074	1'x 1' Ceiling Tile	1	Room 1W4	NAD
Armory	CT2	075	1'x 1' Ceiling Tile	1	Debris on floor 1W4	NAD
Armory	CT2	076	1'x 1' Ceiling Tile	1	Debris on floor 1W5	NAD
Shelter		077	Elbow Mud	BM	Womens shelter	NAD
Shelter		078	Elbow Mud	BM	Womens shelter	NAD
Shelter		079	Elbow Mud	BM	Womens shelter	NAD
Armory	TSI1	080	Woven Pipe Wrap	2	Room 2E2	NAD
Armory	TSI1	081	Woven Pipe Wrap	2	Room 2E3	NAD

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NA - Not Analysed

Building	HA #	Bulk Sample	Material	Floor	Sample Coordinates	(Type & %)
Armory	TSI1	082	Woven Pipe Wrap	2	Room 2E4	NAD
Armory		083	Woven Pipe Wrap	2	Room 2E5	NAD
Armory	M1	084	Window Glazing	2	Rm. SE-1	INC
Armory	M1	085	Window Glazing	2	Rm. SE-1	INC
Armory	M1	086	Window Glazing	1	Roof Turret	INC
Armory	M2	087	Wallboard	1	RM. SW-5	NAD
Shelter		088	Wallboard	BM	RM. SW-4	NAD
Shelter		089	Wallboard	BM	Shelter	NAD
Armory		090	Wallboard	SWT-1	Shelter	INC
Armory		091	Wallboard	SWT-1	Turret	INC
Armory		092	Wallboard	SWT-1	Turret	INC
Armory		093	Wallboard	SWT-1	Turret	NAD
Armory		094	Wallboard	SWT-1	Turret	NAD
Armory		095	Wallboard	SWT-1	Turret	NAD
Reserve	1	A-01	9" Grey VFT	2	Rm 2-1	2.7% Chrysotile
Reserve	1	A-02	9" Grey VFT	2	Rm 2-2	NA
Reserve	1	A-03	9" Grey VFT	2	Rm 2-3	NA
Reserve	2	A-04	9" Black VFT	2	Rm 2-1	INC
Reserve	2	A-05	9" Black VFT	2	Rm 2-2	INC
Reserve	2	A-06	9" Black VFT	2	Rm 2-3	INC
Reserve	3	A-07	Mastic on homo # 01 & # 07	2	Rm 2-3	INC
Reserve	3	A-08	Mastic on homo # 01 & # 07	2	Rm 2-1	INC
Reserve	3	A-09	Mastic on homo # 01 & # 07	2	Rm 2-15	INC
Reserve	4	A-10	Grey floor coating	2	Corridor	INC
Reserve	4	A-11	Grey floor coating	2	Corridor	INC
Reserve	4	A-12	Grey floor coating	2	Corridor	INC
Reserve	5	A-13	12" spline ceiling tile	2	Rm 2-1	NAD

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Building	HA #	Bulk Sample	Material	Floor	Sample Coordinates	(Type & %)
Reserve	5	A-14	12" spline ceiling tile	2	Entrance lobby	NAD
Reserve	5	A-15	12" spline ceiling tile	2	Rm 2-3	NAD
Reserve	6	A-16	6" Black vinyl cove base	2	Rm 2-1	INC
Reserve	6	A-17	6" Black vinyl cove base	2	Rm 2-3	INC
Reserve	6	A-18	6" Black vinyl cove base	2	Rm 2-8	INC
Reserve	7	A-19	Mastic ass. with homo # 06	2	Rm 2-1	INC
Reserve	7	A-20	Mastic ass. with homo # 06	2	Rm 2-3	INC
Reserve	7	A-21	Mastic ass. with homo # 06	2	Rm 2-8	INC
Reserve	8	A-22	12" white/grey streaks VFT	2	Rm 2-8	INC
Reserve	8	A-23	12" white/grey streaks VFT	2	Rm 2-8	INC
Reserve	8	A-24	12" white/grey streaks VFT	2	Rm 2-8	INC
Reserve	9	A-25	Mastic ass. with homo # 08	2	Rm 2-8	INC
Reserve	9	A-26	Mastic ass. with homo # 08	2	Rm 2-8	INC
Reserve	9	A-27	Mastic ass. with homo # 08	2	Rm 2-8	INC
Reserve	10	A-28	Wall board as ceiling	1	Corridor	NAD
Reserve	10	A-29	Wall board as ceiling	1	Corridor	NAD
Reserve	10	A-30	Wall board as ceiling	2	Corridor	NAD
Reserve	11	A-31	Outside window caulking (tan)	2	Roof	INC
Reserve	11	A-32	Outside window caulking (tan)	2	Roof	INC
Reserve	11	A-33	Outside window caulking (tan)	2	Roof	INC
Reserve	12	A-34	White window glazing	2	Roof	INC
Reserve	12	A-35	White window glazing	2	Roof	INC
Reserve	12	A-36	White window glazing	2	Roof	INC
Reserve	13	A-37	Coping stone caulking	R	Roof	INC
Reserve	13	A-38	Coping stone caulking	R	Roof	INC
Reserve	13	A-39	Coping stone caulking	R	Roof	INC
Reserve	14	A-40	Tar paper on fiberglass pipe insulation	B	Corridor	INC

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Building	HA #	Bulk Sample	Material	Floor	Sample Coordinates	(Type & %)
Reserve	14	A-41	Tar paper on fiberglass pipe insulation	B	Corridor	INC
Reserve	14	A-42	Tar paper on fiberglass pipe insulation	B	East side room	INC
Reserve	15	A-43	Cementations pipe fitting on fiberglass pipe	1	Locker room	50% Chrysotile
Reserve	15	A-44	Cementations pipe fitting on fiberglass pipe	B	Corridor	NA
Reserve	15	A-45	Cementations pipe fitting on fiberglass pipe	B	Northside room	NA
Armory	P01	P-01	1st Coat White Wall Plaster	1	RM 1W4	NAD
Armory	P02	P-02	2nd Coat Brown Wall Plaster	1	RM 1W4	NAD
Armory	P01	P-03	1st Coat White Column Plaster	1	Entrance Lobby Column	NAD
Armory	P02	P-04	2nd Coat Brown Column Plaster	1	Entrance Lobby Column	NAD
Armory	P01	P-05	1st Coat White Wall Plaster	1	East Wall of Entrance Lobby	NAD
Armory	P02	P-06	2nd Coat Brown Wall Plaster	1	East Wall of Entrance Lobby	NAD
Armory	P01	P-07	1st Coat White Wall Plaster	1	Room 1E1	NAD
Armory	P02	P-08	2nd Coat Brown Wall Plaster	1	Room 1E1	NAD
Armory	P01	P-09	1st Coat White Ceiling Plaster	1M	RM 1E3 Mezz	NAD

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Building	HA #	Bulk Sample	Material	Floor	Sample Coordinates	(Type & %)
Armory		P1	Built-up Roofing	R	Existing probe -P1	4% Chrysotile
Armory	P02	P-10	2nd Coat Brown Ceiling Plaster	1M	RM 1E3 Mezz	NAD
Armory	P01	P-11	1st Coat White Ceiling Plaster	1	RM 1E5	NAD
Armory	P02	P-12	2nd Coat Brown Ceiling Plaster	1	RM 1E5	NAD
Armory	P01	P-13	1st Coat White Suspend Ceiling Plaster	1	Lobby Area of West Side Stair Case	NAD
Armory	P02	P-14	2nd Brown Coat Under # P-13	1	Lobby Area of West Side Stair Case	NAD
Armory	P01	P-15	1st Coat White Ceiling Plaster	1	RM 1W6	NAD
Armory	P02	P-16	2nd Coat Brown Ceiling Plaster	1	RM 1W6	NAD
Armory	P01	P-17	1st Coat White Wall Plaster	1	Entrance Area West Turret Room	NAD
Armory	P02	P-18	2nd Coat Brown Wall Plaster	1	Entrance Area West Turret Room	NAD
Armory	P03	P-19	1st Coat White Ceiling Plaster	2	West Side Stair Way Vestibule	NAD
Armory	R	P2	Built-up Roofing	R	Existing probe -P2	5% Chrysotile
Armory	P04	P-20	2nd Coat Brown Ceiling Plaster	2	West Side Stair Way Vestibule	NAD
Armory	P03	P-21	1st Coat White Ceiling Plaster	2		NAD
Armory	P04	P-22	2nd Coat Brown Ceiling Plaster	2		NAD
Armory	P03	P-23	1st Coat White Wall Plaster	2		NAD
Armory	P04	P-24	2nd Coat Brown Wall Plaster	2		NAD
Armory	P03	P-25	1st Coat White Column Plaster	2	Center Hallway Between Turrets	NAD
Armory	P04	P-26	2nd Coat Brown Column Plaster	2	Center Hallway Between Turrets	NAD
Armory	P03	P-27	1st Coat White Ceiling Plaster	3	Corridor Outside 3rd Floor Bar	NAD
Armory	P04	P-28	2nd Coat Brown Ceiling Plaster	3	Corridor Outside 3rd Floor Bar	NAD
Armory	P03	P-29	1st Coat White Wall Plaster	3	Wall North of Bar Room	NAD
Armory	P04	P-30	2nd Coat Brown Wall Plaster	3	Wall North of Bar Room	NAD
Armory	P03	P-31	1st Coat White Ceiling Plaster	2	East Side Room	NAD
Armory	P04	P-32	2nd Coat Brown Ceiling Plaster	2	East Side Room	NAD
Armory	P03	P-33	1st Coat White Wall Plaster	2	Corridor East End	NAD
Armory		P3-3TAB	3 Tab Shingle	R	Existing probe -P3	2% Chrysotile

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Building	HA #	Bulk Sample	Material	Floor	Sample Coordinates	(Type & %)
Armory	P04	P-34	2nd Coat Brown Wall Plaster	2	Corridor East End	NAD
Armory	P03	P-35	1st Coat White Wall Plaster	3		NAD
Armory	P04	P-36	2nd Coat Brown Wall Plaster	3		NAD
Armory	P05	P-37	1st Coat White Wall Plaster	BM	RM-B-16	NAD
Armory	P06	P-38	2nd Coat Brown Wall Plaster	BM	RM-B-16	NAD
Armory	P05	P-39	1st Coat White Ceiling Plaster	BM	RM-B-16	NAD
Armory		P3-FELT	Tar Paper Underlayment	R	Existing probe -P3	2% Chrysotile
Armory		P3-PAP	Paper Underlayment	R	Existing probe -P3	NAD
Armory	P06	P-40	2nd Coat Brown Ceiling Plaster	BM	RM-B-16	NAD
Armory	P05	P-41	1st Coat White Ceiling Plaster	BM	Center S. Room Between Turrets	NAD
Armory	P06	P-42	2nd Coat Brown Ceiling Plaster	BM	Center S. Room Between Turrets	NAD
Armory	P05	P-43	1st Coat White Column Plaster	BM	Center Vestibule By Stairs Going Down	NAD
Armory	P06	P-44	2nd Coat Brown Column Plaster	BM	Center Vestibule By Stairs Going Down	NAD
Armory	P05	P-45	1st Coat White Wall Plaster	BM	N Side Wall of Shelter	NAD
Armory	P06	P-46	2nd Coat Brown Wall Plaster	BM	N Side Wall of Shelter	NAD
Armory	P05	P-47	1st Coat White Wall Plaster	BM	East Side Room of Shelter	NAD
Armory	P06	P-48	2nd Coat Brown Wall Plaster	BM	East Side Room of Shelter	NAD
Armory	P05	P-49	1st Coat White Ceiling Plaster	BM	South Side Room of Shelter	NAD

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Building	HA #	Bulk Sample	Material	Floor	Sample Coordinates	(Type & %)
Armory		P4-EXT	Built-up Roofing	R	Existing probe -P4	NAD
Armory		P4-FELT	Built-up Roofing	R	Existing probe -P4	NAD
Armory		P4-PAP	3 Tab Shingle	R	Existing probe -P5	2% Chrysotile
Armory	P06	P-50	2nd Coat Brown Ceiling Plaster	BM	South Side Room of Shelter	NAD
Armory	P05	P-51	1st Coat White Ceiling Plaster	BM	RM B-39	NAD
Armory	P06	P-52	2nd Coat Brown Ceiling Plaster	BM	RM B-39	NAD
Armory	P05	P-53	1st Coat White Wall Plaster	BM	RM B-39	NAD
Armory		P5-3TAB	Built-up Roofing	R	Existing probe -P5	Trace Chry
Armory	P06	P-54	2nd Coat Brown Wall Plaster	BM	RM B-39	NAD

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NA - Not Analysed

Building	HA #	Bulk Sample	Material	Floor	Sample Coordinates	(Type & %)
Armory		P5-FELT	Tar Paper Underlayment	R	Existing probe -P5	0.75% Chrysotile
Armory	R-1	R-001	Roofing	R	Flat Roof	3% Chrysotile
Armory	R-1	R-002	Roofing	R	Flat Roof - Elevated Section	NA
Armory	R-1	R-003	Roofing	R	Tower Roof	NA
Armory	R-2	R-004	Cap Stone Caulk	R	Roof	INC
Armory	R-2	R-005	Cap Stone Caulk	R	Roof	INC

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Building	HA #	Bulk Sample	Material	Floor	Sample Coordinates	(Type & %)
Armory	R-2	R-006	Cap Stone Caulk	R	Roof	INC
Armory	1	R-1	Built-up Roofing (upper)	R	Main Roof	4% Chrysotile
Armory	2	R-2	3-Tab Shingle (lower)	R	Main Roof	3.6% Chrysotile
Armory	3	R-3	Tar Paper Underlayment (lower)	R	Main Roof	NAD
Armory	4	R-4	Paper Underlayment (lower)	R	Main Roof	NAD
Armory	SB-1	SB001	Boiler Mud	SB	Boiler Room	NAD
Armory	SB-1	SB002	Boiler Mud	SB	Boiler Room	NAD
Armory	SB-1	SB003	Boiler Mud	SB	Boiler Room	NAD
Armory	SB-2	SB004	Breeching Insulation	SB	Boiler Room	NAD
Armory	SB-2	SB005	Breeching Insulation	SB	Boiler Room	NAD
Armory	SB-2	SB006	Breeching Insulation	SB	Boiler Room	NAD
Armory	SB-3	SB007	Elbow Mud	SB	Boiler Room	NAD
Armory	SB-3	SB008	Elbow Mud	SB	Boiler Room	NAD
Armory	SB-3	SB009	Elbow Mud	SB	Boiler Room	NAD

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APPENDIX D:
ASBESTOS CONTAINING MATERIALS BY LOCATION

Building	Floor	Room/Location	Thermal System Insulation	Floor Tile/Flooring Material	Fixtures	Florescent Tubes	Ballasts	Metal Halides
Armory	1	1E-1	-	1,050	-	-	-	
Armory	1	1E-2	20	1,050	-	-	-	
Armory	1	1E-3	20	150	4	2	1	
Armory	1	1E-4	20	1,120	6	6	3	
Armory	1	1E-5	50	120	-	-	-	
Armory	1	1E-6	50	120	5	4	2	
Armory	1	1E-7	-	-	18	18	9	
Armory	1	1E-8	-	-	10	10	5	
Armory	1	1W-1	20	200	32	6	3	
Armory	1	1W-2	60	500	6	24	12	
Armory	1	1W-3	20	500	6	24	12	
Armory	1	1W-4	20	1,050	7	38	16	
Armory	1	1W-5	-	200	4	16	8	
Armory	1	1W-6	30	400	6	24	12	
Armory	1	1W-7	-	-	-	-	-	
Armory	1	1W-8	-	-	-	-	-	
Armory	1	1W-9	230	-	24	24	24	
Armory	1	Drill Floor	3,000	-	25	50	25	100
Armory	1	SWT-1	-	-	-	-	-	
Armory	1	SWT-2	-	-	-	-	-	
Armory	1	SET-1	-	-	-	-	-	
Armory	1	SET-2	-	-	-	-	-	
Armory	2	2SE-1A	40	1,200	6	12	6	
Armory	2	2SE-1B	165	1,200	6	8	6	
Armory	2	2SE-2	30	1,200	6	12	6	
Armory	2	2SE-3	50	1,200	6	12	6	

Building	Floor	Room/Location	Thermal System Insulation	Floor Tile/Flooring Material	Fixtures	Florescent Tubes	Ballasts	Metal Halides
Armory	2	2SE-4	30	1,200	6	12	6	
Armory	2	2SE-5	30	1,200	6	12	6	
Armory	2	2SE-6	100	1,200	7	18	9	
Armory	2	2SE-7	50	1,500	9	18	9	
Armory	2	2SW-1	-	-	5	10	5	
Armory	2	2SW-2	-	-	-	-	-	
Armory	2	2SW-3	-	-	-	-	-	
Armory	2	2SW-4	-	-	-	-	-	
Armory	2	2SW-4-Bathroom	90	3,600	-	-	-	
Armory	2	2SW-5	90	2,000	-	-	-	
Armory	2	2SW-6	-	2,000	10	20	10	
Armory	2	2SW-7	-	-	6	12	6	
Armory	2	2SWT-1	-	-	4	8	4	
Armory	2	2SWT-2	-	-	-	-	-	
Armory	2	2SET-1	-	-	4	8	4	
Armory	2	2SET-2	-					
Armory	2	Hallway	-	-	19	38	19	
Armory	3	Lounge	-	2,700	-	-	-	
Armory	3	3SET-1	50	2,100	-	-	-	
Armory	3	3SET-2	100	2,100	-	-	-	
Armory	3	3SWT1	60	1,500	-	-	-	
Armory	3	3SWT-2	-	-	-	-	-	
Armory	4	4SET-1	-	150	-	-	-	
Armory	4	4SET-2	-	-	-	-	-	
Armory	4	4SWT-1	-	-	-	-	-	
Armory	4	4SWT-2	-	-	-	-	-	

Building	Floor	Room/Location	Thermal System Insulation	Floor Tile/Flooring Material	Fixtures	Florescent Tubes	Ballasts	Metal Halides
Armory	B	BE-17	160	-	4	10	5	
Armory	B	C12			6	6	3	
Armory	B	C13			21	24	12	
Armory	B	C15	20	-	-	-	-	
Armory	B	C16	10	-	2	8	4	
Armory	B	C17	20	-	1	4	2	
Armory	B	C18	15	-	1	4	2	
Armory	B	C19	15	-	1	2	1	
Armory	B	C20	20	-	-	-	-	
Armory	B	C21	20	-	-	-	-	
Armory	B	C22	10	-	-	-	-	
Armory	B	C23	40	-	-	-	-	
Armory	B	C24	25	-	-	-	-	
Armory	B	C33A	55	-	7	21	11	
Armory	B	C33B	55	-	-	-	-	
Armory	B	C33C	55	-	-	-	-	
Armory	B	C33D	55	-	-	-	-	
Armory	B	C33E	-	-	-	-	-	
Armory	B	C33F	-	-	15	30	15	
Armory	B	C33G	55	-	-	-	-	
Armory	B	C34	20	-	-	-	-	
Armory	B	C35	30	-	-	-	-	
Armory	B	C36	20	-	1	4	2	
Armory	B	C37	40	-	-	-	-	
Armory	B	C41	15	-	-	-	-	
Armory	B	C42	20	-	-	-	-	

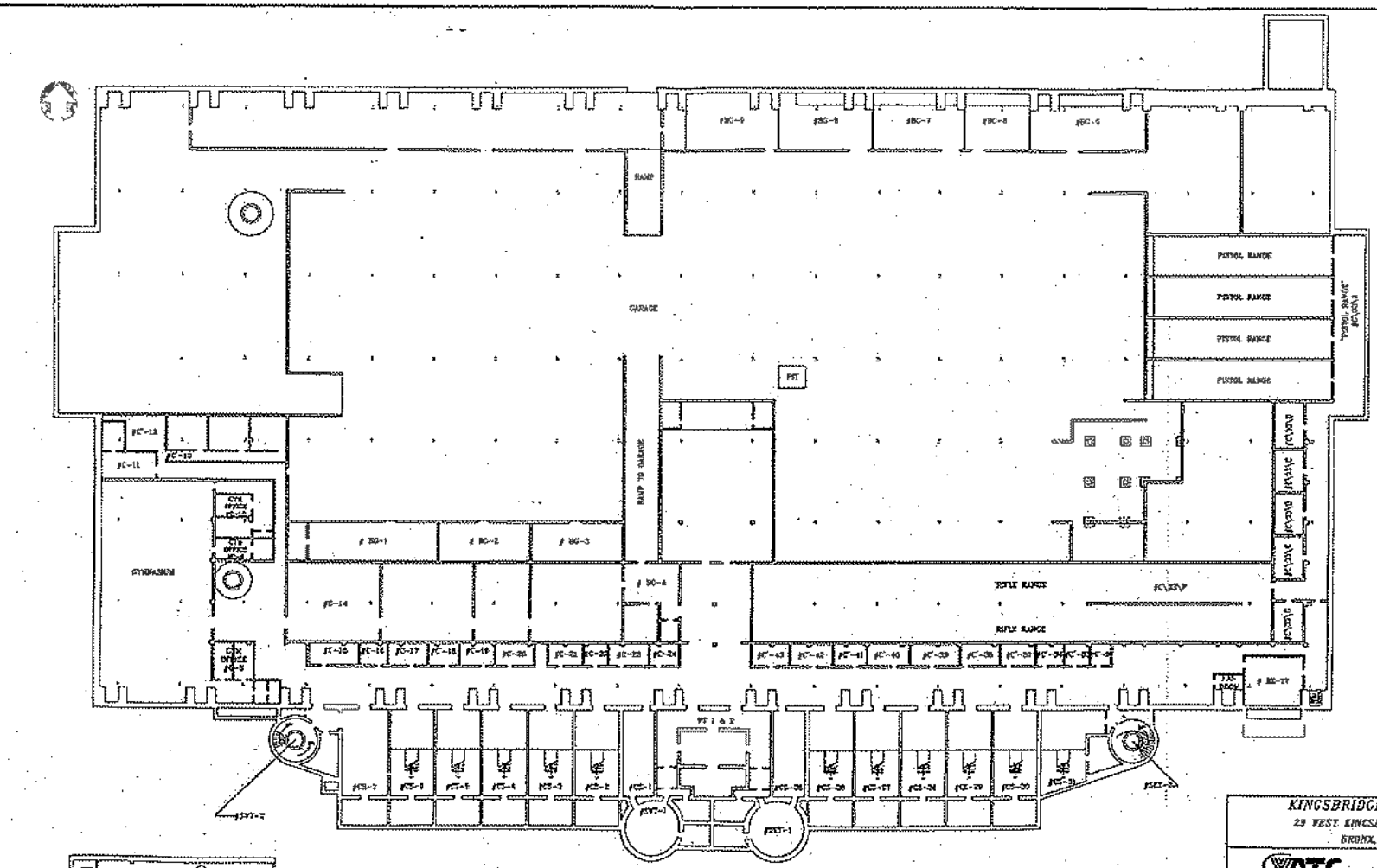
Building	Floor	Room/Location	Thermal System Insulation	Floor Tile/Flooring Material	Fixtures	Florescent Tubes	Ballasts	Metal Halides
Armory	B	C43	40	-	-	-	-	
Armory	B	C14	230	300	14	28	14	
Armory	B	CS1	120	-	14	12	6	
Armory	B	CS12	80	-	6	6	3	
Armory	B	CS2	165	-	12	36	24	
Armory	B	CS26	220	-	14	32	16	
Armory	B	CS27	220	-	12	32	16	
Armory	B	CS28	220	-	14	32	16	
Armory	B	CS29	140	-	14	32	16	
Armory	B	CS3	165	-	12	36	24	
Armory	B	CS30	200	-	14	32	16	
Armory	B	CS31	200	-	14	32	16	
Armory	B	CS4	165	-	15	48	28	
Armory	B	CS5	165	-	12	36	24	
Armory	B	CS6	110	-	12	36	24	
Armory	B	CS7	240	-	5	6	8	
Armory	B	CSS25	105	-	14	12	6	
Armory	B	E1	90	-				
Armory	B	Fan Room	10	-				
Armory	B	Garage	1,550	-	12	24	12	
Armory	B	Gymnasium	1,020	-				
Armory	B	Gymnasium Hallway (EW)	200	-	14	28	15	
Armory	B	Gymnasium Hallway (NS)	300	-	3	6	3	
Armory	B	C9	50	-				
Armory	B	C8	30	-				
Armory	B	C10	100	-				

Building	Floor	Room/Location	Thermal System Insulation	Floor Tile/Flooring Material	Fixtures	Florescent Tubes	Ballasts	Metal Halides
Armory	B	SET2	25	-				
Armory	B	SET2	-	-				
Armory	B	Slop Sink Room	30	-				
Armory	B	SWTC1	40	-				
Armory	B	WT1	290	-	18	18	18	
Armory	B	WT2	290	-				
Armory	B	WTC3	50	-				
Armory	BM	A1	-	400				
Armory	BM	B1	50	-	1	4	2	
Armory	BM	B10	250	600				
Armory	BM	B13	15	-				
Armory	BM	B14	140	-				
Armory	BM	B15	40	-				
Armory	BM	B2	50	-				
Armory	BM	B23	50	-	2	4	2	
Armory	BM	B24	25	-				
Armory	BM	B25	55	-				
Armory	BM	B26	25	-				
Armory	BM	B27	30	-	1	3	2	
Armory	BM	B28	20	-				
Armory	BM	B29	50	-	2	8	4	
Armory	BM	B3	50	-	2	4	2	
Armory	BM	B30	50	-				
Armory	BM	B31	50	-				
Armory	BM	B32	50	-	1	4	2	
Armory	BM	B33	50	-	2	4	2	

Building	Floor	Room/Location	Thermal System Insulation	Floor Tile/Flooring Material	Fixtures	Florescent Tubes	Ballasts	Metal Halides
Armory	BM	B34	50	-				
Armory	BM	B35	50	-	2	8	4	
Armory	BM	B37	50	-				
Armory	BM	B38	-	-	4	1	2	
Armory	BM	B4	50	-	1	2	1	
Armory	BM	B5	50	-	1	2	1	
Armory	BM	B51	-	-				
Armory	BM	B52	-	-				
Armory	BM	B53	-	-				
Armory	BM	B54	-	-				
Armory	BM	B6	60	-	1	4	2	
Armory	BM	B7	70	-				
Armory	BM	B8	50	-	3	12	6	
Armory	BM	B9	50	-				
Armory	BM	B39			9	36	18	
Armory	BM	B40						
Armory	BM	Balcony	-	-				
Armory	BM	Hallway	20	-	34	68	34	
Armory	BM	Lecture Hall	60	-				
Armory	BM	Loading Area	400	-				9.00
Armory	BM	Open Store Areas	-	-				
Armory	R	Roofing						
Armory	SB	Boiler Room	-	-				
Shelter	B	C33E	55	-				
Shelter	B	C33F	55	-				
Shelter	B	C38	40	-				

Building	Floor	Room/Location	Thermal System Insulation	Floor Tile/Flooring Material	Fixtures	Florescent Tubes	Ballasts	Metal Halides
Shelter	B	C39	80	-				
Shelter	B	C40	35	-				
		Flooring Total		**9,850**				
		Thermal System Total	**14,315**		**623**	**1,247**	**680**	**109**
		Roofing Total	**235,000**					

APPENDIX H:
SURVEY DRAWINGS



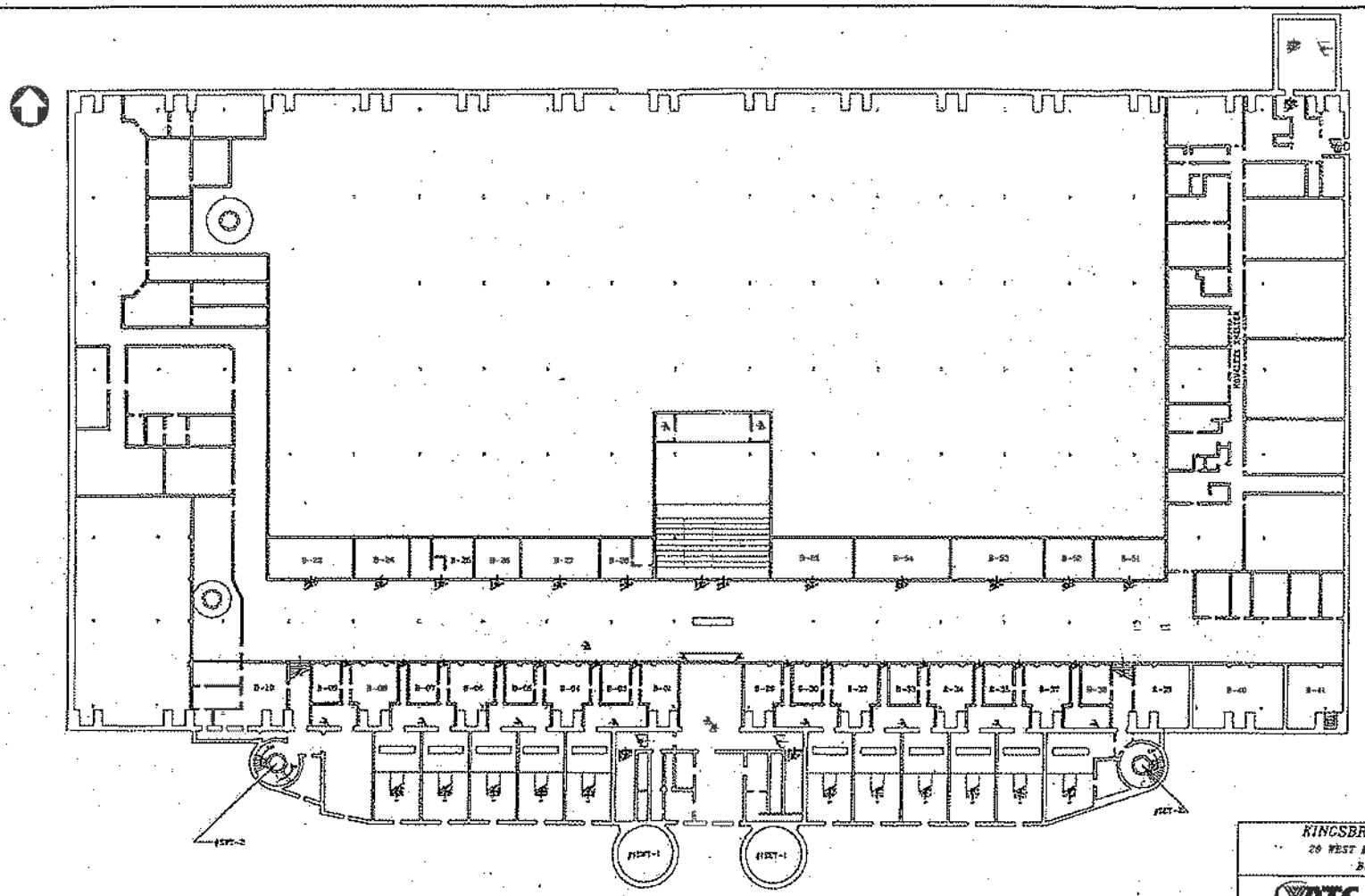
KINGSBRIDGE ARMORY
29 WEST KINGSBRIDGE ROAD,
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ROOM NUMBERS
BASEMENT AND SUB BASEMENT
"BOILER ROOM"

PROJ.#75818	FILE: M:\CAD94\75818.001\A-1
DRAWN BY: K. FROLOV	SCALE: NOT TO SCALE
CHECKED BY: J. RUCHALSKI	DATE: 09/21/00 A-1

FILE: M:\CAD94\75818.001\A-1



BASEMENT MEZZANINE PLAN

KINGSBRIDGE ARMORY
29 WEST KINGSBRIDGE ROAD,
BRONX, NY

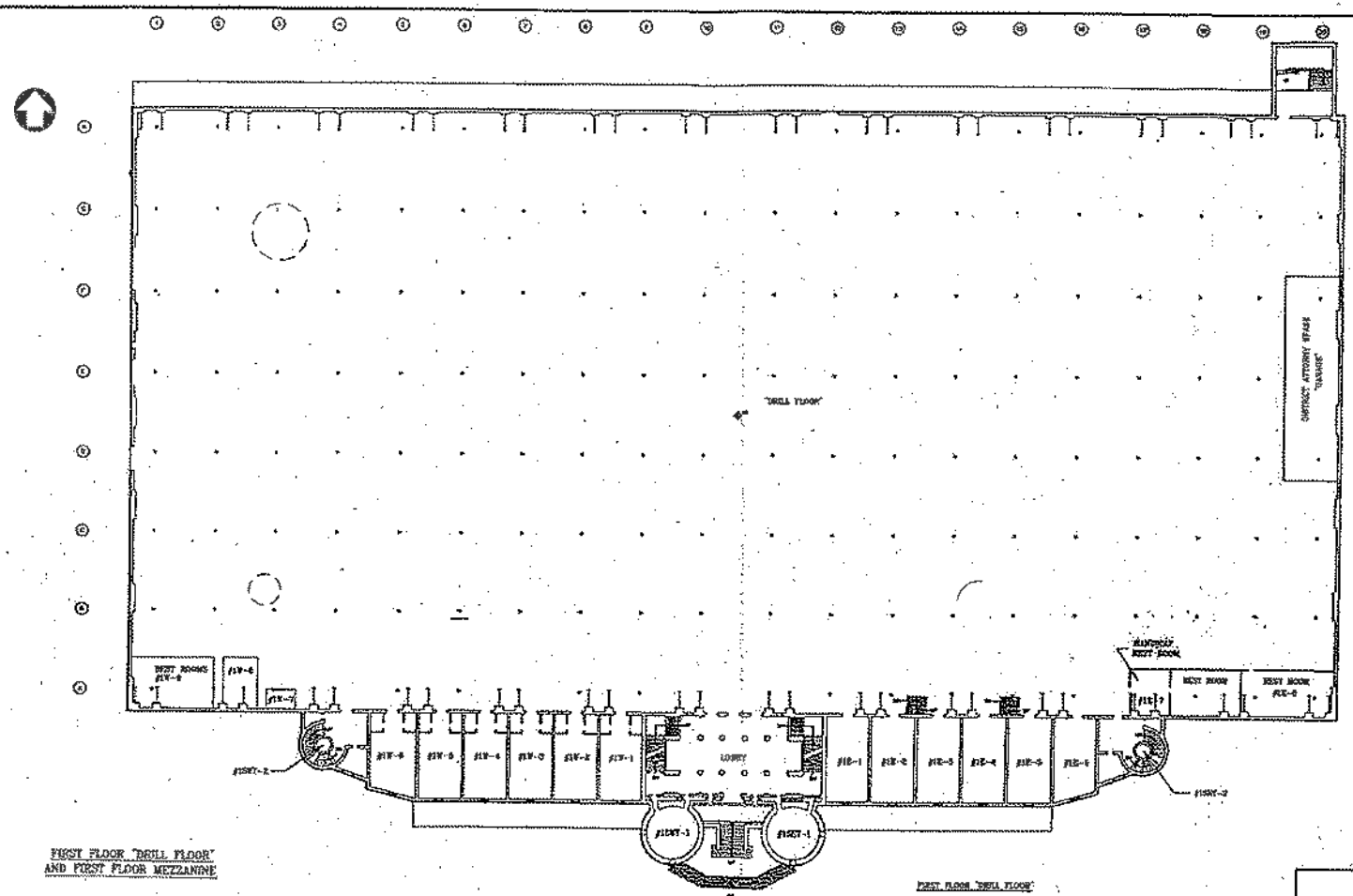
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ROOM NUMBERS

BASEMENT MEZZANINE PLAN

PROJ.#750118	FILE: M:\CADD#\750118.001\A-2
DRAWN BY: Y. MOLCHANENKO	SCALE: NOT TO SCALE
CHECKED BY: J. RUCHALSKI	DATE: 06/21/08 A-2

FILE: M:\CADD#\750118.001\A-2



FIRST FLOOR "DRILL FLOOR" AND FIRST FLOOR MEZZANINE

KINGSBRIDGE ARMORY
29 WEST KINGSBRIDGE ROAD,
BRONX, NY

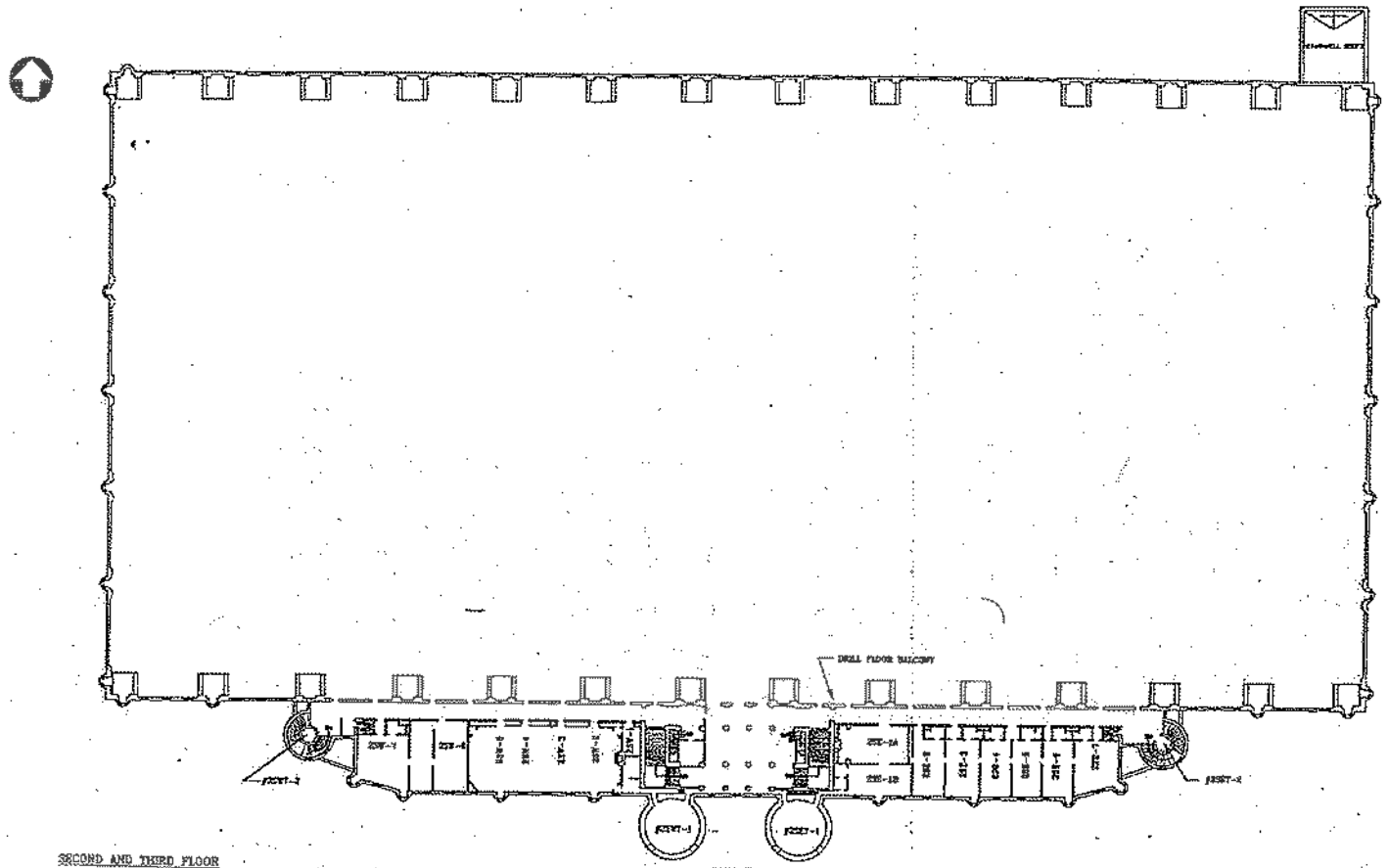
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ROOM NUMBER

FIRST FLOOR "DRILL FLOOR" AND FIRST FLOOR MEZZANINE

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DRAWN BY: V.NOLCRAMENKO	SCALE: NOT TO SCALE
CHECKED BY: J. RUCHALSKI	DATE: 09/21/00 A-3

FILE: M:\CADS\75016.001\A-3



SECOND AND THIRD FLOOR

KINGSBRIDGE ARMORY
29 WEST KINGSBRIDGE ROAD,
BRONX, NY

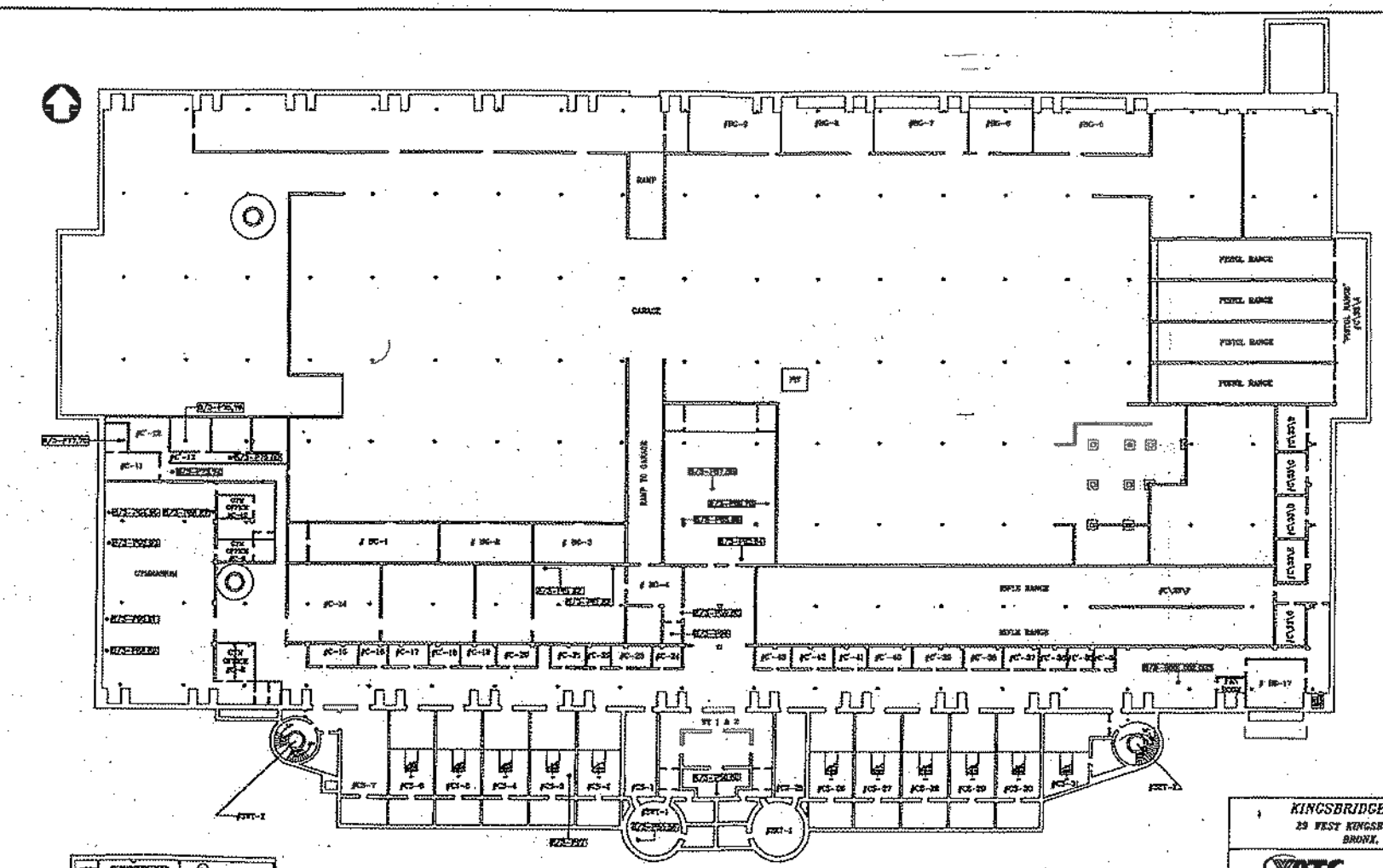
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ROOM NUMBERS

SECOND AND THIRD FLOOR

PROJ. #75018	FILE: M:\CADD#\75018.001\A-4	
DRAWN BY: Y.KOLCHANENKO	SCALE: NOT TO SCALE	
CHECKED BY: J. RUCHALSKI	DATE: 03/21/00	A-4

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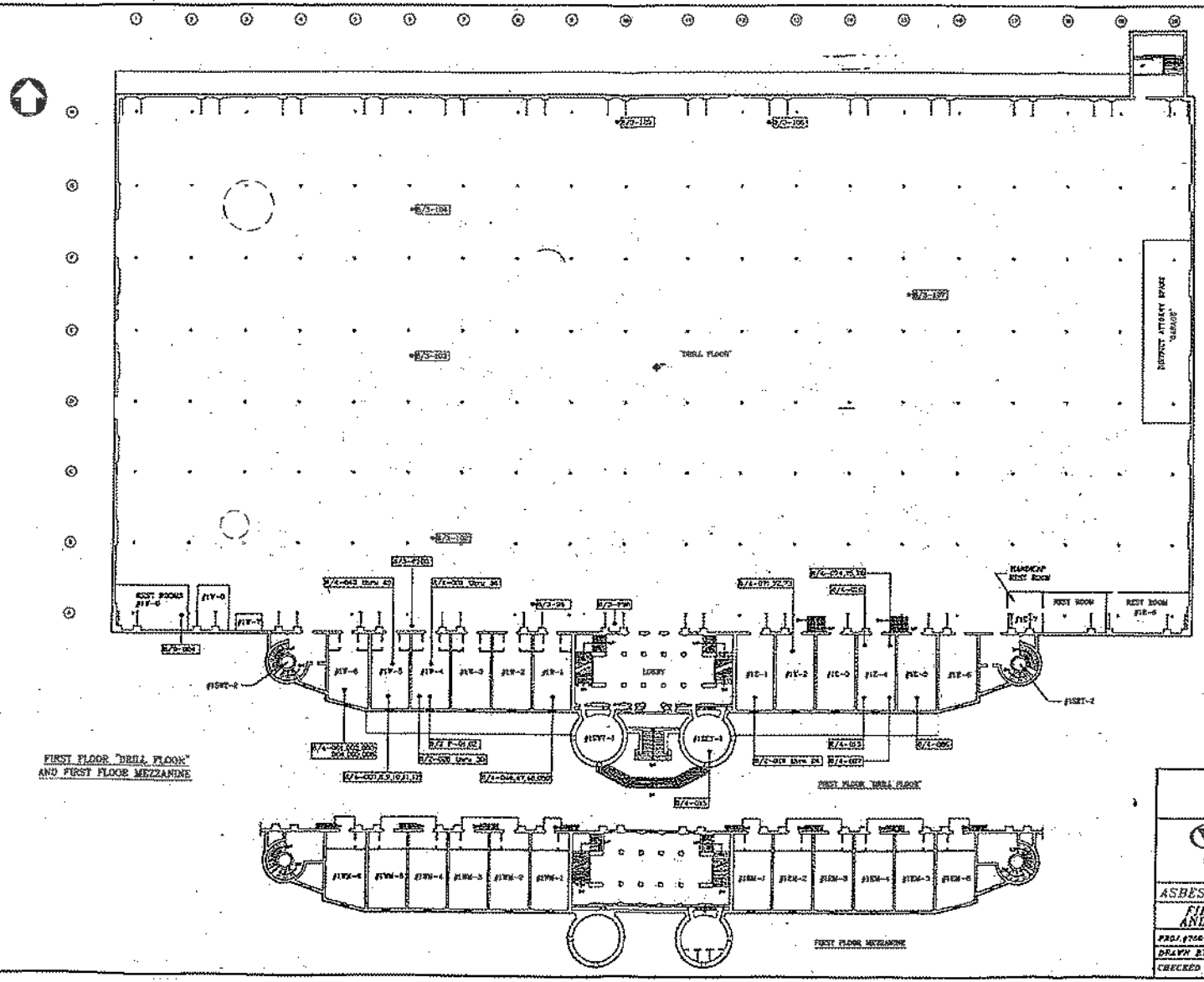
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29 WEST KINGSBRIDGE ROAD,
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ASBESTOS BULK SAMPLE LOCATIONS
BASEMENT AND SUB BASEMENT
"BOILER ROOM"

PROJECT#: 01A	FILE: N:\CLOSE\175001B.001\A-BU
DRAWN BY: V. PROLOY	SCALE: NOT TO SCALE
CHECKED BY: J. RUCHALSKI	DATE: 08/15/00

A-BU



FIRST FLOOR "DRILL FLOOR" AND FIRST FLOOR MEZZANINE

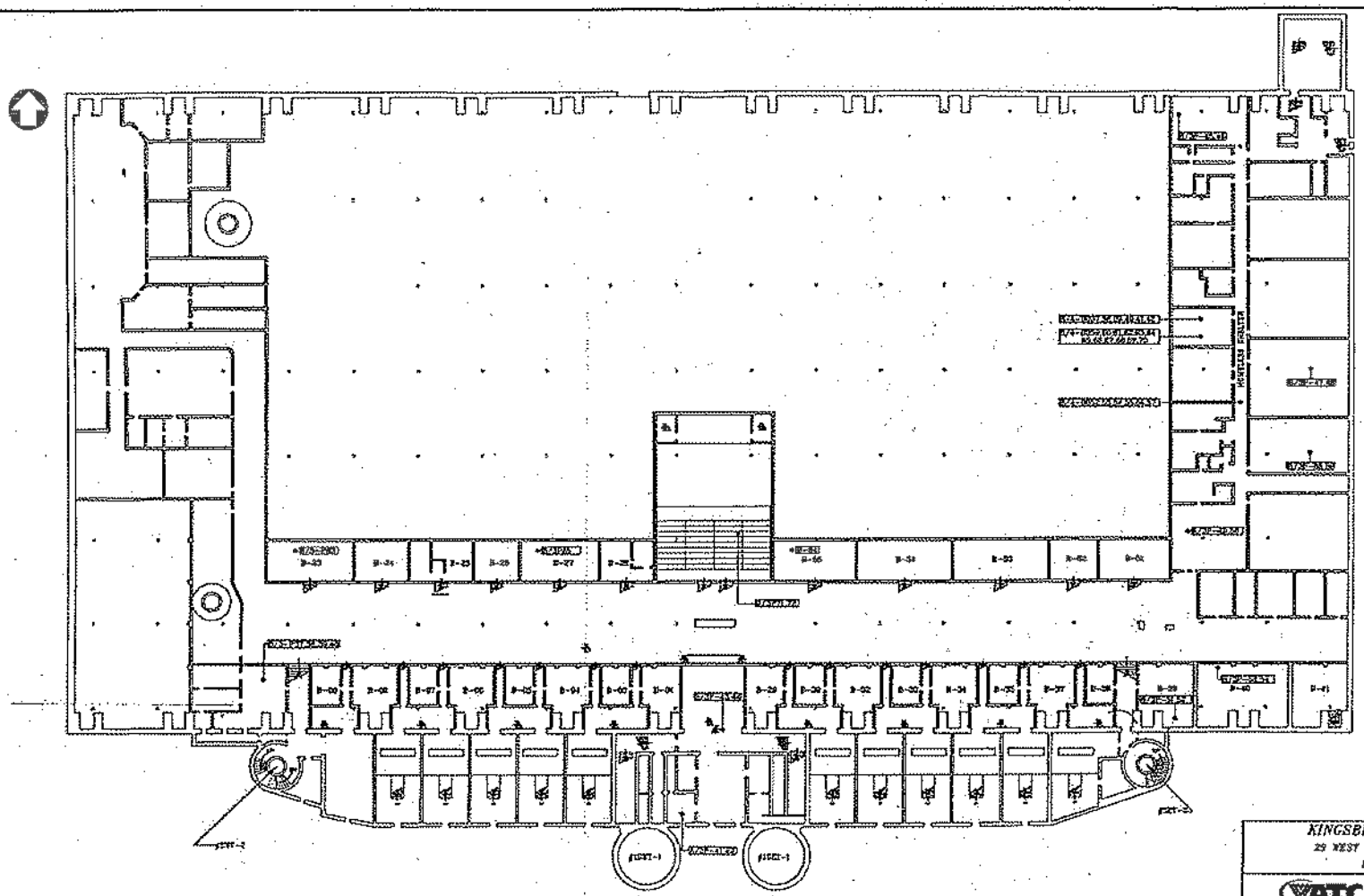
KINGSBRIDGE ARMORY
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ASBESTOS BULK SAMPLE LOCATIONS
FIRST FLOOR "DRILL FLOOR" AND FIRST FLOOR MEZZANINE

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DRAWN BY: V.MOLCHANENKO	SCALE: NOT TO SCALE
CHECKED BY: J. ROCHALSKI	DATE: 08/21/00 AB-3

FILE: M:\CAD94\75018.061\AB-3



BASEMENT MEZZANINE PLAN

KINGSBRIDGE ARMORY
29 WEST KINGSBRIDGE ROAD,
BRONX, NY

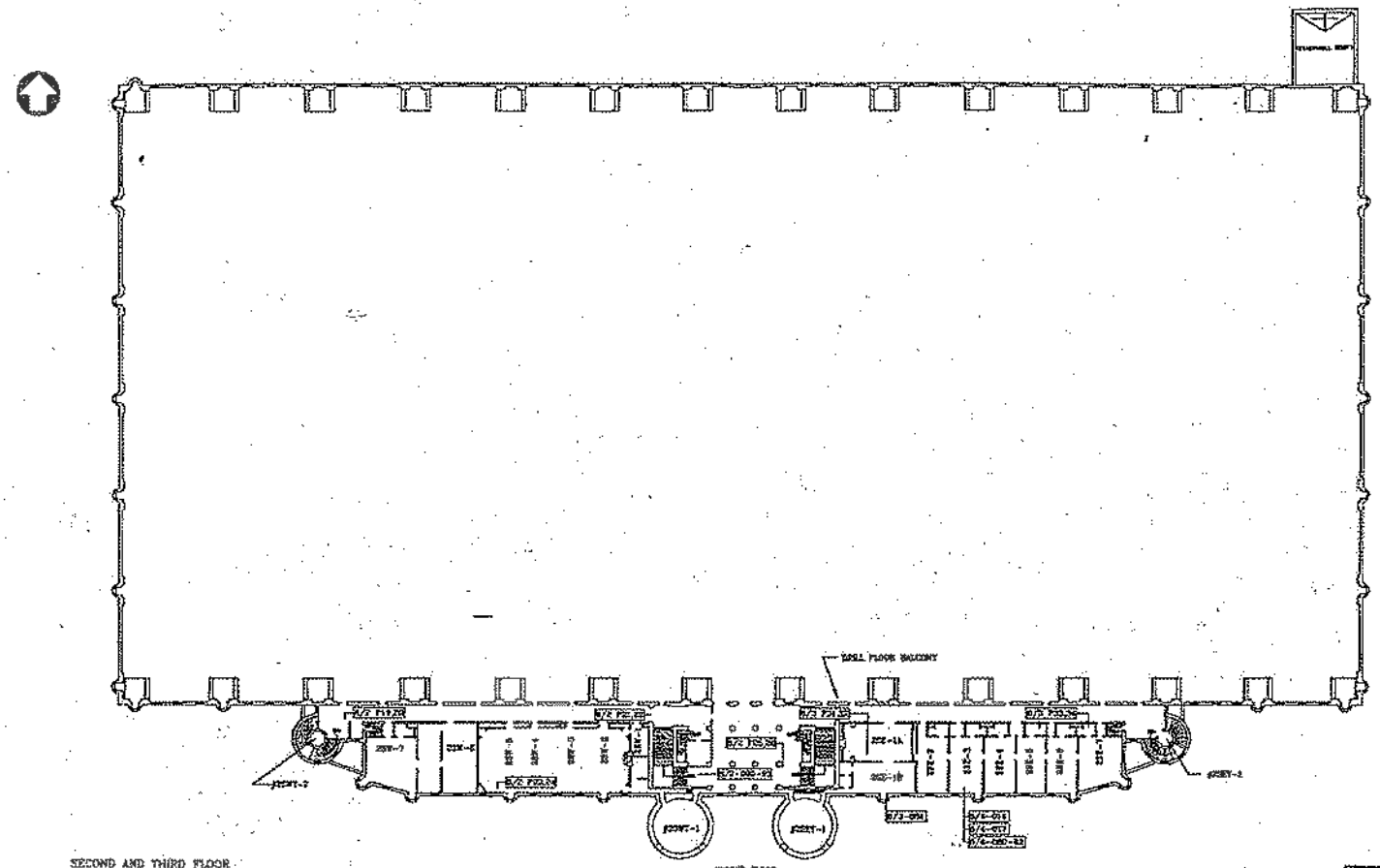
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ASBESTOS BULK SAMPLE LOCATIONS

BASEMENT MEZZANINE PLAN

PROJECT: 50018	FILE: M:\CAD94\75018.001\AB-2
DRAWN BY: V. MOLCHANENKO	SCALE: NOT TO SCALE
CHECKED BY: J. BUCBALSKI	DATE: 09/21/00 AB-2

FILE: M:\CAD94\75018.001\AB-2



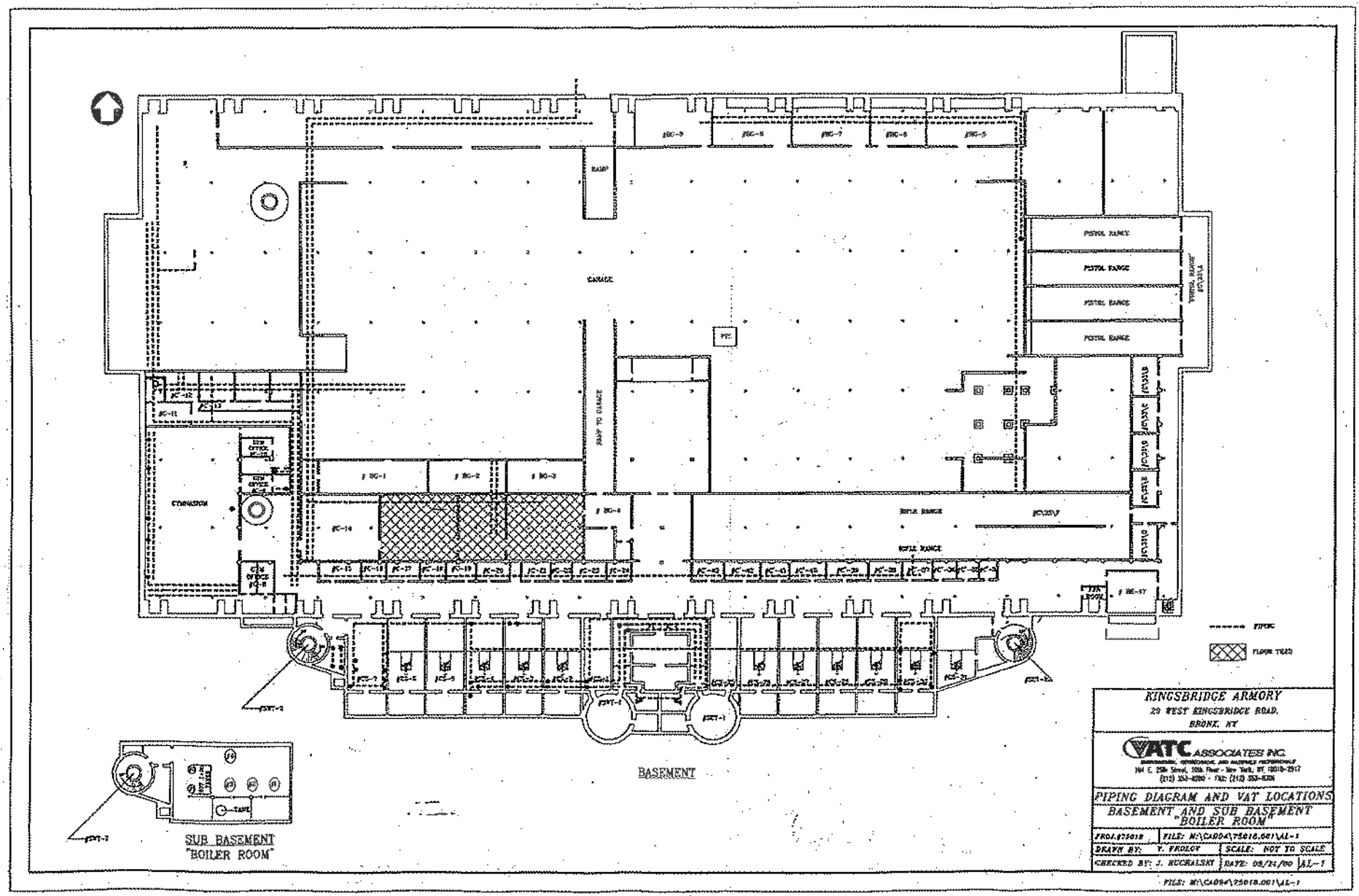
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29 WEST KINGSBRIDGE ROAD.
BRONX, NY

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ASBESTOS BULK SAMPLE LOCATIONS
SECOND AND THIRD FLOOR

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DRAWN BY: Y.MOLCHANENKO	SCALE: NOT TO SCALE
CHECKED BY: J. KUCHALSKI	DATE: 09/21/00 AB-4

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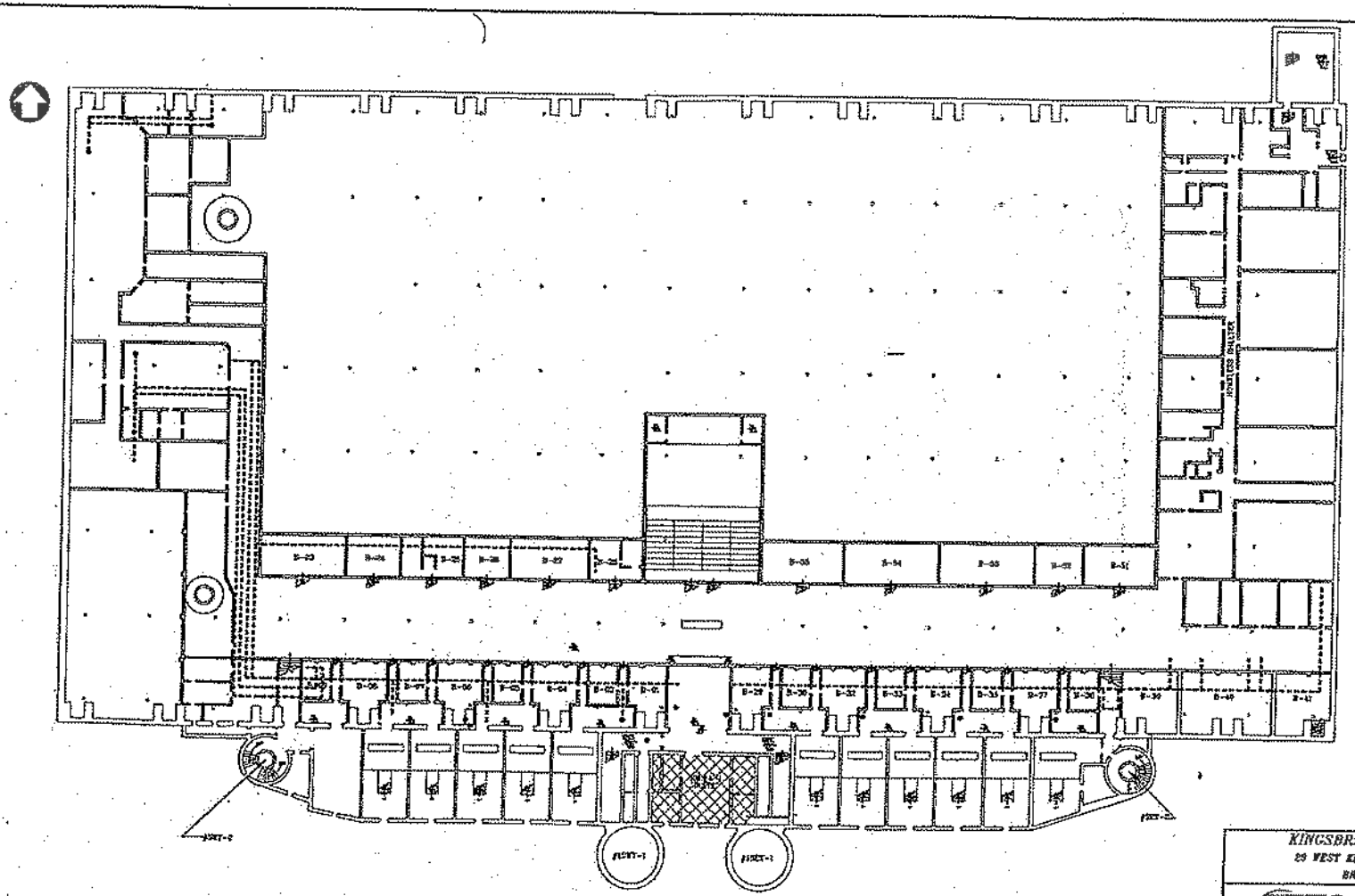
KINGSBRIDGE ARMORY
29 WEST KINGSBRIDGE ROAD,
BRONX, NY

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PIPING DIAGRAM AND VAT LOCATIONS
BASEMENT AND SUB BASEMENT
"BOILER ROOM"

PROJ.#75018	FILE: M:\CADD4\75018.001\AL-1
DRAWN BY: Y. FROLOV	SCALE: NOT TO SCALE
CHECKED BY: J. BUCHALSKY	DATE: 08/24/00 AL-1

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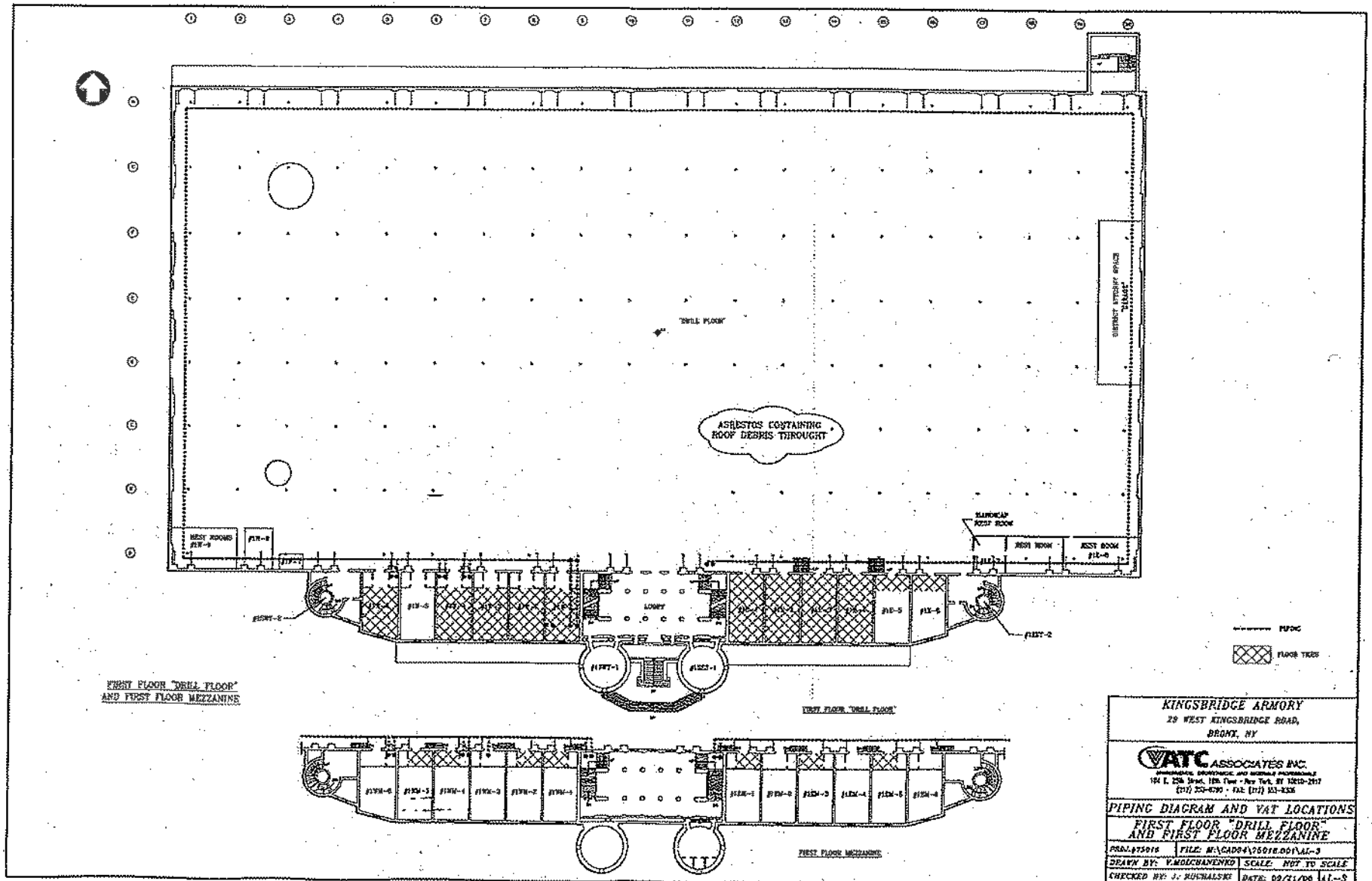
BASEMENT MEZZANINE PLAN

KINGSBRIDGE ARMORY
29 WEST KINGSBRIDGE ROAD,
BRONX, NY

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PIPING DIAGRAM AND VAT LOCATIONS

BASEMENT MEZZANINE PLAN



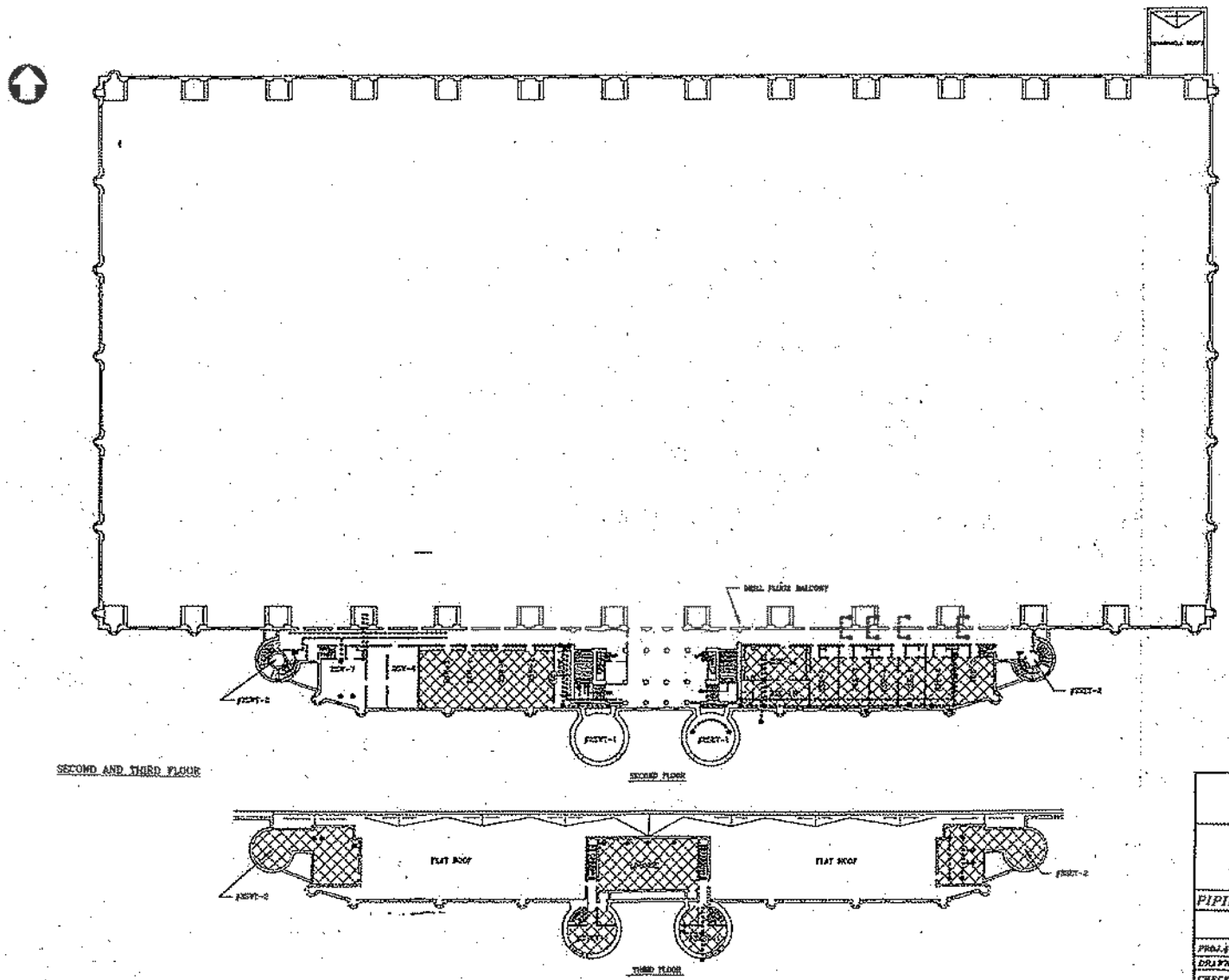
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PIPING DIAGRAM AND VAT LOCATIONS
FIRST FLOOR "DRILL FLOOR" AND FIRST FLOOR MEZZANINE

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CHECKED BY: J. KUCHALSKI	DATE: 09/21/06 AL-3

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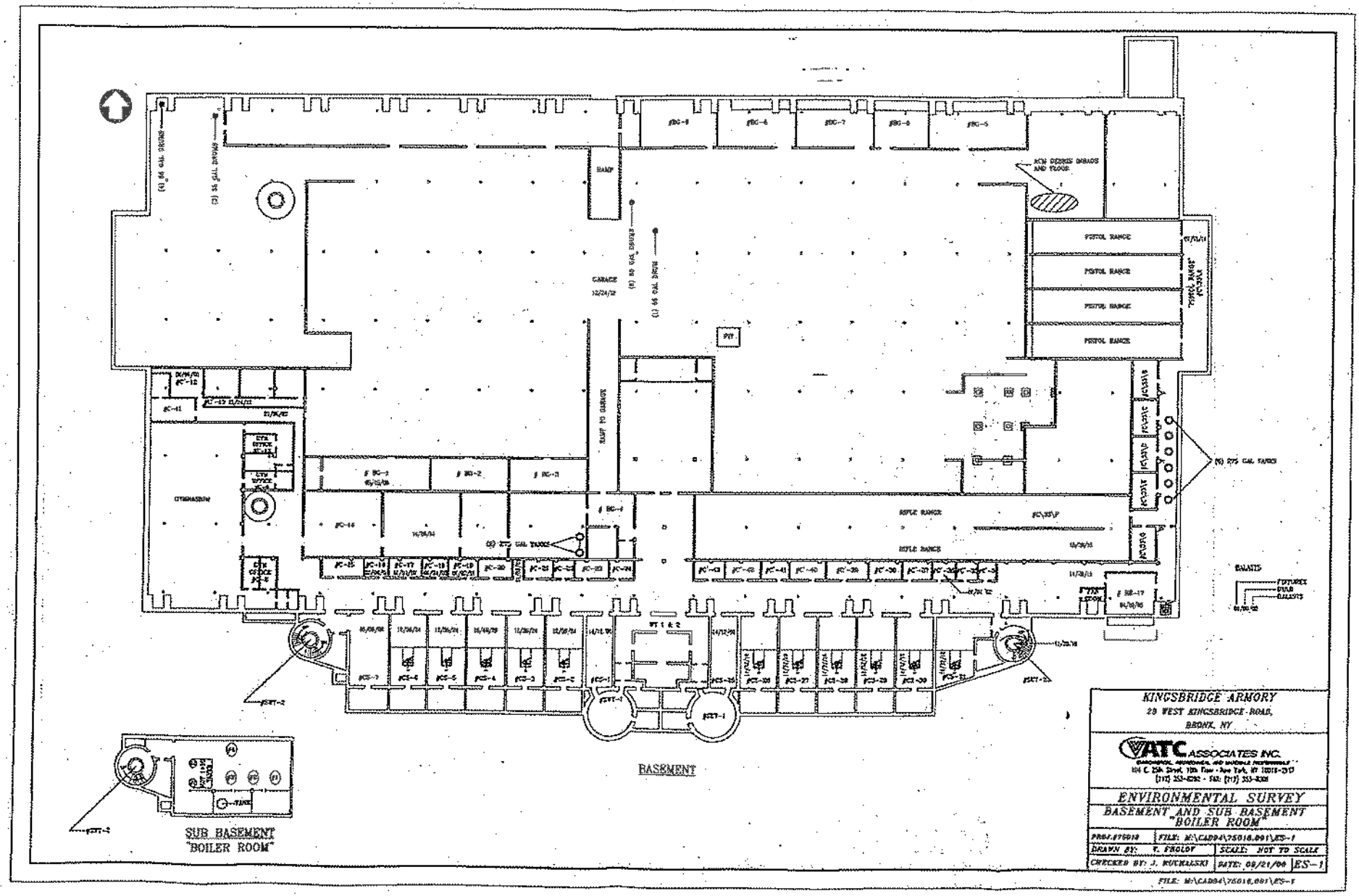
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29 WEST KINGSBRIDGE ROAD,
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PIPING DIAGRAM AND VAT LOCATIONS
SECOND AND THIRD FLOOR

PROJ.#75018	FILE: M:\CAD04\75018.001\AL-4	
DRAWN BY: Y.MOLCHANENKO	SCALE: NOT TO SCALE	
CHECKED BY: J. BUCHALSKI	DATE: 03/21/00	AL-4

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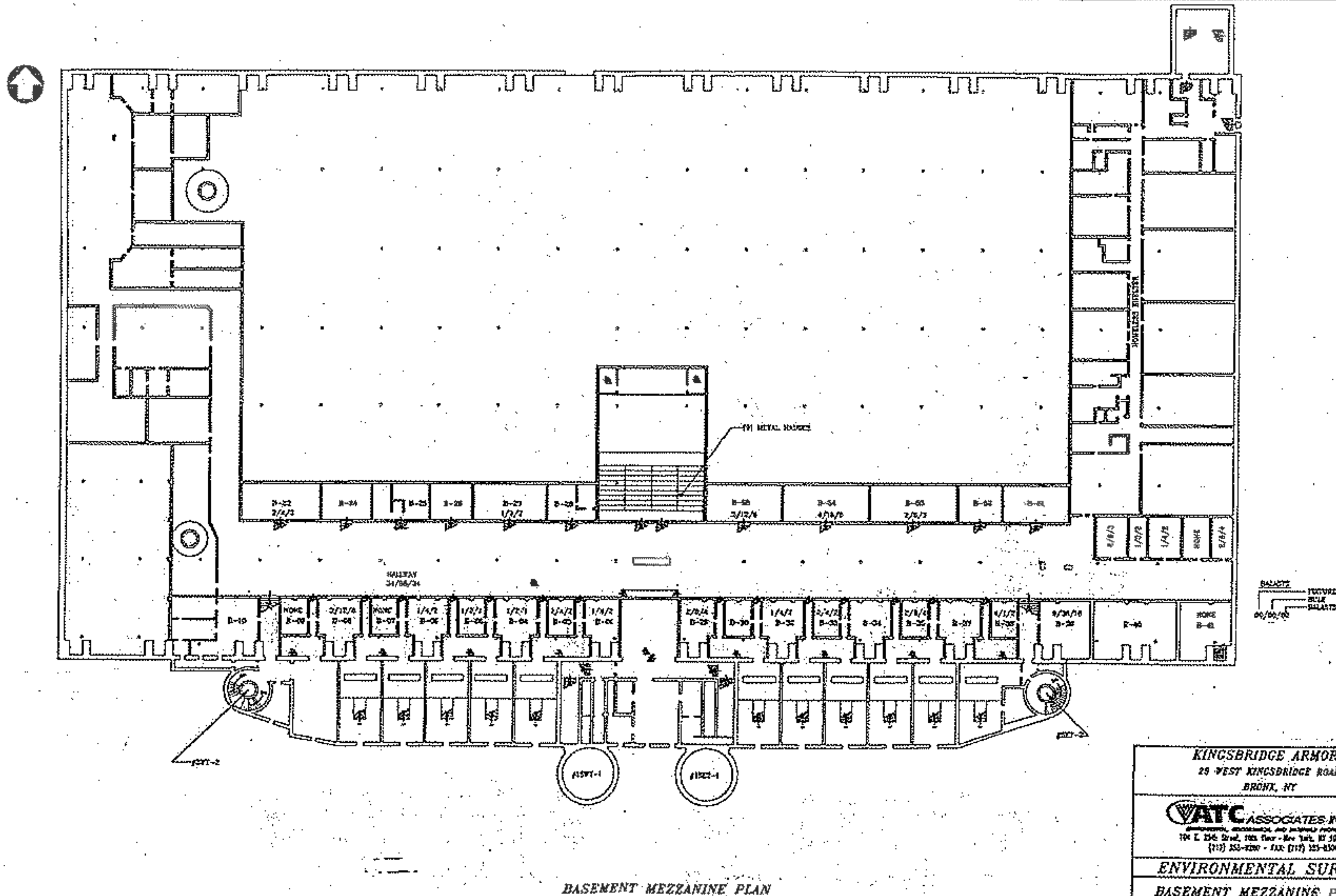
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29 WEST KINGSBRIDGE ROAD,
BRONX, NY

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ENVIRONMENTAL, ARCHITECTURAL AND MATERIALS PROFESSIONALS
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ENVIRONMENTAL SURVEY
BASEMENT AND SUB BASEMENT
"BOILER ROOM"

PROJ.#75018	FILE: M:\CAD94\75018.001\ES-1
DRAWN BY: Y. FROLOV	SCALE: NOT TO SCALE
CHECKED BY: J. KUCHALESKI	DATE: 08/21/06 ES-1

FILE: M:\CAD94\75018.001\ES-1



KINGSBRIDGE ARMORY
29 WEST KINGSBRIDGE ROAD,
BRONX, NY

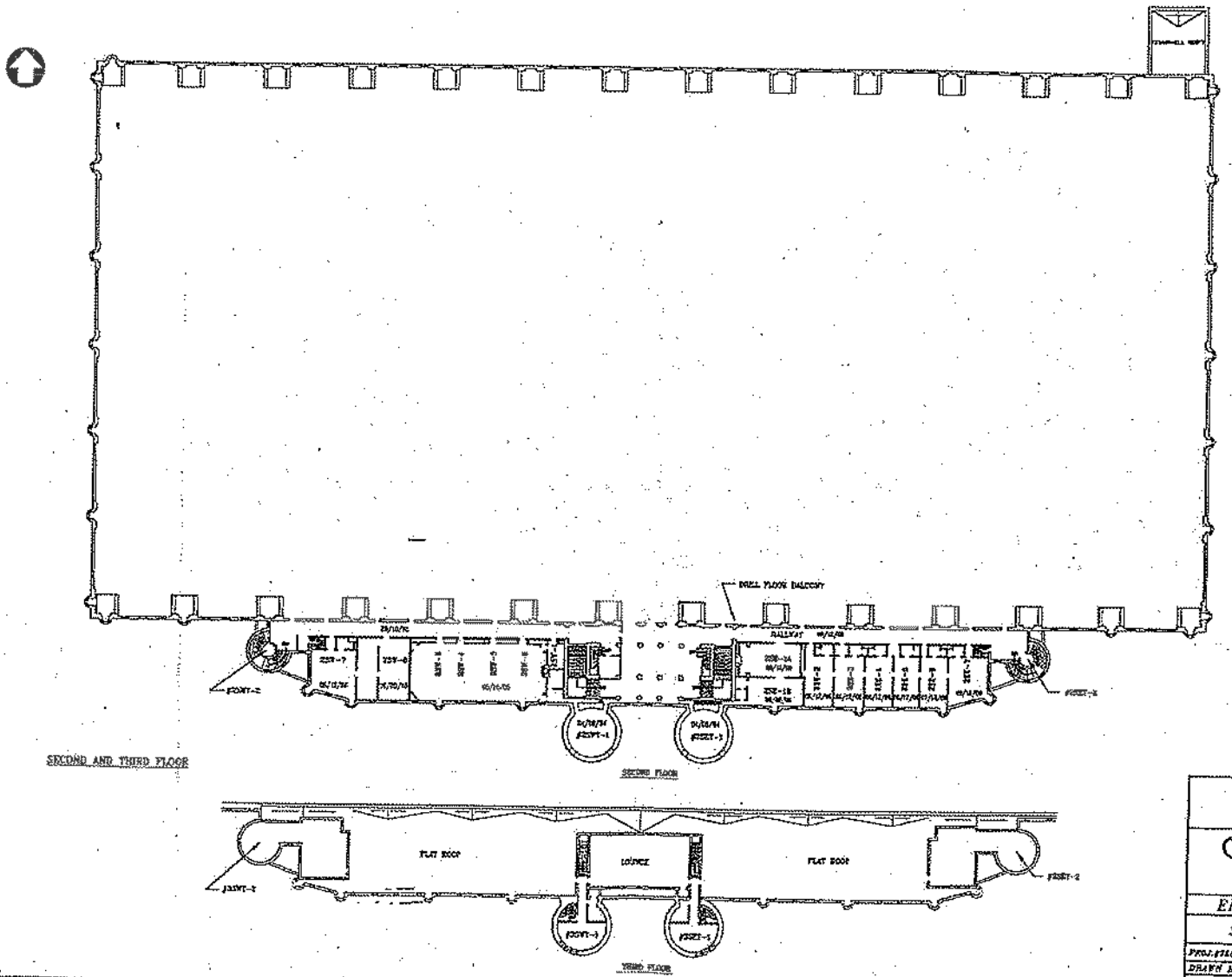
ATC ASSOCIATES INC.

ENVIRONMENTAL SURVEY

BASEMENT MEZZANINE PLAN

PROJ.#75018	FILE: M:\CAD94\75018.001\ES-2
DRAWN BY: V. MOLCHANENKO	SCALE: NOT TO SCALE
CHECKED BY: J. RUCHALSKI	DATE: 09/21/00 ES-2

FILE: M:\CAD94\75018.001\ES-2



SECOND AND THIRD FLOOR

KINGSBRIDGE ARMORY
29 WEST KINGSBRIDGE ROAD
BRONX, NY

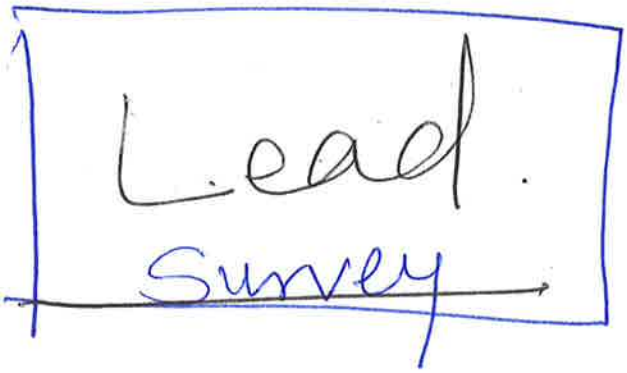
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ENVIRONMENTAL SURVEY

SECOND AND THIRD FLOOR

PROJ: 175018	FILE: M:\CAD94\75018.001\ES-4
DRAWN BY: W.HOLCHANENKO	SCALE: NOT TO SCALE
CHECKED BY: J. BUCHALSKI	DATE: 09/21/00 ES-4

FILE: M:\CAD94\75018.001\ES-4



APPENDIX E:
XRF SURVEY DATA AND BULK SAMPLES

Tab. 1
Kingsbridge Armory
XRF Survey Data

Date	Shot #	Room	Component	Wall	Substrate	Color	Condition	XRF Reading	Classification	Sample ID
7/24	1	Calibrate						1.9		
7/24	2	Calibrate						1.7	Avg. 1.8	
7/24	3	Calibrate						1.8		
7/24	4	Boiler room	Wall	1	Concrete	White	Poor	>9.9	Positive	
7/24	5	Basement	Wall	2	Concrete	Grey	Poor	0.4		
7/24	6	Basement	Wall	3	Brick	Grey	Poor	7.1	Positive	
7/24	7	Basement	Wall	3	Concrete	White	Poor	0.5		
7/24	8	Basement	Wall	4	Concrete	Grey	Poor	8.5	Positive	
7/24	9	Basement	Column	6	Concrete	White	Poor	4.5	Positive	
7/24	10	Basement	Boiler units	6	Metal	Grey	Fair	0.0		
7/24	11	Basement	Hot water heater	1	Metal	Brown	Fair	0.4		
7/24	12	Basement	Horizontal duct	5	Metal	Grey	Fair	0.0		
7/24	13	Basement	Ceiling	5	Concrete	Grey	Poor	2.9	Positive	
7/24	14	Basement	Hand rail	2	Metal	Grey	Fair	0.4		
7/24	15	Basement	Stair tread	2	Metal	Grey	Poor	1.0	Positive	Negative
7/24	16	R#1	Wall	1	Concrete	White	Poor	-0.0		
7/24	17	R#1	Wall	3	Concrete	White	Poor	0.3		
7/24	18	R#1	Ceiling	5	Concrete	Grey	Poor	0.0		
7/24	19	R#2	Wall	1	Brick	White	Poor	0.1		
7/24	20	R#2	Wall	1	Concrete	White	Poor	0.2		
7/24	21	R#2	Wall	2	Concrete	White	Poor	-0.1		
7/24	22	R#2	Wall	3	Brick	Grey	Poor	>9.9	Positive	
7/24	23	R#2	Wall	4	Brick	White	Poor	-0.1		
7/24	24	R#2	Door	2	Metal	Grey	Poor	>9.9	Positive	

Tab. I
Kingsbridge Armory
XRF Survey Data

Date	Shot #	Room	Component	Wall	Substrate	Color	Condition	XRF Reading	Classification	Sample ID
7/24	25	R#2	Control panel	3	Metal	Grey	Poor	1.0		Negative
7/24	26	R#3	Door	1	Metal	Green	Poor	5.3	Positive	
7/24	27	R#3	Wall	1	Brick	White	Poor	-0.1		
7/24	28	R#3	Wall	2	Brick	White	Poor	-0.2		
7/24	29	R#3	Wall	3	Concrete	White	Poor	-0.1		
7/24	30	R#3	Wall	4	Concrete	White	Poor	-0.1		
7/24	31	R#3	Control panel	2	Metal	Green	Poor	0.0		
7/24	32	R#3	Cabin	1	Metal	Grey	Poor	0.5		
7/24	33	Boiler room	Door	4	Metal	Grey	Poor	>9.9	Positive	
7/24	34	R#4	Door	1	Metal	Grey	Poor	5.6	Positive	
7/24	35	R#4	Wall	1	Concrete	Grey	Poor	0.3		
7/24	36	R#4	Wall	2	Concrete	Grey	Poor	0.1		
7/24	37	R#4	Wall	3	Concrete	Grey	Poor	0.3		
7/24	38	R#4	Wall	4	Concrete	Grey	Poor	0.2		
7/24	39	R#5	Roof	1	Metal	Grey	Poor	>9.9	Positive	
7/24	40	R#5	Wall	1	Brick	Grey	Poor	-0.2		
7/24	41	R#5	Wall	2	Brick	Grey	Poor	-0.1		
7/24	42	R#5	Wall	3	Concrete	Grey	Poor	0.1		
7/24	43	R#5	Wall	4	Concrete	Grey	Poor	0.4		
7/24	44	R#5	Horizontal pipe	6	Metal	Grey	Fair	1.4	Positive	
7/24	45	R#5	Pipe riser	6	Metal	Grey	Fair	0.7		
7/24	46	R#5	Gas booster	6	Metal	Blue	Fair	-0.1		
7/24	47	R#6	Door	1	Metal	Grey	Poor	>9.9	Positive	
7/24	48	R#6	Wall	1	Concrete	Grey	Poor	-0.0		

Table 1
Kingsbridge Armory
XRF Survey Data

Date	Shot #	Room	Component	Wall	Substrate	Color	Condition	XRF Reading	Classification	Sample ID
7/24	49	R#6	Wall	2	Concrete	Grey	Poor	0.0		
7/24	50	R#6	Wall	3	Concrete	White	Poor	-0.2		
7/24	51	R#6	Wall	4	Concrete	Grey	Poor	-0.0		
7/24	52	R#6	Wall	1	Concrete	White	Poor	0.4		
7/24	53	R#6	Wall	2	Concrete	Grey	Poor	7.9	Positive	
7/24	54	R#6	Wall	3	Concrete	White	Poor	-0.1		
7/24	55	R#6	Wall	4	Concrete	Grey	Poor	>9.9	Positive	
7/24	56	R#6	Door	1	Metal	Grey	Poor	0.1		
7/24	57	R#6	Door case	1	Metal	Grey	Poor	-0.1		
7/24	58	Staircase	Wall	2	Brick	White	Fair	3.6	Positive	
7/24	59	Staircase	Wall	3	Brick	Grey	Fair	>9.9	Positive	
7/24	60	Staircase	Wall	4	Brick	Grey	Fair	2.0	Positive	
7/24	61	Staircase	Stair tread	6	Concrete	Grey	Poor	0.0		
7/24	62	Staircase	Stair riser	6	Concrete	Grey	Poor	0.1		
7/24	63	Staircase	Stringer	6	Concrete	Grey	Poor	-0.2		
7/24	64	Staircase	Hand rail	6	Brick	Grey	Poor	3.0	Positive	
7/24	65	Corridor	Wall	1	Brick	White	Poor	6.7	Positive	
7/24	66	Mezzanine	Wall	2	Brick	Grey	Poor	7.3	Positive	
7/24	67	Basement	Wall	3	Brick	White	Poor	0.2	Positive	
7/24	68	Basement	Wall	3	Concrete	Grey	Poor	0.2		
7/24	69	Basement	Wall	4	Brick	White	Poor	5.2	Positive	
7/24	70	R#1	Door	1	Wood	Green	Poor	0.5		
7/24	71	SWTC	Door case	1	Wood	Green	Poor	0.3		
7/24	72	SWTC	Door case	1	Brick	Blue	Poor	-0.0		

Table 1
Kingsbridge Armory
XRF Survey Data

Date	Shot #	Room	Component	Wall	Substrate	Color	Condition	XRF Reading	Classification	Sample ID
7/24	73	SWTC	Door case	2	Brick	Blue	Poor	0.1		
7/24	74	SWTC	Door case	3	Concrete	Blue	Poor	1.5	Positive	
7/24	75	R#1	Wall	4	Brick	Blue	Poor	0.5		
7/24	76	SWTC	Pipe riser	2	Metal	Blue	Poor	0.3		
7/24	77	R#2	Door	1	Metal	Blue	Poor	1.4	Positive	
7/24	78	SWTC	Door case	1	Metal	Blue	Poor	1.7	Positive	
7/24	79	SWTC	Wall	1	Brick	Blue	Poor	>9.9	Positive	
7/24	80	SWTC	Wall	2	Brick	Blue	Poor	>9.9	Positive	
7/24	81	SWTC	Wall	3	Brick	Blue	Poor	>9.9	Positive	
7/24	82	SWTC	Wall	4	Brick	Blue	Poor	>9.9	Positive	
7/24	83	SWTC	Pipe riser	4	Metal	Blue	Poor	2.4	Positive	
7/24	84	SWTC	Window sash	3	Wood	Blue	Poor	>9.9	Positive	
7/24	85	SWTC	Window sash	3	Wood	Blue	Poor	>9.9	Positive	
7/24	86	SWTC	Window case	3	Wood	Blue	Poor	>9.9	Positive	
7/24	87	SWTC	Window apron	3	Wood	Blue	Poor	>9.9	Positive	
7/24	88	Corridor	Radiator	1	Metal	White	Poor	0.4		
7/24	89	R#4	Door 1	1	Metal	Grey	Poor	1.0	Positive	
7/24	90	C16	Door case	1	Metal	Grey	Poor	1.9	Positive	
7/24	91	C16	Door 2	1	Metal	Grey	Poor	-0.1		
7/24	92	C16	Wall	1	Concrete	Blue	Poor	0.1		
7/24	93	C16	Wall	2	Concrete	Blue	Poor	-0.4		
7/24	94	C16	Wall	3	Brick	Blue	Poor	0.5		
7/24	95	C16	Wall	4	Concrete	Blue	Poor	0.3		
7/24	96	C16	Beam	3	Metal	Blue	Poor	>9.9	Positive	

Table 1
Kingsbridge Armory
XRF Survey Data

Date	Shot #	Room	Component	Wall	Substrate	Color	Condition	XRF Reading	Classification	Sample ID
7/24	97	R#5	Door 1	1	Metal	Grey	Poor	4.2	Positive	
7/24	98	C17	Door case	1	Metal	Grey	Poor	-0.2		
7/24	99	C17	Door 2	1	Metal	Grey	Poor	-0.0		
7/24	100	C17	Wall	1	Concrete	White	Poor	-0.1		
7/24	101	C17	Wall	2	Concrete	Grey	Poor	0.1		
7/24	102	C17	Wall	3	Brick	White	Poor	0.3		
7/24	103	C17	Wall	4	Brick	Grey	Poor	0.1		
7/24	104	C17	Beam	3	Metal	White	Poor	>9.9	Positive	
7/24	105	C17	Pipe riser	5	Metal	White	Poor	9.1	Positive	
7/24	106	R#6	Door	1	Metal	Black	Poor	2.2	Positive	
7/24	107	C18	Door case	1	Metal	Grey	Poor	-0.1		
7/24	108	C18	Door case	1	Metal	Grey	Poor	0.3		
7/24	109	C18	Wall	1	Concrete	Grey	Poor	-0.3		
7/24	110	C18	Wall	2	Concrete	White	Poor	0.3		
7/24	111	C18	Wall	3	Brick	Grey	Poor	-0.1		
7/24	112	R#6	Wall	4	Concrete	Grey	Poor	-0.0		
7/24	113	C18	Beam	3	Metal	Grey	Poor	>9.9	Positive	
7/24	114	C18	Pipe	5	Metal	Grey	Poor	7.1	Positive	
7/24	115	C18	Frame	4	Wood	Grey	Poor	0.1		
7/24	116	R#7	Door	1	Metal	Grey	Poor	1.4	Positive	
7/24	117	C19	Door case	1	Metal	Grey	Poor	2.3	Positive	
7/24	118	C19	Door	1	Metal	Grey	Poor	0.0		
7/24	119	C19	Wall	1	Concrete	Grey	Poor	3.7	Positive	
7/24	120	C19	Wall	2	Concrete	Grey	Poor	6.0	Positive	

Table 1
Kingsbridge Armory
XRF Survey Data

Date	Shot #	Room	Component	Wall	Substrate	Color	Condition	XRF Reading	Classification	Sample ID
7/24	121	C19	Wall	3	Brick	Grey	Poor	5.1	Positive	
7/24	122	C19	Wall	4	Concrete	Grey	Poor	1.4	Positive	
7/24	123	C19	Beam	3	Metal	Grey	Poor	>9.9	Positive	
7/24	124	C19	Horizontal pipe	5	Metal	Grey	Poor	9.4	Positive	
7/24	125	C19	Shelf	3	Wood	Grey	Poor	-0.1		
7/24	126	C19	Shelf sup.	1	Wood	Grey	Poor	0.3		
7/24	127	Alarm	Gate	1	Metal	Grey	Poor	-0.1		
7/24	128	Control room	Wall	2	Concrete	Grey	Fair	+0.2		
7/24	129	Control room	Wall	3	Brick	Grey	Poor	0.3		
7/24	130	Control room	Wall	4	Concrete	Grey	Fair	-0.0		
7/24	131	Control room	Pipe horizontal	5	Metal	Grey	Poor	>9.9	Positive	
7/24	132	Control room	Control panel	4	Metal	Red	Fair	0.0		
7/24	133	Control room	Beam	3	Metal	White	Poor	>0.0	Positive	
7/24	134	R#8	Door	1	Metal	Grey	Poor	1.4	Positive	
7/24	135	C21	Door case	1	Metal	Grey	Poor	2.4	Positive	
7/24	136	C21	Wall	1	Concrete	White	Poor	2.6	Positive	
7/24	137	C21	Wall	2	Concrete	Grey	Poor	2.4	Positive	
7/24	138	C21	Wall	3	Brick	White	Poor	5.7	Positive	
7/24	139	C21	Wall	4	Concrete	Grey	Poor	0.0		
7/24	140	C21	Beam	3	Metal	Grey	Poor	>9.9	Positive	
7/24	141	C21	Pillar	3	Brick	White	Poor	3.8	Positive	
7/24	142	C21	Pipe horizontal	5	Metal	Grey	Poor	>9.9	Positive	
7/24	143	C21	Floor	6	Concrete	Grey	Poor	0.5		
7/24	144	R#	Door 1	1	Metal	Grey	Poor	1.4	Positive	

Table 1
Kingsbridge Armory
XRF Survey Data

Date	Shot #	Room	Component	Wall	Substrate	Color	Condition	XRF Reading	Classification	Sample ID
7/24	145	C41	Door case	1	Metal	Grey	Poor	3.1	Positive	
7/24	146	C41	Wall	1	Concrete	Grey	Poor	0.4		
7/24	147	C41	Wall	2	Concrete	Grey	Poor	-0.1		
7/24	148	C41	Wall	3	Brick	Grey	Poor	-0.0		
7/24	149	RC41	Wall	4	Concrete	Grey	Poor	-0.1		
7/24	150	RC41	Beam	3	Metal	Grey	Poor	>9.9	Positive	
7/24	151	RC41	Pillar	3	Brick	Grey	Poor	0.1		
7/24	152	RC41	Horizontal pipe	5	Metal	Grey	Poor	>9.9	Positive	
7/24	153	RC41	Door 2	1	Metal	Grey	Poor	-0.1		
7/24	154	RC33E	Door	1	Metal	Grey	Fair	1.4	Positive	
7/24	155	RC33E	Door case	1	Metal	Grey	Fair	2.5	Positive	
7/24	156	RC33E	Wall	3	Brick	White	Poor	0.3		
7/24	157	RC33E	Pipe riser	3	Metal	White	Poor	1.4	Positive	
7/24	158	RC33E	Beam	5	Metal	Beige	Fair	>9.9	Positive	
7/24	159	RC33E	Ceiling	6	Concrete	White	Fair	-0.0		
7/25	1	Calibrate						1.9		
7/25	2	Calibrate						1.7	Avg. 1.8	
7/25	3	Calibrate						1.7		
7/25	4	Office 1	Door	1	Metal	Grey	Poor	0.0		
7/25	5	Basement	Door case	1	Metal	Grey	Poor	-0.1		
7/25	6	Basement	Wall	1	Plaster	Blue	Poor	>9.9	Positive	
7/25	7	Basement	Wall	2	Plaster	Blue	Poor	>9.9	Positive	
7/25	8	Basement	Wall	3	Plaster	Beige	Poor	>9.9	Positive	
7/25	9	Basement	Wall	4	Plaster	Beige	Poor	>9.9	Positive	

Table 1
Kingsbridge Armory
XRF Survey Data

Date	Shot #	Room	Component	Wall	Substrate	Color	Condition	XRF Reading	Classification	Sample ID
7/25	10	Basement	Ceiling	5	Plaster	Beige	Poor	>9.9	Positive	
7/25	11	Basement	Partition	2	Wood	Blue	Poor	2.5	Positive	
7/25	12	Basement	Baseboard	2	Wood	Blue	Poor	0.4		
7/25	13	Basement	Radiator	2	Metal	Silver	Poor	0.1		
7/25	14	Basement	Radiator cover	2	Metal	Blue	Poor	0.5		
7/25	15	Basement	Window sill	2	Wood	Blue	Poor	2.4	Positive	
7/25	16	Basement	Window case	2	Wood	Blue	Poor	2.4	Positive	
7/25	17	Basement	Window apron	2	Wood	Blue	Poor	1.6	Positive	
7/25	18	Basement	Pipe	5	Metal	Beige	Poor	>9.9	Positive	
7/25	19	Basement	Partition	3	Wood	White	Poor	1.5	Positive	
7/25	20	Bay area	Wall	1	Brick	Beige	Poor	0.3		
7/25	21	By shelter	Wall	2	Brick	Grey	Poor	8.3	Positive	
7/25	22	By shelter	Wall	3	Brick	Beige	Poor	-0.0		
7/25	23	By shelter	Wall	4	Brick	White	Poor	>9.9	Positive	
7/25	24	By shelter	I-beams	6	Metal	White	Poor	>9.9	Positive	
7/25	25	By shelter	I-beams	6	Metal	Grey	Poor	>9.9	Positive	
7/25	26	By shelter	I-beams	6	Metal	White	Poor	>9.9	Positive	
7/25	27	By shelter	Stair tread	6	Concrete	Grey	Poor	0.0		
7/25	28	By shelter	Stair riser	6	Concrete	Grey	Poor	0.4		
7/25	29	By shelter	Stair tread	6	Wood	Grey	Poor	-0.0		
7/25	30	By shelter	Stair riser	6	Wood	Grey	Poor	0.3		
7/25	31	By shelter	Stair stringer	6	Wood	Grey	Poor	0.2		
7/25	32	By shelter	Column	6	Brick/Concrete	Grey	Poor	>9.9	Positive	
7/25	33	RB7	Door	1	Brick/Concrete	Grey	Poor	4.4	Positive	

Table 1
Kingsbridge Armory
XRF Survey Data

Date	Shot #	Room	Component	Wall	Substrate	Color	Condition	XRF Reading	Classification	Sample ID
7/25	34	RB7	Door case	1	Brick/Concrete	Grey	Poor	5.1	Positive	
7/25	35	RB7	Wall	1	Brick	Grey	Poor	2.6	Positive	
7/25	36	RB7	Wall	2	Concrete	Grey	Poor	9.7	Positive	
7/25	37	RB7	Wall	2	Wood	Grey	Poor	0.0		
7/25	38	RB7	Wall	3	Brick	White	Poor	3.0	Positive	
7/25	39	RB7	Wall	4	Brick	Grey	Poor	4.1	Positive	
7/25	40	RB7	Pillar	3	Brick	Grey	Poor	3.1	Positive	
7/25	41	RB7	Beam	5	Metal	Grey	Poor	7.5	Positive	
7/25	42	RB7	Shelf	1	Wood	Grey	Poor	0.1		
7/25	43	RB7	Shelf support	1	Wood	Grey	Poor	2.8	Positive	
7/25	44	RB7	Floor	6	Concrete	Grey	Poor	1.0	Positive	
7/25	45	RB55	Door	1	Metal	Green	Poor	0.2		
7/25	46	RB55	Door case	1	Metal	Green	Poor	3.7	Positive	
7/25	47	RB55	Wall	1	Brick	White	Poor	-0.0		
7/25	48	RB55	Wall	2	Plaster	Grey	Poor	-0.1		
7/25	49	RB55	Wall	3	Plaster	Grey	Poor	-0.1		
7/25	50	RB55	Wall	4	Wood	Grey	Poor	2.3	Positive	
7/25	51	RB55	Beam	5	Metal	White	Poor	4.3	Positive	
7/25	52	RB55	Shelf	4	Wood	Grey	Poor	0.4		
7/25	53	RB55	Shelf	4	Wood	Grey	Poor	0.6		
7/25	54	B32	Door	1	Metal	Grey	Poor	4.5	Positive	
7/25	55	B32	Door case	1	Metal	Grey	Poor	5.5	Positive	
7/25	56	B32	Wall	1	Brick	Grey	Poor	0.7		
7/25	57	B32	Wall	2	Brick	Grey	Poor	3.7	Positive	

Table 1
Kingsbridge Armory
XRF Survey Data

Date	Shot #	Room	Component	Wall	Substrate	Color	Condition	XRF Reading	Classification	Sample ID
7/25	58	B32	Wall	3	Brick	Grey	Poor	-0.0		
7/25	59	B32	Wall	4	Brick	Grey	Poor	4.7	Positive	
7/25	60	B32	Beam	5	Brick	Grey	Poor	6.2	Positive	
7/25	61	B32	Shelf	3	Wood	Grey	Poor	-0.1		
7/25	62	B32	Shelf support	3	Wood	Grey	Poor	0.0		
7/25	63	Balcony	Door	1	Wood	Grey	Poor	0.0		
7/25	64	Lecture hall	Door case	1	Metal	Grey	Poor	0.6		
7/25	65	Lecture hall	Wall	1	Concrete	Grey	Poor	-0.1		
7/25	66	Lecture hall	Wall	2	Concrete	Grey	Poor	0.3		
7/25	67	Lecture hall	Wall	4	Concrete	Grey	Poor	-0.1		
7/25	68	Lecture hall	Stair tread	1	Concrete	Grey	Poor	0.3		
7/25	69	Lecture hall	Stair riser	1	Concrete	Grey	Poor	-0.1		
7/25	70	Lecture hall	Hand rail	2	Metal	Grey	Poor	8.7	Positive	
7/25	71	Lecture hall	Floor	6	Concrete	Grey	Poor	-0.3		
7/25	72	RB13	Door	1	Metal	Green	Poor	0.4		
7/25	73	RB13	Door case	1	Metal	Green	Poor	0.3		
7/25	74	RB13	Wall	1	Brick	White	Poor	1.7	Positive	
7/25	75	RB13	Wall	2	Brick	Green	Poor	2.8	Positive	
7/25	76	RB13	Wall	3	Brick	Green	Poor	3.1	Positive	
7/25	77	RB13	Wall	4	Brick	Green	Poor	2.3	Positive	
7/25	78	RB13	Pipe riser	1	Metal	Green	Poor	2.1	Positive	
7/25	79	RB13	Radiator	3	Metal	Green	Poor	2.3	Positive	
7/25	80	RB13	Floor	6	Concrete	Green	Poor	1.7	Positive	
7/25	81	RB13	Cabinet door	3	Wood	Green	Poor	0.2		

Table 1
Kingsbridge Armory
XRF Survey Data

Date	Shot #	Room	Component	Wall	Substrate	Color	Condition	XRF Reading	Classification	Sample ID
7/25	82	RB13	Cabinet door case	3	Wood	Green	Poor	0.2		
7/25	83	RB17	Door	1	Metal	Green	Poor	0.5		
7/25	84	RB17	Door case	1	Metal	Green	Poor	2.1	Positive	
7/25	85	RB17	Wall	1	Brick	Green	Poor	-0.1		
7/25	86	RB17	Wall	2	Brick	White	Poor	3.5	Positive	
7/25	87	RB17	Wall	3	Brick	Green	Poor	0.1		
7/25	88	RB17	Wall	4	Brick	White	Poor	0.2		
7/25	89	RB17	Column I-beam	6	Metal	White	Poor	>9.9	Positive	
7/25	90	RB17	Window sill	4	Wood	Green	Poor	0.1		
7/25	91	RB17	Window case	1	Wood	Green	Poor	0.1		
7/25	92	RB17	Window apron	1	Wood	Green	Poor	-0.0		
7/25	93	RB17	Window sash	1	Wood	Green	Poor	0.0		
7/25	94	RB17	Radiator	1	Metal	Silver	Poor	4.8	Positive	
7/25	95	RB17	Pipe riser	6	Metal	Grey	Poor	0.4		
7/25	96	RB17	Floor	6	Concrete	Grey	Poor	0.3		
7/25	97	RB20	Door	1	Metal	Grey	Poor	0.4		
7/25	98	RB20	Door case	1	Metal	Grey	Poor	>9.9	Positive	
7/25	99	RB20	Wall	1	Brick	White	Poor	>9.9	Positive	
7/25	100	RB20	Wall	2	Brick	Grey	Poor	>9.9	Positive	
7/25	101	RB20	Wall	3	Brick	White	Poor	>9.9	Positive	
7/25	102	RB20	Wall	4	Brick	Grey	Poor	>9.9	Positive	
7/25	103	RB20	I-beam	6	Metal	Grey	Poor	>9.9	Positive	
7/25	104	RB20	Shelf	2	Wood	Grey	Poor	0.2		
7/25	105	RB20	Shelf support	2	Wood	Grey	Poor	0.4		

Table
Kingsbridge Armory
XRF Survey Data

Date	Shot #	Room	Component	Wall	Substrate	Color	Condition	XRF Reading	Classification	Sample ID
7/25	106	RB20	Floor	6	Concrete	Grey	Poor	0.5		
7/25	107	Bay #2	Wall	1	Plaster	Grey	Poor	0.0		
7/25	108	Bay #2	Wall	2	Brick	Grey	Poor	0.1		
7/25	109	Bay #2	Wall	3	Concrete	Grey	Poor	0.2		
7/25	110	Bay #2	Wall	4	Plaster	Grey	Poor	0.2		
7/25	111	Bay #2	I-beam	6	Metal	Grey	Poor	-0.1		
7/25	112	Bay #2	Pipe riser	3	Metal	Grey	Poor	2.9	Positive	
7/25	113	Bay #2	Radiator	3	Metal	Grey	Poor	0.1		
7/25	114	Gym	Door	1	Metal	Grey	Poor	2.1	Positive	
7/25	115	Gym	Door case	1	Metal	Grey	Poor	>9.9	Positive	
7/25	116	Gym	Wall	1	Brick	White	Poor	>9.9	Positive	
7/25	117	Gym	Wall	2	Brick	White	Poor	>9.9	Positive	
7/25	118	Gym	Wall	3	Concrete	White	Poor	>9.9	Positive	
7/25	119	Gym	Wall	4	Brick	White	Poor	>9.9	Positive	
7/25	120	Gym	I-beam	6	Metal	White	Poor	>9.9	Positive	
7/25	121	Gym	Pipe riser	3	Metal	White	Poor	0.6		
7/25	122	Gym	Hand rail	1	Metal	White	Poor	1.9	Positive	
7/25	123	Gym	Stair tread	1	Metal	White	Poor	3.5	Positive	
7/25	124	Gym	Newel post	1	Metal	White	Poor	>9.9	Positive	
7/25	125	Gym	Stringer	1	Metal	White	Poor	>9.9	Positive	
7/25	126	RB12	Door	1	Metal	Beige	Poor	0.2		
7/25	127	RB12	Door case	1	Metal	Beige	Poor	2.3	Positive	
7/25	128	RB12	Wall	1	Brick	White	Poor	>9.9	Positive	
7/25	129	RB12	Wall	2	Brick	White	Poor	0.2		

Table 1
Kingsbridge Armory
XRF Survey Data

Date	Shot #	Room	Component	Wall	Substrate	Color	Condition	XRF Reading	Classification	Sample ID
7/25	130	RB12	Wall	4	Brick	White	Poor	>9.9	Positive	
7/25	131	RB12	Radiator	1	Metal	White	Poor	0.2		
7/25	132	RB12	Grate column	2	Concrete	White	Poor	0.0		
7/25	133	RB12	Guard rail	3	Metal	White	Poor	3.9	Positive	
7/25	134	RB12	Found floor	6	Concrete	Grey	Poor	0.5		
7/25	135	Gym	Door	1	Wood	Brown	Poor	0.3		
7/25	136	Office	Door case	1	Wood	Brown	Poor	0.1		
7/25	137	Area #2	Wall	1	Plaster	Blue	Poor	>9.9	Positive	
7/25	138	Area #2	Wall	2	Plaster	Blue	Poor	>9.9	Positive	
7/25	139	Area #2	Wall	3	Plaster	Blue	Poor	>9.9	Positive	
7/25	140	Area #2	Wall	4	Plaster	Blue	Poor	>9.9	Positive	
7/25	141	Area #2	Pipe riser	2	Plaster	White	Poor	>9.9	Positive	
7/25	142	Area #2	Pillar	2	Metal	Blue	Poor	>9.9	Positive	
7/25	143	Area #2	Window case	4	Wood	Red	Poor	7.8	Positive	
7/25	144	Area #2	Window apron	4	Wood	Red	Poor	6.5	Positive	
7/25	145	Gym	Wall	1	Brick	White	Poor	0.3		
7/25	146	Foyer area	Wall	2	Brick	Grey	Poor	-0.0		
7/25	147	Foyer area	Wall	3	Brick	White	Poor	-0.1		
7/25	148	Foyer area	Wall	4	Brick	Grey	Poor	-0.0		
7/26	149	Gym	Greate column	2	Concrete	Grey	Poor	>9.9	Positive	
7/26	150	Foyer	I-beam	6	Metal	White	Poor	>9.9	Positive	
7/26	151	Firing range	Door	1	Metal	Beige	Poor	0.3		
7/26	152	Firing range	Door case	1	Metal	Beige	Poor	3.3	Positive	
7/26	153	Firing range	Wall	1	Brick	White	Poor	>9.9	Positive	

Table 1
Kingsbridge Armory
XRF Survey Data

Date	Shot #	Room	Component	Wall	Substrate	Color	Condition	XRF Reading	Classification	Sample ID
7/26	154	Firing range	Wall	2	Brick	Brown	Poor	0.1	Negative	
7/26	155	Firing range	Wall	3	Metal	White	Poor	1.8	Positive	
7/26	156	Firing range	Wall	4	Brick	Brown	Poor	-0.0		
7/26	157	Firing range	Duct	5	Metal	Beige	Poor	0.2		
7/26	158	Firing range	Horizontal pipe	5	Metal	Beige	Poor	-0.2		
7/26	159	Firing range	Partition wall	6	Brick	Beige	Poor	0.2		
7/26	160	Firing range	I-beam	6	Metal	Beige	Poor	-0.1		
7/26	161	Firing range	Beam	5	Metal	Beige	Poor	1.5	Positive	
7/26	162	Firing range	Gate	2	Metal	Grey	Poor	-0.1		
7/26	163	Firing range	Compressor	2	Metal	Green	Poor	0.6		
7/26	164	Firing range	Ceiling	5	Concrete	Beige	Fair	-0.0		
7/26	165	Calibrate						1.8		
7/26	166	Calibrate						1.7	Avg. 1.8	
7/26	167	Calibrate						1.8		
7/26	168	Calibrate						1.7		
7/26	169	Calibrate						1.6	Avg. 1.8	
7/26	170	Calibrate						1.7		
7/26	171	Basement	Wall	1	Plaster	Grey/blue	Poor	>9.9	Positive	
7/26	172	Lobby	Wall	2	Plaster	Grey/blue	Poor	0.1		
7/26	173	Mezzanine Area	Wall	3	Plaster	Grey/blue	Poor	>9.9	Positive	
7/26	174	Mezzanine Area	Wall	4	Plaster	Grey/grey	Poor	-0.0		
7/26	175	Mezzanine Area	Ceiling	5	Plaster	Grey/blue	Poor	>9.9	Positive	
7/26	176	Mezzanine Area	Pipe riser	4	Metal	Grey/blue	Poor	>9.9	Positive	
7/26	177	Mezzanine Area	Horizontal pipe	5	Metal	Grey/blue	Poor	1.4	Positive	

Table 1
Kingsbridge Armory
XRF Survey Data

Date	Shot #	Room	Component	Wall	Substrate	Color	Condition	XRF Reading	Classification	Sample ID
7/26	178	Mezzanine Area	Column	6	Plaster	Grey/grey	Poor	>9.9	Positive	
7/26	179	Mezzanine Area	Baseboard	3	Wood	Grey/grey	Poor	1.5	Positive	
7/26	180	Mezzanine Area	Door	1	Wood	Grey/green	Poor	1.6	Positive	
7/26	181	Mezzanine Area	Door case	1	Wood	Grey/green	Poor	1.5	Positive	
7/26	182	Mezzanine Area	Floor	6	Concrete	Grey/grey	Poor	2.1	Positive	
7/26	183	Mezzanine Area	Hand rail	2	Metal	Grey/grey	Poor	7.8	Positive	
7/26	184	Mezzanine Area	Newel post	2	Metal	Grey/grey	Poor	7.6	Positive	
7/26	185	Mezzanine Area	Stair tread	2	Metal	Grey/grey	Poor	3.3	Positive	
7/26	186	Basement	Stair riser	6	Metal	Grey	Poor	5.5	Positive	
7/26	187	Mezzanine lobby	stringer	6	Metal	Grey	Poor	8.0	Positive	
7/26	188	Mezzanine lobby	Beam	1	Metal	Grey	Poor	>9.9	Positive	
7/26	189	RA1	Door	1	Wood	Brown	Poor	0.1		
7/26	190	RA1	Door case	1	Wood	Grey	Poor	1.3	Positive	
7/26	191	RA1	Wall	1	Plaster	Green	Poor	>9.9	Positive	
7/26	192	RA1	Wall	2	Plaster	Green	Poor	>9.9	Positive	
7/26	193	RA1	Wall	3	Plaster	Green	Poor	>9.9	Positive	
7/26	194	RA1	Wall	4	Plaster	Green	Poor	9.5	Positive	
7/26	195	RA1	Column	6	Plaster	Green	Poor	>9.9	Positive	
7/26	195	RA1	Baseboard	1	Wood	Grey	Poor	-0.1		
7/26	196	RA1	Radiator	3	Metal	Beige	Poor	0.1		
7/26	197	RA1	Window sill	3	Wood	Green	Poor	0.1		
7/26	198	RA1	Window case	3	Wood	Green	Poor	0.0		
7/26	199	RA1	Window apron	3	Wood	Green	Poor	0.0		
7/26	200	RA1	Window sash	3	Wood	Green	Poor	0.2		

Table 1
Kingsbridge Armory
XRF Survey Data

Date	Shot #	Room	Component	Wall	Substrate	Color	Condition	XRF Reading	Classification	Sample ID
7/26	201	RA1	Beam	5	Plaster	Green	Poor	>9.9	Positive	
7/26	202	RA1	Ceiling	5	Plaster	Green	Poor	>9.9	Positive	
7/26	203	Bsmnt, Staircase A	Door	1	Metal	Green	Poor	1.8	Positive	
7/26	204	Bsmnt, Staircase A	Door case	1	Metal	Green	Poor	1.6	Positive	
7/26	205	Bsmnt, Staircase A	Wall	1	Plaster	Green	Poor	0.1		
7/26	206	Bsmnt, Staircase A	Wall	2	Plaster	Grey	Poor	>9.9	Positive	
7/26	207	Bsmnt, Staircase A	Wall	3	Plaster	Green	Poor	>9.9	Positive	
7/26	208	Bsmnt, Staircase A	Wall	4	Plaster	Grey	Poor	>9.9	Positive	
7/26	209	Bsmnt, Staircase A	Radiator cover	2	Metal	Grey	Poor	0.3		
7/26	210	Bsmnt, Staircase A	Radiator	2	Metal	Grey	Poor	1.7	Positive	
7/26	211	Bsmnt, Staircase A	Baseboard	4	Plaster	Grey	Poor	6.6	Positive	
7/26	212	Bsmnt, Staircase A	Ceiling	5	Plaster	Green	Poor	>9.9	Positive	
7/26	213	Bsmnt, Staircase A	Floor	6	Concrete	Grey	Poor	1.0	Positive	
7/26	214	Mezzanine	Wall	1	Brick	White	Poor	3.6	Positive	
7/26	215	Bsmnt, Staircase B	Wall	2	Brick	Grey	Poor	3.9	Positive	
7/26	216	Bsmnt, Staircase B	Wall	3	Brick	White	Poor	2.5	Positive	
7/26	217	Bsmnt, Staircase B	Wall	4	Brick	Grey	Poor	3.9	Positive	
7/26	218	Bsmnt, Staircase B	Hand rail	4	Metal	Grey	Poor	1.6	Positive	
7/26	219	Bsmnt, Staircase B	Stair tread	4	Concrete	Grey	Poor	0		
7/26	220	Bsmnt, Staircase B	Stair riser	4	Concrete	Grey	Poor	0.1		
7/26	221	Bsmnt, Staircase B	Stringer	4	Concrete	Grey	Poor	0.1		
7/26	222	Bsmt, mezzanine staircase B	Floor	6	Concrete	Grey	Poor	-0.0		

Table 1
Kingsbridge Armory
XRF Survey Data

Date	Shot #	Room	Component	Wall	Substrate	Color	Condition	XRF Reading	Classification	Sample ID
7/26	223	Bsmt, mezzanine staircase B	Radiator cover	3	Metal	Grey	Poor	0.2		
7/26	224	Bsmt, mezzanine staircase B	Radiator	3	Metal	Grey	Poor	0.5		
7/26	225	RC'6	Door	1	Metal	Green	Poor	-0.1		
7/26	226	RC'6	Door case	1	Metal	Green	Poor	0.6		
7/26	227	RC'6	Wall	1	Brick	White	Poor	3.7	Positive	
7/26	228	RC'6	Wall	2	Brick	White	Poor	4.1	Positive	
7/26	229	RC'6	Wall	3	Brick	White	Poor	-0.2		
7/26	230	RC'6	Wall	4	Brick	White	Poor	4.8	Positive	
7/26	231	RC'6	Hand rail	6	Metal	Grey	Poor	-0.1		
7/26	232	RC'6	Newel post	6	Metal	Grey	Poor	1.4	Positive	
7/26	233	RC'6	Stair tread	6	Wood	Grey	Poor	-0.1		
7/26	234	RC'6	Stringer	6	Metal	Grey	Poor	0.2		
7/26	235	RC'6	Locker door	2	Metal	Grey	Poor	0.5		
7/26	236	RC'6	Beam	5	Metal	Grey	Poor	6.4	Positive	
7/26	237	RC'6	Floor	6	Wood	Grey	Poor	0.3		
7/26	238	RC'6	Floor	6	Concrete	Grey	Poor	3.4	Positive	
7/26	239	RC16A	Door	1	Wood	Stained	Poor	-0.1		
7/26	240	RC16A	Door case	1	Wood	Red	Poor	3.9	Positive	
7/26	241	RC16A	Wall	1	Brick	Blue	Poor	>9.9	Positive	
7/26	242	RC16A	Wall	2	Brick	Green	Poor	>9.9	Positive	
7/26	243	RC16A	Wall	3	Concrete	Beige	Poor	2.8	Positive	
7/26	244	RC16A	Wall	4	Brick	Beige	Poor	>9.9	Positive	

Table 1
Kingsbridge Armory
XRF Survey Data

Date	Shot #	Room	Component	Wall	Substrate	Color	Condition	XRF Reading	Classification	Sample ID
7/26	245	RC16A	Pipe riser	3	Metal	Blue	Poor	1.8	Positive	
7/26	246	RC16A	Duct	5	Metal	Blue	Poor	0.2		
7/26	247	RC14	Door	1	Metal	Green	Poor	-0.0		
7/26	248	RC14	Door case	1	Metal	Green	Poor	2.4	Positive	
7/26	249	RC14	Wall	1	Brick	Blue	Poor	3.5	Positive	
7/26	250	RC14	Wall	2	Brick	Blue	Poor	3.2	Positive	
7/26	251	RC14	Wall	3	Brick	Blue	Poor	4.1	Positive	
7/26	252	RC14	Wall	4	Brick	Blue	Poor	4.0	Positive	
7/26	253	RC14	Hand rail	6	Metal	Grey	Poor	0.5		
7/26	254	RC14	Newel post	6	Metal	Grey	Poor	0.2		
7/26	255	RC14	Stair tread	6	Wood	Grey	Poor	0.1		
7/26	256	RC14	Stringer	6	Metal	Grey	Poor	0.2		
7/26	257	RC14	Locker door	2	Metal	Blue	Poor	0.4		
7/26	258	RC14	Beam	5	Metal	Grey	Poor	3.6	Positive	
7/26	259	RC14A	Door	1	Wood	Blue	Poor	0.4		
7/26	260	RC14A	Door case	1	Wood	Blue	Poor	0.3		
7/26	261	RC14A	Wall	1	Brick	White	Poor	6.7	Positive	
7/26	262	RC14A	Wall	2	Brick	White	Poor	>9.9	Positive	
7/26	263	RC14A	Wall	3	Concrete	White	Poor	4.8	Positive	
7/26	264	RC14A	Wall	4	Brick	White	Poor	>9.9	Positive	
7/26	265	RC14A	Pipe riser	3	Metal	White	Poor	0.3		
7/26	266	RC14A	Duct	5	Metal	White	Poor	0.1		
7/26	267	R1-15	Door	1	Metal	Green	Poor	0.2		
7/26	268	R1-15	Door case	1	Metal	Green	Poor	-0.0		

Table 1
Kingsbridge Armory
XRF Survey Data

Date	Shot #	Room	Component	Wall	Substrate	Color	Condition	XRF Reading	Classification	Sample ID
7/26	269	R1-15	Wall	1	Plaster	Beige	Poor	-0.1		
7/26	270	R1-15	Wall	2	Plaster	Beige	Poor	>9.9	Positive	
7/26	271	R1-15	Wall	3	Plaster	Beige	Poor	4.6	Positive	
7/26	272	R1-15	Wall	4	Plaster	Beige	Poor	3.4	Positive	
7/26	273	R1-15	Baseboard	2	Wood	Grey	Poor	-0.1		
7/26	274	R1-15	Chair rail	4	Wood	Beige	Poor	0.6		
7/26	275	R1-15	Wall molding	3	Wood	Beige	Poor	0.5		
7/26	276	R1-15	Radiator cover	2	Metal	White	Poor	9.1	Positive	
7/26	277	R1-15	Window sill	3	Wood	White	Poor	0.3		
7/26	278	R1-15	Window case	3	Wood	White	Poor	0.3		
7/26	279	R1-15	Window apron	3	Wood	White	Poor	0.3		
7/26	280	R1-15	Partition wall		Wood	Beige	Poor	-0.0		
7/26	281	R1-15	Ceiling	5	Plaster	Blue	Poor	5.3	Positive	
7/26	282	R1-15-A	Locker door	2	Metal	Grey	Poor	1.7	Positive	
7/26	283	R1-15-A	Door	1	Wood	Grey	Poor	3.4	Positive	
7/26	284	R1-15-A	Door case	1	Wood	Grey	Poor	0.4		
7/26	285	R1-15-A	Wall	1	Plaster	Blue	Poor	4.5	Positive	
7/26	286	R1-15-A	Wall	2	Plaster	Blue	Poor	3.8	Positive	
7/26	287	R1-15-A	Wall	3	Plaster	Blue	Poor	5.4	Positive	
7/26	288	R1-15-A	Wall	4	Plaster	Blue	Poor	1.2	Positive	
7/26	289	R1-15-A	Baseboard	2	Wood	Blue	Poor	0.8		
7/26	290	R1-15-A	Chair rail	3	Wood	Blue	Poor	2.5	Positive	
7/26	291	R1-15-A	Ceiling	5	Plaster	Blue	Poor	3.5	Positive	
7/26	292	R1-15-A	Horizontal pipe	5	Metal	Blue	Poor	0.5		

Table 1
Kingsbridge Armory
XRF Survey Data

Date	Shot #	Room	Component	Wall	Substrate	Color	Condition	XRF Reading	Classification	Sample ID
7/26	293	RM1-15	Door	1	Wood	Green	Poor	1.5	Positive	
7/26	294	RM1-15	Door case	1	Wood	Green	Poor	2.1	Positive	
7/26	295	RM1-15	Wall	1	Concrete	White	Poor	2.4	Positive	
7/26	296	RM1-15	Wall	2	Concrete	White	Poor	2.9	Positive	
7/26	297	RM1-15	Wall	3	Concrete	White	Poor	0.2		
7/26	298	RM1-15	Wall	4	Concrete	Peach	Poor	3.3	Positive	
7/26	299	RM1-15	Baseboard	3	Wood	White	Poor	2.5	Positive	
7/26	300	RM1-15	Chair rail	2	Wood	White	Poor	2.2	Positive	
7/26	301	RM1-15	Radiator cover	2	Metal	White	Poor	0.3		
7/26	302	RM1-15	Radiator	2	Metal	White	Poor	0.1		
7/26	303	RM1-15	Window sill	3	Wood	White	Poor	2.2	Positive	
7/26	304	RM1-15	Window case	3	Wood	White	Poor	1.9	Positive	
7/26	305	RM1-15	Window sash	3	Wood	White	Poor	3.1	Positive	
7/26	306	RM1-15	Ceiling	5	Plaster	White	Poor	0.5		
7/26	307	RM1-15	Door	1	Wood	Beige	Poor	1.7	Positive	
7/26	308	RM1-15/Bath	Door case	1	Wood	Beige	Poor	5.2	Positive	
7/26	309	RM1-15/Bath	Wall	1	Plaster	Beige	Poor	4.9	Positive	
7/26	310	RM1-15/Bath	Wall	2	Plaster	Beige	Poor	4.5	Positive	
7/26	311	RM1-15/Bath	Wall	3	Plaster	Beige	Poor	4.7	Positive	
7/26	312	RM1-15/Bath	Wall	4	Plaster	Beige	Poor	0.4		
7/26	313	RM1-15/Bath	Radiator	1	Metal	Beige	Poor	0.7		
7/26	314	RM1-15/Bath	Cabinet door	3	Metal	Beige	Poor	7.3	Positive	
7/26	315	RM1-15/Bath	Horizontal pipe	5	Metal	Beige	Poor	0.5		
7/26	316	RM1-15/Bath	Window sill	4	Wood	Beige	Poor	3.5	Positive	

Table 1
Kingsbridge Armory
XRF Survey Data

Date	Shot #	Room	Component	Wall	Substrate	Color	Condition	XRF Reading	Classification	Sample ID
7/26	317	RM1-15/Bath	Window case	4	Wood	Beige	Poor	2.8	Positive	
7/26	318	RM1-15/Bath	Window frame	4	Wood	Beige	Poor	2.8	Positive	
7/26	319	RM1-15/Bath	Ceiling	5	Plaster	Beige	Poor	3.8	Positive	
7/26	320	R1-12	Door	1	Metal	Green	Poor	0.2		
7/26	321	R1-12	Door case	1	Metal	Green	Poor	0.1		
7/26	322	R1-12	Wall	1	Plaster	Beige	Poor	5.0	Positive	
7/26	323	R1-12	Wall	2	Plaster	Beige	Poor	4.9	Positive	
7/26	324	R1-12	Wall	3	Plaster	Beige	Poor	6.3	Positive	
7/26	325	R1-12	Wall	4	Plaster	Beige	Poor	5.0	Positive	
7/26	326	R1-12	Baseboard	4	Wood	Grey	Poor	0.6		
7/26	327	R1-12	Wall molding	2	Wood	Grey	Poor	0.7		
7/26	328	R1-12	Radiator cover	2	Metal	Grey	Poor	1.6	Positive	
7/26	329	R1-12	Radiator	2	Metal	Black	Poor	0.6		
7/26	330	R1-12	Window sill	3	Wood	Grey	Poor	1.0	Positive	
7/26	331	R1-12	Window case	3	Wood	Grey	Poor	0.7		
7/26	332	R1-12	Window apron	3	Wood	Grey	Poor	0.2		
7/26	333	R1-12A	Door	1	Wood	Grey	Poor	2.3	Positive	
7/26	334	R1-12A	Door case	1	Wood	Grey	Poor	2.1	Positive	
7/26	335	R1-12A	Wall	1	Plaster	Beige	Poor	6.8	Positive	
7/26	336	R1-12A	Wall	2	Plaster	Beige	Poor	8.3	Positive	
7/26	337	R1-12A	Wall	3	Plaster	Beige	Poor	8.4	Positive	
7/26	338	R1-12A	Wall	4	Plaster	Beige	Poor	5.8	Positive	
7/26	339	R1-12A	Baseboard	1	Wood	Beige	Poor	7.3	Positive	
7/26	340	R1-12A	Pipe riser	2	Metal	Beige	Poor	7.9	Positive	

Tab.. 1
Kingsbridge Armory
XRF Survey Data

Date	Shot #	Room	Component	Wall	Substrate	Color	Condition	XRF Reading	Classification	Sample ID
7/26	341	R1-12A	Window case	4	Wood	Beige	Poor	0.6		
7/26	342	R1-12A	Window sash	4	Wood	Beige	Poor	2.5	Positive	
7/26	343	R1-12A	Ceiling	5	Plaster	Beige	Poor	3.2	Positive	
7/26	344	R1-12A	Shelf support	2	Wood	Beige	Poor	0.0		
7/26	345	Calibrate						1.9		
7/26	346	Calibrate						1.8	Avg. 1.9	
7/26	347	Calibrate						1.9		
7/26	348	R1-1	Door	1	Metal	Green	Poor	0.2		
7/26	349	R1-1	Door case	1	Metal	Green	Poor	-0.0		
7/26	350	R1-1	Wall	1	Plaster	Beige	Poor	1.0	Positive	
7/26	351	R1-1	Wall	2	Plaster	Beige	Poor	3.4	Positive	
7/26	352	R1-1	Wall	3	Plaster	Beige	Poor	3.4	Positive	
7/26	353	R1-1	Wall	4	Plaster	Beige	Poor	4.3	Positive	
7/26	354	R1-1	Baseboard	2	Wood	Black	Poor	0.5		
7/26	355	R1-1	Wall molding	3	Wood	Beige	Poor	1.0	Positive	
7/26	356	R1-1	Radiator	2	Metal	Beige	Poor	1.5		
7/26	357	R1-1	Window sill	3	Wood	Beige	Poor	0.2		
7/26	358	R1-1	Window case	3	Wood	Beige	Poor	-0.1		
7/26	359	R1-1	Window sash	3	Wood	Beige	Poor	0.2		
7/26	360	R1-1	Ceiling	5	Plaster	Beige	Poor	0.2		
7/26	361	R1-1A	Door	1	Wood	Varnish	Poor	0.1		
7/26	362	R1-1A	Door case	1	Wood	Varnish	Poor	1.0	Positive	
7/26	363	R1-1A	Wall	1	Plaster	Beige	Poor	>9.9	Positive	
7/26	364	R1-1A	Wall	2	Plaster	Beige	Poor	>9.9	Positive	

Table 1
Kingsbridge Armory
XRF Survey Data

Date	Shot #	Room	Component	Wall	Substrate	Color	Condition	XRF Reading	Classification	Sample ID
7/26	365	R1-1A	Wall	3	Plaster	Beige	Poor	>9.9	Positive	
7/26	366	R1-1A	Wall	4	Plaster	Beige	Poor	>9.9	Positive	
7/26	367	R1-1A	Baseboard	3	Wood	Black	Poor	0.3		
7/26	368	R1-1A	Pipe riser	1	Metal	Beige	Poor	3.6	Positive	
7/26	369	R1-1A	Ceiling	5	Plaster	Beige	Poor	5.1	Positive	
7/26	370	RM1-1	Door	1	Wood	White	Poor	-0.1		
7/26	371	RM1-1	Door case	1	Wood	Green	Poor	-0.1		
7/26	372	RM1-1	Wall	1	Plaster	Beige	Poor	9.5	Positive	
7/26	373	RM1-1	Wall	2	Plaster	Beige	Poor	8.9	Positive	
7/26	374	RM1-1	Wall	3	Plaster	Beige	Poor	8.0	Positive	
7/26	375	RM1-1	Wall	4	Plaster	Beige	Poor	6.8	Positive	
7/26	376	RM1-1	Baseboard	4	Wood	Beige	Poor	1.4	Positive	
7/26	377	RM1-1	Window sill	3	Wood	Green	Poor	0.2		
7/26	378	RM1-1	Window case	3	Wood	Green	Poor	1.0	Positive	
7/26	379	RM1-1	Window sash	3	Wood	Varnish	Poor	5.2	Positive	
7/26	380	RM1-1	Radiator	2	Metal	Green	Poor	0.5		
7/26	381	RM1-1	Ceiling	5	Plaster	Beige	Poor	3.7	Positive	
7/26	382	RM1-1	Pipe riser	1	Metal	Beige	Poor	0.7		
7/26	383	RM1-1	Door	1	Wood	White	Poor	5.9	Positive	
7/26	384	RM1-1/Bath	Door case	1	Wood	Green	Poor	5.2	Positive	
7/26	385	RM1-1/Bath	Wall	1	Plaster	Beige	Poor	9.4	Positive	
7/26	386	RM1-1/Bath	Wall	2	Plaster	Beige	Poor	>9.9	Positive	
7/26	387	RM1-1/Bath	Wall	3	Plaster	Beige	Poor	9.1	Positive	
7/26	388	RM1-1/Bath	Wall	4	Plaster	Beige	Poor	>9.9	Positive	

Table 1
Kingsbridge Armory
XRF Survey Data

Date	Shot #	Room	Component	Wall	Substrate	Color	Condition	XRF Reading	Classification	Sample ID
7/26	389	RM1-1/Bath	Radiator	1	Metal	So;ver	Poor	-0.0		
7/26	390	RM1-1/Bath	Cabinet door	3	Metal	Beige	Poor	>9.9	Positive	
7/26	391	RM1-1/Bath	Pipe riser	4	Metal	Black	Poor	1.4	Positive	
7/26	392	RM1-1/Bath	Ceiling	5	Plaster	Beige	Poor	2.2	Positive	
7/26	393	R1-4	Door	1	Metal	Green	Poor	-0.0		
7/26	394	R1-4	Door case	1	Metal	Green	Poor	-0.1		
7/26	395	R1-4	Wall	1	Plaster	Green	Poor	1.6	Positive	
7/26	396	R1-4	Wall	2	Plaster	Beige	Poor	5.0	Positive	
7/26	397	R1-4	Wall	3	Plaster	Beige	Poor	4.6	Positive	
7/26	398	R1-4	Wall	4	Plaster	Beige	Poor	4.1	Positive	
7/26	399	R1-4	Wall	2	Plaster	White	Poor	4.1	Positive	
7/26	400	R1-4	Radiator cover	2	Metal	Silver	Poor	0.4		
7/26	401	R1-4	Radiator	2	Metal	Silver	Poor	0.5		
7/26	402	R1-4	Window sill	3	mw	Black	Poor	2.1	Positive	
7/26	403	R1-4	Window case	3	Wood	Black	Poor	0.1		
7/26	404	R1-4	Window apron	3	Wood	Black	Poor	1.7	Positive	
7/26	405	R1-4	Baseboard	2	Wood	Black	Poor	0.4		
7/26	406	R1-4	Ceiling	5	Plaster	Beige	Poor	0.0		
7/26	407	R1-4B	Door	1	Wood	White	Poor	1.0	Positive	
7/26	408	R1-4B	Door case	1	Wood	White	Poor	1.0	Positive	
7/26	409	R1-4B	Wall	1	Plaster	White	Poor	1.0	Positive	
7/26	410	R1-4B	Wall	2	Plaster	White	Poor	0.3		
7/26	411	R1-4B	Wall	3	Plaster	White	Poor	1.6	Positive	
7/26	412	R1-4B	Wall	4	Plaster	White	Poor	1.4	Positive	

Table 1
Kingsbridge Armory
XRF Survey Data

Date	Shot #	Room	Component	Wall	Substrate	Color	Condition	XRF Reading	Classification	Sample ID
7/26	413	R1-4B	Baseboard	3	Wood	White	Poor	1.0	Positive	
7/26	414	R1-4B	Window sill	2	Wood	White	Poor	0.5		
7/26	415	R1-4B	Window case	2	Wood	White	Poor	0.5		
7/26	416	R1-4B	Window sash	2	Wood	White	Poor	0.5		
7/26	417	R1-4B	Ceiling	5	Plaster	White	Poor	0.6		
7/26	418	R1-4A	Door	1	Wood	Brown	Poor	1.3	Positive	
7/26	419	R1-4A	Door case	1	Wood	Green	Poor	1.0	Positive	
7/26	420	R1-4A	Wall	1	Plaster	Red	Poor	1.6	Positive	
7/26	421	R1-4A	Wall	2	Plaster	Red	Poor	2.0	Positive	
7/26	422	R1-4A	Wall	3	Plaster	Red	Poor	2.1	Positive	
7/26	423	R1-4A	Wall	4	Plaster	Red	Poor	0.1		
7/26	424	R1-4A	Baseboard	3	Wood	Red	Poor	2.0	Positive	
7/26	425	R1-4A	Chair rail	2	Wood	Red	Poor	0.6		
7/26	426	R1-4A	Window case	4	Wood	Brown	Poor	0.6		
7/26	427	R1-4A	Window sash	4	Wood	Brown	Poor	0.6		
7/26	428	R1-4A	Horizontal pipe	5	Metal	White	Poor	1.5	Positive	
7/26	429	R1-4A	Ceiling	5	Plaster	White	Poor	0.4		
7/26	430	R1-9	Door	1	Wood	Beige	Poor	0.2		
7/26	431	Ladies room	Door case	1	Wood	Green	Poor	0.0		
7/26	432	Ladies room	Wall	1	Concrete	Beige	Poor	-0.0		
7/26	433	Ladies room	Wall	2	Concrete	Beige	Poor	0.3		
7/26	434	Ladies room	Wall	3	Concrete	Beige	Poor	0.0		
7/26	435	Ladies room	Wall	4	Concrete	Beige	Poor	0.0		
7/26	436	Ladies room	Radiator	3	Metal	Beige	Poor	-0.0		

Table 1
Kingsbridge Armory
XRF Survey Data

Date	Shot #	Room	Component	Wall	Substrate	Color	Condition	XRF Reading	Classification	Sample ID
7/26	437	Ladies room	Door case	3	Metal	Beige	Poor	-0.0		
7/26	438	Ladies room	Radiator cover	1	Metal	Beige	Poor	-0.1		
7/26	439	Ladies room	Pipe riser	3	Metal	Beige	Poor	6.8	Positive	
7/26	440	Ladies room	Wall	3	Brick	Beige	Poor	-0.0		
7/26	441	Calibrate						1.9		
7/26	442	Calibrate						1.8	Avg 1.9	
7/26	443	Calibrate						1.8		
7/27	444	Calibrate						1.8		
7/27	445	Calibrate						1.8		
7/27	446	Calibrate						1.8		
7/27	447	East tower office	Door	1	Wood	Brown	Poor	0.1		
7/27	448	East tower office	Door case	1	Wood	Brown	Poor	0.1		
7/27	449	East tower office	Upper wall	1	Plaster	Lylac	Poor	>9.9	Positive	
7/27	450	East tower office	Upper wall	2	Plaster	Lylac	Poor	>9.9	Positive	
7/27	451	East tower office	Upper wall	3	Plaster	Lylac	Poor	>9.9	Positive	
7/27	452	East tower office	Upper wall	4	Plaster	Lylac	Poor	>9.9	Positive	
7/27	453	East tower office	Lower wall	1	Plaster	Brown	Poor	>9.9	Positive	
7/27	454	East tower office	Lower wall	2	Plaster	Brown	Poor	>9.9	Positive	
7/27	455	East tower office	Lower wall	3	Plaster	Brown	Poor	>9.9	Positive	
7/27	456	East tower office	Lower wall	4	Plaster	Brown	Poor	>9.9	Positive	
7/27	457	East tower office	Baseboard	3	Wood	Brown	Poor	3.2	Positive	
7/27	458	East tower office	Chair rail	2	Wood	Brown	Poor	0.1		
7/27	459	East tower office	Radiator cover	2	Metal	Brown	Poor	>9.9	Positive	
7/27	460	East tower office	Radiator	2	Metal	Brown	Poor	0.2		

Table 1
Kingsbridge Armory
XRF Survey Data

Date	Shot #	Room	Component	Wall	Substrate	Color	Condition	XRF Reading	Classification	Sample ID
7/27	461	East tower office	Horizontal pipe	3	Metal	Brown	Poor	0.2		
7/27	462	East tower office	Window sill	3	Wood	Brown	Poor	0.3		
7/27	463	East tower office	Window case	3	Wood	Brown	Poor	0.2		
7/27	464	East tower office	Window apron	3	Wood	Brown	Poor	0.0		
7/27	465	East tower office	Ceiling	5	Plaster	White	Poor	5.7	Positive	
7/27	466	Corridor to east tower office	Door	1	Wood	Varnish	Poor	0.0		
7/27	467	Corridor to east tower office	Door case	1	Wood	Blue	Poor	0.6		
7/27	468	Corridor to east tower office	Wall	1	Brick	Blue	Poor	-0.1		
7/27	469	Corridor to east tower office	Wall	2	Brick	White	Poor	-0.0		
7/27	470	Corridor to east tower office	Wall	3	Brick	Blue	Poor	0.0		
7/27	471	Corridor to east tower office	Wall	4	Brick	Blue	Poor	-0.0		
7/27	472	Corridor to east tower office	Pipe riser	2	Metal	Blue	Poor	0.6		
7/27	473	Corridor to east tower office	Shelf	3	Wood	Blue	Poor	3.8	Positive	
7/27	474	Corridor to east tower office	Shelf support	2	Wood	Blue	Poor	3.8	Positive	

Table 1
Kingsbridge Armory
XRF Survey Data

Date	Shot #	Room	Component	Wall	Substrate	Color	Condition	XRF Reading	Classification	Sample ID
7/27	475	Corridor to east tower office	Window sill	4	Wood	Black	Poor	0.4		
7/27	476	Corridor to east tower office	Window case	4	Wood	Black	Poor	-0.1		
7/27	477	Corridor to east tower office	Window apron	4	Wood	Black	Poor	0.2		
7/27	478	Corridor to east tower office	Wall	2	Plaster	Green	Poor	>9.9	Positive	
7/27	479	Corridor to east tower office	Wall	3	Plaster	Green	Poor	>9.9	Positive	
7/27	480	Corridor to east tower office	Wall	4	Plaster	Green	Poor	>9.9	Positive	
7/27	481	Corridor to east tower office	Baseboard	4	Wood	Grey	Poor	4.2	Positive	
7/27	482	Corridor to east tower office	Ceiling	5	Plaster	Grey	Poor	>9.9	Positive	
7/27	483	West tower office	Door	1	Wood	Black	Poor	0.2		
7/27	484	West tower office	Door case	1	Wood	Black	Poor	5.2	Positive	
7/27	485	West tower office	Wall	1	Plaster	Beige	Poor	>9.9	Positive	
7/27	486	West tower office	Wall	2	Plaster	Beige	Poor	>9.9	Positive	
7/27	487	West tower office	Wall	3	Plaster	Beige	Poor	>9.9	Positive	
7/27	488	West tower office	Wall	4	Plaster	Beige	Poor	>9.9	Positive	
7/27	489	West tower office	Baseboard	2	Wood	Black	Poor	2.4	Positive	
7/27	490	West tower office	Radiator cover	4	Wood	Black	Poor	0.3		

Table 1
Kingsbridge Armory
XRF Survey Data

Date	Shot #	Room	Component	Wall	Substrate	Color	Condition	XRF Reading	Classification	Sample ID
7/27	491	West tower office	Radiator	1	Metal	Silver	Poor	2.0	Positive	
7/27	492	West tower office	Window sill	1	Wood	Beige	Poor	3.1	Positive	
7/27	493	West tower office	Window case	1	Wood	Beige	Poor	2.1	Positive	
7/27	494	West tower office	Window sash	1	Wood	Beige	Poor	2.6	Positive	
7/27	495	West tower office	Window apron	1	Wood	Beige	Poor	2.7	Positive	
7/27	496	West tower office	Wall molding	1	Wood	Beige	Poor	>9.9	Positive	
7/27	497	Office	Door	1	Wood	Grey	Poor	>9.9	Positive	
7/27	498	Office/Bath	Door case	1	Wood	Black	Poor	>9.9	Positive	
7/27	499	Main lobby	Wall	1	Concrete	Beige	Fair	>9.9	Positive	
7/27	500	Main lobby	Wall	2	Concrete	Beige	Fair	>9.9	Positive	
7/27	501	Main lobby	Wall	3	Concrete	Beige	Fair	>9.9	Positive	
7/27	502	Main lobby	Wall	4	Concrete	Beige	Fair	>9.9	Positive	
7/27	503	Main lobby	Column	6	Concrete	Beige	Fair	>9.9	Positive	
7/27	504	Main lobby	Door	1	Metal	Grey	Fair	0.2		
7/27	505	Main lobby	Door case	1	Metal	Grey	Fair	-0.1		
7/27	506	Main lobby	Baseboard	3	Concrete	Grey	Fair	0.7		
7/27	507	Main lobby	Radiator cover	3	Metal	Black	Fair	-0.1		
7/27	508	Main lobby	Radiator	3	Metal	Silver	Fair	0.6		
7/27	509	Main lobby	Window case	3	Wood	Black	Fair	0.0		
7/27	510	Main lobby	Window sash	3	Wood	Black	Fair	-0.1		
7/27	511	Main lobby	Gate	4	Metal	Grey	Fair	>9.9	Positive	
7/27	512	Main lobby	Ceiling	5	Concrete	Beige	Fair	0.1		
7/27	513	Lobby	Column	6	Concrete	White	Fair	>9.9	Positive	
7/27	514	2nd floor corridor	Door	3	Wood	Stained	Fair	-0.0		

Table 1
Kingsbridge Armory
XRF Survey Data

Date	Shot #	Room	Component	Wall	Substrate	Color	Condition	XRF Reading	Classification	Sample ID
7/27	515	2nd floor corridor	Door case	3	Wood	Stained	Fair	0.2		
7/27	516	2nd floor corridor	Gate	1	Metal	Grey	Poor	0.4		
7/27	517	2nd floor corridor	Gate case	1	Metal	Grey	Poor	-0.1		
7/27	518	2nd floor corridor	Upper wall	2	Plaster	Beige	Poor	>9.9	Positive	
7/27	519	2nd floor corridor	Upper wall	4	Plaster	Beige	Poor	>9.9	Positive	
7/27	520	2nd floor corridor	Lower wall	2	Plaster	Grey	Poor	>9.9	Positive	
7/27	521	2nd floor corridor	Lower wall	4	Plaster	Grey	Poor	>9.9	Positive	
7/27	522	2nd floor corridor	Upper wall	1	Plaster	Beige	Poor	>9.9	Positive	
7/27	523	2nd floor corridor	Upper wall	3	Plaster	Beige	Poor	>9.9	Positive	
7/27	524	2nd floor corridor	Lower wall	1	Plaster	Grey	Poor	>9.9	Positive	
7/27	525	2nd floor corridor	Lower wall	3	Plaster	Grey	Poor	>9.9	Positive	
7/27	526	2nd floor corridor	Ceiling	5	Plaster	Beige	Poor	>9.9	Positive	
7/27	527	2nd floor corridor	Radiator cover	2	Metal	Grey	Poor	0.3		
7/27	528	2nd floor corridor	Radiator	2	Metal	Silver	Poor	0.3		
7/27	529	2nd floor corridor	Pipe riser	2	Metal	Silver	Poor	0.2		
7/27	530	2nd floor corridor	Baseboard	4	Concrete	Grey	Poor	1.7	Positive	
7/27	531	East officers club	Door	1	Wood	Stained	Fair	-0.2		
7/27	532	East officers club	Door case	1	Wood	Stained	Fair	-0.1		
7/27	533	East officers club	Upper wall	1	Plaster	Beige	Poor	>9.9	Positive	
7/27	534	East officers club	Upper wall	2	Plaster	Beige	Poor	>9.9	Positive	
7/27	535	East officers club	Upper wall	3	Plaster	Beige	Poor	>9.9	Positive	
7/27	536	East officers club	Upper wall	4	Plaster	Beige	Poor	>9.9	Positive	
7/27	537	East officers club	Lower wall	1	Wood	Stained	Poor	-0.1		
7/27	538	East officers club	Lower wall	2	Wood	Stained	Poor	-0.1		

Table 1
Kingsbridge Armory
XRF Survey Data

Date	Shot #	Room	Component	Wall	Substrate	Color	Condition	XRF Reading	Classification	Sample ID
7/27	539	East officers club	Lower wall	3	Wood	Stained	Poor	0.0		
7/27	540	East officers club	Lower wall	4	Wood	Stained	Poor	-0.0		
7/27	541	East officers club	Column	3	Plaster	Beige	Poor	>9.9	Positive	
7/27	542	East officers club	Wall molding	1	Wood	Beige	Poor	9.3	Positive	
7/27	543	East officers club	Ceiling	5	Plaster	White	Poor	>9.9	Positive	
7/27	544	East officers club	Beam ceiling	5	Plaster	Beige	Poor	>9.9	Positive	
7/27	545	2nd fl., office 2-2-6	Door	1	Wood	Stained	Poor	-0.1		
7/27	546	2nd fl., office 2-2-6	Door case	1	Wood	Stained	Poor	-0.0		
7/27	547	2nd fl., office 2-2-6	Wall	1	Plaster	Beige	Poor	>9.9	Positive	
7/27	548	2nd fl., office 2-2-6	Wall	2	Plaster	Beige	Poor	>9.9	Positive	
7/27	549	2nd fl., office 2-2-6	Wall	3	Plaster	Beige	Poor	>9.9	Positive	
7/27	550	2nd fl., office 2-2-6	Wall	4	Plaster	Beige	Poor	>9.9	Positive	
7/27	551	2nd fl., office 2-2-6	Baseboard	3	Wood	Beige	Poor	0.2		
7/27	552	2nd fl., office 2-2-6	Radiator cover	3	Metal	Beige	Poor	0.2		
7/27	553	2nd fl., office 2-2-6	Radiator	3	Metal	Beige	Poor	0.0		
7/27	554	2nd fl., office 2-2-6	Window sill	3	Wood	Beige	Poor	0.7		
7/27	555	2nd fl., office 2-2-6	Window case	3	Wood	Beige	Poor	0.6		
7/27	556	2nd fl., office 2-2-6	Window apron	3	Wood	Beige	Poor	-0.1		
7/27	557	2nd fl., office 2-2-6	Ceiling	5	Plaster	Beige	Poor	>9.9	Positive	
7/27	558	2nd fl., office 2-2-6	Door	1	Plaster	Green	Poor	>9.9	Positive	
7/27	559	2nd fl., bath 2-2-6	Door case	1	Wood	Green	Poor	>9.9	Positive	
7/27	560	2nd fl., bath 2-2-6	Wall	1	Wood	Green	Poor	>9.9	Positive	
7/27	561	2nd fl., bath 2-2-6	Wall	2	Plaster	Green	Poor	>9.9	Positive	
7/27	562	2nd fl., bath 2-2-6	Wall	3	Plaster	Green	Poor	>9.9	Positive	

Table 1
Kingsbridge Armory
XRF Survey Data

Date	Shot #	Room	Component	Wall	Substrate	Color	Condition	XRF Reading	Classification	Sample ID
7/27	563	2nd fl., bath 2-2-6	Wall	4	Plaster	Green	Poor	>9.9	Positive	
7/27	564	2nd fl., bath 2-2-6	Window case	4	Wood	Green	Poor	>9.9	Positive	
7/27	565	2nd fl., bath 2-2-6	Window sash	4	Wood	Green	Poor	>9.9	Positive	
7/27	566	2nd fl., closet 2-2-6	Door	1	Wood	Grey	Poor	>9.9	Positive	
7/27	567	2nd fl., closet 2-2-6	Door case	1	Wood	Grey	Poor	>9.9	Positive	
7/27	568	2nd fl., closet 2-2-6	Wall	1	Plaster	Grey	Poor	>9.9	Positive	
7/27	569	2nd fl., closet 2-2-6	Wall	2	Plaster	Grey	Poor	>9.9	Positive	
7/27	570	2nd fl., closet 2-2-6	Wall	3	Plaster	Grey	Poor	>9.9	Positive	
7/27	571	2nd fl., closet 2-2-6	Wall	4	Plaster	Grey	Poor	>9.9	Positive	
7/27	572	2nd fl., closet 2-2-6	Pipe riser	3	Metal	Grey	Poor	>9.9	Positive	
7/27	573	2nd fl., closet 2-2-6	Shelf	3	Wood	Grey	Poor	>9.9	Positive	
7/27	574	2nd fl., closet 2-2-6	Shelf support	3	Wood	Grey	Poor	>9.9	Positive	
7/27	575	2-2-5	Door	1	Wood	Stained	Poor	-0.2		
7/27	576	2-2-5	Door case	1	Wood	Black	Poor	1.0	Positive	
7/27	577	2-2-5	Baseboard	3	Wood	Black	Poor	-0.1		
7/27	578	2-2-5	Radiator	3	Metal	Black	Poor	0.4		
7/27	579	2-2-5	Window sill	3	Wood	Black	Poor	0.3		
7/27	580	2-2-5	Window case	3	Wood	Black	Poor	0.1		
7/27	581	2-2-5	Window apron	3	Wood	Black	Poor	0.4		
7/27	582	2-2-5	Wall	4	Plaster	Beige	Poor	>9.9	Positive	
7/27	583	2-2-5	Pipe riser	3	Metal	Black	Poor	1.5	Positive	
7/27	584	2-2-5	Molding ceiling	5	Wood	Beige	Poor	0.1		
7/27	585	2-2-5	Ceiling	5	Plaster	Beige	Poor	>9.9	Positive	
7/27	586	2nd fl., corridor	Floor	6	Concrete	Grey	Poor	1.5	Positive	

Table 1
Kingsbridge Armory
XRF Survey Data

Date	Shot #	Room	Component	Wall	Substrate	Color	Condition	XRF Reading	Classification	Sample ID
7/27	587	West officers club	Door case	1	Wood	Black	Poor	0.1		
7/27	588	West officers club	Wall	1	Plaster	Green	Poor	>9.9	Positive	
7/27	589	West officers club	Wall	2	Plaster	Green	Poor	>9.9	Positive	
7/27	590	West officers club	Wall	3	Plaster	Green	Poor	>9.9	Positive	
7/27	591	West officers club	Wall	4	Plaster	Green	Poor	>9.9	Positive	
7/27	592	West officers club	Wall molding	1	Wood	White	Poor	>9.9	Positive	
7/27	593	West officers club	Fire place	2	Brick	Beige	Fair	-0.0		
7/27	594	West officers club	Ceiling	5	Plaster	White	Fair	>9.9	Positive	
7/27	595	West officers club	Door	1	Wood	White	Fair	>9.9	Positive	
7/27	596	East stairs to 3rd fl.	Hand rail	1	Metal	Green/black	Poor	>9.9	Positive	
7/27	597	East stairs to 3rd fl.	Newel post	1	Metal	Green/black	Poor	>9.9	Positive	
7/27	598	East stairs to 3rd fl.	Ballust	1	Metal	Green/black	Poor	>9.9	Positive	
7/27	599	East stairs to 3rd fl.	Wall	1	Plaster	Beige	Poor	>9.9	Positive	
7/27	600	East stairs to 3rd fl.	Wall	2	Plaster	Beige	Poor	>9.9	Positive	
7/27	601	East stairs to 3rd fl.	Wall	3	Plaster	Beige	Poor	>9.9	Positive	
7/27	602	East stairs to 3rd fl.	Wall	4	Plaster	Beige	Poor	5.9	Positive	
7/27	603	East stairs to 3rd fl.	Ceiling	5	Plaster	Grey	Poor	>9.9	Positive	
7/27	604	East stairs to 3rd fl.	Baseboard	2	Wood	Beige	Poor	>9.9	Positive	
7/27	605	East stairs to 3rd fl.	Door	4	Metal	Beige	Poor	>9.9	Positive	
7/27	606	East stairs to 3rd fl.	Door case	4	Metal	Beige	Poor	>9.9	Positive	
7/27	607	3rd fl., officers lounge	Door case	1	Wood	Blue	Poor	>9.9	Positive	
7/27	608	3rd fl., officers lounge	Wall	1	Plaster	Blue	Poor	>9.9	Positive	
7/27	609	3rd fl., officers lounge	Wall	2	Plaster	Blue	Poor	>9.9	Positive	
7/27	610	3rd fl., officers lounge	Wall	3	Plaster	Blue	Poor	>9.9	Positive	

Table 1
Kingsbridge Armory
XRF Survey Data

Date	Shot #	Room	Component	Wall	Substrate	Color	Condition	XRF Reading	Classification	Sample ID
7/27	611	3rd fl., officers lounge	Wall	4	Plaster	Blue	Poor	>9.9	Positive	
7/27	612	3rd fl., officers lounge	Baseboard	2	Wood	Black	Poor	>9.9	Positive	
7/27	613	3rd fl., officers lounge	Radiator	4	Metal	Blue	Poor	1.9	Positive	
7/27	614	3rd fl., officers lounge	Window sill	4	Wood	Blue	Poor	>9.9	Positive	
7/27	615	3rd fl., officers lounge	Window apron	4	Wood	Blue	Poor	>9.9	Positive	
7/27	616	3rd fl., officers lounge	Ceiling	5	Plaster	Blue/white	Poor	>9.9	Positive	
7/27	617	3rd fl., officers lounge	Pipe riser	4	Metal	Blue/blue	Poor	>9.9	Positive	
7/27	618	3rd fl., officers lounge	Bar	4	Wood	Varnish	Poor	-0.1		
7/27	619	3rd fl., officers lounge	Wall	1	Plaster	Dark green	Poor	>9.9	Positive	
7/27	620	West stairs to 3rd fl.	Wall	2	Plaster	Dark green	Poor	>9.9	Positive	
7/27	621	West stairs to 3rd fl.	Wall	3	Plaster	Dark green	Poor	>9.9	Positive	
7/27	622	West stairs to 3rd fl.	Wall	4	Plaster	Dark green	Poor	>9.9	Positive	
7/27	623	West stairs to 3rd fl.	Electrical panel	1	Wood	Dark green	Poor	>9.9	Positive	
7/27	624	West stairs to 3rd fl.	Ceiling	5	Plaster	Dark green	Poor	8.3	Positive	
7/27	625	West stairs to 3rd fl.	Baseboard	3	Wood	Dark green	Poor	>9.9	Positive	
7/27	626	West stairs to 3rd fl.	Hand rail	1	Metal	Dark green	Poor	8.0	Positive	
7/27	627	West stairs to 3rd fl.	Newel post	1	Metal	Dark green	Poor	6.3	Positive	
7/27	628	West stairs to 3rd fl.	Baluster	1	Metal	Dark green	Poor	>9.9	Positive	
7/27	629	West Turret	Wall	1	Plaster	Brown	Poor	>9.9	Positive	
7/27	630	West Turret	Wall	2	Plaster	Brown	Poor	>9.9	Positive	
7/27	631	West Turret	Wall	3	Plaster	Brown	Poor	>9.9	Positive	
7/27	632	West Turret	Wall	4	Plaster	Brown	Poor	>9.9	Positive	
7/27	633	West Turret	Ceiling	5	Plaster	Brown	Poor	>9.9	Positive	
7/27	634	West Turret	Pipe riser	4	Metal	Brown	Poor	>9.9	Positive	

Table 1
Kingsbridge Armory
XRF Survey Data

Date	Shot #	Room	Component	Wall	Substrate	Color	Condition	XRF Reading	Classification	Sample ID
7/27	635	West Turret	Radiator	4	Metal	Silver	Poor	6.4	Positive	
7/27	636	West Turret	Hand rail	1	Metal	Grey	Poor	>9.9	Positive	
7/27	637	West Turret	Stair tread	1	Metal	Grey	Poor	>9.9	Positive	
7/27	638	West Turret	Stair riser	1	Metal	Grey	Poor	>9.9	Positive	
7/27	639	West Turret	Stringer	1	Metal	Grey	Poor	>9.9	Positive	
7/27	640	Calibrate						1.8		
7/27	641	Calibrate						1.7	Avg. 1.8	
7/27	642	Calibrate						1.8		
7/27	643	East 2, tower apt. living room	Door	1	Wood	Stained	Fair	-0.0		
7/27	644	East 2, tower apt. living room	Door case	1	Wood	Stained	Fair	0.1		
7/27	645	East 2, tower apt. living room	Wall	1	Plaster	Yellow	Poor	>9.9	Positive	
7/27	646	East 2, tower apt. living room	Wall	2	Plaster	Yellow	Poor	1.7	Positive	
7/27	647	East 2, tower apt. living room	Wall	3	Plaster	Yellow	Poor	3.9	Positive	
7/27	648	East 2, tower apt. living room	Wall	4	Plaster	Yellow	Poor	>9.9	Positive	
7/27	649	East 2, tower apt. living room	Baseboard	1	Wood	Grey	Poor	-0.0		
7/27	650	East 2, tower apt. living room	Radiator	3	Metal	Silver	Poor	1.4	Positive	

Table 1
Kingsbridge Armory
XRF Survey Data

Date	Shot #	Room	Component	Wall	Substrate	Color	Condition	XRF Reading	Classification	Sample ID
7/27	651	East 2, tower apt. living room	Window sill	4	Wood	Black	Poor	0.2		
7/27	652	East 2, tower apt. living room	Wall molding	2	Wood	Yellow	Poor	>9.9	Positive	
7/27	653	East 2, tower apt. living room	Shelf	4	Wood	Blue	Poor	1.3	Positive	
7/27	654	East 2, tower apt. living room	Shelf support	4	Wood	Blue	Poor	0.4		
7/27	655	East 2, tower apt. living room	Pipe riser	3	Metal	Silver	Poor	2.5	Positive	
7/27	656	Office	Door	1	Wood	Grey	Poor	>9.9	Positive	
7/27	657	Office	Door case	1	Wood	Grey	Poor	>9.9	Positive	
7/27	658	Office	Wall	1	Plaster	Grey	Poor	>9.9	Positive	
7/27	659	Office	Wall	2	Plaster	Grey	Poor	>9.9	Positive	
7/27	660	Office	Wall	3	Plaster	Grey	Poor	>9.9	Positive	
7/27	661	Office	Wall	4	Plaster	Grey	Poor	>9.9	Positive	
7/27	662	Office	Baseboard	3	Wood	Grey	Poor	>9.9	Positive	
7/27	663	Office	Radiator	4	Metal	Silver	Poor	>9.9	Positive	
7/27	664	Office	Wall	4	Brick	Grey	Poor	-0.0		
7/27	665	Office	Ceiling	5	Plaster	Grey	Poor	>9.9	Positive	
7/27	666	East Turret	living room ceiling	5	Plaster	White	Poor	>9.9	Positive	
7/27	667	East Turret	Wall	1	Plaster	Blue	Poor	>9.9	Positive	
7/27	668	East Turret	Wall	3	Plaster	Blue	Poor	>9.9	Positive	
7/27	669	East Turret	Wall	3	Plaster	Grey	Poor	>9.9	Positive	

Tab. .
Kingsbridge Armory
XRF Survey Data

Date	Shot #	Room	Component	Wall	Substrate	Color	Condition	XRF Reading	Classification	Sample ID
7/27	670	East Turret	Pipe riser	3	Metal	Grey	Poor	2.0	Positive	
7/27	671	East Turret	Window sill	3	Wood	Black	Poor	0.1		
7/27	672	East Turret	Window case	3	Wood	Black	Poor	0.2		
7/27	673	East Turret	Ceiling	5	Plaster	Beige	Poor	>9.9	Positive	
7/27	674	Staircase	Hand rail	3	Metal	Yellow	Poor	>9.9	Positive	
7/27	675	Drill floor	Upper wall	1	Plaster	Beige	Poor	0.1		
7/27	676	Southwest corner	Lower wall	1	Plaster	Green	Poor	1.0	Positive	
7/27	677	Southwest corner	Lower wall	1	Plaster	Brown	Poor	1.5	Positive	
7/27	678	Southwest corner	Window frame	1	Wood	Beige	Poor	3.2	Positive	
7/27	679	Southwest corner	Door	1	Wood	Green	Poor	>9.9	Positive	
7/27	680	Southwest corner	Door case	1	Wood	Green	Poor	>9.9	Positive	
7/27	681	Southwest corner	Window apron	1	Concrete	Green	Poor	1.8	Positive	
7/27	682	Southwest corner	Steel structure upper	1	Metal	Beige	Poor	>9.9	Positive	
7/27	683	Southwest corner	Steel structure lower	1	Metal	Green	Poor	>9.9	Positive	
7/27	684	Southwest corner	Radiator cover	1	Metal	Green	Poor	5.2	Positive	
7/27	685	Southwest corner	Radiator	1	Metal	Silver	Poor	2.8	Positive	
7/27	686	Southwest corner	Upper wall	1	Brick	Beige	Poor	0.2		
7/27	687	Southwest corner	Lower wall	1	Brick	Green	Poor	5.2	Positive	
7/27	688	Southwest corner	Door case	1	Wood	Green	Poor	-0.0		
7/27	689	Southwest corner	Door case	1	Metal	Dark green	Poor	-0.1		
7/27	690	Southwest corner	Pipe riser	1	Metal	White	Poor	5.4	Positive	
7/27	691	Southwest corner	Pipe riser	1	Metal	Green	Poor	>9.9	Positive	
7/27	692	Southwest corner	Upper wall	1	Brick	Red	Poor	-0.0		
7/27	693	Southwest corner	Steel structure	1	Metal	White	Poor	7.0	Positive	

Table 1
Kingsbridge Armory
XRF Survey Data

Date	Shot #	Room	Component	Wall	Substrate	Color	Condition	XRF Reading	Classification	Sample ID
7/27	694	Southwest corner	Steel structure	1	Metal	Green	Poor	>9.9	Positive	
7/27	695	Southwest corner	Lower wall	1	Brick	Brown	Poor	5.7	Positive	
7/27	696	Southwest corner	Pipe riser	1	Metal	Brown	Poor	7.9	Positive	
7/27	697	Southwest corner	Radiator cover	1	Metal	Brown	Poor	4.2	Positive	
7/27	698	Southwest corner	Steel structure	1	Metal	Yellow	Poor	>9.9	Positive	
7/27	699	Southwest corner	Steel structure	1	Metal	Brown	Poor	>9.9	Positive	
7/27	700	Southwest corner	Lower wall	1	Brick	Grey	Poor	>9.9	Positive	
7/27	701	Southwest corner	Pipe riser	1	Metal	Grey	Poor	>9.9	Positive	
7/27	702	Southwest corner	Steel structure	1	Metal	Grey	Poor	>9.9	Positive	
7/27	703	Drill floor	Radaitor	1	Metal	Grey	Poor	1.9	Positive	
7/27	704	Drill floor	Steel structure	1	Metal	White	Poor	5.8	Positive	
7/27	705	Drill floor	Upper wall	1	Concrete	White	Poor	-0.0		
7/27	706	Drill floor	Lower wall	1	Concrete	Brown	Poor	0.2		
7/27	707	Garage	Door case	2	Metal	Yellow	Fair	0.7		
7/27	708	Drill floor	Safety post	2	Metal	Yellow	Fair	5.3		
7/27	709	Drill floor	Door	3	Wood	Brown	Poor	3.5	Positive	
7/27	710	Drill floor	Door case	3	Wood	Brown	Poor	3.1	Positive	
7/27	711	Drill floor	Upper wall	3	Brick	Grey	Poor	5.7	Positive	
7/27	712	Drill floor	Lower wall	3	Brick	Brown	Poor	4.0	Positive	
7/27	713	Drill floor	Radiator cover	3	Metal	Brown	Poor	3.4	Positive	
7/27	714	Drill floor	Radiator	3	Metal	Brown	Poor	4.3	Positive	
7/27	715	Drill floor	Steel structure	3	Metal	Grey	Poor	>9.9	Positive	
7/27	716	Drill floor	Steel structure	3	Metal	Brown	Poor	>9.9	Positive	
7/27	717	Drill floor	Steel structure	3	Metal	Green	Poor	>9.9	Positive	

Table 1
Kingsbridge Armory
XRF Survey Data

Date	Shot #	Room	Component	Wall	Substrate	Color	Condition	XRF Reading	Classification	Sample ID
7/27	718	Drill floor	Upper wall	3	Concrete	White	Poor	0.4		
7/27	719	Drill floor	Lower wall	3	Concrete	Brown	Poor	-0.0		
7/27	720	Drill floor	Door	3	Metal	Brown	Poor	0.2		
7/27	721	Drill floor	Door case	3	Metal	Brown	Poor	0.4		
7/27	722	Drill floor	Wall	3	Wood	Blue	Poor	3.6	Positive	
7/27	723	Drill floor	Wall	3	Wood	Red	Poor	0.1		
7/27	724	Drill floor	Upper wall	3	Wood	White	Poor	-0.1		
7/27	725	Drill floor	Lower wall	3	Wood	Brown	Poor	0.0		
7/27	726	Drill floor	Upper wall	3	Brick	Lt. Grey	Poor	3.6	Positive	
7/27	727	Drill floor	Lower wall	3	Brick	Grey	Poor	>9.9	Positive	
7/27	728	Drill floor	Floor	6	Concrete	Grey	Poor	1.0	Positive	
7/28	729	Calibrate						1.7		
7/28	730	Calibrate						1.9	Avg. 1.7	
7/28	731	Calibrate						1.8		
7/28	732	Calibrate						1.8		
7/28	733	Calibrate						1.9	Avg. 1.8	
7/28	734	Calibrate						1.8		
7/28	735	Drill floor	Gate	4	Metal	Green	Poor	0.0		
7/28	736	Drill floor	Gate case	4	Metal	Green	Poor	2.1	Positive	
7/28	737	Drill floor	Upper wall	4	Brick	White	Poor	0.0		
7/28	738	Drill floor	Lower	1	Brick	Brown	Poor	>9.9	Positive	
7/28	739	By office 1-W2	Hand rail	1	Metal	Grey	Poor	0.3		
7/28	740	By office 1-W2	Newel post	1	Metal	Grey	Poor	0.3		
7/28	741	Drill floor	Stringer	1	Metal	Grey	Poor	9.3	Positive	

Table 1
Kingsbridge Armory
XRF Survey Data

Date	Shot #	Room	Component	Wall	Substrate	Color	Condition	XRF Reading	Classification	Sample ID
7/28	742	Drill floor	Side of mezz. deck	1	Metal	Green	Poor	8.4	Positive	
7/28	743	Drill floor	Side of mezz. deck	1	Metal	White	Poor	5.7	Positive	
7/28	744	Drill floor	Hand rail	1	Metal	Grey	Poor	3.0	Positive	
7/28	745	Drill floor	Newel post	1	Metal	Grey	Poor	>9.9	Positive	
7/28	746	Drill floor	Stringer	1	Metal	Grey	Poor	9.6	Positive	
7/28	747	Drill floor	Hand rail	3	Metal	Grey	Poor	2.1	Positive	
7/28	748	Drill floor	Newel post	3	Metal	Grey	Poor	>9.9	Positive	
7/28	749	Drill floor	Stringer	3	Metal	Grey	Poor	9.0	Positive	
7/28	750	Drill floor balcony	Window sill	3	Wood	White	Poor	2.7	Positive	
7/28	751	Drill floor balcony	Window apron	3	Wood	Grate	Poor	0.7		
7/28	752	Drill floor balcony	Metal structure	3	Metal	Green	Poor	>9.9	Positive	
7/28	753	Drill floor balcony	Radiator	3	Metal	Green	Poor	>9.9	Positive	
7/28	754	Drill floor balcony	Metal structure	3	Metal	Green	Poor	9.7	Positive	
7/28	755	Drill floor balcony	Fence	3	Metal	Green	Poor	1.7	Positive	
7/28	756	Drill floor balcony	Chair	3	Metal	Black	Poor	-0.1		
7/28	757	Drill floor balcony	Chair	1	Metal	Black	Poor	5.0	Positive	
7/28	758	Drill floor balcony	Metal structure	3	Metal	Green	Poor	5.4	Positive	
7/28	759	Drill floor balcony	Chair	1	Metal	Black	Poor	0.1		
7/28	760	Drill floor balcony	Fence	3	Metal	Green	Poor	3.8	Positive	
7/28	761	Drill floor balcony	Metal structure	1	Metal	Green	Poor	7.6	Positive	
7/28	762	Drill floor balcony	Fence	1	Metal	Green	Poor	2.0	Positive	
7/28	763	Drill floor balcony	Chair	1	Wood	Black	Poor	-0.0		
7/28	764	Drill floor balcony	Chair	1	Metal	Black	Poor	0.5		
7/28	765	Drill floor balcony	Wall	1	Brick	White	Poor	2.7	Positive	

Table 1
Kingsbridge Armory
XRF Survey Data

Date	Shot #	Room	Component	Wall	Substrate	Color	Condition	XRF Reading	Classification	Sample ID
7/28	766	Drill floor balcony	Steel structure	1	Metal	Green	Poor	>9.9	Positive	
7/28	767	Drill floor balcony	Chair	1	Wood	Black	Poor	0.1		
7/28	768	Drill floor balcony	Chair	1	Metal	Black	Poor	0.5		
7/28	769	Drill floor balcony	Wall	1	Brick	White	Poor	0.0		
7/28	770	Drill floor balcony	Steel structure	1	Metal	Green	Poor	>9.9	Positive	
7/28	771	Drill floor balcony	Fence	1	Metal	Green	Poor	2.5	Positive	
7/28	772	Drill floor balcony	Wall	1	Brick	White	Poor	-0.1		
7/28	773	Homeless shelter corridor	Door	1	Metal	Purple	Fair	-0.0		
7/28	774	Homeless shelter corridor	Door case	1	Metal	Purple	Fair	0.1		
7/28	775	Homeless shelter corridor	Upper wall	1	Sheetrock	Pink	Fair	0.2		
7/28	776	Homeless shelter corridor	Upper wall	6	Sheetrock	Pink	Fair	0.1		
7/28	777	Homeless shelter corridor	Upper wall	3	Sheetrock	Pink	Fair	0.1		
7/28	778	Homeless shelter corridor	Upper wall	4	Sheetrock	Pink	Fair	-0.1		
7/28	779	Homeless shelter corridor	Lower wall	1	Sheetrock	Purple	Fair	-0.0		
7/28	780	Homeless shelter corridor	Lower wall	2	Sheetrock	Purple	Fair	-0.1		

Tab 1
Kingsbridge Armory
XRF Survey Data

Date	Shot #	Room	Component	Wall	Substrate	Color	Condition	XRF Reading	Classification	Sample ID
7/28	781	Homeless shelter corridor	Lower wall	3	Sheetrock	Purple	Fair	-0.2		
7/28	782	Homeless shelter corridor	Lower wall	4	Sheetrock	Purple	Fair	-0.1		
7/28	783	Homeless shelter corridor	Door	4	Metal	Red	Fair	-0.1		
7/28	784	Homeless shelter corridor	Door case	4	Metal	Red	Fair	-0.0		
7/28	785	E dorm	Door	1	Metal	Blue	Fair	-0.0		
7/28	786	E dorm	Door case	1	Metal	Blue	Fair	-0.0		
7/28	787	E dorm	Upper wall	1	Sheetrock	Lt. Blue	Fair	-0.0		
7/28	788	E dorm	Upper wall	2	Sheetrock	Lt. Blue	Fair	-0.2		
7/28	788	E dorm	Upper wall	3	Plaster	Lt. Blue	Fair	-0.1		
7/28	789	E dorm	Upper wall	4	Plaster	Lt. Blue	Fair	>9.9	Positive	
7/28	790	E dorm	Lower wall	1	Sheetrock	Dark blue	Fair	-0.2		
7/28	791	E dorm	Lower wall	2	Sheetrock	Dark blue	Fair	-0.1		
7/28	792	E dorm	Lower wall	3	Plaster	Dark blue	Fair	>9.9	Positive	
7/28	793	E dorm	Lower wall	4	Plaster	Dark blue	Fair	>9.9	Positive	
7/28	794	E dorm	Window sill	3	Wood	Blue	Fair	>9.9	Positive	
7/28	795	E dorm	Window case	3	Wood	Blue	Fair	>9.9	Positive	
7/28	796	E dorm	Window sash	3	Wood	Blue	Fair	>9.9	Positive	
7/28	797	E dorm	Window apron	3	Wood	Blue	Fair	-0.1		
7/28	798	E dorm	Radiator	3	Metal	Blue	Fair	0.5		
7/28	799	E dorm	Hand rail	4	Metal	Black	Fair	0.5		

Table 1
Kingsbridge Armory
XRF Survey Data

Date	Shot #	Room	Component	Wall	Substrate	Color	Condition	XRF Reading	Classification	Sample ID
7/28	800	E dorm	Stair tread	4	Concrete	Brown	Fair	0.0		
7/28	801	E dorm	Stair riser	4	Concrete	Brown	Fair	0.1		
7/28	802	E dorm	Pipe riser	3	Metal	Blue	Fair	>9.9	Positive	
7/28	803	E dorm	Partition	6	Wood	Blue	Fair	-0.0		
7/28	804	E dorm	Ceiling	5	Concrete	White	Fair	>9.9	Positive	
7/28	805	E dorm	Dujct	5	Metal	Beige	Fair	0.7		
7/28	806	D dorm	Door	1	Metal	Pink	Fair	-0.1		
7/28	807	D dorm	Door case	1	Metal	Pink	Fair	-0.0		
7/28	808	D dorm	Upper wall	1	Sheetrock	Beige	Fair	-0.1		
7/28	809	D dorm	Upper wall	2	Sheetrock	Beige	Fair	-0.1		
7/28	810	D dorm	Upper wall	3	Sheetrock	Beige	Fair	-0.3		
7/28	811	D dorm	Upper wall	4	Sheetrock	Beige	Fair	-0.0		
7/28	812	D dorm	Lower wall	1	Sheetrock	Pink	Fair	-0.1		
7/28	813	D dorm	Lower wall	2	Sheetrock	Pink	Fair	-0.1		
7/28	814	D dorm	Lower wall	3	Sheetrock	Pink	Fair	-0.0		
7/28	815	D dorm	Lower wall	4	Sheetrock	Pink	Fair	-0.1		
7/28	816	D dorm	Window sill	3	Wood	Pink	Fair	>9.9	Positive	
7/28	817	D dorm	Window case	3	Wood	Pink	Fair	>9.9	Positive	
7/28	818	D dorm	Window sash	3	Wood	Pink	Fair	>9.9	Positive	
7/28	819	D dorm	Window apron	3	Wood	Pink	Fair	-0.1		
7/28	820	D dorm	Radiator	3	Metal	Pink	Poor	3.2	Positive	
7/28	821	D dorm	Partition	3	Wood	Pink	Poor	-0.1		
7/28	822	D dorm	Duct	5	Metal	Beige	Fair	0.5		
7/28	823	D dorm	Ceiling	5	Concrete	Beige	Fair	>9.9	Positive	

Table 1
Kingsbridge Armory
XRF Survey Data

Date	Shot #	Room	Component	Wall	Substrate	Color	Condition	XRF Reading	Classification	Sample ID
7/28	824	B dorm	Door	1	Metal	Brown	Fair	-0.2		
7/28	825	B dorm	Door case	1	Metal	Purple	Fair	-0.1		
7/28	826	B dorm	Upper wall	1	Sheetrock	Beige	Fair	-0.2		
7/28	827	B dorm	Upper wall	2	Sheetrock	Beige	Fair	-0.1		
7/28	828	B dorm	Upper wall	3	Plaster	Beige	Fair	>9.9	Positive	
7/28	829	B dorm	Upper wall	4	Sheetrock	Beige	Fair	-0.2		
7/28	830	B dorm	Lower wall	1	Sheetrock	Yellow	Fair	0.0		
7/28	831	B dorm	Lower wall	2	Sheetrock	Yellow	Fair	-0.0		
7/28	832	B dorm	Lower wall	3	Plaster	Yellow	Fair	>9.9	Positive	
7/28	833	B dorm	Lower wall	4	Sheetrock	Yellow	Fair	-0.1		
7/28	834	B dorm	Window sill	3	Wood	Yellow	Fair	-0.1		
7/28	835	B dorm	Window case	3	Wood	Yellow	Fair	8.9	Positive	
7/28	836	B dorm	Window sash	3	Wood	Yellow	Fair	6.3	Positive	
7/28	837	B dorm	Window apron	3	Wood	Yellow	Fair	0.2		
7/28	838	B dorm	Radiator	3	Metal	Yellow	Fair	0.2		
7/28	839	B dorm	Duct	5	Metal	Beige	Fair	0.7		
7/28	840	B dorm	Ceiling	5	Concrete	Beige	Fair	9.7	Positive	
7/28	841	A dorm	Door	1	Metal	Peach	Fair	-0.1		
7/28	842	A dorm	Door case	1	Metal	Peach	Fair	-0.1		
7/28	843	A dorm	Upper wall	1	Sheetrock	Pink	Fair	-0.0		
7/28	844	A dorm	Upper wall	2	Plaster	Pink	Fair	>9.9	Positive	
7/28	845	A dorm	Upper wall	3	Plaster	Pink	Fair	>9.9	Positive	
7/28	846	A dorm	Upper wall	4	Sheetrock	Pink	Fair	0.0		
7/28	847	A dorm	Lower wall	1	Sheetrock	Peach	Fair	-0.3		

Table 1
Kingsbridge Armory
XRF Survey Data

Date	Shot #	Room	Component	Wall	Substrate	Color	Condition	XRF Reading	Classification	Sample ID
7/28	848	A dorm	Lower wall	2	Plaster	Peach	Fair	0.0		
7/28	849	A dorm	Lower wall	3	Plaster	Peach	Fair	>9.9	Positive	
7/28	850	A dorm	Lower wall	4	Sheetrock	Peach	Fair	-0.0		
7/28	851	A dorm	Window sill	3	Wood	Peach	Fair	>9.9	Positive	
7/28	852	A dorm	Window case	3	Wood	Peach	Fair	>9.9	Positive	
7/28	853	A dorm	Window sash	3	Wood	Peach	Fair	5.9	Positive	
7/28	854	A dorm	Window apron	3	Wood	Peach	Fair	0.0		
7/28	855	A dorm	Radiator	3	Metal	Peach	Fair	-0.0		
7/28	856	A dorm	Pipe riser	3	Metal	Peach	Fair	0.4		
7/28	857	A dorm	Duct	3	Metal	Pink	Fair	>9.9	Positive	
7/28	858	A dorm	Ceiling	5	Concrete	Beige	Fair	>9.9	Positive	
7/28	859	A dorm	Duct	5	Metal	Beige	Fair	0.7		
7/28	860	A dorm	Partition	6	Wood	Pink	Fair	0.1		
7/28	861	Foyer, exit B	Door	1	Metal	Red	Fair	0.4		
7/28	862	Foyer, exit B	Door case	1	Metal	Red	Fair	1.6	Positive	
7/28	863	Foyer, exit B	Wall	1	Plaster	White	Fair	-0.1		
7/28	864	Foyer, exit B	Wall	2	Sheetrock	White	Fair	-0.1		
7/28	865	Foyer, exit B	Wall	3	Plaster	White	Fair	>9.9	Positive	
7/28	866	Foyer, exit B	Wall	4	Plaster	White	Fair	>9.9	Positive	
7/28	867	Foyer, exit B	Ceiling	5	Concrete	White	Fair	>9.9	Positive	
7/28	868	Foyer, exit B	Floor	6	Concrete	Grey	Poor	0.1		
7/28	869	Foyer, exit B	Hand rail	4	Metal	Black	Poor	0.4		
7/28	870	Foyer, exit B	Stair tread	4	Concrete	Black	Poor	0.4		
7/28	871	Foyer, exit B	Stair riser	4	Concrete	Black	Poor	0.4		

Table
Kingsbridge Armory
XRF Survey Data

Date	Shot #	Room	Component	Wall	Substrate	Color	Condition	XRF Reading	Classification	Sample ID
7/28	872	Foyer, exit B	Stringer	4	Concrete	Black	Fair	1.0	Positive	
7/28	873	National Guard area, entry foyer	Door	1	Metal	Grey	Fair	6.2	Positive	
7/28	874	National Guard area, entry foyer	Door case	1	Metal	Grey	Fair	5.2	Positive	
7/28	875	National Guard area, entry foyer	Door screen	1	Metal	Black	Fair	0.6		
7/28	876	National Guard area, entry foyer	Window case	4	Metal	Beige	Fair	2.7	Positive	
7/28	877	National Guard area, entry foyer	Window sash	4	Metal	Beige	Fair	3.7	Positive	
7/28	878	1st floor, corridor	Door case	1	Metal	Grey	Fair	0.1		
7/28	879	1st floor, corridor	Upper wall	1	Concrete	Ivory	Fair	1.3	Positive	
7/28	880	1st floor, corridor	Upper wall	2	Concrete	Ivory	Fair	1.0	Positive	
7/28	881	1st floor, corridor	Upper wall	3	Concrete	Ivory	Fair	1.3	Positive	
7/28	882	1st floor, corridor	Upper wall	4	Concrete	Ivory	Fair	-0.1		
7/28	883	1st floor, corridor	Lower wall	1	Concrete	Grey	Fair	0.4		
7/28	884	1st floor, corridor	Lower wall	2	Concrete	Grey	Fair	1.0	Positive	
7/28	885	1st floor, corridor	Lower wall	3	Concrete	Grey	Fair	1.4	Positive	
7/28	886	1st floor, corridor	Lower wall	4	Concrete	Grey	Fair	1.0	Positive	
7/28	887	1st floor, corridor	Radiator	3	Metal	Grey	Fair	0.6		
7/28	888	1st floor, corridor	Window sill	1	Concrete	Ivory	Fair	1.0	Positive	
7/28	889	1st floor, corridor	Window case	1	Metal	Black	Fair	1.6	Positive	
7/28	890	1st floor, corridor	Window sash	1	Metal	Black	Fair	2.5	Positive	

Table
Kingsbridge Armory
XRF Survey Data

Date	Shot #	Room	Component	Wall	Substrate	Color	Condition	XRF Reading	Classification	Sample ID
7/28	891	1st floor, corridor	Ceiling	5	Sheetrock	Ivory	Fair	-0.0		
7/28	892	1st floor, corridor	Floor	6	Concrete	Grey	Fair	-0.2		
7/28	893	1st floor, corridor	Door	2	Metal	Red	Fair	-0.1		
7/28	894	1st floor, corridor	Door case	2	Metal	Red	Fair	-0.0		
7/28	895	2nd floor, corridor	Door	2	Wood	Stained	Fair	0.7		
7/28	896	2nd floor, corridor	Door case	2	Metal	Grey	Fair	1.4	Positive	
7/28	897	Office 2-14	Door	1	Wood	Grey	Fair	-0.3		
7/28	898	Office 2-14	Door case	1	Metal	Grey	Fair	1.6	Positive	
7/28	899	Office 2-14	Wall	1	Concrete	Ivory	Fair	1.4	Positive	
7/28	900	Office 2-14	Wall	2	Concrete	Ivory	Fair	1.7	Positive	
7/28	901	Office 2-14	Wall	3	Concrete	Ivory	Fair	1.3	Positive	
7/28	902	Office 2-14	Window sill	3	Concrete	Black	Fair	1.9	Positive	
7/28	903	Office 2-14	Window case	3	Metal	Black	Fair	4.0	Positive	
7/28	904	Office 2-14	Window sash	3	Metal	Black	Fair	2.8	Positive	
7/28	905	Office 2-14	Radiator	3	Metal	Black	Fair	0.6		
7/28	906	Office 24, staircase	Door	1	Metal	Brown	Fair	1.7	Positive	
7/28	907	Office 24, staircase	Upper wall	1	Concrete	Ivory	Fair	0.3		
7/28	908	Office 24, staircase	Upper wall	2	Concrete	Ivory	Fair	2.1	Positive	
7/28	909	Office 24, staircase	Upper wall	3	Concrete	Ivory	Fair	0.3		
7/28	910	Office 24, staircase	Upper wall	4	Concrete	Ivory	Fair	0.5		
7/28	911	Office 24, staircase	Lower wall	1	Metal	Grey	Fair	0.5		
7/28	912	Office 24, staircase	Lower wall	2	Metal	Grey	Fair	0.5		
7/28	913	Office 24, staircase	Lower wall	3	Metal	Grey	Fair	0.5		
7/28	914	Office 24, staircase	Lower wall	4	Metal	Grey	Fair	0.5		

Table 1
Kingsbridge Armory
XRF Survey Data

Date	Shot #	Room	Component	Wall	Substrate	Color	Condition	XRF Reading	Classification	Sample ID
7/28	915	Office 24, staircase	Window case	3	Metal	Ivory	Fair	1.6	Positive	
7/28	916	Office 24, staircase	Window sash	3	Metal	Ivory	Fair	2.6	Positive	
7/28	917	Office 24, staircase	Hand rail	3	Metal	Black	Fair	5.2	Positive	
7/28	918	Office 24, staircase	Newel post	3	Metal	Black	Fair	1.9	Positive	
7/28	919	Office 24, staircase	Stair tread	3	Concrete	Grey	Fair	-0.1		
7/28	920	Office 24, staircase	Stair riser	3	Metal	Black	Fair	1.6	Positive	
7/28	921	Office 24, staircase	Stringer	3	Metal	Black	Fair	4.8	Positive	
7/28	922	Basement	Wall	1	Concrete	Blue	Fair	-0.1		
7/28	923	Basement	Wall	2	Concrete	Blue	Fair	-0.1		
7/28	924	Basement	Wall	3	Concrete	Blue	Fair	-0.1		
7/28	925	Basement	Wall	4	Concrete	Blue	Fair	-0.2		
7/28	926	Basement	Ceiling	5	Concrete	Blue	Fair	-0.0		
7/28	927	Basement	Door case	1	Metal	Red	Fair	0.3		
7/28	928	Basement	Duct	5	Metal	Blue	Fair	0.3		
7/28	929	Basement	Pipe riser	4	Metal	Blue	Fair	0.4		
7/28	930	Office 1-1	Door	1	Wood	Grey	Fair	-0.0		
7/28	931	Office 1-1	Door case	1	Metal	Grey	Fair	0.2		
7/28	932	Office 1-1	Wall	1	Concrete	Ivory	Fair	0.2		
7/28	933	Office 1-1	Wall	2	Concrete	Ivory	Fair	0.2		
7/28	934	Office 1-1	Wall	3	Concrete	Ivory	Fair	0.4		
7/28	935	Office 1-1	Wall	4	Concrete	Ivory	Fair	0.0		
7/28	936	Office 1-1	Baseboard	4	Concrete	Grey	Fair	0.4		
7/28	937	Office 1-1	Pipe riser	2	Metal	Ivory	Fair	0.5		
7/28	938	Office 1-1	Window case	2	Metal	Blue	Fair	3.3	Positive	

Table 1
Kingsbridge Armory
XRF Survey Data

Date	Shot #	Room	Component	Wall	Substrate	Color	Condition	XRF Reading	Classification	Sample ID
7/28	939	Office 1-1	Window sash	2	Metal	Blue	Fair	4.6	Positive	
7/28	940	Office 1-1	Ceiling	5	Sheetrock	White	Fair	0.0		
7/28	941	Office 1-1	Floor	6	Concrete	Grey	Fair	0.3		
7/28	942	National Guard garage	Door	1	Metal	Grey	Fair	1.8	Positive	
7/28	943	National Guard garage	Door case	1	Metal	Grey	Fair	0.2		
7/28	944	National Guard garage	Upper wall	2	Concrete	Lt. grey	Fair	0.1		
7/28	945	National Guard garage	Lower wall	2	Concrete	Dark grey	Fair	0.2		
7/28	946	National Guard garage	Upper wall	3	Concrete	Lt. grey	Fair	2.0	Positive	
7/28	947	National Guard garage	Lower wall	3	Concrete	Dark grey	Fair	2.0	Positive	
7/28	948	National Guard garage	Upper wall	4	Concrete	Lt. grey	Fair	-0.1		
7/28	949	National Guard garage	Lower wall	4	Concrete	Dark grey	Fair	0.0		
7/28	950	National Guard garage	Partition wall	4	Wood	Pink	Fair	-0.1		
7/28	951	National Guard garage	Upper wall	1	Concrete	Lt. grey	Fair	0.1		
7/28	952	National Guard garage	Lower wall	1	Concrete	Dark grey	Fair	0.1		
7/28	953	National Guard garage	Lower wall	1	Concrete	Red	Fair	-0.1		
7/28	954	National Guard garage	Window case	2	Metal	Grey	Poor	1.9	Positive	
7/28	955	National Guard garage	Floor	6	Concrete	Grey	Fair	-0.2		
7/28	956	National Guard garage	Ceiling	5	Concrete	Grey	Fair	-0.1		
7/28	957	National Guard garage	Beam	5	Metal	Grey	Fair	3.5	Positive	
7/28	958	National Guard garage	Floor	6	Concrete	Yellow	Fair	>9.9	Positive	
7/28	959	National Guard garage	Safety cover	2	Metal	Green	Fair	3.5	Positive	
7/28	960	National Guard garage	Control panel	4	Metal	Blue	Fair	0.0		
7/28	961	Calibrate						1.7		
7/28	962	Calibrate						1.9	Avg. 1.8	

Table 1
Kingsbridge Armory
XRF Survey Data

Date	Shot #	Room	Component	Wall	Substrate	Color	Condition	XRF Reading	Classification	Sample ID
7/28	963	Calibrate						1.8		
7/28	964	Basement, auditorium	Door	1	Wood	Green	Poor	0.4		
7/28	965	Basement, auditorium	Door case	1	Wood	Green	Poor	0.5		
7/28	966	Basement, auditorium	Upper wall	1	Plaster	Grey	Poor	-0.1		
7/28	967	Basement, auditorium	Upper wall	2	Plaster	Grey	Poor	-0.0		
7/28	968	Basement, auditorium	Upper wall	4	Plaster	Grey	Poor	-0.1		
7/28	969	Basement, auditorium	Lower wall	1	Plaster	Beige	Poor	-0.0		
7/28	970	Basement, auditorium	Lower wall	2	Plaster	Beige	Poor	0.2		
7/28	971	Basement, auditorium	Lower wall	4	Plaster	Beige	Poor	-0.1		
7/28	972	Basement, auditorium	Baseboard	1	Concrete	Grey	Poor	0.5		
7/28	973	Basement, auditorium	Column upper	6	Concrete	Grey	Poor	0.1		
7/28	974	Basement, auditorium	Column lower	6	Concrete	Beige	Poor	-0.0		
7/28	975	Basement, auditorium	Floor	6	Concrete	Grey	Poor	0.3		
7/28	976	Basement, auditorium	Ceiling	5	Concrete	Grey	Poor	-0.0		
7/28	977	Basement, auditorium	Stringer	1	Metal	Beige	Poor	>9.9	Positive	
7/28	978	Bsmnt, corridor stairs	Hand rail	6	Metal	Grey	Poor	7.9	Positive	
7/28	979	Bsmnt, corridor stairs	Newel post	6	Metal	Grey	Poor	4.9	Positive	
7/28	980	Bsmnt, corridor stairs	Stringer	6	Metal	Grey	Poor	>9.9	Positive	
7/28	981	Bsmnt, corridor stairs	Hand rail	6	Metal	Grey	Poor	5.8	Positive	
7/28	982	Bsmnt, corridor stairs	Newel post	6	Concrete	Grey	Poor	6.4	Positive	
7/28	983	Bsmnt, corridor stairs	Stringer	6	Concrete	Grey	Poor	4.5	Positive	
7/28	984	Bsmnt, corridor stairs	Ceiling	5	Concrete	White	Poor	0.3		
7/28	985	Lock RC3	Ceiling	5	Concrete	White	Poor	7.2	Positive	
7/28	986	Lock RC17	Ceiling	5	Concrete	White	Poor	0.0		

Table 1
Kingsbridge Armory
XRF Survey Data

Date	Shot #	Room	Component	Wall	Substrate	Color	Condition	XRF Reading	Classification	Sample ID
7/28	987	Gym	Ceiling	5	Concrete	Grey	Poor	-0.1		
7/28	988	Boiler R	Ceiling	5	Concrete	Grey	Poor	7.3	Positive	
7/28	989	Boiler R#1	Ceiling	5	Concrete	Grey	Poor	>9.9	Positive	
7/28	990	Boiler R#2	Ceiling	1	Concrete	Grey	Poor	0.3		
7/28	991	B40	Door case	1	Metal	Blue	Poor	1.7	Positive	
7/28	992	B40	Wall	1	Plaster	Yellow	Poor	-0.1		
7/28	993	B40	Wall	2	Plaster	Yellow	Poor	>9.9	Positive	
7/28	994	B40	Wall	3	Plaster	Yellow	Poor	>9.9	Positive	
7/28	995	B40	Wall	4	Plaster	Yellow	Poor	>9.9	Positive	
7/28	996	B40	Radiator	1	Metal	Silver	Poor	0.3		
7/28	997	B40	Window sill	3	Wood	Blue	Poor	0.2		
7/28	998	B40	Window case	3	Wood	Blue	Poor	0.3		
7/28	999	B40	Window sash	3	Wood	Blue	Poor	0.2		
7/28	1	B40	Window apron	3	Wood	Blue	Poor	0.2		
7/28	2	B40	Ceiling	5	Concrete	White	Poor	>9.9	Positive	
7/28	3	B40	Pipe riser	3	Metal	Blue	Poor	1.5	Positive	
7/28	4	B48	Door	1	Metal	Grey	Poor	4.5	Positive	
7/28	5	B48	Door case	1	Metal	Grey	Poor	7.8	Positive	
7/28	6	B48	Wall	1	Concrete	Yellow	Poor	-0.1		
7/28	7	B48	Wall	2	Concrete	Yellow	Poor	0.1		
7/28	8	B48	Wall	3	Brick	Yellow	Poor	0.1		
7/28	9	B48	Wall	4	Concrete	Green	Poor	0.0		
7/28	10	B48	Ceiling	5	Concrete	Green	Poor	0.0		
7/28	11	B48	Shelf	4	Wood	Grey	Poor	0.6		

Table 1
Kingsbridge Armory
XRF Survey Data

Date	Shot #	Room	Component	Wall	Substrate	Color	Condition	XRF Reading	Classification	Sample ID
7/28	12	B48	Shelf support	4	Wood	Grey	Poor	0.7		
7/28	13	Bsmnt, near RB3 stairs outside ext. of Kingsbridge Ave.	Hand rail	1	Metal	Grey	Poor	>9.9	Positive	
7/28	14	Bsmnt, near RB3 stairs outside ext. of Kingsbridge Ave.	Newel post	1	Metal	Grey	Poor	7.0	Positive	
7/28	15	Bsmnt, near RB3 stairs outside ext. of Kingsbridge Ave.	Stringer	1	Metal	Grey	Poor	8.8	Positive	
7/28	16	Bsmnt, near RB3 stairs outside ext. of Kingsbridge Ave.	Flag pole	1	Metal	Ivory	Poor	1.7	Positive	
7/28	17	Bsmnt, near RB3 stairs outside ext. of Kingsbridge Ave.	Flag pole base	1	Metal	Ivory	Poor	0.4		
7/28	18	Bsmnt, near RB3 stairs outside ext. of Kingsbridge Ave.	Artelery deco.	1	Metal	Ivory	Poor	1.5	Positive	
7/28	19	Bsmnt, near RB3 stairs outside ext. of Kingsbridge Ave.	Hand rail	1	Metal	Black	Poor	4.2	Positive	

Tab
Kingsbridge Armory
XRF Survey Data

Date	Shot #	Room	Component	Wall	Substrate	Color	Condition	XRF Reading	Classification	Sample ID
7/28	20	Bsmnt, near RB3 stairs outside ext. of Kingsbridge Ave.	Door	1	Metal	Black	Poor	1.6	Positive	
7/28	21	Bsmnt, near RB3 stairs outside ext. of Kingsbridge Ave.	Guard railing	1	Metal	Black	Poor	1.5	Positive	
7/28	22	Bsmnt, near RB3 stairs outside ext. of Kingsbridge Ave.	Fence	1	Metal	Black	Poor	2.8	Positive	
7/28	23	Bsmnt, near RB3 stairs outside ext. of Kingsbridge Ave.	Gate	1	Metal	Black	Poor	0.2		
7/28	24	Ext. Jerome Avenue.	Door	4	Metal	Black	Poor	-0.0		
7/28	25	Ext. Jerome Avenue.	Door case	4	Metal	Black	Poor	1.5	Positive	
7/28	26	Ext. Jerome Avenue.	Door guard	4	Metal	Black	Poor	0.2		
7/28	27	Ext. Jerome Avenue.	Window apron	4	Concrete	Black	Poor	0.1		
7/28	28	Ext. Jerome Avenue.	Vent	4	Metal	Black	Poor	5.7	Positive	
7/28	29	Ext. Jerome Avenue.	Window guard	4	Metal	Black	Poor	1.4	Positive	
7/28	30	National Guard office building	Wall	1	Brick	Green	Poor	-0.0		
7/28	30	National Guard office building	Gate	1	Metal	Black	Poor	4.1	Positive	
7/28	31	National Guard office building	Fence	1	Metal	Black	Poor	5.4	Positive	

Table 1
Kingsbridge Armory
XRF Survey Data

Date	Shot #	Room	Component	Wall	Substrate	Color	Condition	XRF Reading	Classification	Sample ID
7/28	32	National Guard office building	Hand rail	1	Metal	Grey	Poor	2.7	Positive	
7/28	33	National Guard office building	Door	1	Metal	Grey	Poor	5.4	Positive	
7/28	34	National Guard office building	Door case	1	Metal	Grey	Poor	3.9	Positive	
7/28	35	Exit	Gas guage	4	Metal	Yellow	Fair	1.8	Positive	
7/28	36	Exit	Gas guage	4	Metal	Grey	Fair	0.5		
7/28	37	Exit	Door	4	Metal	Grey	Fair	1.9	Positive	
7/28	38	Exit	Door case	4	Metal	Grey	Fair	5.3	Positive	
7/28	39	Exit	Hand rail	4	Metal	Grey	Fair	0.7		
7/28	40	Garage exit	Door case	1	Metal	Green	Fair	4.1	Positive	
7/28	41	Garage exit	Gate	1	Metal	Green	Fair	0.3		
7/28	42	Garage exit	Fence	1	Metal	Blak	Fair	3.1	Positive	
7/28	43	Garage exit	Door	2	Metal	Green	Fair	0.1		
7/28	44	Garage exit	Door case	2	Metal	Green	Fair	1.4	Positive	
7/28	45	Garage exit	Pipe riser	2	Metal	Green	Fair	1.7	Positive	
7/28	46	Garage exit	Window gate	1	Metal	Green	Fair	3.1	Positive	
7/28	47	Garage exit	Smoke stack door	2	Metal	Green	Fair	-0.0		
7/28	48	Garage exit	Storage cont. wall	1	Metal	Green	Fair	-0.0		
7/28	49	Garage exit	Storage cont. wall	2	Metal	Green	Fair	0.4		
7/28	50	Garage exit	Storage cont. wall	4	Metal	Green	Fair	0.4		
7/28	51	Garage exit	Fence	4	Metal	Black	Fair	>9.9	Positive	
7/28	52	Garage exit	Door	4	Metal	Green	Fair	3.5	Positive	

Table 1
Kingsbridge Armory
XRF Survey Data

Date	Shot #	Room	Component	Wall	Substrate	Color	Condition	XRF Reading	Classification	Sample ID
7/28	53	Garage exit	Door	4	Metal	Yellow	Fair	1.7	Positive	
7/28	54	Garage exit	Safety corner	4	Metal	Yellow	Fair	7.0	Positive	
7/28	55	Garage exit	Safety corner	4	Metal	Green	Fair	5.7	Positive	
7/28	56	Garage exit	Door	4	Metal	Green	Fair	1.7	Positive	
7/28	57	Garage exit	Door case	4	Metal	Green	Fair	>9.9	Positive	
7/28	58	Garage exit	Window guard	4	Metal	Green	Fair	2.4	Positive	
7/28	59	Garage exit	Drain pipe	4	Metal	Green	Fair	0.1		
7/28	60	Garage exit	Pipe riser	4	Metal	Green	Fair	0.6		
7/28	61	Calibrate						1.8		
7/28	62	Calibrate						1.7	Avg. 1.8	
7/28	63	Calibrate						1.9		

ATC ASSOCIATES, INC
104 E 25th Street, 10th Floor
New York, NY 10010
Tel. 212-353-8280
Fax 212-353-8306

REPORT DATE: 08-14-00

CLIENT: ET Environmetal

PROJECT No: 75018.0001

SAMPLED BY: F. Burkhardt

SAMPLE DATE: 08-11-00
DATE RECEIVED: 08-13-00
DATE ANALYZED: 08-13-00

SAMPLE MEDIA: Paint Chips
ANALYSIS REQUIRED: Method EPA 3050/7420

ANALYSIS RESULTS

SAMPLE ID	BATCH NO.	SAMPLE DESCRIPTION	LEAD CONCENTRATION (% by weight)	DETECTION LIMIT
1	8583	Rifle. R. - Aband.	0.07	0.01
2	8583	Rifle R. - Active	0.04	0.01
3	8583	Pistol 1-4	1.17	0.01
4	8583	Pistol 9-12	56.67	0.01
C-1	8583	Steel Truss	32.21	0.01
C-2	8583	Steel Truss	39.68	0.01
C-3	8583	Steel Truss	16.56	0.01
C-4	8583	Steel Truss	21.66	0.01
C-5	8583	Steel Truss	8.92	0.01
C-6	8583	Steel Truss	0.46	0.01

NOTE 1:
THE REPORTING LIMIT (RL) IS 0.01%

NOTE 2:
HUD defines lead-based paint as paint having a lead concentration equal to or above 0.5% by weight.
Results preceded by "<" are below the detectable levels by this analysis method.

ATC ASSOCIATES, INC
104 E 25th Street, 10th Floor
New York, NY 10010
Tel. 212-353-8280
Fax 212-353-8306

CERTIFICATION AND SIGNATURES

ANALYSIS PERFORMED BY: TL

REPORT PREPARED BY: [signature]

ATC certifies that this report is an accurate and authentic report of results obtained from the laboratory analysis.

QUALITY ASSURANCE COORDINATOR: [signature]

LABORATORY DIRECTOR: [signature]

ATC is accredited by the New York State Department of Health Environmental Laboratory Approval Program (NYS DOH ELAP) to perform analysis of lead in paint and dust wipes (ELAP #10879).

ASSOCIATES INC.

104 EAST 25TH STREET
NEW YORK, NY 10010
PHONE: 212-353-8280 FAX: 212-979-8447

8582

CHAIN OF CUSTODY

CLIENT NAME: ET ENVIRONMENTAL

SITE ADDRESS: KINGS BRIDGE ARMORY

JOB #: 75018.0001

SAMPLE TYPE (Paint Chip, Dust Wipe, etc...): CHIP / GRAB

OF SAMPLES: 10

SAMPLED BY: F. BURICHART

ANALYSIS REQUIRED (AAS-mg/sq.cm, etc...): PD-AAS % WT

TURN AROUND TI: SAME DAY

	SAMPLE I.D.	DATE	SAMPLE DESCRIPTION/LOCATION	AREA (in x in)	D.L.	RESULT OF ANAL
1	1	8/11	RIFLE RANGE - ABANDONED	N/A		
2	2	"	" - ACTIVE	"		
3	3	"	PISTOL 1-4	"		
4	4	"	PISTOL 9-12	"		
5	C-1	"	STEEL TRUSS	"		
6	C-2	"	"	"		
7	C-3	"	"	"		
8	C-4	"	"	"		
9	C-5	"	"	"		
10	C-6	8/11	"	"		
	--			N/A		

RELINQUISHED BY (SIGNATURE BELOW)

PRINT NAME: (BELOW) F. BURICHART

DATE/TIME 8/14

RECEIVED BY: (SIGNATURE BELOW)

PRINT NAME: (BELOW) J. MAPP

DATE/TIME 8/15/00 10 a.m.

RELINQUISHED BY (SIGNATURE BELOW)

PRINT NAME: (BELOW)

DATE/TIME

RECEIVED BY: (SIGNATURE BELOW)

PRINT NAME: (BELOW)

DATE/TIME

REPORTING PROVIDED BY:

LABORATORY DIRECTOR (SIGNATURE)

PRINT NAME: (BELOW)

DATE/TIME

AIHA NLLAP #

ATC ASSOCIATES, INC
104 E 25th Street, 10th Floor
New York, NY 10010
Tel. 212-353-8280
Fax 212-353-8306

REPORT DATE: 07-31-00

CLIENT: ET

PROJECT ADDRESS: Kingsbridge Armory

SAMPLE BY: M. Medinets

SAMPLE DATE: 07-24-00
DATE RECEIVED: 07-28-00
DATE ANALYZED: 07-28-00

SAMPLE MEDIA: Paint Chips
ANALYSIS REQUIRED: Method EPA 3050/7420

ANALYSIS RESULTS

SAMPLE ID	BATCH NO.	SAMPLE DESCRIPTION	LEAD CONCENTRATION (% by weight)	DETECTION LIMIT
01	8553	Stair Tread Sub. Bsmt. (Boiler Room)	0.13	0.01
02	8553	Control Panel Rm #3 Boiler Room	0.01	0.01
03	8553	Rm 4 Basment C16 Mez. Door	1.38	0.01

NOTE 1:
THE REPORTING LIMIT (RL) IS 0.01%

NOTE 2:
HUD defines lead-based paint as paint having a lead concentration equal to or above 0.5% by weight.
Results preceded by "<" are below the detectable levels by this analysis method.

CERTIFICATION AND SIGNATURES

ANALYSIS PERFORMED BY: _____

REPORT PREPARED BY: _____

ATC certifies that this report is an accurate and authentic report of results obtained from the laboratory analysis.

QUALITY ASSURANCE COORDINATOR: _____

LABORATORY DIRECTOR: _____

ATC is accredited by the New York State Department of Health Environmental Laboratory Approval Program (NYS DOH ELAP) to perform analysis of lead in paint and dust wipes (ELAP #10879).

ATC ASSOCIATES INC.
PAINT CHIP SAMPLING - CHAIN OF CUSTODY
194 EAST 25TH STREET, 10TH FLOOR
NEW YORK, NEW YORK 10010
PHONE: 212-353-8289 FAX: 212-979-8447

S553

PAGE___OF___
TOTAL # OF SAMPLES:___

ient Name: E T
Client Number: _____
Date: 7. 24. 00
oject Address: Kingsbridge Armory
Project Manager: F. Beurkhardt
Turnaround Time: 24h
vestigator: _____
Room Number: _____
Required: % by weight

Sample Number	Component & Location	Condition of Paint Surface	Substrate	Surface Paint Color	Type of Structure	Detection Limit	Pb % by Weight
01	Stair tread Sub BSM (Boiler Room)	___ Intact ___ Fair ✓ Poor	___ Sheetrock ___ Wood ✓ Metal ___ Masonry ___ Plaster___ Other	gray	___ Steel Structure ✓ Commercial ___ Industrial ___ Residential	0.01	0.13
02	control panel R#3 boiler room	___ Intact ___ Fair ✓ Poor	___ Sheetrock ___ Wood ✓ Metal ___ Masonry ___ Plaster___ Other	gray	___ Steel Structure ✓ Commercial ___ Industrial ___ Residential	0.01	0.01
03	R#4 BSM C. 16 Mez Door	___ Intact ___ Fair ✓ Poor	___ Sheetrock ___ Wood ✓ Metal ___ Masonry ___ Plaster___ Other	gray	___ Steel Structure ___ Commercial ___ Industrial ___ Residential	0.01	1.38
		___ Intact ___ Fair ___ Poor	___ Sheetrock ___ Wood ___ Metal ___ Masonry ___ Plaster___ Other		___ Steel Structure ___ Commercial ___ Industrial ___ Residential		
		___ Intact ___ Fair ___ Poor	___ Sheetrock ___ Wood ___ Metal ___ Masonry ___ Plaster___ Other		___ Steel Structure ___ Commercial ___ Industrial ___ Residential		

OMMENTS: _____

LINQUISHED BY (SIGNATURE BELOW):	DATE/TIME	RECIEVED BY (SIGNATURE BELOW):	DATE/TIME:	LABORATORY:	
R. Medrick	7.28.00	AM 07/28 9 pm			
INT NAME:	DATE/TIME	PRINT NAME:	DATE/TIME:	NLLAP#	ELAP#

CHAIN OF CUSTODY RECORD

WORK ORDER NO. _____

SCILAB

SCILAB BOSTON, INC.

8 School Street Weymouth, MA 02189-8951
781 337-9334 / FAX 781 337-7642

DUE DATE _____

COMPANY: ATC ASSOCIATES
104 EAST 25TH ST - 10TH FL
NY, NY 10010

PHONE: 212-353-8780 FAX #: 212-353-8306

P.O.#: 75010-1

CLIENT CONTACT: _____

PROJECT #: KINGSBRIDGE ARMORY

SAMPLE TYPE
1. WATER 6. WIPES
2. SOIL 7. AIR CASSETTE
3. SLUDGE 8. OTHER
4. OIL
5. CHIPS

CONTAINER TYPE
P - PLASTIC
G - GLASS
V - VOA

SCILAB SAMPLE #	CLIENT SAMPLE IDENTIFICATION	SAMPLE TYPE	CONTAINER SIZE	CONTAINER TYPE	CONTAINER #	SAMPLING INFORMATION DATE	TIME	TECH	PRESERVATIVES	TCLP LEAD	SAMPLE pH at login
	1	2		P						X	
	2	2		P						X	
	3	2		P						X	
	4	2		P						X	

REPORT PACKAGES
- MWRA ☐
- MA DEP ☐
- RDR ☐
- ASP A ☐
- ASP B ☐
- QC LEVEL 1 ☐
- QC LEVEL 2 ☐

SAMPLED BY: T. Burke

RELINQUISHED BY: FEDEX 8198 2057 4640

RELINQUISHED BY: T. Burke

RELINQUISHED BY: _____

DATE: 8/11/00	RECEIVED BY	DATE:	
TIME: 1100		TIME:	
DATE: 8/11/00	RECEIVED BY	DATE:	
TIME: 1700		TIME:	
DATE:	RECEIVED BY	DATE:	
TIME:		TIME:	

Temperature upon receipt _____

SPECIAL INSTRUCTIONS

☐ 24 HOUR TAT ☐ 72 HOUR TAT

☒ 48 HOUR TAT ☐ 5 DAY TAT

Shade area for ... Gold copy - ... Pink copy - ... Ivory use only. Remains ...

TOTAL P.02

ATC ASSOCIATES INC.

PAINT CHIP SAMPLING - CHAIN OF CUSTODY

104 EAST 25TH STREET, N[illegible] FLOOR
NEW YORK, NEW YORK 10010
PHONE: 212-353-8280 FAX: 212-979-8447

TOTAL # OF SAMPLES: 3

Name: ET

Client Number:

Date: 7.24.00

Address: Kingsbridge Armory

Project Manager: F. Burkhardt

Turnaround Time: 24h

gator:

Room Number:

Required: % by weight

ıple ıber	Component & Location	Condition of Paint Surface	Substrate	Surface Paint Color	Type of Structure	Detection Limit	Pb % by Weight
1	Stair tread Sub bsm (Boiler Room)	Intact / Fair / ✓ Poor	Sheetrock / Wood / ✓ Metal / Masonry / Plaster Other	gray	Steel Structure / ✓ Commercial / Industrial / Residential		
2	Control panel R#3 boiler room	Intact / Fair / ✓ Poor	Sheetrock / Wood / ✓ Metal / Masonry / Plaster Other	gray	Steel Structure / ✓ Commercial / Industrial / Residential		
3	R#4 BSM C 16 Mez Door	Intact / Fair / ✓ Poor	Sheetrock / Wood / ✓ Metal / Masonry / Plaster Other	gray	Steel Structure / ✓ Commercial / Industrial / Residential		
		Intact / Fair / Poor	Sheetrock / Wood / Metal / Masonry / Plaster Other		Steel Structure / Commercial / Industrial / Residential		
		Intact / Fair / Poor	Sheetrock / Wood / Metal / Masonry / Plaster Other		Steel Structure / Commercial / Industrial / Residential		

ITS:

HED BY (SIGNATURE BELOW): DATE/TIME	RECIEVED BY (SIGNATURE BELOW):	DATE/TIME:	LABORATORY:	
Medi web 7.28.00				
E: DATE/TIME	PRINT NAME:	DATE/TIME:	NLLAP#	ELAP#