Hazmat Survey Report for the Kensico Laboratory, Rev. 1

In support of
Contract CAT-423

Prepared by:

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TABLE OF CONTENTS

Tables

Figures

Attachments

1. Introduction

Bidwell Environmental (Bidwell) was retained by Hazen and Sawyer (H&S) to perform a hazardous materials assessment (hazards assessment) at the New York City Department of Environmental Protection's (NYCDEP) Kesnsico Laboratory, located in Valhalla, NY (Figure 1). The work described herein was performed in support of design contract CAT-423 and includes sampling and analysis of accessible suspect hazardous materials on equipment and substrates set to be impacted by future construction. The hazards assessment was initiated in December 2017 and was performed in accordance with the scope of work outlined in Bidwell's Sampling Plan dated November 3, 2017. All work was completed in accordance with a Job Hazard Analysis.

Based on the current design, the CAT-423 scope of work consists of converting the interior of the building from a laboratory into offices and includes replacement of windows, doors and the HVAC system. Samples collected in support of the hazards assessment include paint, caulk, covebase, and oil. The hazards assessment also included an asbestos survey and an inventory of universal wastes and other known or potentially regulated materials. All investigation activities were led by Bidwell. Laboratory services were subcontracted to:

- Aqua-ProTech Laboratories (APL) (NYS ELAP Certification No. 11634, as provided in attachment A);
- Niche Analysis, Inc. (NYS ELAP Certification No. 11236, as provided in attachment B);
- KAM Consultants (NYS ELAP Certification No. 11273, as provided in attachment B); and
- ATC Group Services, LLC (NYS ELAP Certification No. 10879, as provided in attachment B).

The results of all investigation activities are presented in this Hazmat Survey Report. This report includes a detailed discussion of the background investigation, scope of work, findings, and recommendations for known hazardous materials (Sections 2 through 5). The discussion presented herein is supported by Tables 1-29, Figures 1-5, and Attachments A-E as referenced throughout the document.

2. Background Investigation

In support of the field effort, Bidwell performed a background investigation consisting of an existing data review and staff interviews. Data provided by NYCDEP consisted of lead, PCB and asbestos sampling results as well as abatement records. Data deemed relevant to the CAT-423 scope of work was incorporated into the data summary tables. The laboratory data packages are provided in Attachment C.

3. Scope of Work

3.1 Lead and PCBs in Paint

Historically, lead and PCBs were used in paints for several reasons. Lead was used as pigment because it made colors more vibrant. Lead was also used as a preservative, because it made the paint more weather resistant, resisted the growth of mold and mildew, and helped prevent corrosion of metal surfaces. PCBs were used in paint formulations to improve water and chemical resistance, elasticity, and durability. For this reason and based on findings at other NYCDEP facilities, lead and PCBs were evaluated on paint chip samples collected from painted equipment and structures to be impacted by the CAT-423 scope of work. Paint chip samples were collected using a sharp stainless steel paint scraper. All sampling equipment was decontaminated prior to use and between sample locations using disposable wipes. In most cases, multiple grab samples were collected from each paint type to generate representative composite samples. Prior to sample collection a new pair of disposable nitrile gloves was used at each sample location. During sample collection, care was taken to collect all layers of paint film.

Lead and PCB analyses were performed by APL using EPA methods SW 846-6010C and SW 846-8082 (soxhlet extraction), respectively. Analytical results are discussed in Section 4.1 and summarized in Table 1. Paint chip sample locations for this investigation are depicted in Figures 2 through 5. The complete laboratory data packages are provided within Attachment A and pictures of PCB-containing paints can be found within Attachment D.

3.2 Lead Jointed Pipe and Other Lead-Containing Coatings

As part of the site investigation activities, Bidwell personnel inspected equipment and materials set to be impacted by CAT-423 for lead jointed pipe, lead jacketed cable, lead shielding and other suspect lead-containing materials. The results of the inspection are discussed in Section 4.2 and summarized in Table 2.

3.3 Miscellaneous PCB-Containing Materials

Historically, PCBs were used in caulking as drying oils (resins) and plasticizers or softening agents. Based on findings at other NYCDEP facilities, PCB analysis was performed on caulking and sealant collected within areas affected by the CAT-423 scope of work. Samples were collected using a sharp stainless steel knife, which was decontaminated prior to use and between sample locations using disposable wipes. Bidwell also sampled the oil contained within door closing

devices by emptying the oil into a glass container provided by the laboratory. Prior to sample collection a new pair of disposable nitrile gloves was used at each sample location.

PCB analysis was performed by APL using EPA method SW 846-8082 (soxhlet extraction). The results of analysis are discussed in Section 4.3, and summarized in Table 3. Sample locations from this investigation are depicted in Figures 3 through 5. The complete laboratory data package is provided in Attachment A and pictures of PCB-containing material are provided in Attachment D.

3.4 Asbestos Survey

A bulk asbestos survey was performed by a New York State Department of Labor (NYSDOL) licensed asbestos inspector to identify, assess, and quantify asbestos-containing materials (ACM) within areas affected by the CAT-423 scope of work. The survey was performed in accordance with the Environmental Protection Agency's (EPA) "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 generally organized following the AHERA concept of a homogenous area. That is, suspect ACM with similar age, appearance, and texture was grouped together for the purpose of collecting a representative sample. Bulk sampling involved penetrating the total depth of the suspect material providing a core of all materials present. Representative sampling was based upon the material's physical characteristics and distribution throughout the survey area.

Analysis of the samples collected during the survey included Polarized Light Microscopy (PLM) and Transmission Electron Microscopy (TEM). PLM is the EPA recommended method (EPA method 40 CFR 763, subpart F, App A) for determining the presence of asbestos in building and equipment materials. These materials include, but are not limited to mortar, window glazing, gaskets, and flooring. The PLM procedures involve taking a small amount of the suspect material during sample collection and isolating the fibers present in a certified laboratory and identifying them based on the crystalline properties observed. All asbestos types are crystalline materials and as a result can be identified by specific optical properties observed in the polarized light microscope. Results of the analysis are reported as a percentage of the total sample. The PLM method is sensitive to concentrations of asbestos down to 1%.

Non-friable, organically bound material was considered positive until proven negative by TEM using NYS ELAP Protocols 198.6/198.4. TEM represents the most sophisticated technology available for determining the presence of asbestos fibers in the finest size ranges and has the ability

to definitively identify these fibers by Energy Dispersive X-ray microanalysis and Selected Area Electron Diffraction.

The results of PLM and TEM analysis are discussed in Section 4.4 and summarized in Table 4. Asbestos sample locations are depicted in Figures 2 through 5. The complete laboratory data packages are provided within Attachment B. Bidwell asbestos certificates are provided within Attachment E. Pictures of confirmed ACM are found in Attachment D.

3.5 Treated Wood

As part of the site investigation, Bidwell personnel inspected equipment and substrates scheduled to be impacted by the CAT-423 scope of work for treated wood. The results of the survey are discussed in Section 4.5.

3.6 Mold

As part of the site investigation, Bidwell personnel inspected equipment and substrates expected to be impacted by the CAT-423 scope of work for mold growth. Mold is a fungus that grows in damp conditions and can have a negative impact on human health. The results of the survey are discussed in Section 4.6.

3.7 Other Regulated Wastes

The survey for universal waste and other miscellaneous regulated materials included a visual inspection of suspect materials that may be affected by the CAT-423 scope of work. Fluorescent, mercury vapor, High Intensity Discharge (HID) bulbs, and all other non-incandescent bulbs are assumed to be mercury-containing universal wastes and quantified accordingly. Ballasts are assumed to be PCB-containing unless otherwise documented via labeling. Non-PCB ballasts typically contain di (2-ethylhexyl) phthalate and are regulated solid wastes.

Other potentially regulated wastes include mercury-containing equipment (e.g., thermometers, thermostats, etc.), batteries, abandoned chemicals, chlorofluorocarbons, electronic components and low-level radioactive substances. The results of the survey for universal wastes and other miscellaneous regulated materials are discussed in Section 4.7 and summarized in Tables 5 through 29.

4. Findings

4.1 Lead and PCBs in Paint

As summarized in Table 1, lead was detected in each paint sampled as part of the hazards assessment, including but not limited to, paint on pipes, boilers, walls, and floors. Concentrations of lead in the paint chip samples ranged from 15.1 to 634,000 mg/kg. Concentrations of lead measured during a previous investigation ranged from 20 to 5,600 mg/kg. Detected concentrations of 5,000 mg/kg (paint chip) or 0.5% (XRF) and higher meet the US Department of Housing and Urban Development (HUD) definition of lead-based paint. However, any detectable concentration of lead may create lead-containing dusts or fumes if the paint is disturbed during future CAT-423 construction activity.

As summarized in Table 1, PCBs were detected in the majority of paints sampled as part of the hazards assessment, including but not limited to, paint on piping, walls, doors, and electrical panels. Detected PCB concentrations ranged from 0.485 to 702 mg/kg. Detected concentrations of PCBs measured during previous investigation ranged from 2.6 to 26 mg/kg. A number of painted pipes (756 linear ft.) in the basement contained PCBs exceeding the EPA TSCA regulatory limit of 50 mg/kg. Painted surfaces containing any detectable concentration of PCBs may create contaminated dusts or fumes if the paint is disturbed during construction or demolition.

4.2 Lead Jointed Pipe and Other Lead-Containing Materials

As summarized in Table 2, lead was detected in covebase (6.91 mg/kg) and glazed wall tiles (50.4 mg/kg) which are present throughout the building. It should be noted that lead joints were identified on drainage piping located throughout the building and are summarized in Table 5 through 29.

4.3 Miscellaneous PCB-Containing Materials

As summarized in Table 3, PCBs were found in door caulk, window caulk and door closer oil. Detected PCB concentrations raged from 7.87 to 13.1 mg/kg. The regulatory limit for defining TSCA-regulated PCBs is 50 mg/kg. However, materials containing any detectable concentration of PCBs may create PCB-containing dusts or fumes if disturbed during future CAT-423 construction activity.

4.4 Asbestos-Containing Materials

As presented in Table 4, asbestos was detected in pipe insulation (232 linear ft.), pipe elbow insulation (46 elbows), floor tiles (2,386 ft^2), duct mastic (3,690 ft^2), door caulk (102 linear ft.), window caulk (657 linear ft.), radiator caulk (7 linear ft.), vent caulk (18 linear ft.), tar (10 ft^2), canopy tar (264 ft^2), duct gaskets (88 linear ft.), pipe gaskets (3.5 ft^2), radiator shielding (697 ft^2), and wire wrap (74 linear ft.). ACM is defined as containing greater than 1% asbestos. A number of items (caulk behind door frames, 360 linear ft. and transite arc panels, 53 ft^2) could not be sampled and are presumed to be ACM until proven otherwise by testing. The estimated quantity and condition of the identified ACM is provided in Tables 5 through 29. Pictures of the ACM are provided in Attachment D.

4.5 Treated Wood

No treated wood was identified on equipment or substrates impacted by future CAT-423 construction activity.

4.6 Mold

No mold was identified on equipment or substrates impacted by future CAT-423 construction activity.

4.7 Other Regulated Wastes

As summarized in Tables 5 through 29, the construction scope of work includes the removal of other regulated wastes, including lighting bulbs (158), lighting ballasts (68), electronic waste (11), batteries (11), refrigerators (4), fire extinguishers (10) and a chemical waste storage tank (1).

5. Recommendations for Known Hazardous Materials

As detailed in Section 4, the hazards assessment confirmed the presence of hazardous materials that will require special handling during future construction. Remedial action and engineering controls will need to be implemented to provide for the safe handling of materials, and to protect site workers and the surrounding environment. The scope of remedial action shall include spot removal of lead and PCB-containing materials as necessary to control emissions during construction activities; abatement of asbestos-containing materials; and removal of regulated waste by an appropriately licensed waste hauler. Detailed recommendations for handling the known hazardous materials are discussed herein.

5.1 Lead and PCB-Containing Materials

As presented in Table 1, areas affected by the CAT-423 scope of work were determined to contain lead-based and lead-containing paints. According to 40 CFR 745.223, lead-based paint (LBP) is defined as paint that contains greater than or equal to 0.5% lead by dry weight (i.e., greater than or equal to 5,000 milligrams per kilogram (mg/kg)). In addition, Title X Section 1017 of the Department of Housing and Urban Development (HUD) Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing defines LBP as any paint containing lead in a concentration greater than or equal to 1.0 milligrams per square centimeter (mg/cm^2). Lead-containing paint (LCP) is paint that contains less than 0.5% lead by dry weight (i.e., less than 5,000 mg/kg), or less than 1.0 mg/cm^2 of lead.

Since both LBP and LCP are subject to the requirements set forth in the OSHA Lead in Construction Standard (29 CFR 1926.62), the results of the LBP/LCP inspection can be used to determine where construction/demolition activities will require compliance with the standard and are also pertinent to the selection of an appropriate disposal site and/or recycling facility for demolition debris containing lead-painted surfaces. LBP/LCP-painted materials were detected throughout the surveyed area, including, but not limited to coatings on pipes, walls and ceilings.

As presented in Table 3, PCBs were detected in paint and miscellaneous materials affected by future CAT-423 construction activity. Any construction activity affecting PCB-containing materials shall be performed in accordance with an approved PCB Safe Work Plan (for PCB-containing materials <50 ppm) or PCB Management Plan (for PCB-containing materials ≥50 ppm). The presence of PCBs will require health and safety protocol to ensure worker exposure

will not exceed the OSHA PEL for PCBs (i.e., 1 milligram per cubic meter of air (mg/m^3) as an 8-hour time weighted average (TWA)).

Management of lead and PCB-containing materials must be performed in accordance with Specifications 13283-Lead Management and 13284-PCB Management, respectively. Specifically, any construction activity affecting lead-containing materials must be conducted in accordance with an approved Lead Management Plan. The Lead Management Plan provides task-specific health and safety protocol and details of all waste handling. Work requiring a Lead Management Plan includes, but is not limited to, abatement, spot removal and construction/demolition activities. Construction activities affecting PCB-containing materials must be conducted in accordance with an approved PCB Safe Work Plan.

For bidding purposes, it is recommended that the contractor assume all painted surfaces will require HEPA vacuuming and wet wiping prior to the commencement of work on affected substrates and equipment. Additionally, it is recommended that lead and PCB-containing paints be removed from surfaces prior to cutting, unless other emission control efforts are proven effective. Construction areas impacting lead and PCB-containing paints should be posted as lead and PCB work areas, as applicable. Plastic sheeting should be used to protect the floors and equipment within the work areas. Cutting via hot methods should be avoided as practical, even after paint has been removed. Lead and PCB awareness training should be provided to all construction/demolition workers and inspectors, and exposure and area monitoring should be conducted during all activities that have the potential to generate dusts or fumes.

The disposal of materials coated with lead-based or lead-containing paint must be conducted in accordance with any applicable state and federal regulations, including RCRA regulations. Items that are not recycled (e.g., non-metallic wastes) would be subject to RCRA regulations. Under RCRA, lead-contaminated waste is regulated as a hazardous waste if the TCLP result exceeds 5.0 milligrams per liter (mg/L).

Wastes intended for recycling (e.g., painted scrap metal) are exempt from the definition of solid/hazardous waste under RCRA and NYSDEC regulations (6 NYCRR 371.1(c)(7)). Specifically, painted scrap metal shall be recycled in accordance with a C7 notification filed with the NYSDEC. Operators of the recycling facilities must still be notified of the presence of lead paint on wastes to be recycled in order to ensure proper handling.

Occupational lead exposure during construction activities is regulated by OSHA's Lead in Construction Standard, 29 CFR 1926.62. Work covered under the OSHA standard includes, but is not limited to:

- Demolition or salvage of structures where lead or materials containing lead are present;
- Removal or encapsulation of materials containing lead;
- New construction, alteration, repair or renovation of structures, substrates, or portions thereof, that contain lead, or materials containing lead; and
- Transportation, disposal, storage, or containment of lead or materials containing lead on the site or location at which construction activities are performed.

The OSHA PEL for worker exposures to airborne lead concentrations is 50 micrograms per cubic meter of air (µg/m^3) as an 8-hour TWA. The OSHA Action Level is 30 µg/m^3. At or above these limits, employers are required to follow all of the requirements set forth in 29 CFR 1926.62. Various levels of potential employee exposure while performing specific work tasks are listed in the standard along with guidance regarding corresponding personnel protective equipment (PPE) (e.g., respirators), air monitoring, and medical surveillance requirements. The contractor will be responsible for following the requirements of the standard during work to be conducted at the site.

5.2 Asbestos-Containing Materials

ACM is defined as containing greater than 1% asbestos. As presented in Table 4, asbestos was identified in a number of materials to be impacted by the CAT-423 scope of work. Materials found positive for asbestos include pipe insulation, duct mastic, door caulk, window caulk, vent caulk, gaskets, canopy tar, tar, radiator shielding and wire wrap.

In addition to the confirmed asbestos, there are numerous materials that were inaccessible at the time of the survey and could not be sampled. Materials that could not be accessed during the survey include but are not limited to door frame caulk, transite electric arc panels, and duct insulation. These materials are presumed asbestos-containing until proven otherwise. Estimated quantities of presumed asbestos-containing materials are provided in Tables 5 through 29. Presumed ACM and any suspect ACM discovered during construction/demolition activities must be sampled by a NYSDOL-certified Asbestos Inspector and sent to an accredited laboratory for analysis, unless otherwise managed as asbestos.

ACM affected by construction (e.g., on equipment targeted for demolition) must be removed by a NYSDOL-licensed asbestos abatement contractor. Specific means and methods for the asbestos

abatement should be developed by a licensed asbestos project designer. Unless otherwise specifically exempt by the regulations, independent third-party air monitoring must be performed by a NYSDOL-certified Asbestos Air Sampling Technician or Asbestos Project Monitor, prior to, during, and at the conclusion of all abatement activities, to protect the health and welfare of the public and NYCDEP personnel.

According to NYSDEC, non-friable ACM can be disposed of in a construction and demolition (C&D) debris landfill. All friable ACM, however, must be disposed of in a municipal waste landfill permitted to accept asbestos-containing wastes by EPA, as well as state, and local authorities. NYSDEC regulations pertaining to ACM are found in 6 NYCRR 360, Solid Waste Management Facilities.

Occupational asbestos exposure during construction/demolition activities is regulated by OSHA's Asbestos Standard for the Construction Industry (29 CFR 1926.1101). Work covered under the OSHA standard includes, but is not limited to:

- Demolition or salvage of structures where ACM is present;
- Removal or encapsulation of ACM;
- New construction, alteration, repair or renovation of structures, substrates, or portions thereof that contain ACM; and
- Transportation, disposal, storage, or containment of ACM on the site or location at which construction activities are performed.

The OSHA Permissible Exposure Limit (PEL) for worker exposures to airborne asbestos fiber concentrations is 0.1 fibers per cubic centimeter (f/cc) of air as an 8-hour Time-Weighted Average (TWA). The corresponding Excursion Limit is 1.0 f/cc averaged over a 30-minute period. At or above these limits, employers are required to follow all of the requirements set forth in 29 CFR 1926.1101. The contractor will be responsible for following the requirements of all federal, state, and local regulations during any abatement or construction/demolition activities conducted at the site.

The management of asbestos-containing materials shall be performed in accordance with Specification 13281-Asbestos Management. All workers engaged in asbestos abatement shall follow task-specific health and safety protocols and shall conduct work in accordance with an approved Asbestos Work Plan.

In addition to the above noted materials containing greater than 1% asbestos, trace asbestos was found in mastics, gaskets and flooring as identified in Table 4. While the removal of materials containing trace levels of asbestos is not regulated, it is recommended that the work be performed in accordance with minimum safe work practices.

5.3 Other Regulated Wastes

As summarized in Tables 5 through 29, areas affected by future CAT-423 construction activity were determined to contain universal wastes and other regulated materials. All workers engaged in the handling of universal waste and other miscellaneous regulated materials shall follow task-specific health and safety protocols and shall conduct work in accordance with approved work plans required by Specifications 13282-Mercury Management and 02222-Demolition and Removals. Additional details related to the handling of wastes are provided below.

Universal waste (fluorescent bulbs and batteries), must be managed in accordance with Specification 13282-Mercury Management, and shall be recycled at an appropriately permitted facility. Non-PCB ballasts shall be managed as non-hazardous regulated waste at an appropriately permitted facility.

Fire extinguishers require special handling and must be recycled or disposed, as appropriate, by a local fire extinguisher retailer. Refrigerants identified within the refrigerators shall be recycled by an appropriately licensed contractor, in accordance with an approved work plan required by Specification 02222-Demolition and Removals. Electronic components are considered hazardous and must be recycled at a registered electronic waste recycling facility.

The contents of the basement chemical waste storage tank could not be sampled and should at a minimum be considered hazardous for mercury and corrosivity, until proven otherwise by testing.

Table 1
Summary of Lead and PCB Analysis on Paints
Kensico Laboratory
Contract CAT-423

Sample ID	Location	Sample Description	Substrate	Color	Result (mg/kg)*	
					Lead	PCBs
191-LBP-01[a]	Microbiology Office	Ceiling	Cement	Beige	0.0912%	NA
191-19-LCP-01[a,1]	Microbiology Office	Ceiling	Cement	Beige	0.105%	5.61
191-LBP-02[a]	Boiler Room	Duct	Metal	Black	0.264%	NA
191-01-LCP-01[a,2]	Boiler Room	Duct	Metal	Black	0.205%	ND
191-LBP-03[a]	Boiler Room	Boiler	Metal	Silver	0.213%	NA
191-01-LCP-02[a,3]	Boiler Room	Boiler	Metal	Silver	0.104%	ND
191-LBP-04[a]	Storage Room	Ceiling	Cement	Beige	0.512%	NA
264428.02[b]	Attic	Duct work	Unknown	Unknown	820	2.9
264428.03[b]	Lunch Room	Unknown	Unknown	White	1,000	3.7
264428.04[b]	Lunch Room	Unknown	Unknown	Beige	350	ND
264428.05[b]	Drafting Room	Ceiling beams	Unknown	Unknown	1,800	3.2
264428.06[b]	Library	Walls	Unknown	Unknown	320	3.3
264428.07[b]	First Floor	Ceiling tiles	Unknown	Unknown	20	2.6
264428.08[b]	Boiler Room	Walls	Unknown	Unknown	5,600	26
CAT423-2ND-PC-01	Second Floor, Library and Conference Room	Walls	Plaster	Blue over beige	9,000	13.6
CAT423-2ND-PC-02	Second Floor, Hallway	Walls	Plaster	Green	2,510	4.56
CAT423-2ND-PC-03	Second Floor, Men's Bathroom	Sink drain pipe	Metal	White	1,400	2.14
CAT423-2ND-PC-04	Second Floor, Watershed Division Engineer's Office	Walls	Plaster	Beige over blue	1,560	3.49
CAT423-2ND-PC-05	Second Floor, Watershed Division Engineer's Office	Walls	Plaster	Yellow	2,890	10.9
CAT423-2ND-PC-06	Second Floor, Stairwell	Hand rail	Metal	Black	38,500	ND
CAT423-ATT-PC-07	Attic	Frame work	Metal	Silver	88,000	5.13

Table 1
Summary of Lead and PCB Analysis on Paints
Kensico Laboratory
Contract CAT-423

Sample ID	Location	Sample Description	Substrate	Color	Result (mg/kg)*	
					Lead	PCBs
CAT423-ATT-PC-08	Attic	Frame work	Metal	Yellow over silver	268	ND
CAT423-1ST-PC-09	First Floor, Sample Reception Room	Floor	Concrete	Grey/blue	35.8	ND
CAT423-1ST-PC-10	First Floor, Offices	Door	Metal	Beige over green	15.1	14.5
CAT423-BASE-PC-11	Basement, Boiler Room	Drain pipe	Metal	Black	4,720	30.6
CAT423-BASE-PC-12	Basement, Storage Room	Floor	Cement	Green	472	0.485
CAT423-BASE-PC-13	Basement, Hallway	Walls	Cement	White	26,800	20.7
CAT423-BASE-PC-14	Basement, Storage Room	Walls	Brick	Beige	5,490	6.16
CAT423-BASE-PC-15	Basement, Boiler Room	Main panel	Metal	Silver	2,810	22
CAT423-1ST-PC-16	First Floor, Garage	Floor	Concrete	Green	40.3	ND
CAT423-1ST-PC-17	First Floor, Garage	Support beam	Metal	Grey over red	126,000	ND
CAT423-BASE-PC-18	Basement, Crawlspace	Drain pipe	Metal	Black	310,000	52.7
CAT423-BASE-PC-19	Basement, Crawlspace	Drain pipe	Metal	Brown	533,000	128
CAT423-BASE-PC-20	Basement, Crawlspace	Piping	Metal	Blue	634,000	5.19
CAT423-BASE-PC-21	Basement, Crawlspace	Piping	Metal	Green	9,900	702
CAT423-BASE-PC-22	Basement, Crawlspace	Piping	Metal	Yellow	67,600	145

Notes:

(1) Samples collected by Bidwell Environmental in December, 2017 and January, 2018.

(2) The DEP and HUD action level used to define lead based paints is 5,000 mg/kg or 0.5%. The regulatory limit for defining TSCA-regulated PCBs is 50 mg/kg. However, any detected concentration of lead or PCBs in paint has the potential to affect worker health and safety during certain construction activities and shall be addressed in the Contractor's health and safety protocol for the affected work.

(3) Sample results noted above are considered representative of similarly painted structures, equipment, and substrates.

* - Unless otherwise noted

Table 1
Summary of Lead and PCB Analysis on Paints
Kensico Laboratory
Contract CAT-423

[a] - Samples collected by URS in September, 2004 for the Facility-Specific Assessment Report.

[b] - Samples collected in November, 2006.

[1] - Sample is homogenous to 191-LBP-01

[2] - Sample is homogenous to 191-LBP-02

[3] - Sample is homogenous to 191-LBP-03

Table 2
Summary of Lead Analysis on Miscellaneous Materials
Kensico Laboratory
Contract CAT-423

Sample ID	*Location*	*Sample Description*	*Color*	*Result (mg/kg)*
CAT423-2ND-PB-01	Second Floor, Library and Conference Room	Vinyl covebase	Grey	6.91
CAT423-2ND-PB-02	Second Floor, Hallway	Vinyl covebase	Black	ND
CAT423-1ST-PB-03	First Floor, Offices	Glazed wall tile	Green	50.4

Notes:
(1) Samples collected by Bidwell Environmental in December, 2017.
(2) Any detected concentration of lead has the potential to affect worker health and safety during certain construction activities and shall be addressed in the Contractor's health and safety protocol for the affected work.
(3) Sample results noted above are considered representative of materials with similar age, appearance, and texture.
ND - Not Detected

Table 3
Summary of PCB Analysis on Miscellaneous Materials
Kensico Laboratory
Contact CAT-423

Sample ID	*Area*	*Location*	*Material Description*	*Color*	*Result (mg/kg)*
264428.01[a]	Second Floor, Lunch Room	Window	Caulk	Unknown	ND
CAT423-1ST-PCB-01	First Floor, General Lab	Interior window	Caulk	Grey	8.13
CAT423-BASE-PCB-02	Basement, Boiler Room	Door	Caulk	Beige	13.1
CAT423-BASE-PCB-03	Basement, Boiler Room	Ground	Tar	Black	ND
CAT423-EXT-PCB-04	Exterior	Window	Caulk	Grey	ND
CAT423-1ST-PCB-05	First Floor, Garage	Floor joint	Caulk	Green	ND
CAT423-1ST-PCB-06	First Floor, Garage	Base of wall	Caulk	Yellow	ND
CAT423-EXT-PCB-07	Exterior	Vent	Caulk	White	ND
CAT423-EXT-PCB-08	Exterior	Entrance curb	Expansion joint	Black	ND
CAT423-EXT-PCB-09	Exterior	Window	Caulk	White	ND
CAT423-BASE-PCB-10	Basement, Crawlspace	Base of wall	Tar	Black	ND
CAT423-1ST-PCB-11	First Floor, Offices	Door closer	Oil	Brown	7.87

Notes:

(1) Samples collected by Bidwell Environmental in December, 2017, January, 2018, and March 2018.

(2) The regulatory limit for defining TSCA-regulated PCBs is 50 mg/kg. However, any detected concentration of PCBs has the potential to affect worker health and safety during certain construction activities and shall be addressed in the Contractor's health and safety protocol for the affected work.

(3) Sample results noted above are considered representative of materials with similar age, appearance, and texture.

[a] - Sample collected in November, 2006.

ND - Not Detected

Table 4
Summary of Asbestos Analysis
Kensico Laboratory
Contract CAT-423

Sample ID	*HMG*	*Area*	*Sample Location*	*Material Description*	*Analytical Results (%)*		
					PLM	PLM-NOB	TEM
0105040201E[a]	**–**	**First Floor, Garage**	**Old incubator, top cavity in cabinet**	**Gray air cell sheet insulation**	**28.57**	**NA**	**NA**
0105040202E[a]	**–**	**First Floor, Garage**	**Left door, cavity in cabinet**	**Gray air cell sheet insulation**	**33.33**	**NA**	**NA**
0913040201E[b]	**–**	**First Floor, Back Door Room**	**Heat pipe at ceiling**	**White insulation**	**36.4**	**NA**	**NA**
0913040202E[b]	**–**	**First Floor, Main Lab Area**	**Heat pipe at ceiling**	**White insulation**	**44.4**	**NA**	**NA**
0913040203E[b]	**–**	**First Floor, Bottle Wash Room**	**Heat pipe at ceiling**	**White insulation**	**40**	**NA**	**NA**
0913040204E[b]	–	First Floor, Bottle Wash Room	Ceiling	Black ceiling tile glue	IND	NA	ND
0913040205E[b]	–	First Floor, Back Room Left	Ceiling	Black ceiling tile glue	IND	NA	NA
0913040206E[b]	–	First Floor, East Back Room	Ceiling	Black ceiling tile glue	IND	NA	NA
0913040207E[b]	–	First Floor, Back Left Room	Ceiling	Brown fiber ceiling tile	ND	NA	NA
191-01-01[c]	**–**	**Attic**	**HVAC system**	**Sealants (duct batting mastic)**	**7**	**NA**	**NA**
191-01-02[c]	**–**	**Attic**	**HVAC system**	**Sealants (duct batting mastic)**	**NA**	**NA**	**NA**
191-01-03[c]	**–**	**Attic**	**HVAC system**	**Sealants (duct batting mastic)**	**NA**	**NA**	**NA**
191-02-01[c]	–	Second Floor, Microbiology Office	Ceiling	Suspended ceiling tiles	ND	NA	NA
191-02-02[c]	–	Second Floor, Microbiology Office	Ceiling	Suspended ceiling tiles	ND	NA	NA
191-02-03[c]	–	Second Floor, Microbiology Office	Ceiling	Suspended ceiling tiles	ND	NA	NA

Table 4
Summary of Asbestos Analysis
Kensico Laboratory
Contract CAT-423

Sample ID	*HMG*	*Area*	*Sample Location*	*Material Description*	*Analytical Results (%)*		
					PLM	**PLM-NOB**	**TEM**
191-03-01[c]	–	First Floor, Autoclave and Bottle Lab	Ceiling	Ceiling tile mastic	ND	NA	NA
191-03-02[c]	–	First Floor, Autoclave and Bottle Lab	Ceiling	Ceiling tile mastic	ND	NA	NA
191-03-03[c]	–	First Floor, Autoclave and Bottle Lab	Ceiling	Ceiling tile mastic	ND	NA	NA
191-04-01[c]	–	First Floor, Autoclave and Bottle Lab	Ceiling	Plaster with scratch coat	ND	NA	NA
191-04-02[c]	–	First Floor, Autoclave and Bottle Lab	Ceiling	Plaster with scratch coat	ND	NA	NA
191-04-03[c]	–	First Floor, Autoclave and Bottle Lab	Ceiling	Plaster with scratch coat	ND	NA	NA
191-05-01[c]	–	First Floor, Wet Chem Lab	Door	Caulk	<1 Trace	NA	NA
191-05-02[c]	–	First Floor, Wet Chem Lab	Door	Caulk	<1 Trace	NA	NA
191-05-03[c]	–	First Floor, Wet Chem Lab	Door	Caulk	<1 Trace	NA	NA
191-06-01[c]	–	**Basement, Boiler Room**	**Door**	**Caulk**	**2.25**	**NA**	**NA**
191-06-02[c]	–	**Basement, Boiler Room**	**Door**	**Caulk**	**NA**	**NA**	**NA**
191-06-03[c]	–	**Basement, Boiler Room**	**Door**	**Caulk**	**NA**	**NA**	**NA**
0222060201E[d]	–	First Floor, Chemical Lab	Unknown	Brown ceiling debris	ND	NA	NA
0222060202E[d]	–	First Floor, Chemical Lab	Unknown	Brown ceiling debris	ND	NA	NA
0821060210E[e]	–	**Front Entrance**	**Canopy**	**Black membrane tar**	**IND**	**NA**	**NA**
0821060211E[e]	–	**Front Entrance**	**Canopy**	**Black membrane tar**	**IND**	**NA**	**NA**
0821060212E[e]	–	**Front Entrance**	**Canopy**	**Black membrane tar**	**IND**	**NA**	**NA**
0821060213E[e]	–	**Front Entrance**	**Canopy**	**Black membrane tar**	**10.6**	**NA**	**NA**
1[g]	–	**Second Floor, Lunch Room**	**Left side**	**Gray window frame caulking**	**NA**	**5.1**	**NA**

Table 4
Summary of Asbestos Analysis
Kensico Laboratory
Contract CAT-423

Sample ID	*HMG*	*Area*	*Sample Location*	*Material Description*	*Analytical Results (%)*		
					PLM	PLM-NOB	TEM
2[g]	**–**	**Second Floor, Lunch Room**	**Left side**	**Gray window frame caulking**	**NA**	**4.2**	**NA**
3[g]	**–**	**Second Floor, Lunch Room**	**Left side**	**Gray window frame caulking**	**NA**	**5.8**	**NA**
4[g]	**–**	**Attic**	**Duct exhaust**	**Brown mastic**	**NA**	**6**	**NA**
5[g]	**–**	**Attic**	**Duct exhaust**	**Brown mastic**	**NA**	**4**	**NA**
6[g]	**–**	**Attic**	**Duct exhaust**	**Brown mastic**	**NA**	**4.5**	**NA**
7[g]	–	Attic	Main air handler	Dark brown duct vibration	ND	NA	NA
8[g]	–	Attic	Fan #1	Black duct vibration	ND	NA	NA
9[g]	–	Attic	Fan #2	Dark brown duct vibration	ND	NA	NA
10[g]	–	Attic	Fan #2	Dark brown duct vibration	ND	NA	NA
11[g]	–	Attic	Fan #3	Dark brown duct vibration	ND	NA	NA
12[g]	–	Second Floor, Lunch Room	Southeast corner	Brown 2x4' ceiling tile	ND	NA	NA
13[g]	–	Second Floor, Lunch Room	Southeast corner	Brown 2x4' ceiling tile	ND	NA	NA
14[g]	–	Second Floor, Lunch Room	Southeast corner	Brown 2x4' ceiling tile	ND	NA	NA
15A[g]	–	Second Floor, Lunch Room	East side, southeast corner	White ceiling plaster	ND	NA	NA
15B[g]	–	Second Floor, Lunch Room	East side, southeast corner	Brown ceiling plaster	ND	NA	NA
16A[g]	–	Second Floor, Lunch Room	West side, southwest corner	White ceiling plaster	ND	NA	NA
16B[g]	–	Second Floor, Lunch Room	West side, southwest corner	Brown ceiling plaster	ND	NA	NA
17A[g]	–	Second Floor, Lunch Room	West side, southwest corner	White ceiling plaster	ND	NA	NA
17B[g]	–	Second Floor, Lunch Room	West side, southwest corner	Brown ceiling plaster	ND	NA	NA

Table 4
Summary of Asbestos Analysis
Kensico Laboratory
Contract CAT-423

Sample ID	*HMG*	*Area*	*Sample Location*	*Material Description*	*Analytical Results (%)*		
					PLM	**PLM-NOB**	**TEM**
18[g]	–	Second Floor, Library-Conference Room	Northeast corner	Brown 2x4' ceiling tile	ND	NA	NA
19[g]	–	Second Floor, Library-Conference Room	Southwest corner	White 2x4' ceiling tile	ND	NA	NA
20[g]	–	Second Floor, Library-Conference Room	Southwest corner	White 2x4' ceiling tile	ND	NA	NA
21A[g]	–	Second Floor, Library-Conference Room	Southwest corner	White ceiling plaster	ND	NA	NA
21B[g]	–	Second Floor, Library-Conference Room	Southwest corner	Brown ceiling plaster	ND	NA	NA
22A[g]	–	Second Floor, Library-Conference Room	Southwest corner	White ceiling plaster	ND	NA	NA
22B[g]	–	Second Floor, Library-Conference Room	Southwest corner	Brown ceiling plaster	ND	NA	NA
23A[g]	–	Second Floor, Library-Conference Room	Northeast corner	White ceiling plaster	ND	NA	NA
23B[g]	–	Second Floor, Library-Conference Room	Northeast corner	Brown ceiling plaster	ND	NA	NA
24[g]	–	First Floor, Auto Clave Room	Northeast corner	White plaster beam coat	ND	NA	NA
25[g]	–	First Floor, Auto Clave Room	Northeast corner	Yellow 9x9" ceiling tile	ND	NA	NA
26[g]	–	First Floor, Auto Clave Room	Northeast corner	Yellow 9x9" ceiling tile	ND	NA	NA
27[g]	–	First Floor, Auto Clave Room	Northeast corner, duct wall	Yellow 9x9" ceiling tile	ND	NA	NA
28[g]	–	First Floor, Auto Clave Room	Northeast corner, duct wall	Brown duct mesh plaster	ND	NA	NA

Table 4
Summary of Asbestos Analysis
Kensico Laboratory
Contract CAT-423

Sample ID	*HMG*	*Area*	*Sample Location*	*Material Description*	*Analytical Results (%)*		
					PLM	**PLM-NOB**	**TEM**
29[g]	–	First Floor, Auto Clave Room	Northeast corner, duct wall	Brown duct mesh plaster	NA	NA	NA
30A[g]	–	**First Floor, Auto Clave Room**	**Duct work, east side**	**Black duct insulation spot coating**	**NA**	**8**	**NA**
30B[g]	–	First Floor, Auto Clave Room	Northeast corner duct, east	Yellow duct insulation	ND	NA	NA
31A[g]	–	**First Floor, Auto Clave Room**	**Duct work, east side**	**Black duct insulation spot coating**	**NA**	**7.5**	**NA**
31B[g]	–	First Floor, Auto Clave Room	Northeast corner duct east	Yellow duct insulation	ND	NA	NA
32[g]	–	First Floor, Auto Clave Room	Northeast corner, ceiling	Brown ceiling tile glue	NA	IND	ND
33[g]	–	First Floor, Auto Clave Room	Northeast corner duct, east wall	Brown ceiling tile glue	NA	IND	ND
34[g]	–	First Floor, Auto Clave Room	Northeast corner duct, east wall	Brown ceiling tile glue	ND	IND	ND
35A[g]	–	First Floor, Auto Clave Room	South middle area, upper	White wall plaster	ND	NA	NA
35B[g]	–	First Floor, Auto Clave Room	South middle area, upper	Brown wall plaster	ND	NA	NA
36A[g]	–	First Floor, Auto Clave Room	South middle area, upper	White wall plaster	ND	NA	NA
36B[g]	–	First Floor, Auto Clave Room	South middle area, upper	Brown wall plaster	ND	NA	NA
37A[g]	–	First Floor, Auto Clave Room	Northwest corner, upper area	White wall plaster	ND	NA	NA
37B[g]	–	First Floor, Auto Clave Room	Northwest corner, upper area	Brown wall plaster	ND	NA	NA

Table 4
Summary of Asbestos Analysis
Kensico Laboratory
Contract CAT-423

Sample ID	*HMG*	*Area*	*Sample Location*	*Material Description*	*Analytical Results (%)*		
					PLM	**PLM-NOB**	**TEM**
38[g]	–	First Floor, Auto Clave Room	South wall, upper area	Pale green ceramic brick	ND	NA	NA
39[g]	–	First Floor, Auto Clave Room	South wall, upper area	Pale green ceramic brick	ND	NA	NA
40[g]	–	First Floor, Auto Clave Room	South wall, upper area	Pale green ceramic brick	ND	NA	NA
41[g]	–	First Floor, Water & Sewer Lab	West side, duct wall	Brown duct mesh plaster	ND	NA	NA
42[g]	–	First Floor, Water & Sewer Lab	West side, duct wall	Brown duct mesh plaster	ND	NA	NA
43[g]	–	First Floor, Water & Sewer Lab	West side, middle area	Yellow 9x9" ceiling tile	ND	NA	NA
44A[g]	–	**First Floor, Water & Sewer Lab**	**South end**	**Black duct insulation spot coating**	**NA**	**6.4**	**NA**
44B[g]	–	First Floor, Water & Sewer Lab		Yellow duct insulation	ND	NA	NA
45[g]	–	First Floor, Water & Sewer Lab	South end	Gray duct insulation cement	ND	NA	NA
46[g]	–	First Floor, Water & Sewer Lab	South end	Gray duct insulation cement	ND	NA	NA
47[g]	–	First Floor, Water & Sewer Lab	South end	Gray duct insulation cement	ND	NA	NA
48[g]	–	Basement, Boiler Room	South side, middle	Grey wall concrete	ND	NA	NA
49[g]	–	Basement, Boiler Room	South side, middle	Grey wall concrete	ND	NA	NA
50[g]	–	Basement, Boiler Room	South side, middle	Grey wall concrete	ND	NA	NA
51[g]	–	Basement, Boiler Room	South side, above boiler	Grey beam concrete	ND	NA	NA
52[g]	–	Basement, Boiler Room	South side, above boiler	Grey beam concrete	ND	NA	NA
53[g]	–	Basement, Boiler Room	South side, above boiler	Grey beam concrete	ND	NA	NA

Table 4
Summary of Asbestos Analysis
Kensico Laboratory
Contract CAT-423

Sample ID	*HMG*	*Area*	*Sample Location*	*Material Description*	*Analytical Results (%)*		
					PLM	PLM-NOB	TEM
1218070201E[h]	–	**First Floor, Chem Room**	**HVAC duct insulation**	**Grey vapor barrier below batting**	**6**	**NA**	**NA**
1218070202E[h]	–	**First Floor, Chem Room**	**HVAC duct insulation**	**Grey vapor barrier below batting**	**6**	**NA**	**NA**
1218070203E[h]	–	**First Floor, Chem Room**	**HVAC duct insulation**	**Grey vapor barrier below batting**	**6**	**NA**	**NA**
1218070204E[h]	–	First Floor, Auto Clave Room	Ceiling	Grey concrete	ND	NA	NA
1218070205E[h]	–	First Floor, Auto Clave Room	Ceiling	Grey concrete	ND	NA	NA
1218070206E[h]	–	First Floor, Auto Clave Room	Ceiling	Grey concrete	ND	NA	NA
02130802-01E[i]	–	Attic	Inside HVAC unit	Fiberglass insulation liner	ND	NA	NA
02130802-02E[i]	–	Attic	Inside HVAC unit	Fiberglass insulation liner	ND	NA	NA
02130802-03E[i]	–	Attic	Inside HVAC unit	Fiberglass insulation liner	ND	NA	NA
02130802-04E[i]	–	Attic	Inside HVAC unit	Black adhesive	NA	IND	<1 (Trace)
02130802-05E[i]	–	Attic	Inside HVAC unit	Black adhesive	NA	IND	ND
02130802-06E[i]	–	Attic	Inside HVAC unit	Black adhesive	NA	IND	<1 (Trace)
02130802-07E[i]	–	**Attic**	**Inside HVAC unit**	**Gasket at top seam**	**NA**	**IND**	**1.4**
02130802-08E[i]	–	**Attic**	**Inside HVAC unit**	**Gasket at top seam**	**NA**	**IND**	**0.2 (Trace)**
02130802-09E[i]	–	**Attic**	**Inside HVAC unit**	**Gasket at top seam**	**NA**	**IND**	**0.2 (Trace)**
02130802-10E[i]	–	**Attic**	**HVAC duct**	**Residual tar covering**	**NA**	**12.5**	**NA**
02130802-11E[i]	–	**Attic**	**HVAC duct**	**Residual tar covering**	**NA**	**17.7**	**NA**
02130802-12E[i]	–	**Attic**	**HVAC duct**	**Residual tar covering**	**NA**	**14.8**	**NA**
02130802-13E[i]	–	First Floor, Auto Clave Room	Unknown	Tan ceramic panels	ND	NA	NA

Table 4
Summary of Asbestos Analysis
Kensico Laboratory
Contract CAT-423

Sample ID	*HMG*	*Area*	*Sample Location*	*Material Description*	*Analytical Results (%)*		
					PLM	**PLM-NOB**	**TEM**
02130802-14E[i]	–	First Floor, Auto Clave Room	Unknown	Tan ceramic panels	ND	NA	NA
02130802-15E[i]	–	First Floor, Auto Clave Room	Unknown	Tan ceramic panels	ND	NA	NA
02130802-16E[i]	–	First Floor, Entranceway	Floor	Terrazzo floor	ND	NA	NA
02130802-17E[i]	–	First Floor, Entranceway	Floor	Terrazzo floor	ND	NA	NA
02130802-18E[i]	–	First Floor, Entranceway	Floor	Terrazzo floor	ND	NA	NA
1E[j]	–	Basement, Boiler Room	Main distribution panel	Bridge feeder insulation	ND	IND	ND
2E[j]	–	Basement, Boiler Room	Main distribution panel	Bridge feeder insulation	ND	IND	ND
3E[j]	–	Basement, Boiler Room	Main distribution panel	Bridge feeder insulation	ND	IND	ND
4E[j]	–	Basement, Boiler Room	Main distribution panel	Wire insulation	ND	IND	ND
5E[j]	–	Basement, Boiler Room	Main distribution panel	Wire insulation	ND	IND	ND
6E[j]	–	Basement, Boiler Room	Main distribution panel	Wire insulation	ND	IND	ND
7E[j]	–	First Floor, Hallway	Panel	Wire insulation	ND	IND	ND
8E[j]	–	First Floor, Hallway	Panel	Wire insulation	ND	IND	ND
9E[j]	–	First Floor, Hallway	Panel	Wire insulation	ND	IND	ND
10E[j]	–	First Floor, Hallway	Panel	Wire insulation	ND	IND	ND
11E[j]	–	First Floor, Hallway	Panel	Main panel feed insulation	ND	IND	ND
12E[j]	–	First Floor, Hallway	Panel	Main panel feed insulation	ND	IND	ND

Table 4
Summary of Asbestos Analysis
Kensico Laboratory
Contract CAT-423

Sample ID	*HMG*	*Area*	*Sample Location*	*Material Description*	*Analytical Results (%)*		
					PLM	**PLM-NOB**	**TEM**
13E[j]	–	First Floor, Hallway	Panel	Main panel feed insulation	ND	IND	ND
14E[j]	–	Attic	Air conditioner panel	Main panel feed insulation	ND	IND	ND
15E[j]	–	Attic	Air conditioner panel	Main panel feed insulation	ND	IND	ND
16E[j]	–	Attic	Air conditioner panel	Main panel feed insulation	ND	IND	ND
17E[j]	–	Attic	Air conditioner panel	Wire insulation	ND	IND	ND
18E[j]	–	Attic	Air conditioner panel	Wire insulation	ND	IND	ND
19E[j]	–	Attic	Air conditioner panel	Wire insulation	ND	IND	ND
20E[j]	–	Main lab	Light switch	Wire insulation	ND	IND	ND
1E[k]	–	Lab Storage	Floor drain	Black tar coating	NA	IND	ND
2E[k]	–	Lab Storage	Floor drain	Black tar coating	NA	IND	ND
1E[k]	–	Lab Storage	Floor drain	Black tar coating	NA	IND	NA
2E[k]	–	**Lab Storage**	**Along wall**	**Black tar coating**	**NA**	**IND**	**1.4**
0210040201E[l]	–	Second Floor, Office	Left front chimney	White plaster	ND	NA	NA
0210040202E[l]	–	Second Floor, Office	Left front chimney	White plaster	ND	NA	NA
0210040203E[l]	–	Second Floor, Office	Left front chimney	Powdered concrete	ND	NA	NA
0210040204E[l]	–	Second Floor, Office	Right rear	White plaster	ND	NA	NA
0210040205E[l]	–	Second Floor, Office	Right rear	White plaster	ND	NA	NA
CAT423-2ND-ASB-01	1	Second Floor, Library and Conference Room	Wall	Grey vinyl covebase	NA	IND	ND

Table 4
Summary of Asbestos Analysis
Kensico Laboratory
Contract CAT-423

Sample ID	*HMG*	*Area*	*Sample Location*	*Material Description*	*Analytical Results (%)*		
					PLM	**PLM-NOB**	**TEM**
CAT423-2ND-ASB-02	2	Second Floor, Library and Conference Room	Wall	Brown covebase mastic	NA	IND	ND
CAT423-2ND-ASB-03	3	Second Floor, Library and Conference Room	Floor	Brown carpet mastic	NA	IND	ND
CAT423-2ND-ASB-04	4	Second Floor, Library and Conference Room	Door	Grey glazing	NA	IND	ND
CAT423-2ND-ASB-05	4	Second Floor, Drafting Room	Door	Grey glazing	NA	IND	ND
CAT423-2ND-ASB-06	5	Second Floor, Drafting Room	North wall	Black conduit putty	NA	IND	ND
CAT423-2ND-ASB-07	5	Second Floor, Drafting Room	North wall	Black conduit putty	NA	IND	ND
CAT423-2ND-ASB-08	6	Second Floor, Drafting Room	Floor	Green linoleum	NA	IND	ND
CAT423-2ND-ASB-09	6	Second Floor, Drafting Room	Floor	Green linoleum	NA	IND	ND
CAT423-2ND-ASB-10	7	Second Floor, Drafting Room	Floor	Brown mastic under green linoleum	NA	IND	ND
CAT423-2ND-ASB-11	7	Second Floor, Drafting Room	Floor	Brown mastic under green linoleum	NA	IND	ND
CAT423-2ND-ASB-12	8	Second Floor, Hallway	Wall	Black vinyl covebase	NA	IND	ND
CAT423-2ND-ASB-13	9	Second Floor, Hallway	Wall	Brown covebase mastic	NA	IND	ND
CAT423-2ND-ASB-14	10	Second Floor, Hallway	Floor	Beige linoleum	NA	IND	ND
CAT423-2ND-ASB-15	11	Second Floor, Hallway	Floor	Brown mastic under linoleum	NA	IND	ND
CAT423-2ND-ASB-16	8	Second Floor, Lunch Room	Wall	Black vinyl covebase	NA	IND	ND
CAT423-2ND-ASB-17	9	Second Floor, Lunch Room	Wall	Brown covebase mastic	NA	IND	ND
CAT423-2ND-ASB-18	10	Second Floor, Lunch Room	Floor	Beige linoleum	NA	IND	ND

Table 4
Summary of Asbestos Analysis
Kensico Laboratory
Contract CAT-423

Sample ID	*HMG*	*Area*	*Sample Location*	*Material Description*	*Analytical Results (%)*		
					PLM	**PLM-NOB**	**TEM**
CAT423-2ND-ASB-19	12	Second Floor, Lunch Room	Floor	Brown mastic/grey leveling compound	NA	IND	ND
CAT423-2ND-ASB-20	12	Second Floor, Lunch Room	Floor	Brown mastic/grey leveling compound	NA	IND	ND
CAT423-2ND-ASB-21	13	Second Floor, Women's Restroom	Wall	Green mortar	ND	NA	NA
CAT423-2ND-ASB-22	1	Second Floor, Watershed Office	Wall	Grey vinyl covebase	NA	IND	ND
CAT423-2ND-ASB-23	2	Second Floor, Watershed Office	Wall	Brown covebase mastic	NA	IND	ND
CAT423-2ND-ASB-24	3	Second Floor, Watershed Office	Floor	Brown carpet mastic	NA	IND	ND
CAT423-2ND-ASB-25	13	Second Floor, Men's Restroom	Wall	Green mortar	ND	NA	NA
CAT423-2ND-ASB-26	**14**	**Second Floor, Women's Restroom**	**Radiator**	**Black caulk**	**NA**	**IND**	**15**
CAT423-2ND-ASB-27	**14**	**Second Floor, Men's Restroom**	**Radiator**	**Black caulk**	**NA**	**IND**	**21**
CAT423-2ND-ASB-28	**15**	**Second Floor, Stairwell**	**Radiator**	**White (painted black) shielding**	**80**	**NA**	**NA**
CAT423-2ND-ASB-29	**15**	**Second Floor, Library (Microbiology Office)**	**Radiator**	**White (painted black) shielding**	**NA**	**NA**	**NA**
CAT423-ATT-ASB-30	16	Attic	HVAC unit	Black gasket	NA	IND	< 1 (Trace)
CAT423-ATT-ASB-31	16	Attic	Fan #2 access hatch	Black gasket	NA	IND	ND
CAT423-ATT-ASB-32	17	Attic	Chimney	Grey mortar	ND	NA	NA
CAT423-ATT-ASB-33	17	Attic	Chimney	Grey mortar	ND	NA	NA
CAT423-1ST-ASB-34	18	First Floor, General Lab	Lab benches	Black countertop	ND	NA	NA

Table 4
Summary of Asbestos Analysis
Kensico Laboratory
Contract CAT-423

Sample ID	*HMG*	*Area*	*Sample Location*	*Material Description*	*Analytical Results (%)*		
					PLM	**PLM-NOB**	**TEM**
CAT423-1ST-ASB-35	19	First Floor, General Lab	Lab benches	Black countertop bonding agent	ND	NA	NA
CAT423-1ST-ASB-36	19	First Floor, General Lab	Lab benches	Black countertop bonding agent	NA	IND	ND
CAT423-1ST-ASB-37	18	First Floor, Physical Lab	Lab benches	Black countertop	ND	NA	NA
CAT423-1ST-ASB-38	**20**	**First Floor, General Lab**	**Radiator**	**Brown canvas wire wrap**	**80**	**NA**	**NA**
CAT423-1ST-ASB-39	**20**	**First Floor, General Lab**	**Radiator**	**Brown canvas wire wrap**	**NA**	**NA**	**NA**
CAT423-1ST-ASB-40	21	First Floor, Reagent and Media Prep Room	Fume hood	White rope gasket	ND	NA	NA
CAT423-1ST-ASB-41	21	First Floor, Reagent and Media Prep Room	Fume hood	White rope gasket	ND	NA	NA
CAT423-BASE-ASB-42	22	Basement, Boiler Room	Boiler	Silver paint	NA	IND	ND
CAT423-BASE-ASB-43	22	Basement, Boiler Room	Boiler	Silver paint	NA	IND	ND
CAT423-BASE-ASB-44	23	Basement, Boiler Room	Boiler	Interior packing rope	ND	NA	NA
CAT423-BASE-ASB-45	23	Basement, Boiler Room	Boiler	Interior packing rope	ND	NA	NA
CAT423-BASE-ASB-46	24	Basement, Boiler Room	Boiler	Red fire brick	ND	NA	NA
CAT423-BASE-ASB-47	24	Basement, Boiler Room	Boiler	Red fire brick	ND	NA	NA
CAT423-BASE-ASB-48	25	Basement, Boiler Room	Wall	Grey wall penetration sealant	ND	NA	NA
CAT423-BASE-ASB-49	25	Basement, Boiler Room	Wall	Grey wall penetration sealant	ND	NA	NA
CAT423-BASE-ASB-50	26	Basement, Boiler Room	Boiler	White paper gasket	ND	NA	NA
CAT423-BASE-ASB-51	26	Basement, Boiler Room	Boiler	White paper gasket	ND	NA	NA
CAT423-BASE-ASB-52	27	Basement, Boiler Room	Duct motor	Black braided wire	ND	NA	NA
CAT423-BASE-ASB-53	27	Basement, Boiler Room	Duct motor	Black braided wire	ND	NA	NA
CAT423-BASE-ASB-54	28	Basement, Boiler Room	Door	Grey glazing	NA	IND	ND
CAT423-BASE-ASB-55	28	Basement, Storage Room	Door	Grey glazing	NA	IND	ND

Table 4
Summary of Asbestos Analysis
Kensico Laboratory
Contract CAT-423

Sample ID	*HMG*	*Area*	*Sample Location*	*Material Description*	*Analytical Results (%)*		
					PLM	**PLM-NOB**	**TEM**
CAT423-EXT-ASB-56	29	Exterior, West Wall	Window	White caulk	NA	IND	ND
CAT423-EXT-ASB-57	29	Exterior, West Wall	Window	White caulk	NA	IND	ND
CAT423-1ST-ASB-58	30	First Floor, General Lab	Floor	Beige linoleum	NA	IND	ND
CAT423-1ST-ASB-59	31	First Floor, General Lab	Floor	Brown mastic under beige linoleum	NA	IND	ND
CAT423-1ST-ASB-60	30	First Floor, Water and Sewage Lab	Floor	Beige linoleum	NA	IND	ND
CAT423-1ST-ASB-61	31	First Floor, Water and Sewage Lab	Floor	Brown mastic under beige linoleum	NA	IND	ND
CAT423-BASE-ASB-62	32	Basement, Boiler Room	Electrical panel	White braided wire	ND	NA	NA
CAT423-BASE-ASB-63	32	Basement, Boiler Room	Electrical panel	White braided wire	ND	NA	NA
CAT423-BASE-ASB-64	33	Basement, Boiler Room	Electrical panel	Red braided wire	ND	NA	NA
CAT423-BASE-ASB-65	33	Basement, Boiler Room	Electrical panel	Red braided wire	ND	NA	NA
CAT423-1ST-ASB-66	34	First Floor, Water and Sewage Lab	Fume hood	Tan shelf	ND	NA	NA
CAT423-1ST-ASB-67	34	First Floor, Water and Sewage Lab	Fume hood	Tan shelf	ND	NA	NA
CAT423-1ST-ASB-68	35	First Floor, Garage	Brick wall	Grey mortar	ND	NA	NA
CAT423-1ST-ASB-69	35	First Floor, Garage	Brick wall	Grey mortar	ND	NA	NA
CAT423-1ST-ASB-70	36	First Floor, Garage	Door	Grey glazing	NA	IND	ND
CAT423-1ST-ASB-71	36	First Floor, Garage	Door	Grey glazing	NA	IND	ND
CAT423-1ST-ASB-72	37	First Floor, Garage	Door panel	Black gasket	NA	IND	ND
CAT423-1ST-ASB-73	37	First Floor, Garage	Door panel	Black gasket	NA	IND	ND
CAT423-1ST-ASB-74	38	First Floor, Garage	Floor joint	Green caulk	NA	IND	ND
CAT423-1ST-ASB-75	38	First Floor, Garage	Floor joint	Green caulk	NA	IND	ND
CAT423-1ST-ASB-76	39	First Floor, Garage	Base of wall	Yellow caulk	NA	IND	ND

Table 4
Summary of Asbestos Analysis
Kensico Laboratory
Contract CAT-423

Sample ID	*HMG*	*Area*	*Sample Location*	*Material Description*	*Analytical Results (%)*		
					PLM	**PLM-NOB**	**TEM**
CAT423-1ST-ASB-77	39	First Floor, Garage	Base of wall	Yellow caulk	NA	IND	ND
CAT423-EXT-ASB-78	40	Exterior, North Wall	Base of stone wall	Grey mortar	ND	NA	NA
CAT423-EXT-ASB-79	40	Exterior, South Wall	Base of stone wall	Grey mortar	ND	NA	NA
CAT423-EXT-ASB-80	41	Exterior, North Wall	Upper brick wall	Tan mortar	ND	NA	NA
CAT423-EXT-ASB-81	41	Exterior, North Wall	Upper brick wall	Tan mortar	ND	NA	NA
CAT423-EXT-ASB-82	42	Exterior, North Wall	Base of wall	Black tar	NA	IND	ND
CAT423-EXT-ASB-83	42	Exterior, South Wall	Base of wall	Black tar	NA	IND	ND
CAT423-EXT-ASB-84	**43**	**Exterior, South Wall**	**Around vent**	**White caulk**	**NA**	**2.3**	**NA**
CAT423-EXT-ASB-85	**43**	**Exterior, South Wall**	**Around vent**	**White caulk**	**NA**	**NA**	**NA**
CAT423-EXT-ASB-86	44	Exterior, North Wall	Entrance curb	Black expansion joint	ND	NA	NA
CAT423-EXT-ASB-87	44	Exterior, North Wall	Entrance curb	Black expansion joint	ND	NA	NA
CAT423-BASE-ASB-88	45	Basement, Crawl Space	Base of wall	Black tar	NA	IND	ND
CAT423-BASE-ASB-89	45	Basement, Crawl Space	Base of wall	Black tar	NA	IND	ND
CAT423-BASE-ASB-90	46	Basement, Crawl Space	Floor	Top 1" of soil	ND	NA	NA
CAT423-BASE-ASB-91	46	Basement, Crawl Space	Floor	Top 1" of soil	ND	NA	NA
CAT423-BASE-ASB-92	47	Basement, Crawl Space	Pipe	Red 6" gasket	NA	IND	ND
CAT423-BASE-ASB-93	47	Basement, Crawl Space	Pipe	Red 6" gasket	NA	IND	ND
CAT423-BASE-ASB-94	**48**	**Basement, Crawl Space**	**Pipe**	**Brown 4" gasket**	**80**	**NA**	**NA**
CAT423-BASE-ASB-95	**48**	**Basement, Crawl Space**	**Pipe**	**Brown 4" gasket**	**NA**	**NA**	**NA**
CAT423-BASE-ASB-96	49	Basement, Crawl Space	Drain pipe	Grey joint packing	NA	IND	ND
CAT423-BASE-ASB-97	49	Basement, Crawl Space	Drain pipe	Grey joint packing	NA	IND	ND

Table 4
Summary of Asbestos Analysis
Kensico Laboratory
Contract CAT-423

Notes:

(1) Samples collected by Bidwell Environmental in December, 2017 and January, 2018.

(2) Materials containing more than 1% asbestos are considered asbestos containing materials.
Items in bold are asbestos containing materials.While the removal of materials containing trace levels of asbestos is not regulated, it is recommended that the work be performed in accordance with minimum safe work practices.

[a] - Samples collected in January, 2004.

[b] - Samples collected in September, 2004.

[c] - Samples collected by URS in October, 2004 for the Facility-Specific Assessment Report.

[d] - Samples collected in February, 2006.

[e] - Samples collected in August, 2006.

[f] - Samples collected in September, 2006.

[g] - Samples collected in November, 2006.

[h] - Samples collected in December, 2007.

[i] - Samples collected in February, 2008.

[j] - Samples collected in October, 2008.

[k] - Samples collected in August, 2013.

[l] - Samples collected in February, 2004.

HMG - Homogenous Materials Group

ND - Not Detected

NA - Not Analyzed

IND - Inconclusive None Detected

Table 5
Summary of Confirmed Hazardous Materials for the Attic
Kensico Laboratory
Contract CAT-423

Lead and PCBs

Material Description	*Location*	*Hazard*	*Sample ID*
Silver paint	Frame work	Lead-based, PCB-containing	CAT423-ATT-PC-07
Yellow over silver paint	Framework	Lead-containing	CAT423-ATT-PC-08
Black paint	Duct work	Lead containing, PCB-containing	264428.02
Lead packing	Drain piping	Lead joints (23 locations)	–––

Asbestos

Material Description	*Location*	*Sample ID*	*Quantity*	*Condition*	*Friability*
Black gasket	Inside HVAC unit	02130802-07E	88 linear ft	Damaged	Non-friable
Black residual mastic	HVAC duct	02130802-10E,11E,12E	Approx. 275 spots (2x2 in) on 750 ft^2 of duct work	Damaged	Non-friable

Notes:
(1) Materials containing < 5,000 mg/kg or ≥ 5,000 mg/kg lead are considered lead-containing or lead-based, respectively.
(2) Materials containing < 50 mg/kg or ≥ 50 mg/kg PCBs are considered PCB-containing or TSCA-regulated, respectively.
(3) Materials containing more than 1% asbestos are considered asbestos containing materials.
(4) Quantities are provided for asbestos containing materials, TSCA-regulated PCBs and universal and other regulated materials.

Table 6

Summary of Confirmed Hazardous Materials for the Second Floor, Library and Conference Room (Microbiology Office) Kensico Laboratory Contract CAT-423

Lead and PCBs

Material Description	*Location*	*Hazard*	*Sample ID*
Blue over beige paint	Walls	Lead-based, PCB-containing	CAT423-2ND-PC-01
Grey vinyl covebase	Walls	Lead-containing	CAT423-2ND-PB-01
Beige paint	Walls	Lead-containing	264428.04
Beige paint	Ceiling	Lead-containing, PCB-containing	191-19-LCP-01
Door closer oil	Door	PCB-containing	CAT423-1ST-PCB-11

Asbestos

Material Description	*Location*	*Sample ID*	*Quantity*	*Condition*	*Friability*
Black shielding	Radiators	CAT423-2ND-ASB-28,29	46 ft^2 (2 radiators)	Good	Non-friable
Grey caulk around frame	Windows	1, 2, 3	55 linear ft (2 windows)	Good	Non-friable
Caulk behind door frame*	Door	–––	20 linear ft	Unknown	Unknown

Universal and other Miscellaneous Wastes

Material Description	*Location*	*Quantity*	*Waste Classification*
Fluorescent bulbs	Ceiling	8, 4 ft bulbs	Universal waste
Ballasts	Ceiling	4 ballasts	Non-hazardous regulated waste (no PCBs)

Notes:

(1) Materials containing < 5,000 mg/kg or ≥ 5,000 mg/kg lead are considered lead-containing or lead-based, respectively.

(2) Materials containing < 50 mg/kg or ≥ 50 mg/kg PCBs are considered PCB-containing or TSCA-regulated, respectively.

(3) Materials containing more than 1% asbestos are considered asbestos containing materials.

(4) Quantities are provided for asbestos containing materials, TSCA-regulated PCBs and universal and other regulated materials.

* - Caulk is presumed to be present and asbestos containing. Caulk is presumed to be present under the entire steel frame (approx. 8" wide).

Table 7

Summary of Confirmed Hazardous Materials for the Second Floor, Drafting Room (Administration Office) Kensico Laboratory Contract CAT-423

Lead and PCBs

Material Description	*Location*	*Hazard*	*Sample ID*
White paint	Ceiling	Lead-containing, PCB-containing	264428.05
Blue over beige paint	Walls	Lead-based, PCB-containing	CAT423-2ND-PC-01
Door closer oil	Door	PCB-containing	CAT423-1ST-PCB-11

Asbestos

Material Description	*Location*	*Sample ID*	*Quantity*	*Condition*	*Friability*
Black shielding	Radiators	CAT423-2ND-ASB-28,29	70 ft^2 (3 radiators)	Good	Non-friable
Grey caulk around frame	Windows	1, 2, 3	82 linear ft (3 windows)	Good	Non-friable
Caulk behind door frame*	Door	–––	20 linear ft	Unknown	Unknown

Universal and other Miscellaneous Wastes

Material Description	*Location*	*Quantity*	*Waste Classification*
Fluorescent bulbs	Ceiling	14, 8 ft bulbs	Universal waste
Ballasts	Ceiling	7 ballasts	Non-hazardous regulated waste (no PCBs)

Notes:

(1) Materials containing < 5,000 mg/kg or ≥ 5,000 mg/kg lead are considered lead-containing or lead-based, respectively.

(2) Materials containing < 50 mg/kg or ≥ 50 mg/kg PCBs are considered PCB-containing or TSCA-regulated, respectively.

(3) Materials containing more than 1% asbestos are considered asbestos containing materials.

(4) Quantities are provided for asbestos containing materials, TSCA-regulated PCBs and universal and other regulated materials.

* - Caulk is presumed to be present and asbestos containing. Caulk is presumed to be present under the entire steel frame (approx. 8" wide).

Table 8

Summary of Confirmed Hazardous Materials for the Second Floor, Hallway
Kensico Laboratory
Contract CAT-423

Lead and PCBs

Material Description	*Location*	*Hazard*	*Sample ID*
Green paint	Walls	Lead-containing, PCB-containing	CAT423-2ND-PC-02
Beige paint	Ceiling	Lead-containing, PCB-containing	191-19-LCP-01
Door closer oil	Door	PCB-containing	CAT423-1ST-PCB-11

Asbestos

Material Description	*Location*	*Sample ID*	*Quantity*	*Condition*	*Friability*
Caulk behind door frame*	Door	–––	20 linear ft	Unknown	Unknown

Universal and other Miscellaneous Wastes

Material Description	*Location*	*Quantity*	*Waste Classification*
Exit/Emergency light	Above door	2 bulbs	Universal waste
		1 circuit board	Electronic waste
		1 lead battery	Universal waste

Notes:

(1) Materials containing < 5,000 mg/kg or ≥ 5,000 mg/kg lead are considered lead-containing or lead-based, respectively.

(2) Materials containing < 50 mg/kg or ≥ 50 mg/kg PCBs are considered PCB-containing or TSCA-regulated, respectively.

(3) Materials containing more than 1% asbestos are considered asbestos containing materials.

(4) Quantities are provided for asbestos containing materials, TSCA-regulated PCBs and universal and other regulated materials.

* - Caulk is presumed to be present and asbestos containing. Caulk is presumed to be present under the entire steel frame (approx. 8" wide).

Table 9

Summary of Confirmed Hazardous Materials for the Second Floor, Lunch Room
Kensico Laboratory
Contract CAT-423

Lead and PCBs

Material Description	*Location*	*Hazard*	*Sample ID*
White paint	Ceiling	Lead-containing, PCB-containing	264428.03
Beige paint	Walls	Lead-containing	264428.04
Green paint	Walls	Lead-containing, PCB-containing	CAT423-2ND-PC-02
Door closer oil	Door	PCB-containing	CAT423-1ST-PCB-11

Asbestos

Material Description	*Location*	*Sample ID*	*Quantity*	*Condition*	*Friability*
Black shielding	Radiator	CAT423-2ND-ASB-28,29	23 ft^2 (1 radiator)	Good	Non-friable
Grey caulk around frame	Window	1, 2, 3	28 linear ft (1 window)	Good	Non-friable
Caulk behind door frame*	Door	–––	20 linear ft	Unknown	Unknown

Universal and other Miscellaneous Wastes

Material Description	*Location*	*Quantity*	*Waste Classification*
Fluorescent lights	Ceiling	4, 4ft bulbs	Universal waste
Ballasts	Ceiling	2	Non-hazardous regulated waste (no PCBs)
Fire extinguisher	Wall	1	Regulated waste

Notes:

(1) Materials containing < 5,000 mg/kg or ≥ 5,000 mg/kg lead are considered lead-containing or lead-based, respectively.

(2) Materials containing < 50 mg/kg or ≥ 50 mg/kg PCBs are considered PCB-containing or TSCA-regulated, respectively.

(3) Materials containing more than 1% asbestos are considered asbestos containing materials.

(4) Quantities are provided for asbestos containing materials, TSCA-regulated PCBs and universal and other regulated materials.

* - Caulk is presumed to be present and asbestos containing. Caulk is presumed to be present under the entire steel frame (approx. 8" wide).

Table 10
Summary of Confirmed Hazardous Materials for the Second Floor, Women's Restroom
Kensico Laboratory
Contract CAT-423

Lead and PCBs

Material Description	*Location*	*Hazard*	*Sample ID*
Green glazed tile	Wall	Lead-containing	CAT423-1ST-PB-03
White paint	Ceiling	Lead-containing, PCB-containing	264428.03
Door closer oil	Door	PCB-containing	CAT423-1ST-PCB-11

Asbestos

Material Description	*Location*	*Sample ID*	*Quantity*	*Condition*	*Friability*
Black shielding	Radiator	CAT423-2ND-ASB-28,29	23 ft^2 (1 location)	Good	Non-friable
Black caulk	Radiator	CAT423-2ND-ASB-26,27	3.5 linear ft (1 location)	Good	Non-friable
Grey caulk	Window	1, 2, 3	28 linear ft (1 location)	Good	Non-friable
Caulk behind door frame*	Door	–––	20 linear ft	Unknown	Unknown

Universal and other Miscellaneous Wastes

Material Description	*Location*	*Quantity*	*Waste Classification*
Fluorescent bulbs	Ceiling	2, 4ft bulbs	Universal waste
Ballast	Ceiling	1	Non-hazardous regulated waste (no PCBs)

Notes:
(1) Materials containing < 5,000 mg/kg or ≥ 5,000 mg/kg lead are considered lead-containing or lead-based, respectively.
(2) Materials containing < 50 mg/kg or ≥ 50 mg/kg PCBs are considered PCB-containing or TSCA-regulated, respectively.
(3) Materials containing more than 1% asbestos are considered asbestos containing materials.
(4) Quantities are provided for asbestos containing materials, TSCA-regulated PCBs and universal and other regulated materials.
* - Caulk is presumed to be present and asbestos containing. Caulk is presumed to be present under the entire steel frame (approx. 8" wide).

Table 11
Summary of Confirmed Hazardous Materials for the Second Floor, Watershed Division Engineer's Office (Directors Office) Kensico Laboratory Contract CAT-423

Lead and PCBs

Material Description	*Location*	*Hazard*	*Sample ID*
Beige over blue paint	Walls	Lead-containing, PCB-containing	CAT423-2ND-PC-04
Yellow paint	Closet walls	Lead-containing, PCB-containing	CAT423-2ND-PC-05
Blue paint	Walls above suspended ceiling	Lead-containing, PCB-containing	CAT423-2ND-PC-01
Door closer oil	Door	PCB-containing	CAT423-1ST-PCB-11
Grey vinyl covebase	Walls	Lead-containing	CAT423-2ND-PB-01

Asbestos

Material Description	*Location*	*Sample ID*	*Quantity*	*Condition*	*Friability*
Black shielding	Radiators	CAT423-2ND-ASB-28,29	46 ft^2 (2 locations)	Good	Non-friable
Grey caulk	Windows	1, 2, 3	55 linear ft (2 locations)	Good	Non-friable
Caulk behind door frame*	Door	–––	40 linear ft (2 locations)	Unknown	Unknown

Universal and other Miscellaneous Wastes

Material Description	*Location*	*Quantity*	*Waste Classification*
Fluorescent bulbs	Ceiling	8, 4 ft bulbs	Universal waste
Ballast	Ceiling	4	Non-hazardous regulated waste (no PCBs)

Notes:
(1) Materials containing < 5,000 mg/kg or ≥ 5,000 mg/kg lead are considered lead-containing or lead-based, respectively.
(2) Materials containing < 50 mg/kg or ≥ 50 mg/kg PCBs are considered PCB-containing or TSCA-regulated, respectively.
(3) Materials containing more than 1% asbestos are considered asbestos containing materials.
(4) Quantities are provided for asbestos containing materials, TSCA-regulated PCBs and universal and other regulated materials.
* - Caulk is presumed to be present and asbestos containing. Caulk is presumed to be present under the entire steel frame (approx. 8" wide).

Table 12
Summary of Confirmed Hazardous Materials for the Second Floor, Watershed Office (Conference Room) Kensico Laboratory Contract CAT-423

Lead and PCBs

Material Description	*Location*	*Hazard*	*Sample ID*
Beige paint	Ceiling	Lead-containing, PCB-containing	191-19-LCP-01
Blue over beige paint	Walls	Lead-based, PCB-containing	CAT423-2ND-PC-01
Grey vinyl covebase	Walls	Lead-containing	CAT423-2ND-PB-01
Door closer oil	Door	PCB-containing	CAT423-1ST-PCB-11

Asbestos

Material Description	*Location*	*Sample ID*	*Quantity*	*Condition*	*Friability*
Black shielding	Radiators	CAT423-2ND-ASB-28,29	70 ft^2 (3 locations)	Good	Non-friable
Grey caulk	Windows	1, 2, 3	83 linear ft (3 locations)	Good	Non-friable
Caulk behind door frame*	Door	–––	20 linear ft	Unknown	Unknown

Universal and other Miscellaneous Wastes

Material Description	*Location*	*Quantity*	*Waste Classification*
Fluorescent bulbs	Ceiling	16, 4 ft bulbs	Universal waste
Ballast	Ceiling	8	Non-hazardous regulated waste (no PCBs)

Notes:

(1) Materials containing < 5,000 mg/kg or ≥ 5,000 mg/kg lead are considered lead-containing or lead-based, respectively.

(2) Materials containing < 50 mg/kg or ≥ 50 mg/kg PCBs are considered PCB-containing or TSCA-regulated, respectively.

(3) Materials containing more than 1% asbestos are considered asbestos containing materials.

(4) Quantities are provided for asbestos containing materials, TSCA-regulated PCBs and universal and other regulated materials.

* - Caulk is presumed to be present and asbestos containing. Caulk is presumed to be present under the entire steel frame (approx. 8" wide).

Table 13
Summary of Confirmed Hazardous Materials for the Second Floor, Men's Restroom
Kensico Laboratory
Contract CAT-423

Lead and PCBs

Material Description	*Location*	*Hazard*	*Sample ID*
White paint	Sink drain pipe	Lead-containing, PCB-containing	CAT423-2ND-PC-03
White paint	Ceiling	Lead-containing, PCB-containing	264428.03
Green glazed tile	Wall	Lead-containing	CAT423-1ST-PB-03
Door closer oil	Door	PCB-containing	CAT423-1ST-PCB-11

Asbestos

Material Description	*Location*	*Sample ID*	*Quantity*	*Condition*	*Friability*
Black shielding	Radiator	CAT423-2ND-ASB-28,29	23 ft^2 (1 location)	Good	Non-friable
Black caulk	Radiator	CAT423-2ND-ASB-26,27	3.5 linear ft (1 location)	Good	Non-friable
Grey caulk	Windows	1, 2, 3	28 linear ft (1 location)	Good	Non-friable
Caulk behind door frame*	Door	–––	20 linear ft	Unknown	Unknown

Universal and other Miscellaneous Wastes

Material Description	*Location*	*Quantity*	*Waste Classification*
Fluorescent bulbs	Ceiling	2, 4 ft bulbs	Universal waste
Ballast	Ceiling	1	Non-hazardous regulated waste (no PCBs)

Notes:
(1) Materials containing < 5,000 mg/kg or ≥ 5,000 mg/kg lead are considered lead-containing or lead-based, respectively.
(2) Materials containing < 50 mg/kg or ≥ 50 mg/kg PCBs are considered PCB-containing or TSCA-regulated, respectively.
(3) Materials containing more than 1% asbestos are considered asbestos containing materials.
(4) Quantities are provided for asbestos containing materials, TSCA-regulated PCBs and universal and other regulated materials.
* - Caulk is presumed to be present and asbestos containing. Caulk is presumed to be present under the entire steel frame (approx. 8" wide).

Table 14
Summary of Confirmed Hazardous Materials for the Second Floor, Stairwell
Kensico Laboratory
Contract CAT-423

Lead and PCBs

Material Description	*Location*	*Hazard*	*Sample ID*
Black paint	Hand rail	Lead-based	CAT423-2ND-PC-06
White paint	Ceiling	Lead-containing, PCB-containing	264428.03
Green glazed tile	Wall	Lead-containing	CAT423-1ST-PB-03

Asbestos

Material Description	*Location*	*Sample ID*	*Quantity*	*Condition*	*Friability*
Black shielding	Radiator	CAT423-2ND-ASB-28,29	23 ft^2 (1 location)	Good	Non-friable
Grey caulk	Window	1, 2, 3	28 linear ft (1 location)	Good	Non-friable

Universal and other Miscellaneous Wastes

Material Description	*Location*	*Quantity*	*Waste Classification*
Emergency light	Wall	2 bulbs	Universal waste
		1 circuit board	Electronic waste
		1 lead battery	Universal waste

Notes:
(1) Materials containing < 5,000 mg/kg or ≥ 5,000 mg/kg lead are considered lead-containing or lead-based, respectively.
(2) Materials containing < 50 mg/kg or ≥ 50 mg/kg PCBs are considered PCB-containing or TSCA-regulated, respectively.
(3) Materials containing more than 1% asbestos are considered asbestos containing materials.
(4) Quantities are provided for asbestos containing materials, TSCA-regulated PCBs and universal and other regulated materials.

Table 15
Summary of Confirmed Hazardous Materials for the First Floor, Entrance
Kensico Laboratory
Contract CAT-423

Lead and PCBs

Material Description	*Location*	*Hazard*	*Sample ID*
Black paint	Hand rail	Lead-based	CAT423-2ND-PC-06
White paint	Ceiling	Lead-containing, PCB-containing	264428.07
Green glazed tile	Wall	Lead-containing	CAT423-1ST-PB-03

Asbestos

Material Description	*Location*	*Sample ID*	*Quantity*	*Condition*	*Friability*
Grey caulk	Window	1, 2, 3	28 linear ft	Good	Non-friable
Black shielding	Radiator	CAT423-2ND-ASB-28,29	25 ft^2	Good	Non-friable
Brown wire wrap (presumed present)	Radiator	CAT423-1ST-ASB-38,39	5 linear ft	Good	Non-friable

Universal and other Miscellaneous Wastes

Material Description	*Location*	*Quantity*	*Waste Classification*
Exit sign/Emergency light	Wall	2 bulbs	Universal waste
		1 circuit board	Electronic waste
		1 lead battery	Universal waste
Fire extinguisher	Wall	1	Regulated waste

Notes:
(1) Materials containing < 5,000 mg/kg or ≥ 5,000 mg/kg lead are considered lead-containing or lead-based, respectively.
(2) Materials containing < 50 mg/kg or ≥ 50 mg/kg PCBs are considered PCB-containing or TSCA-regulated, respectively.
(3) Materials containing more than 1% asbestos are considered asbestos containing materials.
(4) Quantities are provided for asbestos containing materials, TSCA-regulated PCBs and universal and other regulated materials.

Table 16
Summary of Confirmed Hazardous Materials for the First Floor, Reagent and Media Prep Room (Autoclave and Bottle Washing)
Kensico Laboratory
Contract CAT-423

Lead and PCBs

Material Description	*Location*	*Hazard*	*Sample ID*
White paint	Ceiling	Lead-containing, PCB-containing	264428.07
Green glazed tile	Wall	Lead-containing	CAT423-1ST-PB-03
Grey caulk	Windows	PCB-containing	CAT423-1ST-PCB-01
Lead packing	Drain pipes	Lead joints (4 locations)	–––

Asbestos

Material Description	*Location*	*Sample ID*	*Quantity*	*Condition*	*Friability*
Black shielding	Radiators	CAT423-2ND-ASB-28,29	46 ft^2 (2 locations)	Good	Non-friable
Brown wire wrap (presumed present)	Radiators	CAT423-1ST-ASB-38,39	9 linear ft (2 locations)	Good	Non-friable
Grey caulk	Windows	1, 2, 3	55 linear ft (2 locations)	Good	Non-friable
Black insulation spot coating	Duct work	30A, 31A, 44A	720 ft^2	Unknown	Unknown
Green 9x9" tile	Floor	NA*	500 ft^2	Good	Non-friable
Caulk behind door frame**	Door	–––	20 linear ft	Unknown	Unknown
White insulation	Piping	0913040201E, 2E, 3E	28 linear ft	Good	Non-friable
White insulation	Piping	0913040201E, 2E, 3E	2 elbows	Good	Non-friable

Universal and other Miscellaneous Wastes

Material Description	*Location*	*Quantity*	*Waste Classification*
Fluorescent bulbs	Ceiling	4, 4 ft bulbs	Universal waste
		8, 8 ft bulbs	Universal waste
Ballasts	Ceiling	6	Non-hazardous regulated waste (no PCBs)
Fire extinguisher	Wall	1	Regulated waste
Exit/Emergency light	Wall	2 bulbs	Universal waste
		1 circuit board	Electronic waste
		1 lead battery	Universal waste

Table 16
Summary of Confirmed Hazardous Materials for the First Floor, Reagent and Media Prep Room (Autoclave and Bottle Washing)
Kensico Laboratory
Contract CAT-423

Notes:
(1) Materials containing < 5,000 mg/kg or ≥ 5,000 mg/kg lead are considered lead-containing or lead-based, respectively.
(2) Materials containing < 50 mg/kg or ≥ 50 mg/kg PCBs are considered PCB-containing or TSCA-regulated, respectively.
(3) Materials containing more than 1% asbestos are considered asbestos containing materials.
(4) Quantities are provided for asbestos containing materials, TSCA-regulated PCBs and universal and other regulated materials.
* - Green floor tile confirmed ACM by NYCDEP Legacy Database.
** - Caulk is presumed to be present and asbestos containing. Caulk is presumed to be present under the entire steel frame (approx. 8" wide).
NA - Not applicable

Table 17
Summary of Confirmed Hazardous Materials for the First Floor, Sample Reception Room (Sample Log-in and Bottle Storage)
Kensico Laboratory
Contract CAT-423

Lead and PCBs

Material Description	*Location*	*Hazard*	*Sample ID*
Grey/blue paint	Floor	Lead-containing	CAT423-1ST-PC-09
White paint	Ceiling	Lead-containing, PCB-containing	264428.07
Green glazed tile	Walls	Lead-containing	CAT423-1ST-PB-03
Grey caulk	Windows	PCB-containing	CAT423-1ST-PCB-01
Door closer oil	Door	PCB-containing	CAT423-1ST-PCB-11

Asbestos

Material Description	*Location*	*Sample ID*	*Quantity*	*Condition*	*Friability*
Black shielding	Radiators	CAT423-2ND-ASB-28,29	46 ft^2 (2 locations)	Good	Non-friable
Brown wire wrap (presumed present)	Radiators	CAT423-1ST-ASB-38,39	9 linear ft (2 locations)	Good	Non-friable
Grey caulk	Windows	1, 2, 3	28 linear ft (1 location)	Good	Non-friable
Green 9x9" tile	Floor	NA*	235 ft^2	Good	Non-friable
Black insulation spot coating	Duct work	30A, 31A , 44A	180 ft^2	Unknown	Unknown
Caulk behind door frame**	Door	–––	20 linear ft	Unknown	Unknown
White insulation	Piping	0913040201E, 2E,3E	45 linear ft	Good	Non-friable
White insulation	Piping	0913040201E, 2E,3E	12 elbows	Good	Non-friable

Universal and other Miscellaneous Wastes

Material Description	*Location*	*Quantity*	*Waste Classification*
Fluorescent bulbs	Ceiling	6 bulbs	Universal waste
Ballasts	Ceiling	3	Non-hazardous regulated waste (no PCBs)
Exit/Emergency Light	Wall	2 bulbs	Universal waste
		1 circuit board	Electronic waste
		1 lead battery	Universal waste

Table 17
Summary of Confirmed Hazardous Materials for the First Floor, Sample Reception Room (Sample Log-in and Bottle Storage) Kensico Laboratory Contract CAT-423

Notes:
(1) Materials containing < 5,000 mg/kg or ≥ 5,000 mg/kg lead are considered lead-containing or lead-based, respectively.
(2) Materials containing < 50 mg/kg or ≥ 50 mg/kg PCBs are considered PCB-containing or TSCA-regulated, respectively.
(3) Materials containing more than 1% asbestos are considered asbestos containing materials.
(4) Quantities are provided for asbestos containing materials, TSCA-regulated PCBs and universal and other regulated materials.
* - Green floor tile confirmed ACM by NYCDEP Legacy Database.
** - Caulk is presumed to be present and asbestos containing. Caulk is presumed to be present under the entire steel frame (approx. 8" wide).
NA - Not Applicable

Table 18
Summary of Confirmed Hazardous Materials for the First Floor, Water and Sewage Laboratory (Wet Chemistry Lab) Kensico Laboratory Contract CAT-423

Lead and PCBs

Material Description	*Location*	*Hazard*	*Sample ID*
White paint	Ceiling	Lead-containing, PCB-containing	264428.07
Grey caulk	Windows	PCB-containing	CAT423-1ST-PCB-01
Green glazed tile	Wall	Lead-containing	CAT423-1ST-PB-03
Door closer oil	Door	PCB-containing	CAT423-1ST-PCB-11
Black paint	Duct work	Lead-containing, PCB-containing	264428.02

Asbestos

Material Description	*Location*	*Sample ID*	*Quantity*	*Condition*	*Friability*
Black shielding	Radiators	CAT423-2ND-ASB-28,29	70 ft^2 (3 locations)	Good	Non-friable
Brown wire wrap	Radiators	CAT423-1ST-ASB-38,39	12 linear ft (3 locations)	Good	Non-friable
Grey caulk	Windows	1, 2, 3	82 linear ft (3 locations)	Good	Non-friable
Black insulation spot coating	Duct work	30A, 31A , 44A	660 ft^2	Unknown	Unknown
Green 9x9" tile	Floor	NA*	800 ft^2	Good	Non-friable
Caulk behind door frame**	Door	–––	40 linear ft (2 locations)	Unknown	Unknown
White insulation	Piping	0913040201E, 2E, 3E	100 linear ft	Good	Non-friable
White insulation	Piping	0913040201E, 2E, 3E	20 elbows	Good	Non-friable

Universal and other Miscellaneous Wastes

Material Description	*Location*	*Quantity*	*Waste Classification*
Fluorescent bulbs	Ceiling	12, 8 ft bulbs	Universal waste
		4, 4 ft bulbs	Universal waste
Ballasts	Ceiling	8	Non-hazardous regulated waste (no PCBs)
Exit/Emergency light	Wall	2 bulbs	Universal waste
		1 circuit board	Electronic waste
		1 lead battery	Universal waste
Fire extinguishers	Wall	2	Regulated waste
Refrigerator***	Wall	1	Regulated waste

Table 18
Summary of Confirmed Hazardous Materials for the First Floor, Water and Sewage Laboratory (Wet Chemistry Lab) Kensico Laboratory Contract CAT-423

Notes:
(1) Materials containing < 5,000 mg/kg or ≥ 5,000 mg/kg lead are considered lead-containing or lead-based, respectively.
(2) Materials containing < 50 mg/kg or ≥ 50 mg/kg PCBs are considered PCB-containing or TSCA-regulated, respectively.
(3) Materials containing more than 1% asbestos are considered asbestos containing materials.
(4) Quantities are provided for asbestos containing materials, TSCA-regulated PCBs and universal and other regulated materials.
* - Green floor tile confirmed ACM by NYCDEP Legacy Database.
** - Caulk is presumed to be present and asbestos containing. Caulk is presumed to be present under the entire steel frame (approx. 8" wide).
*** - Refrigerator uses Freon 134a (1,1,1,2-Tetrafluoroethane) as a refrigerant.
NA - Not applicable

Table 19
Summary of Confirmed Hazardous Materials for the First Floor, Physical Laboratory (Microbiology Lab) Kensico Laboratory Contract CAT-423

Lead and PCBs

Material Description	*Location*	*Hazard*	*Sample ID*
White paint	Ceiling	Lead-containing, PCB-containing	264428.07
Grey caulk	Windows	PCB-containing	CAT423-1ST-PCB-01
Green glazed tile	Walls	Lead-containing	CAT423-1ST-PB-03
Door closer oil	Door	PCB-containing	CAT423-1ST-PCB-11

Asbestos

Material Description	*Location*	*Sample ID*	*Quantity*	*Condition*	*Friability*
Black shielding	Radiators	CAT423-2ND-ASB-28,29	70 ft^2 (3 locations)	Good	Non-friable
Brown wire wrap	Radiators	CAT423-1ST-ASB-38,39	15 linear ft (3 locations)	Good	Non-friable
Black insulation spot coating	Duct work	30A, 31A , 44A	420 ft^2	Unknown	Unknown
Caulk behind door frame*	Door	–––	20 linear ft	Unknown	Unknown

Universal and other Miscellaneous Wastes

Material Description	*Location*	*Quantity*	*Waste Classification*
Fluorescent bulbs	Ceiling	14, 8 ft bulbs	Universal waste
Ballasts	Ceiling	7	Non-hazardous regulated waste (no PCBs)
Exit/Emergency light	Wall	2 bulbs	Universal waste
		1 circuit board	Electronic waste
		1 lead battery	Universal waste
Fire extinguisher	Wall	1	Regulated waste
Refrigerator**	Wall	1	Regulated waste

Table 19
Summary of Confirmed Hazardous Materials for the First Floor, Physical Laboratory (Microbiology Lab) Kensico Laboratory Contract CAT-423

Notes:
(1) Materials containing < 5,000 mg/kg or ≥ 5,000 mg/kg lead are considered lead-containing or lead-based, respectively.
(2) Materials containing < 50 mg/kg or ≥ 50 mg/kg PCBs are considered PCB-containing or TSCA-regulated, respectively.
(3) Materials containing more than 1% asbestos are considered asbestos containing materials.
(4) Quantities are provided for asbestos containing materials, TSCA-regulated PCBs and universal and other regulated materials.
* - Caulk is presumed to be present and asbestos containing. Caulk is presumed to be present under the entire steel frame (approx. 8" wide).
** - Refrigerator uses Freon 134a (1,1,1,2-Tetrafluoroethane) as a refrigerant.

Table 20
Summary of Confirmed Hazardous Materials for the First Floor, Dark Room (Storage) Kensico Laboratory Contract CAT-423

Lead and PCBs

Material Description	*Location*	*Hazard*	*Sample ID*
White paint	Ceiling	Lead-containing, PCB-containing	264428.07
Green glazed tile	Wall	Lead-containing	CAT423-1ST-PB-03

Asbestos

Material Description	*Location*	*Sample ID*	*Quantity*	*Condition*	*Friability*
Black insulation spot coating	Duct work	30A, 31A , 44A	300 ft^2	Unknown	Unknown
Green 9x9" tile	Floor	NA*	86 ft^2	Good	Non-friable
Caulk behind door frame**	Door	–––	20 linear ft	Unknown	Unknown

Universal and other Miscellaneous Wastes

Material Description	*Location*	*Quantity*	*Waste Classification*
Fluorescent lights	Ceiling	2, 4 ft bulbs	Universal waste
Ballasts	Ceiling	1	Non-hazardous regulated waste (no PCBs)

Notes:
(1) Materials containing < 5,000 mg/kg or ≥ 5,000 mg/kg lead are considered lead-containing or lead-based, respectively.
(2) Materials containing < 50 mg/kg or ≥ 50 mg/kg PCBs are considered PCB-containing or TSCA-regulated, respectively.
(3) Materials containing more than 1% asbestos are considered asbestos containing materials.
(4) Quantities are provided for asbestos containing materials, TSCA-regulated PCBs and universal and other regulated materials.
* - Green floor tile confirmed to be ACM by NYCDEP Legacy Database.
** - Caulk is presumed to be present and asbestos containing. Caulk is presumed to be present under the entire steel frame (approx. 8" wide).
NA - Not applicable

Table 21
Summary of Confirmed Hazardous Materials for the First Floor, General Laboratory (Instrumentation) Kensico Laboratory Contract CAT-423

Lead and PCBs

Material Description	*Location*	*Hazard*	*Sample ID*
Grey caulk	Windows	PCB-containing	CAT423-1ST-PCB-01
Green glazed tile	Walls	Lead-containing	CAT423-1ST-PB-03
White paint	Ceiling	Lead-containing, PCB-containing	264428.07
Door closer oil	Door	PCB-containing	CAT423-1ST-PCB-11
Lead packing	Drain piping	Lead joints (7 locations)	–––

Asbestos

Material Description	*Location*	*Sample ID*	*Quantity*	*Condition*	*Friability*
Black shielding	Radiators	CAT423-2ND-ASB-28,29	70 ft^2 (3 locations)	Good	Non-friable
Brown wire wrap	Radiators	CAT423-1ST-ASB-38,39	15 linear ft (3 locations)	Good	Non-friable
Black insulation spot coating	Duct work	30A, 31A , 44A	540 ft^2	Unknown	Unknown
Green 9x9" tile	Floor	NA*	465 ft^2	Good	Non-friable
Caulk behind door frame**	Door	–––	20 linear ft	Unknown	Unknown

Universal and other Miscellaneous Wastes

Material Description	*Location*	*Quantity*	*Waste Classification*
Fluorescent bulbs	Ceiling	12, 8 ft bulbs	Universal waste
Ballasts	Ceiling	6	Non-hazardous regulated waste (no PCBs)
Exit/Emergency light	Wall	2 bulbs	Universal waste
		1 circuit board	Electronic waste
		1 lead battery	Universal waste

Table 21
Summary of Confirmed Hazardous Materials for the First Floor, General Laboratory (Instrumentation) Kensico Laboratory Contract CAT-423

Notes:

(1) Materials containing < 5,000 mg/kg or ≥ 5,000 mg/kg lead are considered lead-containing or lead-based, respectively.

(2) Materials containing < 50 mg/kg or ≥ 50 mg/kg PCBs are considered PCB-containing or TSCA-regulated, respectively.

(3) Materials containing more than 1% asbestos are considered asbestos containing materials.

(4) Quantities are provided for asbestos containing materials, TSCA-regulated PCBs and universal and other regulated materials.

NA -Not applicable

* - Green floor tile confirmed ACM by NYCDEP Legacy Database.

** - Caulk is presumed to be present and asbestos containing. Caulk is presumed to be present under the entire steel frame (approx. 8" wide).

Table 22
Summary of Confirmed Hazardous Materials for First Floor, Offices
Kensico Laboratory
Contract CAT-423

Lead and PCBs

Material Description	*Location*	*Hazard*	*Sample ID*
White paint	Ceiling	Lead-containing, PCB-containing	264428.07
Beige over green paint	Dividing wall	Lead-containing, PCB-containing	CAT423-1ST-PC-10
Green glazed tile	Wall	Lead-containing	CAT423-1ST-PB-03
Door closer oil	Door	PCB-containing	CAT423-1ST-PCB-11
Grey caulk	Windows	PCB-containing	CAT423-1ST-PCB-01

Asbestos

Material Description	*Location*	*Sample ID*	*Quantity*	*Condition*	*Friability*
Black shielding	Radiators	CAT423-2ND-ASB-28,29	46 ft^2 (2 locations)	Good	Non-friable
Brown wire wrap	Radiators	CAT423-1ST-ASB-38,39	9 linear ft (2 locations)	Good	Non-friable
Grey caulk	Windows	1, 2, 3	55 linear ft (2 locations)	Good	Non-friable
Black insulation spot coating	Duct	30A, 31A , 44A	120 ft^2	Unknown	Unknown
Green 9x9" tile	Floor	NA*	300 ft^2	Good	Non-friable
Caulk behind door frame**	Door	–––	40 linear ft (2 locations)	Unknown	Unknown
White insulation	Piping	0913040201E, 2E, 3E	48 linear ft	Good	Non-friable
White insulation	Piping	0913040201E, 2E, 3E	12 elbows	Good	Non-friable

Universal and other Miscellaneous Wastes

Material Description	*Location*	*Quantity*	*Waste Classification*
Fluorescent bulbs	Ceiling	6, 8 ft bulbs	Universal waste
		2, 4 ft bulbs	Universal waste
Ballasts	Ceiling	4	Non-hazardous regulated waste (no PCBs)
Emergency light	Wall	2 bulbs	Universal waste
		1 circuit board	Electronic waste
		1 lead battery	Universal waste

Table 22
Summary of Confirmed Hazardous Materials for First Floor, Offices
Kensico Laboratory
Contract CAT-423

Notes:

(1) Materials containing < 5,000 mg/kg or ≥ 5,000 mg/kg lead are considered lead-containing or lead-based, respectively.

(2) Materials containing < 50 mg/kg or ≥ 50 mg/kg PCBs are considered PCB-containing or TSCA-regulated, respectively.

(3) Materials containing more than 1% asbestos are considered asbestos containing materials.

* - Green tile confirmed ACM by NYCDEP Legacy Database.

** - Caulk is presumed to be present and asbestos containing. Caulk is presumed to be present under the entire steel frame (approx. 8" wide).

NA - Not Applicable

Table 23
Summary of Confirmed Hazardous Materials for the First Floor, Garage
Kensico Laboratory
Contract CAT-423

Lead and PCBs

Material Description	*Location*	*Hazard*	*Sample ID*
Green concrete	Floor	Lead-containing	CAT423-1ST-PC-16
Grey over red paint	Support beam	Lead-based	CAT423-1ST-PC-17

Universal and other Miscellaneous Wastes

Material Description	*Location*	*Quantity*	*Waste Classification*
Fluorescent bulbs	Ceiling	12, 8 ft bulbs	Universal waste
Ballasts	Ceiling	6	Non-hazardous regulated waste (no PCBs)
Refrigerators*	Wall	2	Regulated waste
Fire extinguishers	Wall	2	Regulated waste

Notes:

(1) Materials containing < 5,000 mg/kg or ≥ 5,000 mg/kg lead are considered lead-containing or lead-based, respectively.

(2) Materials containing < 50 mg/kg or ≥ 50 mg/kg PCBs are considered PCB-containing or TSCA-regulated, respectively.

(3) Quantities are provided for asbestos containing materials, TSCA-regulated PCBs and universal and other regulated materials.

* - Refrigerators uses Freon 134a (1,1,1,2-Tetrafluoroethane) as a refrigerant.

Table 24
Summary of Confirmed Hazardous Materials for the Basement, Boiler Room
Kensico Laboratory
Contract CAT-423

Lead and PCBs

Material Description	*Location*	*Hazard*	*Quantity*	*Sample ID*
Black paint	Duct work	Lead-containing	–––	191-01-LCP-01
Silver paint	Boiler	Lead-containing	–––	191-01-LCP-02
White paint	Walls	Lead-based, PCB-containing	–––	264428.08
Green paint	Floor	Lead-containing, PCB-containing	–––	CAT423-BASE-PC-12
Green paint*	Pipes (2")	Lead-based, TSCA-regulated PCBs	60 linear ft	CAT423-BASE-PC-21
Yellow paint*	Pipes (2")	Lead-based, TSCA-regulated PCBs	60 linear ft	CAT423-BASE-PC-22
Grey/silver paint	Electrical panel	Lead-containing, PCB-containing	–––	CAT423-BASE-PC-15
Black paint	Drain pipe	Lead-containing, PCB-containing	–––	CAT423-BASE-PC-11
Grey caulk	Interior door	PCB-containing	–––	CAT423-BASE-PCB-02
Lead packing	Drain pipes	Lead joints	36 locations	–––
Door closer oil	Door	PCB-containing	–––	CAT423-1ST-PCB-11

Asbestos

Material Description	*Location*	*Sample ID*	*Quantity*	*Condition*	*Friability*
Grey caulk**	Interior door	191-06-01	20 linear ft	Good	Non-Friable
Grey caulk**	Exterior door	1, 2, 3	26 linear ft	Good	Non-Friable
Grey caulk	Window	1, 2, 3	22 linear ft	Good	Non-Friable
Transite arc panels***	Electrical panel	–––	33 ft^2 (3 locations)	Good	Non-Friable
Black tar	Floor	2E	4 ft^2 (3 locations)	Damaged	Non-Friable
White insulation****	Pipe	–––	11 linear ft (5 locations)	Damaged	Friable

Universal and other Miscellaneous Wastes

Material Description	*Location*	*Quantity*	*Waste Classification*
Exit/Emergency light	Wall	2 bulbs	Universal waste
		1 circuit board	Electronic waste
		1 lead battery	Universal waste
Fire extinguisher	Wall	1	Regulated waste

Table 24
Summary of Confirmed Hazardous Materials for the Basement, Boiler Room
Kensico Laboratory
Contract CAT-423

Notes:

(1) Materials containing < 5,000 mg/kg or ≥ 5,000 mg/kg lead are considered lead-containing or lead-based, respectively.

(2) Materials containing < 50 mg/kg or ≥ 50 mg/kg PCBs are considered PCB-containing or TSCA-regulated, respectively.

(3) Materials containing more than 1% asbestos are considered asbestos containing materials.

(4) Quantities are provided for asbestos containing materials, TSCA-regulated PCBs and universal and other regulated materials.

* - Paint is in poor condition.

** - Caulk is presumed to be present under the entire steel frame (approx. 8" wide).

*** - Item is presumed to be present and asbestos containing.

**** - Insulation extends through the wall into the Basement, Storage Room and is presumed asbestos containing.

Table 25
Summary of Confirmed Hazardous Materials for the Basement, Hallway
Kensico Laboratory
Contract CAT-423

Lead and PCBs

Material Description	*Location*	*Hazard*	*Quantity*	*Sample ID*
Brown paint	Drain pipe (4")	Lead-based, TSCA-regulated PCBs	15 linear ft	CAT423-BASE-PC-19
Blue paint	Pipe	Lead-based, PCB-containing	–––	CAT423-BASE-PC-20
White paint	Walls	Lead-based, PCB-containing	–––	CAT423-1ST-PC-13
Grey/blue paint	Floor	Lead-containing	–––	CAT423-1ST-PC-09
Lead packing	Drain pipes	Lead joints	7 locations	–––

Asbestos

Material Description	*Location*	*Sample ID*	*Quantity*	*Condition*	*Friability*
Black tar	Floor	2E	2 ft^2	Damaged	Non-friable

Universal and other Miscellaneous Wastes

Material Description	*Location*	*Quantity*	*Waste Classification*
Exit/Emergency light	Wall	2 bulbs	Universal waste
		1 circuit board	Electronic waste
		1 lead battery	Universal waste
Fire extinguisher	Wall	1	Regulated waste

Notes:
(1) Materials containing < 5,000 mg/kg or ≥ 5,000 mg/kg lead are considered lead-containing or lead-based, respectively.
(2) Materials containing < 50 mg/kg or ≥ 50 mg/kg PCBs are considered PCB-containing or TSCA-regulated, respectively.
(3) Materials containing more than 1% asbestos are considered asbestos containing materials.
(4) Quantities are provided for asbestos containing materials, TSCA-regulated PCBs and universal and other regulated materials.

Table 26
Summary of Confirmed Hazardous Materials for the Basement, Crawlspace
Kensico Laboratory
Contract CAT-423

Lead and PCBs

Material Description	*Location*	*Hazard*	*Quantity*	*Sample ID*
Black paint*	Drain pipe	Lead-based, TSCA-regulated PCBs	28 linear ft	CAT423-BASE-PC-18
Brown paint*	Drain pipe	Lead-based, TSCA-regulated PCBs	286 linear ft	CAT423-BASE-PC-19
Green paint*	Pipe	Lead-based, TSCA-regulated PCBs	110 linear ft	CAT423-BASE-PC-21
Yellow paint*	Pipe	Lead-based, TSCA-regulated PCBs	88 linear ft (2 pipes)	CAT423-BASE-PC-22
Blue paint*	Pipe	Lead-based, PCB-containing	–––	CAT423-BASE-PC-20
Lead packing	Drain pipes	Lead joints	143 locations	–––

Asbestos

Material Description	*Location*	*Sample ID*	*Quantity*	*Condition*	*Friability*
Brown 4" gasket	Pipe	CAT423-BASE-ASB-94,95	3.5 ft^2 (7 locations)	Damaged	Non-friable

Universal and other Miscellaneous Wastes

Material Description	*Location*	*Quantity*	*Waste Classification*
Chemical waste tank	Crawlspace	1	Mercury and reactive hazardous waste**

Notes:
(1) Materials containing < 5,000 mg/kg or ≥ 5,000 mg/kg lead are considered lead-containing or lead-based, respectively.
(2) Materials containing < 50 mg/kg or ≥ 50 mg/kg PCBs are considered PCB-containing or TSCA-regulated, respectively.
(3) Materials containing more than 1% asbestos are considered asbestos containing materials.
(4) Quantities are provided for asbestos containing materials, TSCA-regulated PCBs and universal and other regulated materials.
* - Paints are in poor condition.
** - Contents of chemical waste tank were not investigated during survey.

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Table 27
Summary of Confirmed Hazardous Materials for the Basement, Storage Room
Kensico Laboratory
Contract CAT-423

Lead and PCBs

Material Description	*Location*	*Hazard*	*Quantity*	*Sample ID*
Black paint*	Drain pipe (4")	Lead-based, TSCA-regulated PCBs	38 linear ft	CAT423-BASE-PC-18
Brown paint*	Drain pipe (4")	Lead-based, TSCA-regulated PCBs	13 linear ft	CAT423-BASE-PC-19
Green paint*	Pipe (2")	Lead-based, TSCA-regulated PCBs	20 linear ft	CAT423-BASE-PC-21
Yellow paint*	Pipe (2")	Lead-based, TSCA-regulated PCBs	38 linear ft	CAT423-BASE-PC-22
White paint	Ceiling	Lead-based, PCB-containing	–––	CAT423-BASE-PC-13
Blue paint*	Pipe	Lead-based, PCB-containing	–––	CAT423-BASE-PC-20
Beige paint	Walls	Lead-based, PCB-containing	–––	CAT423-BASE-PC-14
Green paint	Floor	Lead-containing, PCB-containing	–––	CAT423-BASE-PC-12
Lead packing	Drain pipes	Lead joints	23 locations	–––
Door closer oil	Door	PCB-containing	–––	CAT423-1ST-PCB-11

Asbestos

Material Description	*Location*	*Sample ID*	*Quantity*	*Condition*	*Friability*
Black tar coating	Floor	2E	4 ft^2	Damaged	Non-friable
Grey caulk**	Interior door	191-06-01	16 linear ft	Good	Non-friable
Grey caulk**	Exterior door	1, 2, 3	20 linear ft	Good	Non-friable

Notes:

(1) Materials containing < 5,000 mg/kg or ≥ 5,000 mg/kg lead are considered lead-containing or lead-based, respectively.

(2) Materials containing < 50 mg/kg or ≥ 50 mg/kg PCBs are considered PCB-containing or TSCA-regulated, respectively.

(3) Materials containing more than 1% asbestos are considered asbestos containing materials.

(4) Quantities are provided for asbestos containing materials, TSCA-regulated PCBs and universal and other regulated materials.

* - Paints are in poor condition.

** - Caulk is presumed to be present under the entire steel frame (approx. 8" wide).

Table 28
Summary of Confirmed Hazardous Materials for the Basement, Electrical Room
Kensico Laboratory
Contract CAT-423

Lead and PCBs

Material Description	Location	Hazard	Sample ID
Beige paint	Wall/ceiling	Lead-based, PCB-containing	CAT423-BASE-PC-14
Grey/blue paint	Floor	Lead-containing	CAT423-1ST-PC-09
Grey/silver paint	Electrical panels	Lead-containing, PCB-containing	CAT423-BASE-PC-15
Door closer oil	Door	PCB-containing	CAT423-1ST-PCB-11

Asbestos

Material Description	*Location*	*Sample ID*	*Quantity*	*Condition*	*Friability*
Transite arc panels*	Electrical panels	–––	20 ft^2 (2 locations)	Unknown	Unknown
Grey caulk**	Door	191-06-01	20 linear ft	Good	Non-friable

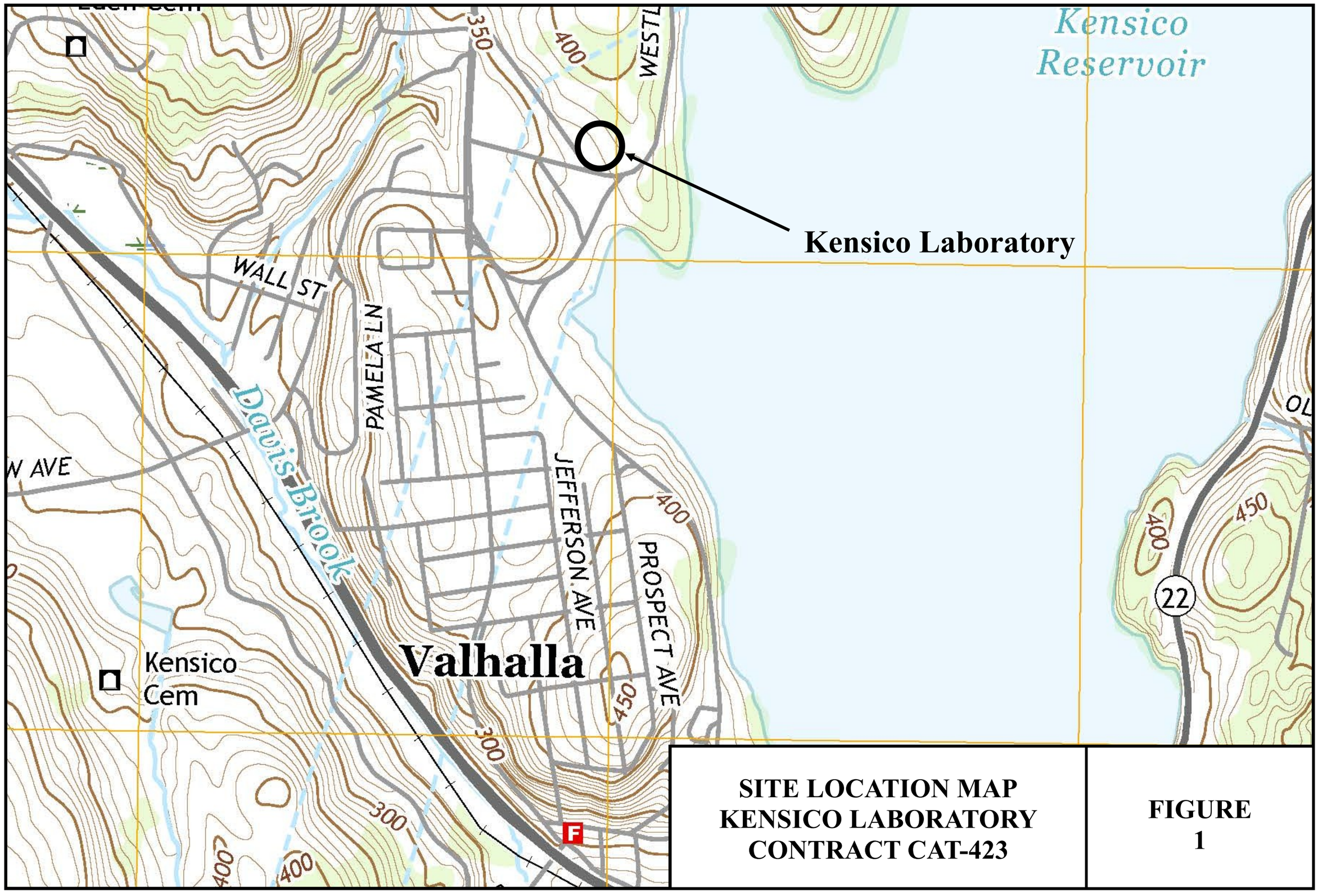
Notes:
(1) Materials containing < 5,000 mg/kg or ≥ 5,000 mg/kg lead are considered lead-containing or lead-based, respectively.
(2) Materials containing < 50 mg/kg or ≥ 50 mg/kg PCBs are considered PCB-containing or TSCA-regulated, respectively.
(3) Materials containing more than 1% asbestos are considered asbestos containing materials.
(4) Quantities are provided for asbestos containing materials, TSCA-regulated PCBs and universal and other regulated materials.
* - Item is presumed to be present and asbestos containing.
** - Caulk is presumed to be present under the entire steel frame (approx. 8" wide).

Table 29
Summary of Confirmed Hazardous Materials for the Laboratory Exterior
Kensico Laboratory
Contract CAT-423

Asbestos

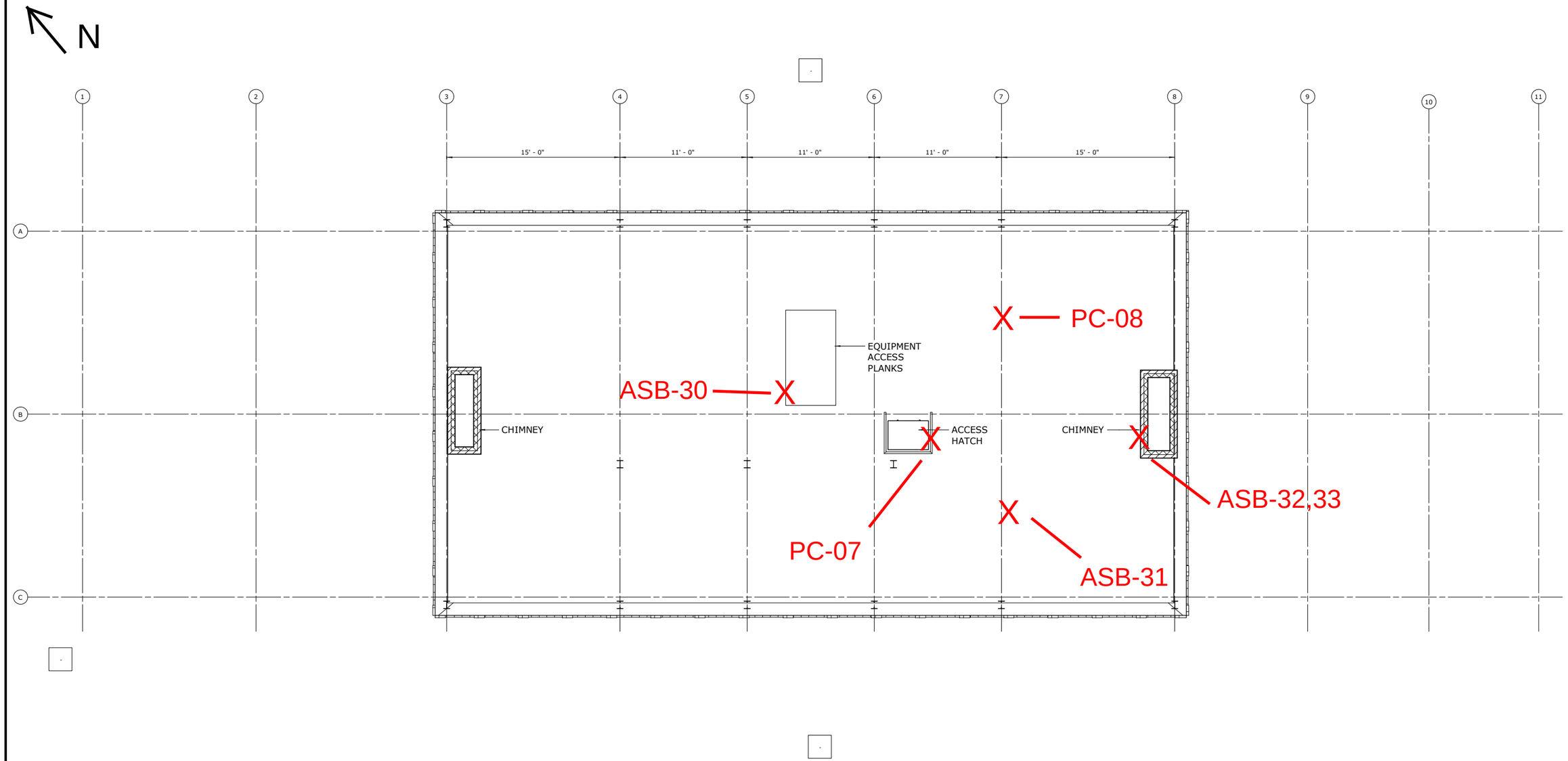
Material Description	*Location*	*Sample ID*	*Quantity*	*Condition*	*Friability*
Black membrane tar	Canopy over north wall entranceway	0821060213E	132 ft^2	Damaged	Non-friable
Black membrane tar	Canopy over south wall entranceway	0821060213E	132 ft^2	Damaged	Non-friable
White caulk	Vents	CAT423-EXT-ASB-84,85	18 linear ft (3 locations)	Significantly damaged	Non-friable

Notes:
(1) Materials containing more than 1% asbestos are considered asbestos containing materials.
(2) Quantities are provided for asbestos containing materials, TSCA-regulated PCBs and universal and other regulated materials.



SITE LOCATION MAP
KENSICO LABORATORY
CONTRACT CAT-423

FIGURE
1



Notes:
Sample IDs have been abbreviated.
Full IDs can be found in Tables 1 and 4.

X : Sample location

FIGURE 2. KENSICO LABORATORY, ATTIC
HAZARDOUS MATERIALS SAMPLE LOCATIONS
CONTRACT CAT-423

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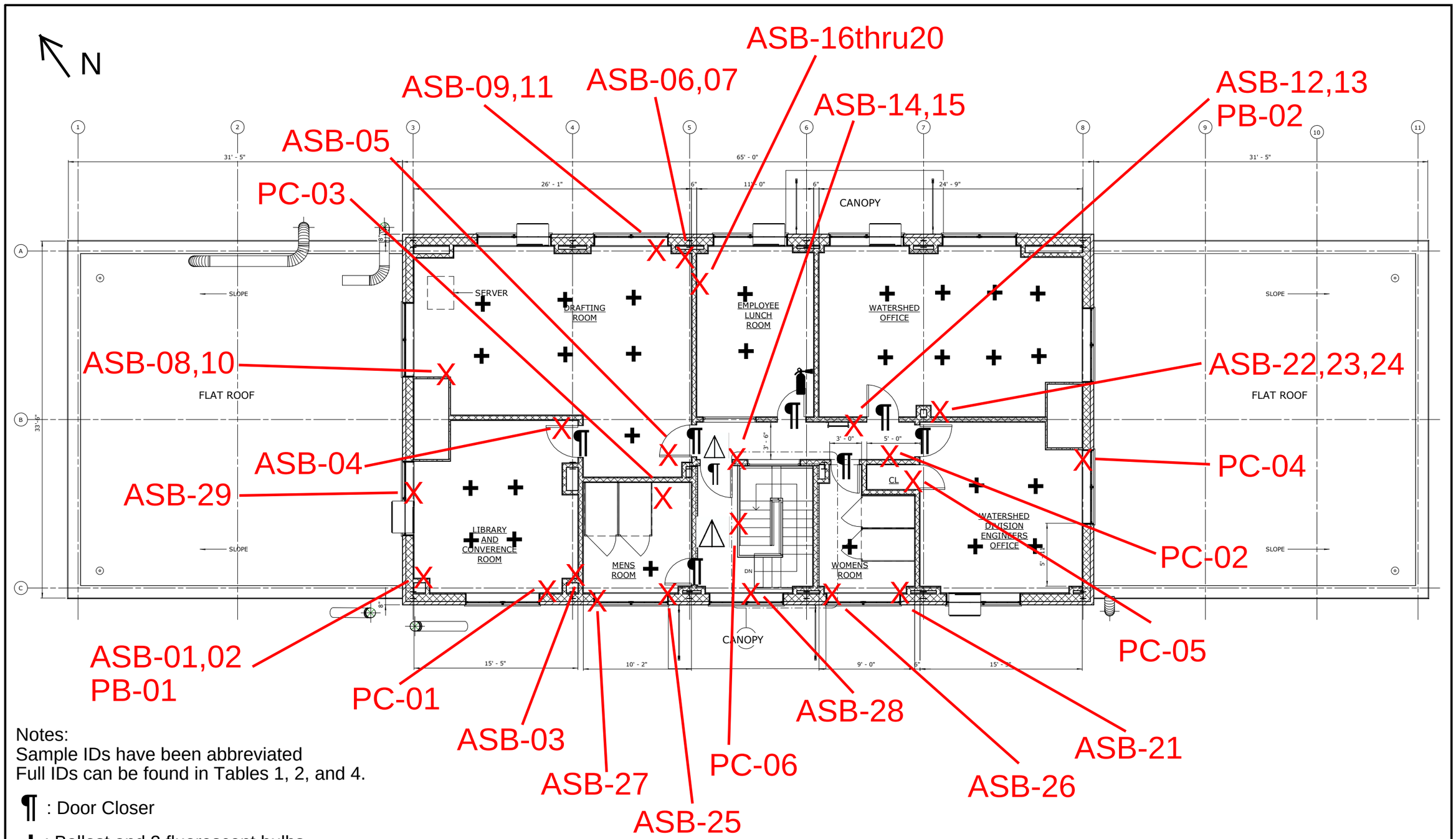


Notes:
Sample IDs have been abbreviated
Full IDs can be found in Tables 1, 2, and 4.

¶ : Door Closer

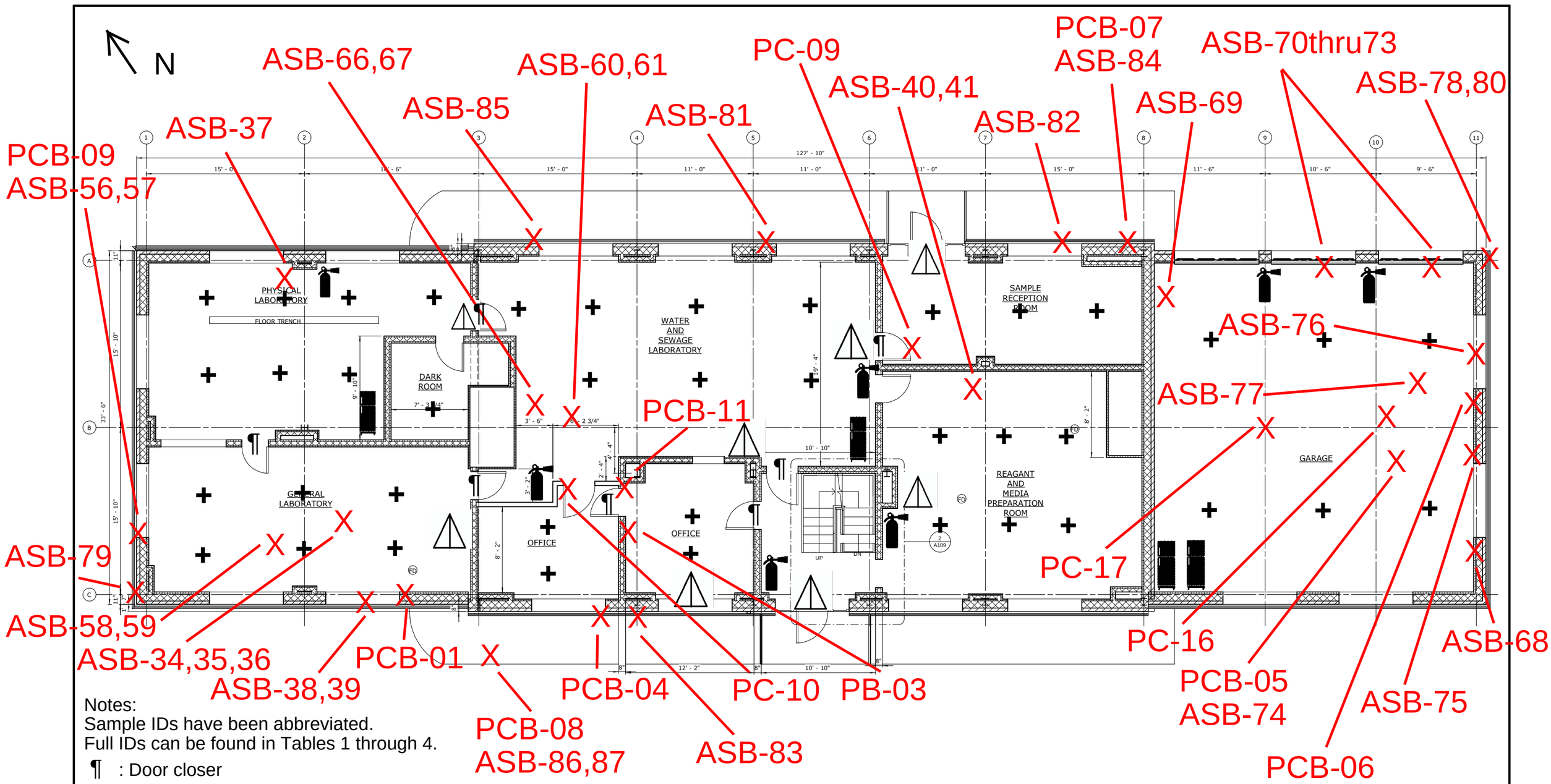
✚ : Ballast and 2 fluorescent bulbs

: Exit sign/Emergency light

X : Sample location

: Fire extinguisher

FIGURE 3. KENSICO LABORATORY, SECOND FLOOR HAZARDOUS MATERIALS SAMPLE LOCATIONS CONTRACT CAT-423



Notes:
Sample IDs have been abbreviated.
Full IDs can be found in Tables 1 through 4.

¶ : Door closer

✚ : Ballast and 2 fluorescent bulbs

: Exit sign/Emergency light

X : Sample location

: Fire extinguisher

: Refrigerator

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FIGURE 4. KENSICO LABORATORY, FIRST FLOOR AND EXTERIOR HAZARDOUS MATERIALS SAMPLE LOCATIONS CONTRACT CAT-423

N

PC-22
ASB-62thru65
PC-15
ASB-55
PC-21
PC-14
PC-20
PC-12
ASB-91
ASB-52,53
ASB-90
PC-19
ASB-42thru47,50,51
ASB-96,97
ASB-92thru95
PC-18
ASB-89
ASB-88
PCB-10
PC-13
PCB-03
PCB-02
PC-11
ASB-54
ASB-48,49

ELEC ROOM
STORAGE ROOM
CAWL SPACE
BOILER ROOM
UP
AIRWAY
17' - 2"
3' - 11"
3' - 1"
4' - 0"

Notes:
Sample IDs have been abbreviated.
Full IDs can be found in Tables 1, 3, and 4.

¶ : Door closer

X : Sample location

: Exit sign/Emergency light

: Chemical waste tank

: Fire extinguisher

C:\Users\jmartinez\Documents\00260-003_A_jmartinez.rvt
4/24/2012 2:37:37 PM

FIGURE 5. KENSICO LABORATORY, BASEMENT HAZARDOUS MATERIALS SAMPLE LOCATIONS CONTRACT CAT-423

ATTACHMENT A

Aqua Pro-Tech Laboratories
Data Packages and NYS ELAP Certificates

APL
AQUA PRO-TECH LABORATORIES
Certified Environmental Testing

ANALYTICAL RESULTS

STANDARD DELIVERABLES FORMAT

APL WORK ORDER NUMBER: 7120638

Bidwell Environmental

Project: CAT-423

Brian Wood
Laboratory Director

All Results meet the requirements of the National Environmental Laboratory Accreditation Conference and/or State specific certifications as applicable.

1275 Bloomfield Ave., Bldg. 6, Fairfield, New Jersey 07004
(t) 973.227.0422 (f) 973.227.2813 (w) www.aquaprotechlabs.com

NELAC National Environmental Laboratory Accreditation Conference
NJDEP #07010 / NYDOH #11634

APL
AQUA PRO-TECH LABORATORIES
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Analytical Results Summary

CAT-423

7120638-01 (Paint Chips)

CAT423-2nd-PC-01

Collected	Received	Contact
12/18/2017 07:25	12/20/2017 15:50	Michael Wellock

Lab Section/ Analysis	Method	Prepared	Analyzed	Result	Qual	MDL	RL	Units
General Chemistry								
Percent Solids	**Gravimetric**	12/20/17 18:35	12/20/17 18:36	**100**				%
Total Metals								
Lead	**SW 846 6010C**	01/05/18 10:30	01/08/18 10:05	**9000**			**62.5**	mg/kg dry
PCBs								
Aroclor-1016	SW 846 8082	12/21/17 10:17	12/26/17 15:04	ND	U	0.0221	1.24	mg/kg dry
Aroclor-1221	SW 846 8082	12/21/17 10:17	12/26/17 15:04	ND	U	0.0381	1.24	mg/kg dry
Aroclor-1232	SW 846 8082	12/21/17 10:17	12/26/17 15:04	ND	U	0.0291	1.24	mg/kg dry
Aroclor-1242	SW 846 8082	12/21/17 10:17	12/26/17 15:04	ND	U	0.0420	1.24	mg/kg dry
Aroclor-1248	SW 846 8082	12/21/17 10:17	12/26/17 15:04	ND	U	0.0290	1.24	mg/kg dry
Aroclor-1254	**SW 846 8082**	12/21/17 10:17	12/26/17 15:04	**13.6**	**D**	**0.0441**	**1.24**	mg/kg dry
Aroclor-1260	SW 846 8082	12/21/17 10:17	12/26/17 15:04	ND	U	0.0326	1.24	mg/kg dry
Aroclor-1262	SW 846 8082	12/21/17 10:17	12/26/17 15:04	ND	U	0.0478	1.24	mg/kg dry
Aroclor-1268	SW 846 8082	12/21/17 10:17	12/26/17 15:04	ND	U	0.0250	1.24	mg/kg dry
Total PCBs	**SW 846 8082**	12/21/17 10:17	12/26/17 15:04	**13.6**	**D**	**0.0221**	**1.24**	mg/kg dry

FootNotes

RL - Reporting limit
MDL - Minimum detection limit
ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
H - Indicates a Hold Time violation

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Analytical Results Summary

CAT-423

7120638-02 (Solid)

CAT423-2nd-PB-01

Collected	Received	Contact
12/18/2017 07:25	12/20/2017 15:50	Michael Wellock

Lab Section/ Analysis	Method	Prepared	Analyzed	Result	Qual	MDL	RL	Units
General Chemistry								
Percent Solids	**Gravimetric**	12/20/17 18:35	12/20/17 18:36	**100**				%
Total Metals								
Lead	**SW 846 6010C**	01/05/18 10:30	01/08/18 10:09	**6.91**			**1.25**	mg/kg dry

FootNotes

RL - Reporting limit
MDL - Minimum detection limit
ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
H - Indicates a Hold Time violation

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Analytical Results Summary

CAT-423

7120638-03 (Solid)

CAT423-2nd-PB-02

Collected	Received	Contact
12/18/2017 09:30	12/20/2017 15:50	Michael Wellock

Lab Section/ Analysis	Method	Prepared	Analyzed	Result	Qual	MDL	RL	Units
General Chemistry								
Percent Solids	**Gravimetric**	12/20/17 18:35	12/20/17 18:36	**100**				%
Total Metals								
Lead	SW 846 6010C	01/05/18 10:30	01/08/18 10:13	ND			1.25	mg/kg dry

FootNotes

RL - Reporting limit
MDL - Minimum detection limit
ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
H - Indicates a Hold Time violation

APL
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Analytical Results Summary

CAT-423

7120638-04 (Paint Chips)

CAT423-2nd-PC-02

Collected	Received	Contact
12/18/2017 09:27	12/20/2017 15:50	Michael Wellock

Lab Section/ Analysis	Method	Prepared	Analyzed	Result	Qual	MDL	RL	Units
General Chemistry								
Percent Solids	**Gravimetric**	12/20/17 18:35	12/20/17 18:36	**100**				%
Total Metals								
Lead	**SW 846 6010C**	01/05/18 10:30	01/08/18 10:17	**2510**			**12.5**	mg/kg dry
PCBs								
Aroclor-1016	SW 846 8082	12/21/17 10:17	12/21/17 20:55	ND	U	0.00441	0.248	mg/kg dry
Aroclor-1221	SW 846 8082	12/21/17 10:17	12/21/17 20:55	ND	U	0.00762	0.248	mg/kg dry
Aroclor-1232	SW 846 8082	12/21/17 10:17	12/21/17 20:55	ND	U	0.00583	0.248	mg/kg dry
Aroclor-1242	SW 846 8082	12/21/17 10:17	12/21/17 20:55	ND	U	0.00840	0.248	mg/kg dry
Aroclor-1248	SW 846 8082	12/21/17 10:17	12/21/17 20:55	ND	U	0.00581	0.248	mg/kg dry
Aroclor-1254	**SW 846 8082**	12/21/17 10:17	12/21/17 20:55	**4.56**		**0.00883**	**0.248**	mg/kg dry
Aroclor-1260	SW 846 8082	12/21/17 10:17	12/21/17 20:55	ND	U	0.00653	0.248	mg/kg dry
Aroclor-1262	SW 846 8082	12/21/17 10:17	12/21/17 20:55	ND	U	0.00956	0.248	mg/kg dry
Aroclor-1268	SW 846 8082	12/21/17 10:17	12/21/17 20:55	ND	U	0.00500	0.248	mg/kg dry
Total PCBs	**SW 846 8082**	12/21/17 10:17	12/21/17 20:55	**4.56**		**0.00441**	**0.248**	mg/kg dry

FootNotes

RL - Reporting limit
MDL - Minimum detection limit
ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
H - Indicates a Hold Time violation

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Analytical Results Summary

CAT-423

7120638-05 (Paint Chips)

CAT423-2nd-PC-03

Collected	Received	Contact
12/18/2017 11:22	12/20/2017 15:50	Michael Wellock

Lab Section/ Analysis	Method	Prepared	Analyzed	Result	Qual	MDL	RL	Units
General Chemistry								
Percent Solids	**Gravimetric**	12/20/17 18:35	12/20/17 18:36	**100**				%
Total Metals								
Lead	**SW 846 6010C**	01/05/18 10:30	01/08/18 10:40	**1400**			**12.5**	mg/kg dry
PCBs								
Aroclor-1016	SW 846 8082	12/21/17 10:17	12/21/17 21:21	ND	U	0.00441	0.248	mg/kg dry
Aroclor-1221	SW 846 8082	12/21/17 10:17	12/21/17 21:21	ND	U	0.00762	0.248	mg/kg dry
Aroclor-1232	SW 846 8082	12/21/17 10:17	12/21/17 21:21	ND	U	0.00583	0.248	mg/kg dry
Aroclor-1242	SW 846 8082	12/21/17 10:17	12/21/17 21:21	ND	U	0.00840	0.248	mg/kg dry
Aroclor-1248	SW 846 8082	12/21/17 10:17	12/21/17 21:21	ND	U	0.00581	0.248	mg/kg dry
Aroclor-1254	**SW 846 8082**	12/21/17 10:17	12/21/17 21:21	**2.14**		**0.00883**	**0.248**	mg/kg dry
Aroclor-1260	SW 846 8082	12/21/17 10:17	12/21/17 21:21	ND	U	0.00653	0.248	mg/kg dry
Aroclor-1262	SW 846 8082	12/21/17 10:17	12/21/17 21:21	ND	U	0.00956	0.248	mg/kg dry
Aroclor-1268	SW 846 8082	12/21/17 10:17	12/21/17 21:21	ND	U	0.00500	0.248	mg/kg dry
Total PCBs	**SW 846 8082**	12/21/17 10:17	12/21/17 21:21	**2.14**		**0.00441**	**0.248**	mg/kg dry

FootNotes

RL - Reporting limit
MDL - Minimum detection limit
ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
H - Indicates a Hold Time violation

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Analytical Results Summary

CAT-423

7120638-06 (Paint Chips)

CAT423-2nd-PC-04

Collected	Received	Contact
12/18/2017 11:30	12/20/2017 15:50	Michael Wellock

Lab Section/ Analysis	Method	Prepared	Analyzed	Result	Qual	MDL	RL	Units
General Chemistry								
Percent Solids	**Gravimetric**	12/20/17 18:35	12/20/17 18:36	**100**				%
Total Metals								
Lead	**SW 846 6010C**	01/05/18 10:30	01/08/18 10:25	**1560**			**12.5**	mg/kg dry
PCBs								
Aroclor-1016	SW 846 8082	12/21/17 10:17	12/21/17 21:46	ND	U	0.00441	0.248	mg/kg dry
Aroclor-1221	SW 846 8082	12/21/17 10:17	12/21/17 21:46	ND	U	0.00762	0.248	mg/kg dry
Aroclor-1232	SW 846 8082	12/21/17 10:17	12/21/17 21:46	ND	U	0.00583	0.248	mg/kg dry
Aroclor-1242	SW 846 8082	12/21/17 10:17	12/21/17 21:46	ND	U	0.00840	0.248	mg/kg dry
Aroclor-1248	SW 846 8082	12/21/17 10:17	12/21/17 21:46	ND	U	0.00581	0.248	mg/kg dry
Aroclor-1254	**SW 846 8082**	12/21/17 10:17	12/21/17 21:46	**3.49**		**0.00883**	**0.248**	mg/kg dry
Aroclor-1260	SW 846 8082	12/21/17 10:17	12/21/17 21:46	ND	U	0.00653	0.248	mg/kg dry
Aroclor-1262	SW 846 8082	12/21/17 10:17	12/21/17 21:46	ND	U	0.00956	0.248	mg/kg dry
Aroclor-1268	SW 846 8082	12/21/17 10:17	12/21/17 21:46	ND	U	0.00500	0.248	mg/kg dry
Total PCBs	**SW 846 8082**	12/21/17 10:17	12/21/17 21:46	**3.49**		**0.00441**	**0.248**	mg/kg dry

FootNotes

RL - Reporting limit
MDL - Minimum detection limit
ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
H - Indicates a Hold Time violation

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Analytical Results Summary

CAT-423

7120638-07 (Paint Chips)

CAT423-2nd-PC-05

Collected	Received	Contact
12/18/2017 11:50	12/20/2017 15:50	Michael Wellock

Lab Section/ Analysis	Method	Prepared	Analyzed	Result	Qual	MDL	RL	Units
General Chemistry								
Percent Solids	**Gravimetric**	12/20/17 18:35	12/20/17 18:36	**100**				%
Total Metals								
Lead	**SW 846 6010C**	01/05/18 10:30	01/08/18 10:28	**2890**			**12.5**	mg/kg dry
PCBs								
Aroclor-1016	SW 846 8082	12/21/17 10:17	12/26/17 15:55	ND	U	0.00441	0.248	mg/kg dry
Aroclor-1221	SW 846 8082	12/21/17 10:17	12/26/17 15:55	ND	U	0.00762	0.248	mg/kg dry
Aroclor-1232	SW 846 8082	12/21/17 10:17	12/26/17 15:55	ND	U	0.00583	0.248	mg/kg dry
Aroclor-1242	SW 846 8082	12/21/17 10:17	12/26/17 15:55	ND	U	0.00840	0.248	mg/kg dry
Aroclor-1248	SW 846 8082	12/21/17 10:17	12/26/17 15:55	ND	U	0.00581	0.248	mg/kg dry
Aroclor-1254	**SW 846 8082**	12/21/17 10:17	12/26/17 15:55	**5.67**		**0.00883**	**0.248**	mg/kg dry
Aroclor-1260	**SW 846 8082**	12/21/17 10:17	12/26/17 15:55	**5.20**		**0.00653**	**0.248**	mg/kg dry
Aroclor-1262	SW 846 8082	12/21/17 10:17	12/26/17 15:55	ND	U	0.00956	0.248	mg/kg dry
Aroclor-1268	SW 846 8082	12/21/17 10:17	12/26/17 15:55	ND	U	0.00500	0.248	mg/kg dry
Total PCBs	**SW 846 8082**	12/21/17 10:17	12/26/17 15:55	**10.9**		**0.00441**	**0.248**	mg/kg dry

FootNotes

RL - Reporting limit
MDL - Minimum detection limit
ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
H - Indicates a Hold Time violation

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Analytical Results Summary

CAT-423

7120638-08 (Paint Chips)

CAT423-2nd-PC-06

Collected	Received	Contact
12/18/2017 12:18	12/20/2017 15:50	Michael Wellock

Lab Section/ Analysis	Method	Prepared	Analyzed	Result	Qual	MDL	RL	Units
General Chemistry								
Percent Solids	**Gravimetric**	12/20/17 18:35	12/20/17 18:36	**100**				%
Total Metals								
Lead	**SW 846 6010C**	01/05/18 10:30	01/08/18 10:43	**38500**			**125**	mg/kg dry
PCBs								
Aroclor-1016	SW 846 8082	12/21/17 10:17	12/26/17 16:37	ND	U	0.00441	0.248	mg/kg dry
Aroclor-1221	SW 846 8082	12/21/17 10:17	12/26/17 16:37	ND	U	0.00762	0.248	mg/kg dry
Aroclor-1232	SW 846 8082	12/21/17 10:17	12/26/17 16:37	ND	U	0.00583	0.248	mg/kg dry
Aroclor-1242	SW 846 8082	12/21/17 10:17	12/26/17 16:37	ND	U	0.00840	0.248	mg/kg dry
Aroclor-1248	SW 846 8082	12/21/17 10:17	12/26/17 16:37	ND	U	0.00581	0.248	mg/kg dry
Aroclor-1254	SW 846 8082	12/21/17 10:17	12/26/17 16:37	ND	U	0.00883	0.248	mg/kg dry
Aroclor-1260	SW 846 8082	12/21/17 10:17	12/26/17 16:37	ND	U	0.00653	0.248	mg/kg dry
Aroclor-1262	SW 846 8082	12/21/17 10:17	12/26/17 16:37	ND	U	0.00956	0.248	mg/kg dry
Aroclor-1268	SW 846 8082	12/21/17 10:17	12/26/17 16:37	ND	U	0.00500	0.248	mg/kg dry
Total PCBs	SW 846 8082	12/21/17 10:17	12/26/17 16:37	ND	U	0.00441	0.248	mg/kg dry

FootNotes

RL - Reporting limit
MDL - Minimum detection limit
ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
H - Indicates a Hold Time violation

APL
AQUA PRO-TECH LABORATORIES
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Analytical Results Summary

CAT-423

7120638-09 (Paint Chips)

CAT423-ATT-PC-07

Collected	Received	Contact
12/18/2017 14:16	12/20/2017 15:50	Michael Wellock

Lab Section/ Analysis	Method	Prepared	Analyzed	Result	Qual	MDL	RL	Units
General Chemistry								
Percent Solids	**Gravimetric**	12/20/17 18:35	12/20/17 18:36	**100**				%
Total Metals								
Lead	**SW 846 6010C**	01/05/18 10:30	01/08/18 10:52	**88000**			**1250**	mg/kg dry
PCBs								
Aroclor-1016	SW 846 8082	12/21/17 10:17	12/26/17 17:19	ND	U	0.00441	0.248	mg/kg dry
Aroclor-1221	SW 846 8082	12/21/17 10:17	12/26/17 17:19	ND	U	0.00762	0.248	mg/kg dry
Aroclor-1232	SW 846 8082	12/21/17 10:17	12/26/17 17:19	ND	U	0.00583	0.248	mg/kg dry
Aroclor-1242	SW 846 8082	12/21/17 10:17	12/26/17 17:19	ND	U	0.00840	0.248	mg/kg dry
Aroclor-1248	SW 846 8082	12/21/17 10:17	12/26/17 17:19	ND	U	0.00581	0.248	mg/kg dry
Aroclor-1254	**SW 846 8082**	12/21/17 10:17	12/26/17 17:19	**5.13**		**0.00883**	**0.248**	mg/kg dry
Aroclor-1260	SW 846 8082	12/21/17 10:17	12/26/17 17:19	ND	U	0.00653	0.248	mg/kg dry
Aroclor-1262	SW 846 8082	12/21/17 10:17	12/26/17 17:19	ND	U	0.00956	0.248	mg/kg dry
Aroclor-1268	SW 846 8082	12/21/17 10:17	12/26/17 17:19	ND	U	0.00500	0.248	mg/kg dry
Total PCBs	**SW 846 8082**	12/21/17 10:17	12/26/17 17:19	**5.13**		**0.00441**	**0.248**	mg/kg dry

FootNotes

RL - Reporting limit
MDL - Minimum detection limit
ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
H - Indicates a Hold Time violation

APL
AQUA PRO-TECH LABORATORIES
Certified Environmental Testing

Analytical Results Summary

CAT-423

7120638-10 (Paint Chips)

CAT423-ATT-PC-08

Collected	Received	Contact
12/18/2017 14:30	12/20/2017 15:50	Michael Wellock

Lab Section/ Analysis	Method	Prepared	Analyzed	Result	Qual	MDL	RL	Units
General Chemistry								
Percent Solids	**Gravimetric**	12/20/17 18:35	12/20/17 18:36	**100**				%
Total Metals								
Lead	**SW 846 6010C**	01/05/18 10:30	01/08/18 11:21	**268**			**12.5**	mg/kg dry
PCBs								
Aroclor-1016	SW 846 8082	12/21/17 10:17	12/26/17 18:01	ND	U	0.00441	0.248	mg/kg dry
Aroclor-1221	SW 846 8082	12/21/17 10:17	12/26/17 18:01	ND	U	0.00762	0.248	mg/kg dry
Aroclor-1232	SW 846 8082	12/21/17 10:17	12/26/17 18:01	ND	U	0.00583	0.248	mg/kg dry
Aroclor-1242	SW 846 8082	12/21/17 10:17	12/26/17 18:01	ND	U	0.00840	0.248	mg/kg dry
Aroclor-1248	SW 846 8082	12/21/17 10:17	12/26/17 18:01	ND	U	0.00581	0.248	mg/kg dry
Aroclor-1254	SW 846 8082	12/21/17 10:17	12/26/17 18:01	ND	U	0.00883	0.248	mg/kg dry
Aroclor-1260	SW 846 8082	12/21/17 10:17	12/26/17 18:01	ND	U	0.00653	0.248	mg/kg dry
Aroclor-1262	SW 846 8082	12/21/17 10:17	12/26/17 18:01	ND	U	0.00956	0.248	mg/kg dry
Aroclor-1268	SW 846 8082	12/21/17 10:17	12/26/17 18:01	ND	U	0.00500	0.248	mg/kg dry
Total PCBs	SW 846 8082	12/21/17 10:17	12/26/17 18:01	ND	U	0.00441	0.248	mg/kg dry

FootNotes

RL - Reporting limit
MDL - Minimum detection limit
ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
H - Indicates a Hold Time violation

APL
AQUA PRO-TECH LABORATORIES
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Analytical Results Summary

CAT-423

7120638-11 (Solid)

CAT423-1st-PB-03

Collected	Received	Contact
12/19/2017 07:30	12/20/2017 15:50	Michael Wellock

Lab Section/ Analysis	Method	Prepared	Analyzed	Result	Qual	MDL	RL	Units
General Chemistry								
Percent Solids	**Gravimetric**	12/20/17 18:35	12/20/17 18:36	**100**				%
Total Metals								
Lead	**SW 846 6010C**	01/05/18 10:30	01/08/18 11:25	**50.4**			**12.5**	mg/kg dry

FootNotes

RL - Reporting limit
MDL - Minimum detection limit
ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
H - Indicates a Hold Time violation

APL
AQUA PRO-TECH LABORATORIES
Certified Environmental Testing

Analytical Results Summary

CAT-423

7120638-12 (Paint Chips)

CAT423-1st-PC-09

Collected	Received	Contact
12/19/2017 10:30	12/20/2017 15:50	Michael Wellock

Lab Section/ Analysis	Method	Prepared	Analyzed	Result	Qual	MDL	RL	Units
General Chemistry								
Percent Solids	**Gravimetric**	12/20/17 18:35	12/20/17 18:36	**100**				%
Total Metals								
Lead	**SW 846 6010C**	01/05/18 10:30	01/08/18 11:27	**35.8**			**12.5**	mg/kg dry
PCBs								
Aroclor-1016	SW 846 8082	12/21/17 10:17	12/27/17 22:47	ND	U	0.00441	0.248	mg/kg dry
Aroclor-1221	SW 846 8082	12/21/17 10:17	12/27/17 22:47	ND	U	0.00762	0.248	mg/kg dry
Aroclor-1232	SW 846 8082	12/21/17 10:17	12/27/17 22:47	ND	U	0.00583	0.248	mg/kg dry
Aroclor-1242	SW 846 8082	12/21/17 10:17	12/27/17 22:47	ND	U	0.00840	0.248	mg/kg dry
Aroclor-1248	SW 846 8082	12/21/17 10:17	12/27/17 22:47	ND	U	0.00581	0.248	mg/kg dry
Aroclor-1254	SW 846 8082	12/21/17 10:17	12/27/17 22:47	ND	U	0.00883	0.248	mg/kg dry
Aroclor-1260	SW 846 8082	12/21/17 10:17	12/27/17 22:47	ND	U	0.00653	0.248	mg/kg dry
Aroclor-1262	SW 846 8082	12/21/17 10:17	12/27/17 22:47	ND	U	0.00956	0.248	mg/kg dry
Aroclor-1268	SW 846 8082	12/21/17 10:17	12/27/17 22:47	ND	U	0.00500	0.248	mg/kg dry
Total PCBs	SW 846 8082	12/21/17 10:17	12/27/17 22:47	ND	U	0.00441	0.248	mg/kg dry

FootNotes

RL - Reporting limit
MDL - Minimum detection limit
ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
H - Indicates a Hold Time violation

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AQUA PRO-TECH LABORATORIES
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Analytical Results Summary

CAT-423

7120638-13 (Paint Chips)

CAT423-1st-PC-10

Collected	Received	Contact
12/19/2017 11:10	12/20/2017 15:50	Michael Wellock

Lab Section/ Analysis	Method	Prepared	Analyzed	Result	Qual	MDL	RL	Units
General Chemistry								
Percent Solids	**Gravimetric**	12/20/17 18:35	12/20/17 18:36	**100**				%
Total Metals								
Lead	**SW 846 6010C**	01/05/18 10:30	01/08/18 11:30	**15.1**			**12.5**	mg/kg dry
PCBs								
Aroclor-1016	SW 846 8082	12/21/17 10:17	12/28/17 23:27	ND	U	0.0221	1.24	mg/kg dry
Aroclor-1221	SW 846 8082	12/21/17 10:17	12/28/17 23:27	ND	U	0.0381	1.24	mg/kg dry
Aroclor-1232	SW 846 8082	12/21/17 10:17	12/28/17 23:27	ND	U	0.0291	1.24	mg/kg dry
Aroclor-1242	SW 846 8082	12/21/17 10:17	12/28/17 23:27	ND	U	0.0420	1.24	mg/kg dry
Aroclor-1248	SW 846 8082	12/21/17 10:17	12/28/17 23:27	ND	U	0.0290	1.24	mg/kg dry
Aroclor-1254	**SW 846 8082**	12/21/17 10:17	12/28/17 23:27	**14.5**	**D**	**0.0441**	**1.24**	mg/kg dry
Aroclor-1260	SW 846 8082	12/21/17 10:17	12/28/17 23:27	ND	U	0.0326	1.24	mg/kg dry
Aroclor-1262	SW 846 8082	12/21/17 10:17	12/28/17 23:27	ND	U	0.0478	1.24	mg/kg dry
Aroclor-1268	SW 846 8082	12/21/17 10:17	12/28/17 23:27	ND	U	0.0250	1.24	mg/kg dry
Total PCBs	**SW 846 8082**	12/21/17 10:17	12/28/17 23:27	**14.5**	**D**	**0.0221**	**1.24**	mg/kg dry

FootNotes

RL - Reporting limit
MDL - Minimum detection limit
ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
H - Indicates a Hold Time violation

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Analytical Results Summary

CAT-423

7120638-14 (Solid)

CAT423-1st-PCB-01

Collected	Received	Contact
12/19/2017 09:15	12/20/2017 15:50	Michael Wellock

Lab Section/ Analysis	Method	Prepared	Analyzed	Result	Qual	MDL	RL	Units
General Chemistry								
Percent Solids	**Gravimetric**	12/20/17 18:35	12/20/17 18:36	**100**				%
Total Metals								
Lead	**SW 846 6010C**	01/05/18 10:30	01/08/18 11:59	**8.60**			**1.25**	mg/kg dry
PCBs								
Aroclor-1016	SW 846 8082	12/21/17 10:17	01/02/18 20:06	ND	U	0.00441	0.248	mg/kg dry
Aroclor-1221	SW 846 8082	12/21/17 10:17	01/02/18 20:06	ND	U	0.00762	0.248	mg/kg dry
Aroclor-1232	SW 846 8082	12/21/17 10:17	01/02/18 20:06	ND	U	0.00583	0.248	mg/kg dry
Aroclor-1242	SW 846 8082	12/21/17 10:17	01/02/18 20:06	ND	U	0.00840	0.248	mg/kg dry
Aroclor-1248	SW 846 8082	12/21/17 10:17	01/02/18 20:06	ND	U	0.00581	0.248	mg/kg dry
Aroclor-1254	**SW 846 8082**	12/21/17 10:17	01/02/18 20:06	**8.13**		**0.00883**	**0.248**	mg/kg dry
Aroclor-1260	SW 846 8082	12/21/17 10:17	01/02/18 20:06	ND	U	0.00653	0.248	mg/kg dry
Aroclor-1262	SW 846 8082	12/21/17 10:17	01/02/18 20:06	ND	U	0.00956	0.248	mg/kg dry
Aroclor-1268	SW 846 8082	12/21/17 10:17	01/02/18 20:06	ND	U	0.00500	0.248	mg/kg dry
Total PCBs	**SW 846 8082**	12/21/17 10:17	01/02/18 20:06	**8.13**		**0.00441**	**0.248**	mg/kg dry

FootNotes

RL - Reporting limit
MDL - Minimum detection limit
ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
H - Indicates a Hold Time violation

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Analytical Results Summary

CAT-423

7120638-15 (Paint Chips)

CAT423-Base-PC-11

Collected	Received	Contact
12/19/2017 13:12	12/20/2017 15:50	Michael Wellock

Lab Section/ Analysis	Method	Prepared	Analyzed	Result	Qual	MDL	RL	Units
General Chemistry								
Percent Solids	**Gravimetric**	12/20/17 18:35	12/20/17 18:36	**100**				%
Total Metals								
Lead	**SW 846 6010C**	01/05/18 10:30	01/08/18 11:36	**4720**			**12.5**	mg/kg dry
PCBs								
Aroclor-1016	SW 846 8082	12/21/17 10:17	12/28/17 23:01	ND	U	0.0221	1.24	mg/kg dry
Aroclor-1221	SW 846 8082	12/21/17 10:17	12/28/17 23:01	ND	U	0.0381	1.24	mg/kg dry
Aroclor-1232	SW 846 8082	12/21/17 10:17	12/28/17 23:01	ND	U	0.0291	1.24	mg/kg dry
Aroclor-1242	SW 846 8082	12/21/17 10:17	12/28/17 23:01	ND	U	0.0420	1.24	mg/kg dry
Aroclor-1248	SW 846 8082	12/21/17 10:17	12/28/17 23:01	ND	U	0.0290	1.24	mg/kg dry
Aroclor-1254	SW 846 8082	12/21/17 10:17	12/28/17 23:01	ND	U	0.0441	1.24	mg/kg dry
Aroclor-1260	**SW 846 8082**	12/21/17 10:17	12/28/17 23:01	**30.6**	**D**	**0.0326**	**1.24**	mg/kg dry
Aroclor-1262	SW 846 8082	12/21/17 10:17	12/28/17 23:01	ND	U	0.0478	1.24	mg/kg dry
Aroclor-1268	SW 846 8082	12/21/17 10:17	12/28/17 23:01	ND	U	0.0250	1.24	mg/kg dry
Total PCBs	**SW 846 8082**	12/21/17 10:17	12/28/17 23:01	**30.6**	**D**	**0.0221**	**1.24**	mg/kg dry

FootNotes

RL - Reporting limit
MDL - Minimum detection limit
ND - Indicates compound analyzed for but not detected
J - Indicates estimated value

B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
H - Indicates a Hold Time violation

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Analytical Results Summary

CAT-423

7120638-16 (Paint Chips)

CAT423-Base-PC-12

Collected	Received	Contact
12/19/2017 13:20	12/20/2017 15:50	Michael Wellock

Lab Section/ Analysis	Method	Prepared	Analyzed	Result	Qual	MDL	RL	Units
General Chemistry								
Percent Solids	**Gravimetric**	12/20/17 18:35	12/20/17 18:36	**100**				%
Total Metals								
Lead	**SW 846 6010C**	01/05/18 10:30	01/08/18 11:39	**472**			**12.5**	mg/kg dry
PCBs								
Aroclor-1016	SW 846 8082	12/21/17 10:17	12/27/17 20:41	ND	U	0.00441	0.248	mg/kg dry
Aroclor-1221	SW 846 8082	12/21/17 10:17	12/27/17 20:41	ND	U	0.00762	0.248	mg/kg dry
Aroclor-1232	SW 846 8082	12/21/17 10:17	12/27/17 20:41	ND	U	0.00583	0.248	mg/kg dry
Aroclor-1242	SW 846 8082	12/21/17 10:17	12/27/17 20:41	ND	U	0.00840	0.248	mg/kg dry
Aroclor-1248	SW 846 8082	12/21/17 10:17	12/27/17 20:41	ND	U	0.00581	0.248	mg/kg dry
Aroclor-1254	**SW 846 8082**	12/21/17 10:17	12/27/17 20:41	**0.282**		**0.00883**	**0.248**	mg/kg dry
Aroclor-1260	**SW 846 8082**	12/21/17 10:17	12/27/17 20:41	**0.204**	**J**	**0.00941**	**0.248**	mg/kg dry
Aroclor-1262	SW 846 8082	12/21/17 10:17	12/27/17 20:41	ND	U	0.00956	0.248	mg/kg dry
Aroclor-1268	SW 846 8082	12/21/17 10:17	12/27/17 20:41	ND	U	0.00500	0.248	mg/kg dry
Total PCBs	**SW 846 8082**	12/21/17 10:17	12/27/17 20:41	**0.485**		**0.00441**	**0.248**	mg/kg dry

FootNotes

RL - Reporting limit
MDL - Minimum detection limit
ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
H - Indicates a Hold Time violation

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Analytical Results Summary

CAT-423

7120638-17 (Paint Chips)

CAT423-Base-PC-13

Collected	Received	Contact
12/19/2017 13:40	12/20/2017 15:50	Michael Wellock

Lab Section/ Analysis	Method	Prepared	Analyzed	Result	Qual	MDL	RL	Units
General Chemistry								
Percent Solids	**Gravimetric**	12/20/17 18:35	12/20/17 18:36	**100**				%
Total Metals								
Lead	**SW 846 6010C**	01/05/18 10:30	01/08/18 11:55	**26800**			**125**	mg/kg dry
PCBs								
Aroclor-1016	SW 846 8082	12/21/17 10:17	12/29/17 00:44	ND	U	0.0221	1.24	mg/kg dry
Aroclor-1221	SW 846 8082	12/21/17 10:17	12/29/17 00:44	ND	U	0.0381	1.24	mg/kg dry
Aroclor-1232	SW 846 8082	12/21/17 10:17	12/29/17 00:44	ND	U	0.0291	1.24	mg/kg dry
Aroclor-1242	SW 846 8082	12/21/17 10:17	12/29/17 00:44	ND	U	0.0420	1.24	mg/kg dry
Aroclor-1248	SW 846 8082	12/21/17 10:17	12/29/17 00:44	ND	U	0.0290	1.24	mg/kg dry
Aroclor-1254	**SW 846 8082**	12/21/17 10:17	12/29/17 00:44	**20.7**	**D**	**0.0441**	**1.24**	mg/kg dry
Aroclor-1260	SW 846 8082	12/21/17 10:17	12/29/17 00:44	ND	U	0.0326	1.24	mg/kg dry
Aroclor-1262	SW 846 8082	12/21/17 10:17	12/29/17 00:44	ND	U	0.0478	1.24	mg/kg dry
Aroclor-1268	SW 846 8082	12/21/17 10:17	12/29/17 00:44	ND	U	0.0250	1.24	mg/kg dry
Total PCBs	**SW 846 8082**	12/21/17 10:17	12/29/17 00:44	**20.7**	**D**	**0.0221**	**1.24**	mg/kg dry

FootNotes

RL - Reporting limit
MDL - Minimum detection limit
ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
H - Indicates a Hold Time violation

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Analytical Results Summary

CAT-423

7120638-18 (Paint Chips)

CAT423-Base-PC-14

Collected	Received	Contact
12/19/2017 14:00	12/20/2017 15:50	Michael Wellock

Lab Section/ Analysis	Method	Prepared	Analyzed	Result	Qual	MDL	RL	Units
General Chemistry								
Percent Solids	**Gravimetric**	12/20/17 18:35	12/20/17 18:36	**100**				%
Total Metals								
Lead	**SW 846 6010C**	01/05/18 10:30	01/08/18 11:47	**5490**			**12.5**	mg/kg dry
PCBs								
Aroclor-1016	SW 846 8082	12/21/17 10:17	12/28/17 23:52	ND	U	0.00441	0.248	mg/kg dry
Aroclor-1221	SW 846 8082	12/21/17 10:17	12/28/17 23:52	ND	U	0.00762	0.248	mg/kg dry
Aroclor-1232	SW 846 8082	12/21/17 10:17	12/28/17 23:52	ND	U	0.00583	0.248	mg/kg dry
Aroclor-1242	SW 846 8082	12/21/17 10:17	12/28/17 23:52	ND	U	0.00840	0.248	mg/kg dry
Aroclor-1248	SW 846 8082	12/21/17 10:17	12/28/17 23:52	ND	U	0.00581	0.248	mg/kg dry
Aroclor-1254	**SW 846 8082**	12/21/17 10:17	12/28/17 23:52	**6.16**		**0.00883**	**0.248**	mg/kg dry
Aroclor-1260	SW 846 8082	12/21/17 10:17	12/28/17 23:52	ND	U	0.00653	0.248	mg/kg dry
Aroclor-1262	SW 846 8082	12/21/17 10:17	12/28/17 23:52	ND	U	0.00956	0.248	mg/kg dry
Aroclor-1268	SW 846 8082	12/21/17 10:17	12/28/17 23:52	ND	U	0.00500	0.248	mg/kg dry
Total PCBs	**SW 846 8082**	12/21/17 10:17	12/28/17 23:52	**6.16**		**0.00441**	**0.248**	mg/kg dry

FootNotes

RL - Reporting limit
MDL - Minimum detection limit
ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
H - Indicates a Hold Time violation

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Analytical Results Summary

CAT-423

7120638-19 (Paint Chips)

CAT423-Base-PC-15

Collected	Received	Contact
12/19/2017 14:20	12/20/2017 15:50	Michael Wellock

Lab Section/ Analysis	Method	Prepared	Analyzed	Result	Qual	MDL	RL	Units
General Chemistry								
Percent Solids	**Gravimetric**	12/20/17 18:35	12/20/17 18:36	**100**				%
Total Metals								
Lead	**SW 846 6010C**	01/05/18 10:30	01/08/18 11:51	**2810**			**12.5**	mg/kg dry
PCBs								
Aroclor-1016	SW 846 8082	12/21/17 10:17	12/29/17 18:46	ND	U	0.0221	1.24	mg/kg dry
Aroclor-1221	SW 846 8082	12/21/17 10:17	12/29/17 18:46	ND	U	0.0381	1.24	mg/kg dry
Aroclor-1232	SW 846 8082	12/21/17 10:17	12/29/17 18:46	ND	U	0.0291	1.24	mg/kg dry
Aroclor-1242	SW 846 8082	12/21/17 10:17	12/29/17 18:46	ND	U	0.0420	1.24	mg/kg dry
Aroclor-1248	SW 846 8082	12/21/17 10:17	12/29/17 18:46	ND	U	0.0290	1.24	mg/kg dry
Aroclor-1254	**SW 846 8082**	12/21/17 10:17	12/29/17 18:46	**22.0**	**D**	**0.0441**	**1.24**	mg/kg dry
Aroclor-1260	SW 846 8082	12/21/17 10:17	12/29/17 18:46	ND	U	0.0326	1.24	mg/kg dry
Aroclor-1262	SW 846 8082	12/21/17 10:17	12/29/17 18:46	ND	U	0.0478	1.24	mg/kg dry
Aroclor-1268	SW 846 8082	12/21/17 10:17	12/29/17 18:46	ND	U	0.0250	1.24	mg/kg dry
Total PCBs	**SW 846 8082**	12/21/17 10:17	12/29/17 18:46	**22.0**	**D**	**0.0221**	**1.24**	mg/kg dry

FootNotes

RL - Reporting limit
MDL - Minimum detection limit
ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
H - Indicates a Hold Time violation

Analytical Results Summary

CAT-423

7120638-20 (Solid)

CAT423-EXT-PCB-04

Collected	Received	Contact
12/19/2017 15:05	12/20/2017 15:50	Michael Wellock

Lab Section/ Analysis	Method	Prepared	Analyzed	Result	Qual	MDL	RL	Units
General Chemistry								
Percent Solids	**Gravimetric**	12/20/17 18:35	12/20/17 18:36	**100**				%
PCBs								
Aroclor-1016	SW 846 8082	12/21/17 10:17	01/03/18 18:11	ND	U	0.00441	0.248	mg/kg dry
Aroclor-1221	SW 846 8082	12/21/17 10:17	01/03/18 18:11	ND	U	0.00762	0.248	mg/kg dry
Aroclor-1232	SW 846 8082	12/21/17 10:17	01/03/18 18:11	ND	U	0.00583	0.248	mg/kg dry
Aroclor-1242	SW 846 8082	12/21/17 10:17	01/03/18 18:11	ND	U	0.00840	0.248	mg/kg dry
Aroclor-1248	SW 846 8082	12/21/17 10:17	01/03/18 18:11	ND	U	0.00581	0.248	mg/kg dry
Aroclor-1254	SW 846 8082	12/21/17 10:17	01/03/18 18:11	ND	U	0.00883	0.248	mg/kg dry
Aroclor-1260	SW 846 8082	12/21/17 10:17	01/03/18 18:11	ND	U	0.00653	0.248	mg/kg dry
Aroclor-1262	SW 846 8082	12/21/17 10:17	01/03/18 18:11	ND	U	0.00956	0.248	mg/kg dry
Aroclor-1268	SW 846 8082	12/21/17 10:17	01/03/18 18:11	ND	U	0.00500	0.248	mg/kg dry
Total PCBs	SW 846 8082	12/21/17 10:17	01/03/18 18:11	ND	U	0.00441	0.248	mg/kg dry

FootNotes

RL - Reporting limit
MDL - Minimum detection limit
ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
H - Indicates a Hold Time violation

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Analytical Results Summary

CAT-423

7120638-21 (Solid)

CAT423-Base-PCB-02

Collected	Received	Contact
12/19/2017 14:00	12/20/2017 15:50	Michael Wellock

Lab Section/ Analysis	Method	Prepared	Analyzed	Result	Qual	MDL	RL	Units
General Chemistry								
Percent Solids	**Gravimetric**	12/20/17 18:35	12/20/17 18:36	**100**				%
PCBs								
Aroclor-1016	SW 846 8082	12/21/17 10:17	01/03/18 18:37	ND	U	0.0118	0.660	mg/kg dry
Aroclor-1221	SW 846 8082	12/21/17 10:17	01/03/18 18:37	ND	U	0.0203	0.660	mg/kg dry
Aroclor-1232	SW 846 8082	12/21/17 10:17	01/03/18 18:37	ND	U	0.0155	0.660	mg/kg dry
Aroclor-1242	SW 846 8082	12/21/17 10:17	01/03/18 18:37	ND	U	0.0224	0.660	mg/kg dry
Aroclor-1248	SW 846 8082	12/21/17 10:17	01/03/18 18:37	ND	U	0.0155	0.660	mg/kg dry
Aroclor-1254	**SW 846 8082**	12/21/17 10:17	01/03/18 18:37	**13.1**	**D**	**0.0235**	**0.660**	mg/kg dry
Aroclor-1260	SW 846 8082	12/21/17 10:17	01/03/18 18:37	ND	U	0.0174	0.660	mg/kg dry
Aroclor-1262	SW 846 8082	12/21/17 10:17	01/03/18 18:37	ND	U	0.0255	0.660	mg/kg dry
Aroclor-1268	SW 846 8082	12/21/17 10:17	01/03/18 18:37	ND	U	0.0133	0.660	mg/kg dry
Total PCBs	**SW 846 8082**	12/21/17 10:17	01/03/18 18:37	**13.1**	**D**	**0.0118**	**0.660**	mg/kg dry

FootNotes

RL - Reporting limit
MDL - Minimum detection limit
ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
H - Indicates a Hold Time violation

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Analytical Results Summary

CAT-423

7120638-22 (Solid)

CAT423-Base-PCB-03

Collected	Received	Contact
12/19/2017 14:00	12/20/2017 15:50	Michael Wellock

Lab Section/ Analysis	Method	Prepared	Analyzed	Result	Qual	MDL	RL	Units
General Chemistry								
Percent Solids	**Gravimetric**	12/20/17 18:35	12/20/17 18:36	**100**				%
PCBs								
Aroclor-1016	SW 846 8082	12/21/17 10:17	01/02/18 21:23	ND	U	0.00441	0.248	mg/kg dry
Aroclor-1221	SW 846 8082	12/21/17 10:17	01/02/18 21:23	ND	U	0.00762	0.248	mg/kg dry
Aroclor-1232	SW 846 8082	12/21/17 10:17	01/02/18 21:23	ND	U	0.00583	0.248	mg/kg dry
Aroclor-1242	SW 846 8082	12/21/17 10:17	01/02/18 21:23	ND	U	0.00840	0.248	mg/kg dry
Aroclor-1248	SW 846 8082	12/21/17 10:17	01/02/18 21:23	ND	U	0.00581	0.248	mg/kg dry
Aroclor-1254	SW 846 8082	12/21/17 10:17	01/02/18 21:23	ND	U	0.00883	0.248	mg/kg dry
Aroclor-1260	SW 846 8082	12/21/17 10:17	01/02/18 21:23	ND	U	0.00653	0.248	mg/kg dry
Aroclor-1262	SW 846 8082	12/21/17 10:17	01/02/18 21:23	ND	U	0.00956	0.248	mg/kg dry
Aroclor-1268	SW 846 8082	12/21/17 10:17	01/02/18 21:23	ND	U	0.00500	0.248	mg/kg dry
Total PCBs	SW 846 8082	12/21/17 10:17	01/02/18 21:23	ND	U	0.00441	0.248	mg/kg dry

FootNotes

RL - Reporting limit
MDL - Minimum detection limit
ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
H - Indicates a Hold Time violation

APL 7120638

AQUA PRO-TECH LABORATORIES
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1275 BLOOMFIELD AVENUE • BUILDING 6
FAIRFIELD, NEW JERSEY 07004
TEL: 973.227.0422
FAX: 973.227.2813

CHAIN OF CUSTODY

CLIENT: BIDWELL	SEND REPORT TO:
ADDRESS: 1353 KINGS HIGHWAY SUGARLOAF, NY 10981	ADDRESS: SAME
PHONE: 845 610 3993	PHONE:
E-MAIL: MWELLOCK@BIDWELLENVIRONMENTAL.COM	FAX:
PROJECT NAME: CAT-423	SEND INVOICE TO: SAME
PROJECT MGR: MICHAEL WELLOCK	ADDRESS:
PROJECT or PO #:	SAMPLED BY:

TURN-AROUND TIME
- [x] APL STANDARD 2 weeks
- [ ] RUSH (choose one below)
  - [ ] 24 hr. date & time required
  - [ ] 48 hr. date & time required
  - [ ] 72 hr. date & time required
  - [ ] 1 week

REPORT FORMAT
- [ ] RESULTS ONLY
- [ ] NJ DEP REDUCED
- [ ] NJ DEP FULL
- [ ] STATE FORMS/E2 REPORTING

PWSID#

ELECTRONIC FORMAT
- [ ] EMAIL DELIVERY
- [ ] HAZSITE EDD
- [ ] EXCEL

SRP#

CONTAMINATION LEVEL
[ ] HIGH [ ] MEDIUM [ ] LOW

MATRIX ABBREVIATIONS: D - DRINKING WATER G - GROUNDWATER W - WASTEWATER S - SOIL SL - SLUDGE C - CONCRETE L - LAKE

APL Lab ID#	Sample Source: Field ID	Date	Time	Sample Type: GRAB	Sample Type: COMP	MATRIX	No. of Bottles	Preservative	Analysis Requested
7120638-01	CAT423-2ND-PC-01	12/18/17	7:25		X	P	1	✓	LEAD, PCBs (soxhlet)
-02	CAT423-2ND-PB-01	12/18/17	7:25	X		CB	1	✓	LEAD
-03	CAT423-2ND-PB-02	12/18/17	9:30	X		CB	1	✓	LEAD
-04	CAT423-2nd-PC-02	12/18/17	9:27		X	P	1	✓	Lead, PCBs (soxhlet)
-05	CAT423-2nd-PC-03	12/18/17	11:22		X	P	1	—	Lead, PCBs (soxhlet
-06	CAT423-2nd-PC-04	12/18/17	11:30		X	P	1	—	Lead, PCBs (soxhlet)
-07	CAT423-2nd-PC-05	12/18/17	11:50		X	P	1	✓	Lead, PCBs (soxhlet)
-08	CAT423-2nd-PC-06	12/18/17	12:28		X	P	1	—	Lead, PCBs (soxhlet)
-09	CAT423-ATT-PC-07	12/18/17	1416		X	P	1	—	Lead, PCBs (soxhlet)

RELINQUISHED BY (Print) MICHAEL WELLOCK	DATE 12/20/17	RECEIVED BY (Print) Greg Schmegner	
Signature	Time 1325	Signature	
RELINQUISHED BY (Print) Greg Schmegner	DATE 12/20/17	RECEIVED BY (Print)	
Signature	Time 1550	Signature	
RELINQUISHED BY (Print)	DATE	RECEIVED BY (Print)	
Signature	Time	Signature	

COMMENTS/SPECIAL INSTRUCTIONS CB - COVEBASE
P - Paint chip

Cooler Temp. upon receipt at lab 2.8°C

CERTIFICATIONS: NELAP (National Environmental Laboratory Accredation Program) NJDEP #07010 PADEP #68-02903 NYDOH #11634 CTPH #0233 US ARMY

By signing this Chain of Custody Agreement, customer expressly agrees to pay APL for all charges, reasonably incurred in connection with analysis and reporting for these samples

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www.aquaprotechlabs.com

1275 BLOOMFIELD AVENUE • BUILDING 6
FAIRFIELD, NEW JERSEY 07004

TEL: 973.227.0422
FAX: 973.227.2813

CHAIN OF CUSTODY

CLIENT: BIDWELL	SEND REPORT TO:
ADDRESS: 1353 KINGS HIGHWAY	ADDRESS: SAME
SUGAR LOAF, NY 10981	
PHONE: 845 610 3993	PHONE:
E-MAIL: MWELLOCK@B	FAX:
PROJECT NAME: CAT 423	SEND INVOICE TO: SAME
PROJECT MGR: MICHAEL WELLOCK	ADDRESS:
PROJECT or PO #:	SAMPLED BY:

TURN-AROUND TIME
- [X] APL STANDARD 2 weeks
- [ ] RUSH (choose one below)
  - [ ] 24 hr. date & time required
  - [ ] 48 hr. date & time required
  - [ ] 72 hr. date & time required
  - [ ] 1 week

REPORT FORMAT
- [ ] RESULTS ONLY
- [ ] NJ DEP REDUCED
- [ ] NJ DEP FULL
- [ ] STATE FORMS/E2 REPORTING

ELECTRONIC FORMAT
- [ ] EMAIL DELIVERY
- [ ] HAZSITE EDD
- [ ] EXCEL

SRP#
PWSID#

CONTAMINATION LEVEL
[ ] HIGH [ ] MEDIUM [ ] LOW

MATRIX ABBREVIATIONS: D - DRINKING WATER G - GROUNDWATER W - WASTEWATER S - SOIL SL - SLUDGE C - CONCRETE L - LAKE

APL Lab ID#	Sample Source: Field ID	Date	Time	Sample Type GRAB	Sample Type COMP	MATRIX	No. of Bottles	Preservative	Analysis Requested
7120638-10	CAT423-ATT-PC-08	12-18-17	1430		X	P	1	—	Lead, PCBs (Soxhlet)
-11	CAT423-1st-PB-03	12-19-17	0730		X	91	1	—	Lead
-12	CAT423-1st-PC-09	12-19-17	1030		X	P	1	—	Lead, PCBs (Soxhlet)
-13	CAT423-1st-PC-10	12-19-17	1110		X	P	1	—	Lead, PCBs (Soxhlet)
-14	CAT423-1ST-PCB-01	12/19/17	9:15		X	C	1	—	PCBs (Soxhlet)
-15	CAT423-Base-PC-11	12/19/17	1312		X	P	1	—	Lead, PCBs (Soxhlet)
-16	CAT423-Base-PC-12	12/19/17	1320		X	P	1	—	Lead, PCBs (Soxhlet)
-17	CAT423-Base-PC-13	12/19/17	1340		X	P	1	—	Lead, PCBs (Soxhlet)
-18	CAT423-Base-PC-14	12/19/17	1400		X	P	1	—	Lead, ~~Paint~~ M.K. PCBs (Soxhlet)

RELINQUISHED BY (Print) MICHAEL WELLOCK	DATE 12/20/17	RECEIVED BY (Print) Gary Schneyman	
Signature	Time 1325	Signature	
RELINQUISHED BY (Print) Gary Schneyman	DATE 12/20/17	RECEIVED BY (Print)	
Signature	Time 1550	Signature	
RELINQUISHED BY (Print)	DATE	RECEIVED BY (Print)	
Signature	Time	Signature	

COMMENTS/SPECIAL INSTRUCTIONS P = Paint chip C = CAULK
91 = Glaze

Cooler Temp. upon receipt at lab 2.8°C

CERTIFICATIONS: NELAP (National Environmental Laboratory Accredation Program) NJDEP #07010 PADEP #68-02903 NYDOH #11634 CTPH #0233 US ARMY

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CHAIN OF CUSTODY

CLIENT: BIDWELL	SEND REPORT TO:
ADDRESS: 1353 KINGS HIGHWAY SUGAR LOAF, NY 10981	ADDRESS: SAME
PHONE: 845 610 3993	PHONE:
E-MAIL: MWELLOCK@BIDWELLENVIRONMENTAL.COM	FAX:
PROJECT NAME: CAT 423	SEND INVOICE TO:
PROJECT MGR: MICHAEL WELLOCK	ADDRESS: SAME
PROJECT or PO #:	SAMPLED BY:

TURN-AROUND TIME
- [x] APL STANDARD 2 weeks
- [ ] RUSH (choose one below)
  - [ ] 24 hr. date & time required
  - [ ] 48 hr. date & time required
  - [ ] 72 hr. date & time required
  - [ ] 1 week

REPORT FORMAT
- [ ] RESULTS ONLY
- [ ] NJ DEP REDUCED
- [ ] NJ DEP FULL
- [ ] STATE FORMS/E2 REPORTING

PWSID#

ELECTRONIC FORMAT
- [ ] EMAIL DELIVERY
- [ ] HAZSITE EDD
- [ ] EXCEL

SRP#

CONTAMINATION LEVEL
[ ] HIGH [ ] MEDIUM [ ] LOW

MATRIX ABBREVIATIONS: D - DRINKING WATER G - GROUNDWATER W - WASTEWATER S - SOIL SL - SLUDGE C - CONCRETE L - LAKE

APL Lab ID#	Sample Source: Field ID	Date	Time	Sample Type GRAB	Sample Type COMP	MATRIX	No. of Bottles	Preservative	Analysis Requested
7120638 -19	CAT 423-Base-PC-15	12/19/17	1420		X	P	1	—	Lead, PCBs (soxhlet)
-20	CAT 423-EXT-PCB-04	12/19/17	1505		X	clk	1	—	PCBs (soxhlet)
	~~CAT 423-EXT-PCB-05~~ MW 02 MW	~~12/19/17~~	~~1505~~ 14:00 MW		X	C	1	—	PCBs (soxhlet)
-21	CAT 423-BASE-PCB-02	12/19/17	14:00	X		clk	1	—	PCBs (soxhlet)
-22	CAT 423-BASE-PCB-03	12/19/17	14:00	X		T	1	—	PCBs (soxhlet)

RELINQUISHED BY (Print) MICHAEL WELLOCK	DATE 12/20/17	RECEIVED BY (Print) Greg Schneyman	
Signature	Time 1325	Signature	
RELINQUISHED BY (Print) Greg Schneyman	DATE 12/20/17	RECEIVED BY (Print)	
Signature	Time 1550	Signature	
RELINQUISHED BY (Print)	DATE	RECEIVED BY (Print)	
Signature	Time	Signature	

COMMENTS/SPECIAL INSTRUCTIONS P = Paint Chip
clk = caulk, T = Tan

Cooler Temp. upon receipt at lab 2.8°C

CERTIFICATIONS: NELAP (National Environmental Laboratory Accredation Program) NJDEP #07010 PADEP #68-02903 NYDOH #11634 CTPH #0233 US ARMY

APL
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Certified Environmental Testing

ANALYTICAL RESULTS

STANDARD DELIVERABLES FORMAT

APL WORK ORDER NUMBER: 8010735

Bidwell Environmental

Project: CAT-423

Brian Wood
Laboratory Director

All Results meet the requirements of the National Environmental Laboratory Accreditation Conference and/or State specific certifications as applicable.

1275 Bloomfield Ave., Bldg. 6, Fairfield, New Jersey 07004
(t) 973.227.0422 (f) 973.227.2813 (w) www.aquaprotechlabs.com

NELAC National Environmental Laboratory Accreditation Conference
NJDEP #07010 / NYDOH #11634

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AQUA PRO-TECH LABORATORIES
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Analytical Results Summary

CAT-423

8010735-01 (Paint Chips)

CAT423-1ST-PC-16

Collected	Received	Contact
01/25/2018 09:00	01/26/2018 14:30	Michael Wellock

Lab Section/ Analysis	Method	Prepared	Analyzed	Result	Qual	MDL	RL	Units
General Chemistry								
Percent Solids	**Gravimetric**	01/26/18 17:10	01/26/18 17:10	**100**				%
Total Metals								
Lead	**SW 846 6010C**	02/10/18 09:15	02/12/18 14:34	**40.3**			**2.50**	mg/kg dry
PCBs								
Aroclor-1016	SW 846 8082	01/29/18 15:26	02/01/18 17:55	ND	U	0.00441	0.248	mg/kg dry
Aroclor-1221	SW 846 8082	01/29/18 15:26	02/01/18 17:55	ND	U	0.00762	0.248	mg/kg dry
Aroclor-1232	SW 846 8082	01/29/18 15:26	02/01/18 17:55	ND	U	0.00583	0.248	mg/kg dry
Aroclor-1242	SW 846 8082	01/29/18 15:26	02/01/18 17:55	ND	U	0.00840	0.248	mg/kg dry
Aroclor-1248	SW 846 8082	01/29/18 15:26	02/01/18 17:55	ND	U	0.00581	0.248	mg/kg dry
Aroclor-1254	SW 846 8082	01/29/18 15:26	02/01/18 17:55	ND	U	0.00883	0.248	mg/kg dry
Aroclor-1260	SW 846 8082	01/29/18 15:26	02/01/18 17:55	ND	U	0.00653	0.248	mg/kg dry
Aroclor-1262	SW 846 8082	01/29/18 15:26	02/01/18 17:55	ND	U	0.00956	0.248	mg/kg dry
Aroclor-1268	SW 846 8082	01/29/18 15:26	02/01/18 17:55	ND	U	0.00500	0.248	mg/kg dry
Total PCBs	SW 846 8082	01/29/18 15:26	02/01/18 17:55	ND	U	0.00441	0.248	mg/kg dry

FootNotes

RL - Reporting limit
MDL - Minimum detection limit
ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
H - Indicates a Hold Time violation

APL
AQUA PRO-TECH LABORATORIES
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Analytical Results Summary

CAT-423

8010735-02 (Paint Chips)

CAT423-1ST-PC-17

Collected	Received	Contact
01/25/2018 09:15	01/26/2018 14:30	Michael Wellock

Lab Section/ Analysis	Method	Prepared	Analyzed	Result	Qual	MDL	RL	Units
General Chemistry								
Percent Solids	**Gravimetric**	01/26/18 17:10	01/26/18 17:10	**100**				%
Total Metals								
Lead	**SW 846 6010C**	02/10/18 09:15	02/12/18 16:30	**126000**			**250**	mg/kg dry
PCBs								
Aroclor-1016	SW 846 8082	01/29/18 15:26	02/01/18 18:21	ND	U	0.00441	0.248	mg/kg dry
Aroclor-1221	SW 846 8082	01/29/18 15:26	02/01/18 18:21	ND	U	0.00762	0.248	mg/kg dry
Aroclor-1232	SW 846 8082	01/29/18 15:26	02/01/18 18:21	ND	U	0.00583	0.248	mg/kg dry
Aroclor-1242	SW 846 8082	01/29/18 15:26	02/01/18 18:21	ND	U	0.00840	0.248	mg/kg dry
Aroclor-1248	SW 846 8082	01/29/18 15:26	02/01/18 18:21	ND	U	0.00581	0.248	mg/kg dry
Aroclor-1254	SW 846 8082	01/29/18 15:26	02/01/18 18:21	ND	U	0.00883	0.248	mg/kg dry
Aroclor-1260	SW 846 8082	01/29/18 15:26	02/01/18 18:21	ND	U	0.00653	0.248	mg/kg dry
Aroclor-1262	SW 846 8082	01/29/18 15:26	02/01/18 18:21	ND	U	0.00956	0.248	mg/kg dry
Aroclor-1268	SW 846 8082	01/29/18 15:26	02/01/18 18:21	ND	U	0.00500	0.248	mg/kg dry
Total PCBs	SW 846 8082	01/29/18 15:26	02/01/18 18:21	ND	U	0.00441	0.248	mg/kg dry

FootNotes

RL - Reporting limit
MDL - Minimum detection limit
ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
H - Indicates a Hold Time violation

APL
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Analytical Results Summary

CAT-423

8010735-03 (Solid)

CAT423-1ST-PCB-05

Collected	Received	Contact
01/25/2018 09:25	01/26/2018 14:30	Michael Wellock

Lab Section/ Analysis	Method	Prepared	Analyzed	Result	Qual	MDL	RL	Units
General Chemistry								
Percent Solids	**Gravimetric**	01/26/18 17:10	01/26/18 17:10	**100**				%
PCBs								
Aroclor-1016	SW 846 8082	01/29/18 15:26	02/01/18 18:47	ND	U	0.00441	0.248	mg/kg dry
Aroclor-1221	SW 846 8082	01/29/18 15:26	02/01/18 18:47	ND	U	0.00762	0.248	mg/kg dry
Aroclor-1232	SW 846 8082	01/29/18 15:26	02/01/18 18:47	ND	U	0.00583	0.248	mg/kg dry
Aroclor-1242	SW 846 8082	01/29/18 15:26	02/01/18 18:47	ND	U	0.00840	0.248	mg/kg dry
Aroclor-1248	SW 846 8082	01/29/18 15:26	02/01/18 18:47	ND	U	0.00581	0.248	mg/kg dry
Aroclor-1254	SW 846 8082	01/29/18 15:26	02/01/18 18:47	ND	U	0.00883	0.248	mg/kg dry
Aroclor-1260	SW 846 8082	01/29/18 15:26	02/01/18 18:47	ND	U	0.00653	0.248	mg/kg dry
Aroclor-1262	SW 846 8082	01/29/18 15:26	02/01/18 18:47	ND	U	0.00956	0.248	mg/kg dry
Aroclor-1268	SW 846 8082	01/29/18 15:26	02/01/18 18:47	ND	U	0.00500	0.248	mg/kg dry
Total PCBs	SW 846 8082	01/29/18 15:26	02/01/18 18:47	ND	U	0.00441	0.248	mg/kg dry

FootNotes

RL - Reporting limit
MDL - Minimum detection limit
ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
H - Indicates a Hold Time violation

APL
AQUA PRO-TECH LABORATORIES
Certified Environmental Testing

Analytical Results Summary

CAT-423

8010735-04 (Solid)

CAT423-1ST-PCB-06

Collected	Received	Contact
01/25/2018 09:30	01/26/2018 14:30	Michael Wellock

Lab Section/ Analysis	Method	Prepared	Analyzed	Result	Qual	MDL	RL	Units
General Chemistry								
Percent Solids	**Gravimetric**	01/26/18 17:10	01/26/18 17:10	**100**				%
PCBs								
Aroclor-1016	SW 846 8082	01/29/18 15:26	02/01/18 19:12	ND	U	0.00441	0.248	mg/kg dry
Aroclor-1221	SW 846 8082	01/29/18 15:26	02/01/18 19:12	ND	U	0.00762	0.248	mg/kg dry
Aroclor-1232	SW 846 8082	01/29/18 15:26	02/01/18 19:12	ND	U	0.00583	0.248	mg/kg dry
Aroclor-1242	SW 846 8082	01/29/18 15:26	02/01/18 19:12	ND	U	0.00840	0.248	mg/kg dry
Aroclor-1248	SW 846 8082	01/29/18 15:26	02/01/18 19:12	ND	U	0.00581	0.248	mg/kg dry
Aroclor-1254	SW 846 8082	01/29/18 15:26	02/01/18 19:12	ND	U	0.00883	0.248	mg/kg dry
Aroclor-1260	SW 846 8082	01/29/18 15:26	02/01/18 19:12	ND	U	0.00653	0.248	mg/kg dry
Aroclor-1262	SW 846 8082	01/29/18 15:26	02/01/18 19:12	ND	U	0.00956	0.248	mg/kg dry
Aroclor-1268	SW 846 8082	01/29/18 15:26	02/01/18 19:12	ND	U	0.00500	0.248	mg/kg dry
Total PCBs	SW 846 8082	01/29/18 15:26	02/01/18 19:12	ND	U	0.00441	0.248	mg/kg dry

FootNotes

RL - Reporting limit
MDL - Minimum detection limit
ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
H - Indicates a Hold Time violation

APL
AQUA PRO-TECH LABORATORIES
Certified Environmental Testing

Analytical Results Summary

CAT-423

8010735-05 (Solid)

CAT423-EXT-PCB-07

Collected	Received	Contact
01/25/2018 10:45	01/26/2018 14:30	Michael Wellock

Lab Section/ Analysis	Method	Prepared	Analyzed	Result	Qual	MDL	RL	Units
General Chemistry								
Percent Solids	**Gravimetric**	01/26/18 17:10	01/26/18 17:10	**100**				%
PCBs								
Aroclor-1016	SW 846 8082	01/29/18 15:26	02/04/18 14:32	ND	U	0.00441	0.248	mg/kg dry
Aroclor-1221	SW 846 8082	01/29/18 15:26	02/04/18 14:32	ND	U	0.00762	0.248	mg/kg dry
Aroclor-1232	SW 846 8082	01/29/18 15:26	02/04/18 14:32	ND	U	0.00583	0.248	mg/kg dry
Aroclor-1242	SW 846 8082	01/29/18 15:26	02/04/18 14:32	ND	U	0.00840	0.248	mg/kg dry
Aroclor-1248	SW 846 8082	01/29/18 15:26	02/04/18 14:32	ND	U	0.00581	0.248	mg/kg dry
Aroclor-1254	SW 846 8082	01/29/18 15:26	02/04/18 14:32	ND	U	0.00883	0.248	mg/kg dry
Aroclor-1260	SW 846 8082	01/29/18 15:26	02/04/18 14:32	ND	U	0.00653	0.248	mg/kg dry
Aroclor-1262	SW 846 8082	01/29/18 15:26	02/04/18 14:32	ND	U	0.00956	0.248	mg/kg dry
Aroclor-1268	SW 846 8082	01/29/18 15:26	02/04/18 14:32	ND	U	0.00500	0.248	mg/kg dry
Total PCBs	SW 846 8082	01/29/18 15:26	02/04/18 14:32	ND	U	0.00441	0.248	mg/kg dry

FootNotes

RL - Reporting limit
MDL - Minimum detection limit
ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
H - Indicates a Hold Time violation

APL
AQUA PRO-TECH LABORATORIES
Certified Environmental Testing

Analytical Results Summary

CAT-423

8010735-06 (Solid)

CAT423-EXT-PCB-08

Collected	Received	Contact
01/25/2018 11:00	01/26/2018 14:30	Michael Wellock

Lab Section/ Analysis	Method	Prepared	Analyzed	Result	Qual	MDL	RL	Units
General Chemistry								
Percent Solids	**Gravimetric**	01/26/18 17:11	01/29/18 10:57	**68.6**				%
PCBs								
Aroclor-1016	SW 846 8082	01/29/18 15:26	02/04/18 16:40	ND	U	0.00643	0.361	mg/kg dry
Aroclor-1221	SW 846 8082	01/29/18 15:26	02/04/18 16:40	ND	U	0.0111	0.361	mg/kg dry
Aroclor-1232	SW 846 8082	01/29/18 15:26	02/04/18 16:40	ND	U	0.00850	0.361	mg/kg dry
Aroclor-1242	SW 846 8082	01/29/18 15:26	02/04/18 16:40	ND	U	0.0122	0.361	mg/kg dry
Aroclor-1248	SW 846 8082	01/29/18 15:26	02/04/18 16:40	ND	U	0.00846	0.361	mg/kg dry
Aroclor-1254	SW 846 8082	01/29/18 15:26	02/04/18 16:40	ND	U	0.0129	0.361	mg/kg dry
Aroclor-1260	SW 846 8082	01/29/18 15:26	02/04/18 16:40	ND	U	0.00951	0.361	mg/kg dry
Aroclor-1262	SW 846 8082	01/29/18 15:26	02/04/18 16:40	ND	U	0.0139	0.361	mg/kg dry
Aroclor-1268	SW 846 8082	01/29/18 15:26	02/04/18 16:40	ND	U	0.00729	0.361	mg/kg dry
Total PCBs	SW 846 8082	01/29/18 15:26	02/04/18 16:40	ND	U	0.00643	0.361	mg/kg dry

FootNotes

RL - Reporting limit
MDL - Minimum detection limit
ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
H - Indicates a Hold Time violation

APL
AQUA PRO-TECH LABORATORIES
Certified Environmental Testing

Analytical Results Summary

CAT-423

8010735-07 (Solid)

CAT423-EXT-PCB-09

Collected	Received	Contact
01/25/2018 11:15	01/26/2018 14:30	Michael Wellock

Lab Section/ Analysis	Method	Prepared	Analyzed	Result	Qual	MDL	RL	Units
General Chemistry								
Percent Solids	**Gravimetric**	01/26/18 17:10	01/26/18 17:10	**100**				%
PCBs								
Aroclor-1016	SW 846 8082	01/29/18 15:26	02/04/18 14:58	ND	U	0.00441	0.248	mg/kg dry
Aroclor-1221	SW 846 8082	01/29/18 15:26	02/04/18 14:58	ND	U	0.00762	0.248	mg/kg dry
Aroclor-1232	SW 846 8082	01/29/18 15:26	02/04/18 14:58	ND	U	0.00583	0.248	mg/kg dry
Aroclor-1242	SW 846 8082	01/29/18 15:26	02/04/18 14:58	ND	U	0.00840	0.248	mg/kg dry
Aroclor-1248	SW 846 8082	01/29/18 15:26	02/04/18 14:58	ND	U	0.00581	0.248	mg/kg dry
Aroclor-1254	SW 846 8082	01/29/18 15:26	02/04/18 14:58	ND	U	0.00883	0.248	mg/kg dry
Aroclor-1260	SW 846 8082	01/29/18 15:26	02/04/18 14:58	ND	U	0.00653	0.248	mg/kg dry
Aroclor-1262	SW 846 8082	01/29/18 15:26	02/04/18 14:58	ND	U	0.00956	0.248	mg/kg dry
Aroclor-1268	SW 846 8082	01/29/18 15:26	02/04/18 14:58	ND	U	0.00500	0.248	mg/kg dry
Total PCBs	SW 846 8082	01/29/18 15:26	02/04/18 14:58	ND	U	0.00441	0.248	mg/kg dry

FootNotes

RL - Reporting limit
MDL - Minimum detection limit
ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
H - Indicates a Hold Time violation

APL
AQUA PRO-TECH LABORATORIES
Certified Environmental Testing

Analytical Results Summary

CAT-423

8010735-08 (Paint Chips)

CAT423-BASE-PC-18

Collected	Received	Contact
01/25/2018 12:00	01/26/2018 14:30	Michael Wellock

Lab Section/ Analysis	Method	Prepared	Analyzed	Result	Qual	MDL	RL	Units
General Chemistry								
Percent Solids	**Gravimetric**	01/26/18 17:10	01/26/18 17:10	**100**				%
Total Metals								
Lead	**SW 846 6010C**	02/10/18 09:15	02/12/18 15:16	**310000**			**2500**	mg/kg dry
PCBs								
Aroclor-1016	SW 846 8082	01/29/18 15:26	02/05/18 12:08	ND	U	0.0441	2.48	mg/kg dry
Aroclor-1221	SW 846 8082	01/29/18 15:26	02/05/18 12:08	ND	U	0.0762	2.48	mg/kg dry
Aroclor-1232	SW 846 8082	01/29/18 15:26	02/05/18 12:08	ND	U	0.0583	2.48	mg/kg dry
Aroclor-1242	SW 846 8082	01/29/18 15:26	02/05/18 12:08	ND	U	0.0840	2.48	mg/kg dry
Aroclor-1248	SW 846 8082	01/29/18 15:26	02/05/18 12:08	ND	U	0.0581	2.48	mg/kg dry
Aroclor-1254	**SW 846 8082**	01/29/18 15:26	02/05/18 12:08	**52.7**	**D**	**0.0883**	**2.48**	mg/kg dry
Aroclor-1260	SW 846 8082	01/29/18 15:26	02/05/18 12:08	ND	U	0.0653	2.48	mg/kg dry
Aroclor-1262	SW 846 8082	01/29/18 15:26	02/05/18 12:08	ND	U	0.0956	2.48	mg/kg dry
Aroclor-1268	SW 846 8082	01/29/18 15:26	02/05/18 12:08	ND	U	0.0500	2.48	mg/kg dry
Total PCBs	**SW 846 8082**	01/29/18 15:26	02/05/18 12:08	**52.7**	**D**	**0.0441**	**2.48**	mg/kg dry

FootNotes

RL - Reporting limit
MDL - Minimum detection limit
ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
H - Indicates a Hold Time violation

APL
AQUA PRO-TECH LABORATORIES
Certified Environmental Testing

Analytical Results Summary

CAT-423

8010735-09 (Paint Chips)

CAT423-BASE-PC-19

Collected	Received	Contact
01/25/2018 12:05	01/26/2018 14:30	Michael Wellock

Lab Section/ Analysis	Method	Prepared	Analyzed	Result	Qual	MDL	RL	Units
General Chemistry								
Percent Solids	**Gravimetric**	01/26/18 17:10	01/26/18 17:10	**100**				%
Total Metals								
Lead	**SW 846 6010C**	02/10/18 09:15	02/12/18 15:39	**533000**			**2500**	mg/kg dry
PCBs								
Aroclor-1016	SW 846 8082	01/29/18 15:26	02/09/18 12:21	ND	U	0.0882	4.95	mg/kg dry
Aroclor-1221	SW 846 8082	01/29/18 15:26	02/09/18 12:21	ND	U	0.152	4.95	mg/kg dry
Aroclor-1232	SW 846 8082	01/29/18 15:26	02/09/18 12:21	ND	U	0.117	4.95	mg/kg dry
Aroclor-1242	SW 846 8082	01/29/18 15:26	02/09/18 12:21	ND	U	0.168	4.95	mg/kg dry
Aroclor-1248	SW 846 8082	01/29/18 15:26	02/09/18 12:21	ND	U	0.116	4.95	mg/kg dry
Aroclor-1254	**SW 846 8082**	01/29/18 15:26	02/09/18 12:21	**128**	**D**	**0.177**	**4.95**	mg/kg dry
Aroclor-1260	SW 846 8082	01/29/18 15:26	02/09/18 12:21	ND	U	0.130	4.95	mg/kg dry
Aroclor-1262	SW 846 8082	01/29/18 15:26	02/09/18 12:21	ND	U	0.191	4.95	mg/kg dry
Aroclor-1268	SW 846 8082	01/29/18 15:26	02/09/18 12:21	ND	U	0.100	4.95	mg/kg dry
Total PCBs	**SW 846 8082**	01/29/18 15:26	02/09/18 12:21	**128**	**D**	**0.0882**	**4.95**	mg/kg dry

FootNotes

RL - Reporting limit
MDL - Minimum detection limit
ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
H - Indicates a Hold Time violation

APL
AQUA PRO-TECH LABORATORIES
Certified Environmental Testing

Analytical Results Summary

CAT-423

8010735-10 (Paint Chips)

CAT423-BASE-PC-20

Collected	Received	Contact
01/25/2018 12:25	01/26/2018 14:30	Michael Wellock

Lab Section/ Analysis	Method	Prepared	Analyzed	Result	Qual	MDL	RL	Units
General Chemistry								
Percent Solids	**Gravimetric**	01/26/18 17:10	01/26/18 17:10	**100**				%
Total Metals								
Lead	**SW 846 6010C**	02/10/18 09:15	02/12/18 15:42	**634000**			**2500**	mg/kg dry
PCBs								
Aroclor-1016	SW 846 8082	01/29/18 15:26	02/09/18 10:38	ND	U	0.00441	0.248	mg/kg dry
Aroclor-1221	SW 846 8082	01/29/18 15:26	02/09/18 10:38	ND	U	0.00762	0.248	mg/kg dry
Aroclor-1232	SW 846 8082	01/29/18 15:26	02/09/18 10:38	ND	U	0.00583	0.248	mg/kg dry
Aroclor-1242	SW 846 8082	01/29/18 15:26	02/09/18 10:38	ND	U	0.00840	0.248	mg/kg dry
Aroclor-1248	SW 846 8082	01/29/18 15:26	02/09/18 10:38	ND	U	0.00581	0.248	mg/kg dry
Aroclor-1254	**SW 846 8082**	01/29/18 15:26	02/09/18 10:38	**5.19**		**0.00883**	**0.248**	mg/kg dry
Aroclor-1260	SW 846 8082	01/29/18 15:26	02/09/18 10:38	ND	U	0.00653	0.248	mg/kg dry
Aroclor-1262	SW 846 8082	01/29/18 15:26	02/09/18 10:38	ND	U	0.00956	0.248	mg/kg dry
Aroclor-1268	SW 846 8082	01/29/18 15:26	02/09/18 10:38	ND	U	0.00500	0.248	mg/kg dry
Total PCBs	**SW 846 8082**	01/29/18 15:26	02/09/18 10:38	**5.19**		**0.00441**	**0.248**	mg/kg dry

FootNotes

RL - Reporting limit
MDL - Minimum detection limit
ND - Indicates compound analyzed for but not detected
J - Indicates estimated value

B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
H - Indicates a Hold Time violation

APL
AQUA PRO-TECH LABORATORIES
Certified Environmental Testing

Analytical Results Summary

CAT-423

8010735-11 (Paint Chips)

CAT423-BASE-PC-21

Collected	Received	Contact
01/25/2018 12:30	01/26/2018 14:30	Michael Wellock

Lab Section/ Analysis	Method	Prepared	Analyzed	Result	Qual	MDL	RL	Units
General Chemistry								
Percent Solids	**Gravimetric**	01/26/18 17:10	01/26/18 17:10	**100**				%
Total Metals								
Lead	**SW 846 6010C**	02/10/18 09:15	02/12/18 14:52	**9900**			**312**	mg/kg dry
PCBs								
Aroclor-1016	SW 846 8082	01/29/18 15:26	02/09/18 12:46	ND	U	1.18	66.0	mg/kg dry
Aroclor-1221	SW 846 8082	01/29/18 15:26	02/09/18 12:46	ND	U	2.03	66.0	mg/kg dry
Aroclor-1232	SW 846 8082	01/29/18 15:26	02/09/18 12:46	ND	U	1.55	66.0	mg/kg dry
Aroclor-1242	SW 846 8082	01/29/18 15:26	02/09/18 12:46	ND	U	2.24	66.0	mg/kg dry
Aroclor-1248	SW 846 8082	01/29/18 15:26	02/09/18 12:46	ND	U	1.55	66.0	mg/kg dry
Aroclor-1254	**SW 846 8082**	01/29/18 15:26	02/09/18 12:46	**702**	**D**	**2.35**	**66.0**	mg/kg dry
Aroclor-1260	SW 846 8082	01/29/18 15:26	02/09/18 12:46	ND	U	1.74	66.0	mg/kg dry
Aroclor-1262	SW 846 8082	01/29/18 15:26	02/09/18 12:46	ND	U	2.55	66.0	mg/kg dry
Aroclor-1268	SW 846 8082	01/29/18 15:26	02/09/18 12:46	ND	U	1.33	66.0	mg/kg dry
Total PCBs	**SW 846 8082**	01/29/18 15:26	02/09/18 12:46	**702**	**D**	**1.18**	**66.0**	mg/kg dry

FootNotes

RL - Reporting limit
MDL - Minimum detection limit
ND - Indicates compound analyzed for but not detected
J - Indicates estimated value

B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
H - Indicates a Hold Time violation

APL
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Analytical Results Summary

CAT-423

8010735-12 (Paint Chips)

CAT423-BASE-PC-22

Collected	Received	Contact
01/25/2018 12:40	01/26/2018 14:30	Michael Wellock

Lab Section/ Analysis	Method	Prepared	Analyzed	Result	Qual	MDL	RL	Units
General Chemistry								
Percent Solids	**Gravimetric**	01/26/18 17:10	01/26/18 17:10	**100**				%
Total Metals								
Lead	**SW 846 6010C**	02/10/18 09:15	02/12/18 15:24	**67600**			**250**	mg/kg dry
PCBs								
Aroclor-1016	SW 846 8082	01/29/18 15:26	02/09/18 13:12	ND	U	0.221	12.4	mg/kg dry
Aroclor-1221	SW 846 8082	01/29/18 15:26	02/09/18 13:12	ND	U	0.381	12.4	mg/kg dry
Aroclor-1232	SW 846 8082	01/29/18 15:26	02/09/18 13:12	ND	U	0.291	12.4	mg/kg dry
Aroclor-1242	SW 846 8082	01/29/18 15:26	02/09/18 13:12	ND	U	0.420	12.4	mg/kg dry
Aroclor-1248	SW 846 8082	01/29/18 15:26	02/09/18 13:12	ND	U	0.290	12.4	mg/kg dry
Aroclor-1254	**SW 846 8082**	01/29/18 15:26	02/09/18 13:12	**145**	**D**	**0.441**	**12.4**	mg/kg dry
Aroclor-1260	SW 846 8082	01/29/18 15:26	02/09/18 13:12	ND	U	0.326	12.4	mg/kg dry
Aroclor-1262	SW 846 8082	01/29/18 15:26	02/09/18 13:12	ND	U	0.478	12.4	mg/kg dry
Aroclor-1268	SW 846 8082	01/29/18 15:26	02/09/18 13:12	ND	U	0.250	12.4	mg/kg dry
Total PCBs	**SW 846 8082**	01/29/18 15:26	02/09/18 13:12	**145**	**D**	**0.221**	**12.4**	mg/kg dry

FootNotes

RL - Reporting limit
MDL - Minimum detection limit
ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
H - Indicates a Hold Time violation

APL
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Analytical Results Summary

CAT-423

8010735-13 (Solid)

CAT423-BASE-PCB-10

Collected	Received	Contact
01/25/2018 12:45	01/26/2018 14:30	Michael Wellock

Lab Section/ Analysis	Method	Prepared	Analyzed	Result	Qual	MDL	RL	Units
General Chemistry								
Percent Solids	**Gravimetric**	01/26/18 17:10	01/26/18 17:10	**100**				%
PCBs								
Aroclor-1016	SW 846 8082	01/29/18 15:26	02/13/18 09:39	ND	U	0.00441	0.248	mg/kg dry
Aroclor-1221	SW 846 8082	01/29/18 15:26	02/13/18 09:39	ND	U	0.00762	0.248	mg/kg dry
Aroclor-1232	SW 846 8082	01/29/18 15:26	02/13/18 09:39	ND	U	0.00583	0.248	mg/kg dry
Aroclor-1242	SW 846 8082	01/29/18 15:26	02/13/18 09:39	ND	U	0.00840	0.248	mg/kg dry
Aroclor-1248	SW 846 8082	01/29/18 15:26	02/13/18 09:39	ND	U	0.00581	0.248	mg/kg dry
Aroclor-1254	SW 846 8082	01/29/18 15:26	02/13/18 09:39	ND	U	0.00883	0.248	mg/kg dry
Aroclor-1260	SW 846 8082	01/29/18 15:26	02/13/18 09:39	ND	U	0.00653	0.248	mg/kg dry
Aroclor-1262	SW 846 8082	01/29/18 15:26	02/13/18 09:39	ND	U	0.00956	0.248	mg/kg dry
Aroclor-1268	SW 846 8082	01/29/18 15:26	02/13/18 09:39	ND	U	0.00500	0.248	mg/kg dry
Total PCBs	SW 846 8082	01/29/18 15:26	02/13/18 09:39	ND	U	0.00441	0.248	mg/kg dry

FootNotes

RL - Reporting limit
MDL - Minimum detection limit
ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
H - Indicates a Hold Time violation

APL 8010735

AQUA PRO-TECH LABORATORIES

www.aquaprotechlabs.com

1275 BLOOMFIELD AVENUE • BUILDING 6
FAIRFIELD, NEW JERSEY 07004

TEL: 973.227.0422
FAX: 973.227.2813

CHAIN OF CUSTODY

CLIENT: BIDWELL	SEND REPORT TO:
ADDRESS: 1353 KINGS HIGHWAY	ADDRESS:
SUGAR LOAF, NY 10981	SAME
PHONE: 845 610 3993	PHONE:
E-MAIL: MWELLOCK@BIDWELLENVIRONMENTAL.COM	FAX:
PROJECT NAME: CAT-423	SEND INVOICE TO:
PROJECT MGR: MICHAEL WELLOCK	ADDRESS: SAME
PROJECT or PO #: 21704	SAMPLED BY:

TURN-AROUND TIME

- [x] APL STANDARD 2 weeks
- [ ] RUSH (choose one below)
  - [ ] 24 hr. date & time required
  - [ ] 48 hr. date & time required
  - [ ] 72 hr. date & time required
  - [ ] 1 week

REPORT FORMAT

- [ ] RESULTS ONLY
- [ ] NJ DEP REDUCED
- [ ] NJ DEP FULL
- [ ] STATE FORMS/E2 REPORTING

PWSID#

ELECTRONIC FORMAT

- [ ] EMAIL DELIVERY
- [ ] HAZSITE EDD
- [ ] EXCEL

SRP#

CONTAMINATION LEVEL

[ ] HIGH [ ] MEDIUM [ ] LOW

MATRIX ABBREVIATIONS: D - DRINKING WATER G - GROUNDWATER W - WASTEWATER S - SOIL SL - SLUDGE C - CONCRETE L - LAKE

APL Lab ID#	Sample Source: Field ID	Date	Time	Sample Type: GRAB	Sample Type: COMP	MATRIX	No. of Bottles	Preservative	Analysis Requested
8010735-01	CAT423-1ST-PC-16	1/25/18	9:00	X		PC	1	—	LEAD, PCBs (soxhlet)
-02	CAT423-1ST-PC-17	1/25/18	9:15	X		PC	1	—	LEAD, PCBs (soxhlet)
-03	CAT423-1ST-PCB-05	1/25/18	9:25	X		CLK	1	—	PCBs (soxhlet)
-04	CAT423-1ST-PCB-06	1/25/18	9:30	X		CLK	1	—	PCBs (soxhlet)
-05	CAT423-~~1ST~~ EXT-PCB-07	1/25/18	10:45	X		CLK	1	—	PCBs (soxhlet)
-06	CAT423-EXT-PCB-08	1/25/18	11:00	X		CLK	1	—	PCBs (soxhlet)
-07	CAT423-EXT-PCB-09	1/25/18	11:15	X		CLK	1	—	PCBs (soxhlet)
-08	CAT423-BASE-PC-18	1-25-18	12:00	X		PC	1	—	lead, PCBs (soxhlet)
-09	CAT423-BASE-PC-19	1-25-18	12:05	X		PC	1	—	lead, PCBs (Soxhlet

RELINQUISHED BY (Print) MICHAEL WELLOCK	DATE 1/26/18	RECEIVED BY (Print) WGRy	
Signature M. Wellock	Time 10:00	Signature	
RELINQUISHED BY (Print) WGRy	DATE 1-26-18	RECEIVED BY (Print)	
Signature	Time 1430	Signature	
RELINQUISHED BY (Print)	DATE	RECEIVED BY (Print)	
Signature	Time	Signature	

COMMENTS/SPECIAL INSTRUCTIONS PC - PAINT CHIP
CLK - CAULK

Cooler Temp. upon receipt at lab 4

CERTIFICATIONS: NELAP (National Environmental Laboratory Accredation Program) NJDEP #07010 PADEP #68-02903 NYDOH #11634 CTPH #0233 US ARMY

By signing this Chain of Custody Agreement, customer expressly agrees to pay APL for all charges, reasonably incurred in connection with analysis and reporting for these samples

APL
AQUA PRO-TECH LABORATORIES
www.aquaprotechlabs.com

1275 BLOOMFIELD AVENUE • BUILDING 6
FAIRFIELD, NEW JERSEY 07004

TEL: 973.227.0422
FAX: 973.227.2813

CHAIN OF CUSTODY

CLIENT: BIDWELL	SEND REPORT TO:
ADDRESS: 1353 KINGS HIGHWAY SUGAR LOAF, NY 10981	ADDRESS:
PHONE: 845 610 3993	PHONE: SAME
E-MAIL: MWELLOCK@BIDWELLENVIRONMENTAL.COM	FAX:
PROJECT NAME: CAT-423	SEND INVOICE TO:
PROJECT MGR: MICHAEL WELLOCK	ADDRESS: SAME
PROJECT or PO #: 21704	SAMPLED BY:

TURN-AROUND TIME
- [x] APL STANDARD 2 weeks
- [ ] RUSH (choose one below)
  - [ ] 24 hr. date & time required
  - [ ] 48 hr. date & time required
  - [ ] 72 hr. date & time required
  - [ ] 1 week

REPORT FORMAT
- [ ] RESULTS ONLY
- [ ] NJ DEP REDUCED
- [ ] NJ DEP FULL
- [ ] STATE FORMS/E2 REPORTING

PWSID#

ELECTRONIC FORMAT
- [ ] EMAIL DELIVERY
- [ ] HAZSITE EDD
- [ ] EXCEL

SRP#

CONTAMINATION LEVEL
[ ] HIGH [ ] MEDIUM [ ] LOW

MATRIX ABBREVIATIONS: D - DRINKING WATER G - GROUNDWATER W - WASTEWATER S - SOIL SL - SLUDGE C - CONCRETE L - LAKE

APL Lab ID#	Sample Source: Field ID	Date	Time	Sample Type GRAB	Sample Type COMP	MATRIX	No. of Bottles	Preservative	Analysis Requested
80107 35 -10	CAT423-Base-PC-20	1-25-18	12:25	X		PC	1	/	Lead, PCBs (Soxhlet)
-11	CAT423-Base-PC-21	1-25-18	12:30	X		PC	1	/	Lead; PCBs (Soxhlet)
-12	CAT423-Base-PC-22	1-25-18	12:40	X		PC	1	/	Lead, PCBs (Soxhlet)
-13	CAT423-BASE-PCB-10	1/25/18	12:45	X		PAR	1	/	PCBs (Soxhlet)

RELINQUISHED BY (Print) MICHAEL WELLOCK	DATE 1/26/18	RECEIVED BY (Print) Work	
Signature	Time 10:00	Signature	
RELINQUISHED BY (Print) Work	DATE 1/26/18	RECEIVED BY (Print)	
Signature	Time 1430	Signature	
RELINQUISHED BY (Print)	DATE	RECEIVED BY (Print)	
Signature	Time	Signature	

COMMENTS/SPECIAL INSTRUCTIONS: PC = Paint chip

Cooler Temp. upon receipt at lab: 4

CERTIFICATIONS: NELAP (National Environmental Laboratory Accredation Program) NJDEP #07010 PADEP #68-02903 NYDOH #11634 CTPH #0233 US ARMY

By signing this Chain of Custody Agreement, customer expressly agrees to pay APL for all charges, reasonably incurred in connection with analysis and reporting for these samples

APL
AQUA PRO-TECH LABORATORIES
Certified Environmental Testing

ANALYTICAL RESULTS

STANDARD DELIVERABLES FORMAT

APL WORK ORDER NUMBER: 8030203

Bidwell Environmental

Project: Kensico

Brian Wood
Laboratory Director

All Results meet the requirements of the National Environmental Laboratory Accreditation Conference and/or State specific certifications as applicable.

1275 Bloomfield Ave., Bldg. 6, Fairfield, New Jersey 07004
(t) 973.227.0422 (f) 973.227.2813 (w) www.aquaprotechlabs.com

NELAC National Environmental Laboratory Accreditation Conference
NJDEP #07010 / NYDOH #11634

APL
AQUA PRO-TECH LABORATORIES
Certified Environmental Testing

Analytical Results Summary

Kensico

8030203-01 (Oil)

CAT423-1ST-PCB-11

Collected	Received	Contact
03/06/2018 06:30	03/08/2018 16:08	Michael Wellock

Lab Section/ Analysis	Method	Prepared	Analyzed	Result	Qual	MDL	RL	Units
PCBs								
Aroclor-1016	SW 846 8082	03/13/18 14:30	03/13/18 14:58	ND	U	168	500	ug/kg
Aroclor-1221	SW 846 8082	03/13/18 14:30	03/13/18 14:58	ND	U	309	500	ug/kg
Aroclor-1232	SW 846 8082	03/13/18 14:30	03/13/18 14:58	ND	U	255	500	ug/kg
Aroclor-1242	SW 846 8082	03/13/18 14:30	03/13/18 14:58	ND	U	231	500	ug/kg
Aroclor-1248	SW 846 8082	03/13/18 14:30	03/13/18 14:58	ND	U	141	500	ug/kg
Aroclor-1254	**SW 846 8082**	03/13/18 14:30	03/13/18 14:58	**7870**		**363**	**500**	ug/kg
Aroclor-1260	SW 846 8082	03/13/18 14:30	03/13/18 14:58	ND	U	153	500	ug/kg
Aroclor-1262	SW 846 8082	03/13/18 14:30	03/13/18 14:58	ND	U	80.0	500	ug/kg
Aroclor-1268	SW 846 8082	03/13/18 14:30	03/13/18 14:58	ND	U	102	500	ug/kg

FootNotes

RL - Reporting limit
MDL - Minimum detection limit
ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
H - Indicates a Hold Time violation

APL 8030203

AQUA PRO-TECH LABORATORIES

www.aquaprotechlabs.com

1275 BLOOMFIELD AVENUE • BUILDING 6
FAIRFIELD, NEW JERSEY 07004

TEL: 973.227.0422
FAX: 973.227.2813

CHAIN OF CUSTODY

CLIENT: Bidwell Environmental	SEND REPORT TO: "Same"
ADDRESS: 1353 Kings Highway Sugar Loaf, NY 10981	ADDRESS:
PHONE: (845)610-3993	PHONE: "Same"
E-MAIL: mwellock@bidwellenvironmental.com	FAX:
PROJECT NAME: Kensico	SEND INVOICE TO: "Same"
PROJECT MGR: Michael Wellock	ADDRESS:
PROJECT or PO #:	SAMPLED BY:

TURN-AROUND TIME

- [x] APL STANDARD 2 weeks
- [ ] RUSH (choose one below)
  - [ ] 24 hr. date & time required
  - [ ] 48 hr. date & time required
  - [ ] 72 hr. date & time required
  - [x] 1 week

REPORT FORMAT

- [ ] RESULTS ONLY
- [ ] NJ DEP REDUCED
- [ ] NJ DEP FULL
- [ ] STATE FORMS/E2 REPORTING

PWSID#

ELECTRONIC FORMAT

- [ ] EMAIL DELIVERY
- [ ] HAZSITE EDD
- [ ] EXCEL

SRP#

CONTAMINATION LEVEL

[ ] HIGH [ ] MEDIUM [ ] LOW

MATRIX ABBREVIATIONS: D - DRINKING WATER G - GROUNDWATER W - WASTEWATER S - SOIL SL - SLUDGE C - CONCRETE L - LAKE

APL Lab ID#	Sample Source: Field ID	Date	Time	Sample Type GRAB	Sample Type COMP	MATRIX	No. of Bottles	Preservative	Analysis Requested
8030203-01	CAT423-1ST-PCB-11	3/6/18	0630		X	O	1	—	PCBs (soxhlet)

RELINQUISHED BY (Print) MICHAEL WELLOCK	DATE 3/8/18	RECEIVED BY (Print)	
Signature	Time 1130	Signature	
RELINQUISHED BY (Print)	DATE 3/8/18	RECEIVED BY (Print)	
Signature	Time 1608	Signature	
RELINQUISHED BY (Print)	DATE	RECEIVED BY (Print)	
Signature	Time	Signature	

COMMENTS/SPECIAL INSTRUCTIONS: O - Oil

Cooler Temp. upon receipt at lab: 4

CERTIFICATIONS: NELAP (National Environmental Laboratory Accredation Program) NJDEP #07010 PADEP #68-02903 NYDOH #11634 CTPH #0233 US ARMY

By signing this Chain of Custody Agreement, customer expressly agrees to pay APL for all charges, reasonably incurred in connection with analysis and reporting for these samples

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER

Expires 12:01 AM April 01, 2018
Issued April 01, 2017

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

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

MR. BRIAN W. WOOD
AQUA PROTECH
1275 BLOOMFIELD AVE - BLDG 6
FAIRFIELD, NJ 07004

NY Lab Id No: 11634

is hereby APPROVED as an Environmental Laboratory in conformance with the National Environmental Laboratory Accreditation Conference Standards (2003) for the category ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE
All approved analytes are listed below:

Amines	
2-Nitroaniline	EPA 8270D
3-Nitroaniline	EPA 8270D
4-Chloroaniline	EPA 8270D
4-Nitroaniline	EPA 8270D
Aniline	EPA 8270D
Carbazole	EPA 8270D
Benzidines	
3,3'-Dichlorobenzidine	EPA 8270D
Benzidine	EPA 8270D
Characteristic Testing	
Corrosivity	EPA 9040C
Ignitability	EPA 1010A
TCLP	EPA 1311
Chlorinated Hydrocarbon Pesticides	
4,4'-DDD	EPA 8081B
4,4'-DDE	EPA 8081B
4,4'-DDT	EPA 8081B
Aldrin	EPA 8081B
alpha-BHC	EPA 8081B
beta-BHC	EPA 8081B
Chlordane Total	EPA 8081B
delta-BHC	EPA 8081B
Dieldrin	EPA 8081B
Endosulfan I	EPA 8081B

Chlorinated Hydrocarbon Pesticides	
Endosulfan II	EPA 8081B
Endosulfan sulfate	EPA 8081B
Endrin	EPA 8081B
Endrin aldehyde	EPA 8081B
Endrin Ketone	EPA 8081B
Heptachlor	EPA 8081B
Heptachlor epoxide	EPA 8081B
Lindane	EPA 8081B
Methoxychlor	EPA 8081B
Toxaphene	EPA 8081B
Chlorinated Hydrocarbons	
1,2,4-Trichlorobenzene	EPA 8270D
2-Chloronaphthalene	EPA 8270D
Hexachlorobenzene	EPA 8270D
Hexachlorobutadiene	EPA 8270D
Hexachlorocyclopentadiene	EPA 8270D
Hexachloroethane	EPA 8270D
Chlorophenoxy Acid Pesticides	
2,4,5-TP (Silvex)	EPA 8151A
2,4-D	EPA 8151A
Haloethers	
2,2'-Oxybis(1-chloropropane)	EPA 8270D
4-Bromophenylphenyl ether	EPA 8270D
4-Chlorophenylphenyl ether	EPA 8270D

Serial No.: 56106

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.

NELAP RECOGNIZED TNI ACCREDITATION BODY

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Haloethers	
Bis(2-chloroethoxy)methane	EPA 8270D
Bis(2-chloroethyl)ether	EPA 8270D
Metals I	
Barium, Total	EPA 6010C
Cadmium, Total	EPA 6010C
Calcium, Total	EPA 6010C
Chromium, Total	EPA 6010C
Copper, Total	EPA 6010C
Iron, Total	EPA 6010C
Lead, Total	EPA 6010C
Magnesium, Total	EPA 6010C
Manganese, Total	EPA 6010C
Nickel, Total	EPA 6010C
Potassium, Total	EPA 6010C
Silver, Total	EPA 6010C
Sodium, Total	EPA 6010C
Metals II	
Aluminum, Total	EPA 6010C
Antimony, Total	EPA 6010C
Arsenic, Total	EPA 6010C
Beryllium, Total	EPA 6010C
Chromium VI	EPA 7196A
Mercury, Total	EPA 7471B
Selenium, Total	EPA 6010C
Vanadium, Total	EPA 6010C
Metals II	
Zinc, Total	EPA 6010C
Metals III	
Cobalt, Total	EPA 6010C
Molybdenum, Total	EPA 6010C
Thallium, Total	EPA 6010C
Miscellaneous	
Cyanide, Total	EPA 9014
Nitroaromatics and Isophorone	
2,4-Dinitrotoluene	EPA 8270D
2,6-Dinitrotoluene	EPA 8270D
Isophorone	EPA 8270D
Nitrobenzene	EPA 8270D
Nitrosoamines	
N-Nitrosodimethylamine	EPA 8270D
N-Nitrosodiphenylamine	EPA 8270D
Phthalate Esters	
Benzyl butyl phthalate	EPA 8270D
Bis(2-ethylhexyl) phthalate	EPA 8270D
Diethyl phthalate	EPA 8270D
Dimethyl phthalate	EPA 8270D
Di-n-butyl phthalate	EPA 8270D
Di-n-octyl phthalate	EPA 8270D

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Polychlorinated Biphenyls	
PCB-1016	EPA 8082A
PCB-1221	EPA 8082A
PCB-1232	EPA 8082A
PCB-1242	EPA 8082A
PCB-1248	EPA 8082A
PCB-1254	EPA 8082A
PCB-1260	EPA 8082A
PCB-1262	EPA 8082A
PCB-1268	EPA 8082A
Polynuclear Aromatic Hydrocarbons	
Acenaphthene	EPA 8270D
Acenaphthylene	EPA 8270D
Anthracene	EPA 8270D
Benzo(a)anthracene	EPA 8270D
Benzo(a)pyrene	EPA 8270D
Benzo(b)fluoranthene	EPA 8270D
Benzo(ghi)perylene	EPA 8270D
Benzo(k)fluoranthene	EPA 8270D
Chrysene	EPA 8270D
Dibenzo(a,h)anthracene	EPA 8270D
Fluoranthene	EPA 8270D
Fluorene	EPA 8270D
Indeno(1,2,3-cd)pyrene	EPA 8270D
Naphthalene	EPA 8270D
Phenanthrene	EPA 8270D
Polynuclear Aromatic Hydrocarbons	
Pyrene	EPA 8270D
Priority Pollutant Phenols	
2,4,5-Trichlorophenol	EPA 8270D
2,4,6-Trichlorophenol	EPA 8270D
2,4-Dichlorophenol	EPA 8270D
2,4-Dimethylphenol	EPA 8270D
2,4-Dinitrophenol	EPA 8270D
2-Chlorophenol	EPA 8270D
2-Methyl-4,6-dinitrophenol	EPA 8270D
2-Methylphenol	EPA 8270D
2-Nitrophenol	EPA 8270D
3-Methylphenol	EPA 8270D
4-Chloro-3-methylphenol	EPA 8270D
4-Methylphenol	EPA 8270D
4-Nitrophenol	EPA 8270D
Pentachlorophenol	EPA 8270D
Phenol	EPA 8270D
Semi-Volatile Organics	
1,1'-Biphenyl	EPA 8270D
1,2-Dichlorobenzene, Semi-volatile	EPA 8270D
1,3-Dichlorobenzene, Semi-volatile	EPA 8270D
1,4-Dichlorobenzene, Semi-volatile	EPA 8270D
2-Methylnaphthalene	EPA 8270D
Acetophenone	EPA 8270D
Benzaldehyde	EPA 8270D

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Semi-Volatile Organics	
Benzoic Acid	EPA 8270D
Benzyl alcohol	EPA 8270D
Caprolactam	EPA 8270D
Dibenzofuran	EPA 8270D
Volatile Aromatics	
1,2,4-Trichlorobenzene, Volatile	EPA 8260C
1,2,4-Trimethylbenzene	EPA 8260C
1,2-Dichlorobenzene	EPA 8260C
1,3,5-Trimethylbenzene	EPA 8260C
1,3-Dichlorobenzene	EPA 8260C
1,4-Dichlorobenzene	EPA 8260C
2-Chlorotoluene	EPA 8260C
4-Chlorotoluene	EPA 8260C
Benzene	EPA 8260C
Bromobenzene	EPA 8260C
Chlorobenzene	EPA 8260C
Ethyl benzene	EPA 8260C
Isopropylbenzene	EPA 8260C
Naphthalene, Volatile	EPA 8260C
n-Butylbenzene	EPA 8260C
n-Propylbenzene	EPA 8260C
p-Isopropyltoluene (P-Cymene)	EPA 8260C
sec-Butylbenzene	EPA 8260C
Styrene	EPA 8260C
tert-Butylbenzene	EPA 8260C

Volatile Aromatics	
Toluene	EPA 8260C
Total Xylenes	EPA 8260C
Volatile Halocarbons	
1,1,1,2-Tetrachloroethane	EPA 8260C
1,1,1-Trichloroethane	EPA 8260C
1,1,2,2-Tetrachloroethane	EPA 8260C
1,1,2-Trichloro-1,2,2-Trifluoroethane	EPA 8260C
1,1,2-Trichloroethane	EPA 8260C
1,1-Dichloroethane	EPA 8260C
1,1-Dichloroethene	EPA 8260C
1,2,3-Trichloropropane	EPA 8260C
1,2-Dibromo-3-chloropropane	EPA 8260C
1,2-Dibromoethane	EPA 8260C
1,2-Dichloroethane	EPA 8260C
1,2-Dichloropropane	EPA 8260C
1,3-Dichloropropane	EPA 8260C
2-Chloroethylvinyl ether	EPA 8260C
Bromochloromethane	EPA 8260C
Bromodichloromethane	EPA 8260C
Bromoform	EPA 8260C
Bromomethane	EPA 8260C
Carbon tetrachloride	EPA 8260C
Chloroethane	EPA 8260C
Chloroform	EPA 8260C
Chloromethane	EPA 8260C

Serial No.: 56106

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Volatile Halocarbons	
cis-1,2-Dichloroethene	EPA 8260C
cis-1,3-Dichloropropene	EPA 8260C
Dibromochloromethane	EPA 8260C
Dibromomethane	EPA 8260C
Dichlorodifluoromethane	EPA 8260C
Hexachlorobutadiene, Volatile	EPA 8260C
Methylene chloride	EPA 8260C
Tetrachloroethene	EPA 8260C
trans-1,2-Dichloroethene	EPA 8260C
trans-1,3-Dichloropropene	EPA 8260C
Trichloroethene	EPA 8260C
Trichlorofluoromethane	EPA 8260C
Vinyl chloride	EPA 8260C
Volatile Organics	
2-Butanone (Methylethyl ketone)	EPA 8260C
2-Hexanone	EPA 8260C
4-Methyl-2-Pentanone	EPA 8260C
Acetone	EPA 8260C
Carbon Disulfide	EPA 8260C
Methyl cyclohexane	EPA 8260C
Methyl tert-butyl ether	EPA 8260C
tert-butyl alcohol	EPA 8260C
Sample Preparation Methods	
	EPA 5035A-L
	EPA 5035A-H

Sample Preparation Methods
EPA 3040A
EPA 3050B
EPA 3550C
EPA 3060A
EPA 9010C

Serial No.: 56106

ATTACHMENT B

Niche Analysis, KAM Consultants, ATC Group Services LLC
Data Packages, Lab Certificates
and Asbestos Handling Licenses

ATC Group Services LLC

104 E. 25th Street, 8th Floor
New York, NY 10010
Tel. 212-353-8280
Fax: 212-353-8306

AMENDED

Client: NICHE ANALYSIS, INC.
399 KNOLLWOOD ROAD, SUITE 208
WHITE PLAINS , NY 10603
Fax: (914) 663-8272 **Phone:** (914) 288-0805

Project: BIDWELL

Location: KENSICO LAB / INTERIOR RENOVATION

Project # 17-22069-2

Sample Date: 12/18/2017

Date Received : 12/20/2017

Date Analyzed : 12/23/2017

ATC Batch # 42846 A

Methods: EPA 600/M4-82-020
ELAP 198.1, 198.6 and 198.4

Bulk Asbestos Analysis Results

Sample #	Location	Type of Material	Method	Non-Asbestos % Fibrous	Non-Asbestos % Non-Fibrous	NOB % Type	Asbestos % Type
CAT423-2ND-ASB-01 *42846 A -1*	Library & Conference room	Grey Vinyl Covebase	NOB-TEM		0.0% Vermiculite	54% Organic 3.2% Residue 42.8% Carbonate	NONE DETECTED
Analyzed By: Amr Fata		Color: Grey Second Analyst: Mark Peysakhov		Comments: NOB PLM Inconclusive			
CAT423-2ND-ASB-02 *42846 A -2*	Library & Conference room	Brown mastic associated with Gray covebase	NOB-TEM		0.0% Vermiculite	65.8% Organic 31.6% Residue 2.6% Carbonate	NONE DETECTED
Analyzed By: Amr Fata		Color: Brown Second Analyst: Mark Peysakhov		Comments: NOB PLM Inconclusive			
CAT423-2ND-ASB-03 *42846 A -3*	Library & Conference room	Brown Carpet mastic	NOB-TEM		0.0% Vermiculite	49.4% Organic 38.1% Residue 12.5% Carbonate	NONE DETECTED
Analyzed By: Amr Fata		Color: Brown Second Analyst: Mark Peysakhov		Comments: NOB PLM Inconclusive			
CAT423-2ND-ASB-04 *42846 A -4*	Library & Conference room	Grey Glazing on Door	NOB-TEM		0.0% Vermiculite	15.1% Organic 1.6% Residue 83.3% Carbonate	NONE DETECTED
Analyzed By: Amr Fata		Color: Grey Second Analyst: Mark Peysakhov		Comments: NOB PLM Inconclusive			
CAT423-2ND-ASB-05 *42846 A -5*	Drafting Room	Grey glazing on Door	NOB-TEM		0.0% Vermiculite	18.2% Organic 1.6% Residue 80.2% Carbonate	NONE DETECTED
Analyzed By: Amr Fata		Color: Grey Second Analyst: Mark Peysakhov		Comments: NOB PLM Inconclusive			
CAT423-2ND-ASB-06 *42846 A -6*	Drafting Room	Black conduit Putty	NOB-TEM		0.0% Vermiculite	25.1% Organic 34.6% Residue 40.3% Carbonate	NONE DETECTED
Analyzed By: Amr Fata		Color: Black Second Analyst: Mark Peysakhov		Comments: NOB PLM Inconclusive			
CAT423-2ND-ASB-07 *42846 A -7*	Drafting Room	Black conduit Putty	NOB-TEM		0.0% Vermiculite	25% Organic 39.7% Residue 35.3% Carbonate	NONE DETECTED
Analyzed By: Amr Fata		Color: Black Second Analyst: Mark Peysakhov		Comments: NOB PLM Inconclusive			

ATC Group Services LLC

104 E. 25th Street, 8th Floor
New York, NY 10010
Tel. 212-353-8280
Fax: 212-353-8306

AMENDED

Sample #	Location	Type of Material	Method	Non-Asbestos % Fibrous	Non-Asbestos % Non-Fibrous	NOB % Type	Asbestos % Type
CAT423-2ND-ASB-08 *42846 A -8*	Drafting Room	Green Linoleum floor	NOB-TEM		0.0% Vermiculite	68.4% Organic 1.6% Residue 30% Carbonate	NONE DETECTED
Analyzed By: Amr Fata		Color: Green Second Analyst: Mark Peysakhov		Comments: NOB PLM Inconclusive			
CAT423-2ND-ASB-09 *42846 A -9*	Drafting Room	Green Linoleum floor	NOB-TEM		0.0% Vermiculite	94.1% Organic 1.3% Residue 4.6% Carbonate	NONE DETECTED
Analyzed By: Amr Fata		Color: Green Second Analyst: Mark Peysakhov		Comments: NOB PLM Inconclusive			
CAT423-2ND-ASB-10 *42846 A -10*	Drafting Room	Brown Mastic under Green Floor	NOB-TEM		0.0% Vermiculite	73.3% Organic 18.6% Residue 8.1% Carbonate	NONE DETECTED
Analyzed By: Amr Fata		Color: Brown Second Analyst: Mark Peysakhov		Comments: NOB PLM Inconclusive			
CAT423-2ND-ASB-11 *42846 A -11*	Drafting Room	Brown Mastic under Green Floor	NOB-TEM		0.0% Vermiculite	35.9% Organic 56.5% Residue 7.6% Carbonate	NONE DETECTED
Analyzed By: Amr Fata		Color: Brown Second Analyst: Mark Peysakhov		Comments: NOB PLM Inconclusive			
CAT423-2ND-ASB-12 *42846 A -12*	Hallway	Black Vinyl covebase	NOB-TEM		0.0% Vermiculite	29.8% Organic 1.6% Residue 68.6% Carbonate	NONE DETECTED
Analyzed By: Amr Fata		Color: Black Second Analyst: Mark Peysakhov		Comments: NOB PLM Inconclusive			
CAT423-2ND-ASB-13 *42846 A -13*	Hallway	Brown mastic behind covebase	NOB-TEM		0.0% Vermiculite	40.7% Organic 8.6% Residue 50.7% Carbonate	NONE DETECTED
Analyzed By: Amr Fata		Color: Brown Second Analyst: Mark Peysakhov		Comments: NOB PLM Inconclusive			
CAT423-2ND-ASB-14 *42846 A -14*	Hallway	Beige flooring Linoleum	NOB-TEM		0.0% Vermiculite	49.8% Organic 6.9% Residue 43.3% Carbonate	NONE DETECTED
Analyzed By: Amr Fata		Color: Beige Second Analyst: Mark Peysakhov		Comments: NOB PLM Inconclusive			
CAT423-2ND-ASB-15 *42846 A -15*	Hallway	Brown mastic under Beige Linoleum	NOB-TEM		0.0% Vermiculite	37.2% Organic 27.9% Residue 34.9% Carbonate	NONE DETECTED
Analyzed By: Amr Fata		Color: Brown Second Analyst: Mark Peysakhov		Comments: NOB PLM Inconclusive			
CAT423-2ND-ASB-16 *42846 A -16*	Lunch Room	Black Vinyl covebase	NOB-TEM		0.0% Vermiculite	32.2% Organic 1.8% Residue 66% Carbonate	NONE DETECTED
Analyzed By: Amr Fata		Color: Black Second Analyst: Mark Peysakhov		Comments: NOB PLM Inconclusive			
CAT423-2ND-ASB-17 *42846 A -17*	Lunch Room	Brown mastic behind Black vinyl covebase	NOB-TEM		0.0% Vermiculite	54% Organic 23.8% Residue 22.2% Carbonate	NONE DETECTED
Analyzed By: Amr Fata		Color: Brown Second Analyst: Mark Peysakhov		Comments: NOB PLM Inconclusive			

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Fax: 212-353-8306

AMENDED

Sample #	Location	Type of Material	Method	Non-Asbestos % Fibrous	Non-Asbestos % Non-Fibrous	NOB % Type	Asbestos % Type
CAT423-2ND-ASB-18 *42846 A -18*	Lunch Room	Beige Linoleum Flooring Color: Beige	NOB-TEM		0.0% Vermiculite	47.2% Organic 3.7% Residue 49.1% Carbonate	NONE DETECTED
Analyzed By: Amr Fata		Second Analyst: Mark Peysakhov		Comments: NOB PLM Inconclusive			
CAT423-2ND-ASB-19 *42846 A -19*	Lunch Room	Brown mastic / Grey Leveling Compound Color: Brown	NOB-TEM		0.0% Vermiculite	35.9% Organic 35.1% Residue 29% Carbonate	NONE DETECTED
Analyzed By: Amr Fata		Second Analyst: Mark Peysakhov		Comments: NOB PLM Inconclusive			
CAT423-2ND-ASB-20 *42846 A -20*	Lunch Room	Brown mastic / Grey Leveling Compound Color: Brown	NOB-TEM		0.0% Vermiculite	44.3% Organic 26.2% Residue 29.5% Carbonate	NONE DETECTED
Analyzed By: Amr Fata		Second Analyst: Mark Peysakhov		Comments: NOB PLM Inconclusive			
CAT423-2ND-ASB-22 *42846 A -21*	Watershed Office	Grey vinyl covebase Color: Grey	NOB-TEM		0.0% Vermiculite	53.6% Organic 1.6% Residue 44.8% Carbonate	NONE DETECTED
Analyzed By: Amr Fata		Second Analyst: Mark Peysakhov		Comments: NOB PLM Inconclusive			
CAT423-2ND-ASB-23 *42846 A -22*	Watershed Office	Brown mastic associateds with Grey covebase Color: Brown	NOB-TEM		0.0% Vermiculite	55.5% Organic 42.6% Residue 1.9% Carbonate	NONE DETECTED
Analyzed By: Amr Fata		Second Analyst: Mark Peysakhov		Comments: NOB PLM Inconclusive			
CAT423-2ND-ASB-24 *42846 A -23*	Watershed Office	Brown mastic under Carpet Color: Brown	NOB-TEM		0.0% Vermiculite	45.1% Organic 27% Residue 27.9% Carbonate	NONE DETECTED
Analyzed By: Amr Fata		Second Analyst: Mark Peysakhov		Comments: NOB PLM Inconclusive			
CAT423-2ND-ASB-26 *42846 A -24*	Women's Restroom	Black Caulk on Radiator Color: Black	NOB-TEM		0.0% Vermiculite	30.7% Organic 22% Residue 32.3% Carbonate	15% Chrysotile
Analyzed By: Amr Fata		Second Analyst: Mark Peysakhov		Comments: NOB PLM Inconclusive			Total Asbestos: 15 %
CAT423-2ND-ASB-27 *42846 A -25*	Men's Restroom	Black Caulk on Radiator Color: Black	NOB-TEM		0.0% Vermiculite	26.6% Organic 21.5% Residue 30.9% Carbonate	21% Chrysotile
Analyzed By: Amr Fata		Second Analyst: Mark Peysakhov		Comments: NOB PLM Inconclusive			Total Asbestos: 21 %
CAT423-ATT-ASB-30 *42846 A -26*	Attic	Black Gasket on HVAC unit Color: Black	NOB-TEM		0.0% Vermiculite	68.7% Organic 5.1% Residue 26.2% Carbonate	Trace Chrysotile
Analyzed By: Amr Fata		Second Analyst: Mark Peysakhov		Comments: NOB PLM Inconclusive			Total Asbestos: TRACE[13]
CAT423-ATT-ASB-31 *42846 A -27*	Attic	Black Gasket on Fan #2 Access watch Color: Black	NOB-TEM		0.0% Vermiculite	64.2% Organic 6.9% Residue 28.9% Carbonate	NONE DETECTED
Analyzed By: Amr Fata		Second Analyst: Mark Peysakhov		Comments: NOB PLM Inconclusive			

ATC Group Services LLC

104 E. 25th Street, 8th Floor
New York, NY 10010
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Fax: 212-353-8306

AMENDED

Sample #	Location	Type of Material	Method	Non-Asbestos % Fibrous	Non-Asbestos % Non-Fibrous	NOB % Type	Asbestos % Type
CAT423-1ST-ASB-36 *42846 A -28*	General lab	Black counter top bonding agent Color: Black	NOB-TEM		0.0% Vermiculite	58.1% Organic 37.9% Residue 4% Carbonate	NONE DETECTED
Analyzed By: Amr Fata		Second Analyst: Mark Peysakhov		Comments: NOB PLM Inconclusive			
CAT423-BASE-ASB-42 *42846 A -29*	Boiler Room	Silver Boiler Paint Color: Silver	NOB-TEM		0.0% Vermiculite	30% Organic 54.3% Residue 15.7% Carbonate	NONE DETECTED
Analyzed By: Amr Fata		Second Analyst: Mark Peysakhov		Comments: NOB PLM Inconclusive			
CAT423-BASE-ASB-43 *42846 A -30*	Boiler Room	Silver Boiler Paint Color: Silver	NOB-TEM		0.0% Vermiculite	73.7% Organic 9.2% Residue 17.1% Carbonate	NONE DETECTED
Analyzed By: Amr Fata		Second Analyst: Mark Peysakhov		Comments: NOB PLM Inconclusive			
CAT423-BASE-ASB-54 *42846 A -31*	Boiler Room	Grey Door Glazing Color: Grey	NOB-TEM		0.0% Vermiculite	10.4% Organic 2.2% Residue 87.4% Carbonate	NONE DETECTED
Analyzed By: Amr Fata		Second Analyst: Mark Peysakhov		Comments: NOB PLM Inconclusive			
CAT423-BASE-ASB-55 *42846 A -32*	Storage Room	Grey door Glazing Color: Grey	NOB-TEM		0.0% Vermiculite	13.3% Organic 1.2% Residue 85.5% Carbonate	NONE DETECTED
Analyzed By: Amr Fata		Second Analyst: Mark Peysakhov		Comments: NOB PLM Inconclusive			
CAT423-EXT-ASB-56 *42846 A -33*	Exterior	White window caulk Color: White	NOB-TEM		0.0% Vermiculite	70.8% Organic 2.8% Residue 26.4% Carbonate	NONE DETECTED
Analyzed By: Amr Fata		Second Analyst: Mark Peysakhov		Comments: NOB PLM Inconclusive			
CAT423-EXT-ASB-57 *42846 A -34*	Exterior	White window caulk Color: White	NOB-TEM		0.0% Vermiculite	71.6% Organic 2.1% Residue 26.3% Carbonate	NONE DETECTED
Analyzed By: Amr Fata		Second Analyst: Mark Peysakhov		Comments: NOB PLM Inconclusive			
CAT423-1ST-ASB-58 *42846 A -35*	General Lab	Beige Linoleum flooring Color: Beige	NOB-TEM		0.0% Vermiculite	50.8% Organic 5.6% Residue 43.6% Carbonate	NONE DETECTED
Analyzed By: Amr Fata		Second Analyst: Mark Peysakhov		Comments: NOB PLM Inconclusive			
CAT423-1ST-ASB-59 *42846 A -36*	General Lab	Brown mastic under Linoleum Color: Beige	NOB-TEM		0.0% Vermiculite	42.4% Organic 25.6% Residue 32% Carbonate	NONE DETECTED
Analyzed By: Amr Fata		Second Analyst: Mark Peysakhov		Comments: NOB PLM Inconclusive			
CAT423-1ST-ASB-60 *42846 A -37*	Water & Sewage Lab	Beige Linoleum Flooring Color: Beige	NOB-TEM		0.0% Vermiculite	50.3% Organic 5.4% Residue 44.3% Carbonate	NONE DETECTED
Analyzed By: Amr Fata		Second Analyst: Mark Peysakhov		Comments: NOB PLM Inconclusive			

ATC Group Services LLC

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AMENDED

Sample #	Location	Type of Material	Method	Non-Asbestos % Fibrous	Non-Asbestos % Non-Fibrous	NOB % Type	Asbestos % Type
CAT423-1ST-ASB-61 *42846 A -38*	Water & Sewage Lab	Brown Mastic under Linoleum	NOB-TEM		0.0% Vermiculite	59.7% Organic 35.2% Residue 5.1% Carbonate	NONE DETECTED

Color: Brown

Analyzed By: Amr Fata

Second Analyst: Mark Peysakhov

Comments: NOB PLM Inconclusive

NOTES:

1) The Limit of Detection is the same as the Reporting Limit for these results.

2) The Reporting Limit (RL) is the Limit of Quantitation. For point counts the limit of quantitation of 0.25%; based on one asbestos point counter over 400 non-empty points.

3) Asbestos Containing Material (ACM) Definition: > 1% asbestos by weight is considered an ACM

4) Disclaimer: The laboratory is not responsible for sample collection. Please refer to enclosed letter. This report may not be reproduced, except in full, without written approval by ATC Group Services. This report may not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government. This report relates only to the samples reported above as described in the chain of custody. Quality control data is available upon request.

5) Accredited by NVLAP #101187-0 and by NY State ELAP #10879

6) Confidentiality Notice: The document(s) contained herein are confidential and privileged information, intended for the exclusive use of the individual or entity named abov

7) Liability Notice: ATC Group Services and its personnel shall not be liable for any misinformation provided to us by the client regarding these samples. This report relates only to samples submitted and ar

8) Asbestos results are reliable to 2 significant figures.

9) The condition of all samples was acceptable upon receipt.

10) The laboratory certifies that the test results meet all requirements of NELAC.

11) Supplement to test report batch # _____. Amendments: ____. Amendment Dates: _____. Amended by: _____

12) PLM Letter is attached on this report.

13) TRACE: The result is reported as Trace when No points are counted and asbestos is identified. For ELAP Trace is < 1%.

14) ATC Group Services certifies that this report is an accurate and authentic report of the results obtained from the laboratory analysis

15) The uncertainty for these test results is available upon request.

16) ELAP requires method ELAP 198.1 for the analysis of samples containing ≤ 10% vermiculite. For samples containing > 10% vermiculite ELAP requires methods ELAP 198.1 followed by ELAP 198.6. "This method does not remove vermiculite and may underestimate the level of asbestos present in a sample containing greater than 10% vermiculite."

Amr Fata
Analyst:

Mark Peysakhov
Analyst:

Mohamed Fata
Analyst:

Mei Wang
Approved by
Quality Manager:

BULK ASBESTOS ANALYSIS RESULTS

PLM Analysis Methodology

The samples were analyzed by industry accepted methods in accordance with EPA and ELAP methods using Polarized Light Microscopy (PLM) with dispersion staining in conjunction with stereoscopical analysis. Point counts are performed on samples regulated by these agencies. The Environmental Laboratory Approval Program (ELAP) has determined that analysis of non-friable organically bound materials (i.e. floor tile, roofing, etc.) and ceiling tiles with cellulose is not reliable when performed by Polarized Light Microscopy (PLM) method. Therefore, if this analysis included that of non-friable materials or ceiling tiles with cellulose under PLM and the results were negative, ATC must add this disclaimer to maintain our ELAP accreditation:

> "Polarized light microscopy is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Quantitative Transmission Electron Microscopy is currently the only method that can be used to determine if this material can be considered or treated as non-asbestos containing".

Non-friable samples that contained *Trace* or *No* PLM detectable asbestos are classified as Inconclusive. All layered samples are analyzed by the layer and each layer is reported separately with the exception of joint compound.

ELAP requires method ELAP 198.1 for the analysis of samples containing ≤ 10% vermiculite with the exception of surfacing material containing vermiculite (SM-V). For samples containing >10% vermiculite ELAP requires methods ELAP 198.1 followed by ELAP 198.6. This method has limitations for identification and quantification of vermiculite. "This method does not remove vermiculite and may underestimate the level of asbestos present in a sample containing greater than 10% vermiculite."

Surfacing material that contains vermiculite (SM-V) are analyzed by ELAP method 198.8. Sample results for SM-V tested by other methods upon client requests are inconclusive.

EPA does not regulate mixed mineral assemblage like the anthophyllite-talc intergrowth that is found in paint and caulking unless these materials contain asbestos in an amount greater than 1%. Anthophyllite detected in paint and caulking samples might be a talc intergrowth.

ATC has the capability of performing TEM confirmation if so desired.

Bulk sample reports are checked and reviewed two times. Unused portions of samples are archived for two months unless client requests special handling. This report must not be used by the client to claim product endorsement by NIST or any agency of the U.S. government.

ATC is not responsible for sample collection and analytical procedures not performed by our laboratory. This report may not be reproduced in part without the laboratory permission.

ATC will not be liable for analytical results from samples that are not prepared according to the standard methods (EPA, ELAP, etc.) used by the laboratory (e.g. composite samples from different locations, samples with insufficient volumes, straight TEM samples without gravimetric procedures, dust samples, non-friable samples by PLM only).

Laboratory Equipment

Laboratory analysis was accomplished utilizing Olympus BH-2 Microscopes.

Quality Control

ATC is accredited by NVLAP (Lab Code 101187-0) and NY State DOH ELAP (Lab ID 10879) for bulk and air fiber analyses. ATC participates in the Bulk Asbestos Sample Quality Assurance Programs for NVLAP and ELAP and maintains an in-house QC/QA program for bulk samples whereby 10% of all submitted samples are reanalyzed and documented in a Quality Control Manual. ATC also participates in a quarterly round robin QC/QA program for bulk samples with several accredited laboratories throughout the United States. Current and past QC/QA program results are available in the laboratory for inspection.

Accuracy and Precision

The phase abundances provided by point count may be considered within the limits of variability inherent in the method employed. For point counts the detection limit of 0.25% is based on one asbestos point counted over 400 non-empty points. If no points are counted and asbestos is identified, the result will be reported as trace. For ELAP trace is < 1%.

The analyses were supervised by Milena Bonezzi, Director of Laboratory Services, who has extensive experience in asbestos analysis by PLM and other methods. Please contact me regarding any questions relating to these materials at 212-353-8280 Ext. 247.

1. EPA Methods: 600/M4-82-020
2. ELAP Method: 4088 Items 198.1 and 198.4 and 198.6 and 198.8

Sincerely,

Milena Bonezzi
ATC Group Services LLC
Director of Laboratory Services

NICHE ANALYSIS, INC.
399 Knollwood Road, Suite 208 · White Plains, NY 10603
Tel: (914) 288-0805 · Fax: (914) 288-0807

BULK SAMPLE ANALYSIS REPORT

BIDWELL ENVIRONMENTAL, LLC
1353 KINGS HIGHWAY
P.O. BOX 266
SUGAR LOAF, NY 10981

Niche Project #: 17-22069-1

PROJECT:	Kensico Lab	**ANALYST:**	Bing Liang
BIDWELL PROJECT #:	NA	**DATE SAMPLED:**	12-18&19-2017
LOCATION:	Various	**DATE RECEIVED:**	12-20-17
SCOPE OF WORK:	Interior Renovation	**DATE ANALYZED:**	12-22-17

Sample No./ Lab ID	Type of Material	Color	Area	Asbestos Content & Percent	Non-Asbestos Fiber Content & Percent	Non Fibrous
CAT423-2nd ASB-21 *B12006681*	Wall Mortar	Green	2nd Floor/ Women's Restroom	ND	ND	100% Mineral Filler
CAT423-2nd ASB-25 *B12006682*	Wall Mortar	Green	2nd Floor/ Men's Restroom	ND	ND	100% Mineral Filler
CAT423-2nd ASB-28 *B12006683*	Radiator Shielding	Black White	2nd Floor/ Stairwell	**80% Chrysotile**	ND	5% Paint 15% Other
CAT423-2nd ASB-29 *B12006684*	Radiator Shielding	Black White	2nd Floor/ Library and Conference Room	**NA/PS**		
CAT423-ATT ASB-32 *B12006685*	Chimney Mortar	Gray	3rd Floor/ Attic	ND	ND	100% Mineral Filler
CAT423-ATT ASB-33 *B12006686*	Chimney Mortar	Gray	3rd Floor/ Attic	ND	ND	100% Mineral Filler
CAT423-1st ASB-34 *B12006687*	Lab Countertop	Black	1st Floor/ General Lab	ND	ND	100% Other
CAT423-1st ASB-35 *B12006688*	Countertop Bonding Agent	Black	1st Floor/ General Lab	ND	ND	100% Other
CAT423-1st ASB-37 *B12006689*	Countertop	Black	1st Floor/ Physical Lab	ND	ND	100% Other

Report Prepared By: JD

NICHE ANALYSIS, INC.
399 Knollwood Road, Suite 208 · White Plains, NY 10603
Tel: (914) 288-0805 · Fax: (914) 288-0807

Sample No./ Lab ID	Type of Material	Color	Area	Asbestos Content & Percent	Non-Asbestos Fiber Content & Percent	Non Fibrous
CAT423-1st ASB-38 *B12006690*	Canvas Wire Wrap	Brown	1st Floor/ General Lab	**80% Chrysotile**	5% Cellulose	15% Other
CAT423-1st ASB-39 *B12006691*	Canvas Wire Wrap	Brown	1st Floor/ General Lab	**NA/PS**		
CAT423-1st ASB-40 *B12006692*	Rope Gasket	White	1st Floor/ Autoclave Room	ND	100% Fiberglass	ND
CAT423-1st ASB-41 *B12006693*	Rope Gasket	White	1st Floor/ Autoclave Room	ND	100% Fiberglass	ND
CAT423-BASE ASB-44 *B12006694*	Boiler Packing Rope	Black Brown	Basement/ Boiler Room	ND	90% Fiberglass	10% Gypsum
CAT423-BASE ASB-45 *B12006695*	Boiler Packing Rope	Black	Basement/ Boiler Room	ND	95% Fiberglass	5% Gypsum
CAT423-BASE ASB-46 *B12006696*	Fire Brick	Red	Basement/ Boiler Room	ND	ND	100% Mineral Filler
CAT423-BASE ASB-47 *B12006697*	Fire Brick	Red	Basement/ Boiler Room	ND	ND	100% Mineral Filler
CAT423-BASE ASB-48 *B12006698*	Wall Penetration Sealant	White Brown	Basement/ Boiler Room	ND	ND	50% Mineral Filler 50% Gypsum
CAT423-BASE ASB-49 *B12006699*	Wall Penetration Sealant	Brown	Basement/ Boiler Room	ND	ND	70% Gypsum 30% Mineral Filler
CAT423-BASE ASB-50 *B12006700*	Paper Gasket	White	Basement/ Boiler Room	ND	70% Cellulose	30% Gypsum
CAT423-BASE ASB-51 *B12006701*	Paper Gasket	White	Basement/ Boiler Room	ND	70% Cellulose	30% Gypsum
CAT423-BASE ASB-52 *B12006702*	Braided Wire	Brown Black	Basement/ Boiler Room	ND	20% Cellulose 30% Other	50% Other

NICHE ANALYSIS, INC.

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Sample No./ Lab ID	Type of Material	Color	Area	Asbestos Content & Percent	Non-Asbestos Fiber Content & Percent	Non Fibrous
CAT423-BASE ASB-53 *B12006703*	Braided Wire	Brown Black	Basement/ Boiler Room	ND	20% Cellulose 30% Other	50% Other
CAT423-BASE ASB-62 *B12006704*	Braided Wire	Brown Black	Basement/ Boiler Room	ND	20% Fiberglass	80% Other
CAT423-BASE ASB-63 *B12006705*	Braided Wire	Brown Black	Basement/ Boiler Room	ND	20% Fiberglass	80% Other
CAT423-BASE ASB-64 *B12006706*	Braided Wire	Brown Black	Basement/ Boiler Room	ND	30% Cellulose	70% Other
CAT423-BASE ASB-65 *B12006707*	Braided Wire	Brown Black	Basement/ Boiler Room	ND	30% Cellulose	70% Other
CAT423-1st ASB-66 *B12006708*	Fume Hood Shelf	Gray	1st Floor/ Water Lab	ND	40% Cellulose	60% Mineral Filler
CAT423-1st ASB-67 *B12006709*	Fume Hood Shelf	Gray	1st Floor/ Water Lab	ND	40% Cellulose	60% Mineral Filler

Note 1: The balance of each sample is non-fibrous particulates. Please contact us promptly if you have any question about these results. Analysis was performed by using "Point Count Technique" as required and recommended by the New York State Department of Health and USEPA Interim Method for "Identification of Asbestos Fibers in Bulk Samples". This report must not be used by the client to claim product endorsements by NVLAP or any agency of the US government. This report relates only to the items listed. The above samples were collected and submitted to NICHE by the client. All sample information was provided by the client. *Polarized light microscopy is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Quantitative transmission electron microscopy is currently the only method that can be used to determine if the material can be considered or treated as non-asbestos-containing.
Note 2: NA/PS = Not Analyzed/Stop on Positive, ND = None Detected

SAMPLE ANALYSIS BY:	POLARIZED LIGHT MICROSCOPY – DISPERSION STANDING (PLM-DS)
METHOD OF SAMPLE PREPARATION & ANALYSIS:	ALL SAMPLES WERE PREPARED AND ANALYZED IN ACCORDANCE WITH THE NYSDOH ELAP "POLARIZED-LIGHT MICROSCOPE METHODS FOR IDENTIFYING AND QUANTITATING ASBESTOS IN BULK SAMPLES" ELAP ITEM 198.1, 04/14/10
INSTRUMENT:	OLYMPUS POLARIZED LIGHT MICROSCOPY, MODEL BH-2

ELAP#: 11236

BING LIANG
Laboratory Director

Approved Signatory

17-22069-1

Report Prepared By: JD

CHAIN OF CUSTODY
(BULK-NOB SAMPLE ANALYSIS)

NICHE ANALYSIS, INC.
399 KNOLLWOOD ROAD, SUITE 208
WHITE PLAINS. NY 10605
P: (914) 288-0805; F: (914) 288-0807

NICHE File #: 17-22069-2
Reference #: 42846

PROJECT NAME:	Kensico Lab
PROJECT ADDRESS:	

Page 1 of 1

Client: Bidwell	**Sampled By:**	**Turnaround Time**
Report to: **Bill to:**	**Sampled Date:** 12/18 + 19/17	**Rush__; 24 hrs__; 48 hrs__; 72 hrs__; 5 days__; Other__**
Results email to:	**Contact To:**	**Delivered Method** **# of Samples**
☐ rosemary@nicheanalysisinc.com ☐ annie@nicheanalysisinc.com ☐ james@nicheanalysisinc.com ☐ bing@nicheanalysisinc.com	**Phone:** **Fax:**	**Lab Name** ATC LAB

Sample ID	HID	Location	Description (Material)	Color	Method (ELAP) 198.6	198.1	198.4
		Please See attached COC					
				QC BY			
		A-By: ATC - M. Ceda 12/21/17	12:30PM	ALD			

Received By:	**Signature:** RK	**Date:** 12/20/17	**Lab Received By:** MBonezy	**Signature:** MB	**Date:** 12/20/17 07:00
Relinquished By:	**Signature:**	**Date:**	**Lab Analyzed By:**	**Signature:**	**Date:** 12/21/17

HID = Homogenous ID
Analyze: ☐ ALL ☑ STOP @ 1ST POSITIVE

NOTES:

42846 ✓

NICHE ANALYSIS, INC.
399 Knollwood Road, Suite 208
White Plains, NY 10603
914-288-0805
914-288-0807 (Fax)

TURN AROUND TIME: ☐ RUSH ☐ 6 HRS ☐ 24 HRS ☒ OTHER STANDARD

ASBESTOS FIELD SURVEY DATA SHEET / BULK SAMPLE LOG

PROJECT NO.: ~~ZI~~ SW -22069

LOCATION(S) SURVEYED: KENSICO LAB

CLIENT: BIDWELL

PROJECT SITE: KENSICO LAB

SCOPE OF WORK: INTERIOR RENOVATION

INVESTIGATOR:

INSPECTOR: M. WELLOCK

DATE(S) OF INSPECTION: 12/18 + 12/19/17

FUNCTIONAL SPACE FLOOR	AREA DESCRIPTION	SAMPLE # OR ASSUMED	HOMOGENEOUS HID	MATERIAL DESCRIPTION	QUANTITY (LF/SF)	ASSESSMENT COND	FRIAB	ASBESTOS CONTENT %
2	LIBRARY + CONFERENCE ROOM	CAT423-2ND-ASB-01	1	GREY VINYL COVEBASE		1, 2, 3, 4, 5, 6, 7 (G) MD P	F (NF)	PLM: TEM:
2	"	CAT423-2ND-ASB-02	2	BROWN MASTIC ASSOC/ W/ GREY COVEBASE		1, 2, 3, 4, 5, 6, 7 (G) MD P	F (NF)	PLM: TEM:
2	"	CAT423-2ND-ASB-03	3	BROWN CARPET MASTIC		1, 2, 3, 4, 5, 6, 7 (G) MD P	F (NF)	PLM: TEM:
2	"	CAT423-2ND-ASB-04	4	GREY GLAZING ON DOOR		1, 2, 3, 4, 5, 6, 7 (G) MD P	F (NF)	PLM: TEM:
2	DRAFTING ROOM	CAT423-2ND-ASB-05	4	GREY GLAZING ON DOOR		1, 2, 3, 4, 5, 6, 7 (G) MD P	F (NF)	PLM: TEM:
2	"	CAT423-2ND-ASB-06	5	BLACK CONDUIT PUTTY		1, 2, 3, 4, 5, 6, 7 (G) MD P	F (NF)	PLM: TEM:
2	"	CAT423-2ND-ASB-07	5	BLACK CONDUIT PUTTY		1, 2, 3, 4, 5, 6, 7 (G) MD P	F (NF)	PLM: TEM:
2	"	CAT423-2ND-ASB-08	6	GREEN LINOLEUM FLOOR		1, 2, 3, 4, 5, (6), 7 G (MD) P	F (NF)	PLM: TEM:
2	"	CAT423-2ND-ASB-09	6	GREEN LINOLEUM FLOOR		1, 2, 3, 4, 5, 6, 7 G (MD) P	F (NF)	PLM: TEM:

PHYSICAL CONDITION ASSESSMENT
1 Damaged or Significantly Damaged Friable TSI
2 Damaged Friable Surfacing ACM
3 Significantly Damaged Friable Surfacing ACM
4 Damaged or Significantly Damaged Friable Misc. ACM
5 ACBM with potential for Damage
6 ACBM with potential for Significant Damage
7 Remaining Friable or Suspect ACBM
G – Good / MD – Minor Damage / P – Poor

FRIABLE
Yes (Y)
No (N)

PLM - POLARIZED LIGHT MICROSCOPY TEM - TRANSMISSION ELECTRON MICROSCOPY

RELINQUISHED BY: M. Well DATE: 12/20/17 TIME:
RECEIVED BY: Rosemary Retta DATE: 12/20/17 TIME:
RELINQUISHED BY: Analyzed by Steve DATE: TIME:
RECEIVED BY: [signature] DATE: 12/20/17 TIME: 11:30

NYSDOL INSPECTOR: CERTIFICATE NO.: 12-14716
TELEPHONE NO: 845 545 0411
ADDRESS: 1353 KINGS HIGHWAY, SUGARLOAF NY

1. A visual determination of accessible suspect materials and condition.
2. Collect bulk samples of suspect building materials.
3. A physical "Hand Pressure" test for determining friability and condition.
4. Assessment of suspect friable and non-friable materials and locations.
5. Quantify the amount of suspect materials in their respective locations.
6. Submit bulk samples for analysis by PLM and/or TEM Method.
7. Bulk Sample locations and suspect materials were identified on the appropriate building floor plan diagram with the sample number.
8. A Chain of Custody record accompanied the samples to the laboratory.

FIELD NOTES: NOB-PLM: ATC A- [initials] 12/22/17

ANALYZE: ☐ ALL ☒ STOP AT FIRST POSITIVE ☐ PLM ☐ TEM

38 NOB PLM/TEM

NICHE ANALYSIS, INC.
399 Knollwood Road, Suite 208
White Plains, NY 10603
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42846

TURN AROUND TIME:
☐ RUSH ☐ 6 HRS ☐ 24 HRS ☐ OTHER

ASBESTOS FIELD SURVEY DATA SHEET / BULK SAMPLE LOG

PAGE 2 OF 6

PROJECT NO.:
CLIENT: BIDWELL
PROJECT SITE: ~~BIDWELL~~ KENSICO LAB
INVESTIGATOR:

LOCATION(S) SURVEYED: KENSICO LAB
SCOPE OF WORK: INTERIOR RENOVATION
INSPECTOR: M. WENOCK DATE(S) OF INSPECTION: 12/18+12/19/17

FUNCTIONAL SPACE		SAMPLE # OR ASSUMED	HOMOGENEOUS		QUANTITY	ASSESSMENT		ASBESTOS CONTENT
FLOOR	AREA DESCRIPTION		HID	MATERIAL DESCRIPTION	(LF/SF)	COND	FRIAB	%
2	DRAFTING ROOM	CAT423-2ND-ASB-10	7	BROWN MASTIC UNDER GREEN FLOOR		1, 2, 3, 4, 5, 6, 7 G MD P	F NF	PLM: TEM:
2	"	CAT423-2ND-ASB-11	7	BROWN MASTIC UNDER GREEN FLOOR		1, 2, 3, 4, 5, 6, 7 G MD P	F NF	PLM: TEM:
2	HALLWAY	CAT423-2ND-ASB-12	8	BLACK VINYL COVEBASE		1, 2, 3, 4, 5, 6, 7 G MD P	F NF	PLM: TEM:
2	"	CAT423-2ND-ASB-13	9	BROWN MASTIC BEHIND COVEBASE		1, 2, 3, 4, 5, 6, 7 G MD P	F NF	PLM: TEM:
2	"	CAT423-2ND-ASB-14	10	BEIGE ~~WAX~~ FLOORING-LINOLEUM		1, 2, 3, 4, 5, 6, 7 G MD P	F NF	PLM: TEM:
2	"	CAT423-2ND-ASB-15	11	BROWN MASTIC UNDER BEIGE LINOLEUM		1, 2, 3, 4, 5, 6, 7 G MD P	F NF	PLM: TEM:
2	LUNCH ROOM	CAT423-2ND-ASB-16	8	BLACK VINYL COVEBASE		1, 2, 3, 4, 5, 6, 7 G MD P	F NF	PLM: TEM:
2	"	CAT423-2ND-ASB-17	9	BROWN MASTIC BEHIND BLACK VINYL COVEBASE		1, 2, 3, 4, 5, 6, 7 G MD P	F NF	PLM: TEM:
2	"	CAT423-2ND-ASB-18	10	BEIGE LINOLEUM FLOORING		1, 2, 3, 4, 5, 6, 7 G MD P	F NF	PLM: TEM:

PHYSICAL CONDITION ASSESSMENT
1 Damaged or Significantly Damaged Friable TSI
2 Damaged Friable Surfacing ACM
3 Significantly Damaged Friable Surfacing ACM
4 Damaged or Significantly Damaged Friable Misc. ACM
5 ACBM with potential for Damage
6 ACBM with potential for Significant Damage
7 Remaining Friable or Suspect ACBM
G – Good / MD – Minor Damage / P -Poor

FRIABLE
Yes (Y)
No (N)

PLM - POLARIZED LIGHT MICROSCOPY
TEM - TRANSMISSION ELECTRON MICROSCOPY

RELINQUISHED BY: [signature] DATE: 12/20/17 TIME: QC BY
RECEIVED BY: Rosemary Pelter DATE: 12/20/17 TIME:
RELINQUISHED BY: [signature] DATE: 12/20 TIME: ADD
RECEIVED BY: [signature] DATE: 12/20/17 TIME: 1130

NYSDOL INSPECTOR:
CERTIFICATE NO.: 12-14716
TELEPHONE NO: 845 545 0411
ADDRESS: 1353 KINGS HIGHWAY SUGAR LOAF NY

1. A visual determination of accessible suspect materials and condition.
2. Collect bulk samples of suspect building materials.
3. A physical "Hand Pressure" test for determining friability and condition.
4. Assessment of suspect friable and non-friable materials and locations.
5. Quantify the amount of suspect materials in their respective locations.
6. Submit bulk samples for analysis by PLM and/or TEM Method.
7. Bulk Sample locations and suspect materials were identified on the appropriate building floor plan diagram with the sample number.
8. A Chain of Custody record accompanied the samples to the laboratory.

FIELD NOTES:

ANALYZE: ☐ ALL ☒ STOP AT FIRST POSITIVE ☐ PLM ☐ TEM

NICHE ANALYSIS, INC.
399 Knollwood Road, Suite 208
White Plains, NY 10603
914-288-0805
914-288-0807 (Fax)

42846

TURN AROUND TIME:
☐ RUSH ☐ 6 HRS ___ ☐ 24 HRS ☐ OTHER ___

ASBESTOS FIELD SURVEY DATA SHEET / BULK SAMPLE LOG

PAGE 3 OF 8

PROJECT NO.:
CLIENT: BIDWELL
PROJECT SITE: KENSICO LAB
INVESTIGATOR:

LOCATION(S) SURVEYED: KENSICO LAB
SCOPE OF WORK: INTERIOR RENOVATION
INSPECTOR: M. WELLOCK DATE(S) OF INSPECTION: 12/18 + 12/19/17

FUNCTIONAL SPACE		SAMPLE # OR ASSUMED	HOMOGENEOUS		QUANTITY	ASSESSMENT		ASBESTOS CONTENT
FLOOR	AREA DESCRIPTION		HID	MATERIAL DESCRIPTION	(LF/SF)	COND	FRIAB	%
2	LUNCH ROOM	CAT423-2ND-ASB-19	12	BROWN MASTIC / GREY LEVELING COMPOUND		1, 2, 3, 4, 5, 6, 7 G MD P	F (NF)	PLM: TEM:
2	11	CAT423-2ND-ASB-20	12	BROWN MASTIC / GREY LEVELING COMPOUND		1, 2, 3, 4, 5, 6, 7 G MD P	F (NF)	PLM: TEM:
2	WOMEN'S RESTROOM	CAT423-2ND-ASB-21	13	GREEN WALL MORTAR		1, 2, 3, 4, 5, 6, 7 G MD P	F (NF)	PLM: TEM: NO
2	WATERSHED OFFICE	CAT423-2ND-ASB-22	1	GREY VINYL COVEBASE		1, 2, 3, 4, 5, 6, 7 G MD P	F (NF)	PLM: TEM:
2	11	CAT423-2ND-ASB-23	2	BROWN MASTIC ASSOCIA- W/ GREY COVEBASE		1, 2, 3, 4, 5, 6, 7 G MD P	F (NF)	PLM: TEM:
2	11	CAT423-2ND-ASB-24	3	BROWN MASTIC UNDER CARPET		1, 2, 3, 4, 5, 6, 7 G MD P	F (NF)	PLM: TEM:
2	MENS REST ROOM	CAT423-2ND-ASB-25	13	GREEN WALL MORTAR		1, 2, 3, 4, 5, 6, 7 G MD P	F (NF)	PLM: TEM: NO
2	WOMEN'S RESTROOM	CAT423-2ND-ASB-26	14	BLACK ~~CAULK~~ CAULK ON RADIATOR		1, 2, 3, 4, 5, 6, 7 G MD P	F (NF)	PLM: TEM:
2	MENS REST ROOM	CAT423-2ND-ASB-27	14	BLACK CAULK ON RADIATOR		1, 2, 3, 4, 5, 6, 7 G MD P	F (NF)	PLM: TEM:

PHYSICAL CONDITION ASSESSMENT
1 Damaged or Significantly Damaged Friable TSI
2 Damaged Friable Surfacing ACM
3 Significantly Damaged Friable Surfacing ACM
4 Damaged or Significantly Damaged Friable Misc. ACM
5 ACBM with potential for Damage
6 ACBM with potential for Significant Damage
7 Remaining Friable or Suspect ACBM
G – Good / MD – Minor Damage / P -Poor

FRIABLE: Yes (Y) No (N)

PLM - POLARIZED LIGHT MICROSCOPY TEM - TRANSMISSION ELECTRON MICROSCOPY

RELINQUISHED BY: [signature] DATE: 12/20/17 TIME: QC BY
RECEIVED BY: Rosemary Reldo DATE: 12/20/17 TIME:
RELINQUISHED BY: [signature] DATE: TIME:
RECEIVED BY: [signature] DATE: 12/20/17 TIME: 11:30

FIELD NOTES:

ANALYZE: ☐ ALL ☒ STOP AT FIRST POSITIVE ☐ PLM ☐ TEM

NYSDOL INSPECTOR CERTIFICATE NO.: 12-14716
TELEPHONE NO 845 545 0411
ADDRESS: 1353 KINGS HIGHWAY, SUGAR LOAF NY, 10981

1. A visual determination of accessible suspect materials and condition.
2. Collect bulk samples of suspect building materials.
3. A physical "Hand Pressure" test for determining friability and condition.
4. Assessment of suspect friable and non-friable materials and locations.
5. Quantify the amount of suspect materials in their respective locations.
6. Submit bulk samples for analysis by PLM and/or TEM Method.
7. Bulk Sample locations and suspect materials were identified on the appropriate building floor plan diagram with the sample number.
8. A Chain of Custody record accompanied the samples to the laboratory.

NICHE ANALYSIS, INC.
399 Knollwood Road, Suite 208
White Plains, NY 10603
914-288-0805
914-288-0807 (Fax)

42T46

TURN AROUND TIME:
☐ RUSH ☐ 6 HRS ☐ 24 HRS ☐ OTHER

ASBESTOS FIELD SURVEY DATA SHEET / BULK SAMPLE LOG

PAGE 4 OF 8

PROJECT NO.:
CLIENT: BIDWELL
PROJECT SITE: KENSICO LAB
INVESTIGATOR:

LOCATION(S) SURVEYED: KENSICO 2AB
SCOPE OF WORK: INTERIOR ~~OF~~ RENOVATION
INSPECTOR: M. WELLOCK DATE(S) OF INSPECTION: 12/18+12/19/17

FUNCTIONAL SPACE		SAMPLE # OR ASSUMED	HOMOGENEOUS		QUANTITY	ASSESSMENT		ASBESTOS CONTENT
FLOOR	AREA DESCRIPTION		HID	MATERIAL DESCRIPTION	(LF/SF)	COND	FRIAB	%
2	STAIRWELL	CAT423-2ND-ASB-28	15	WHITE RADIATOR SHIELDING		1, 2, 3, 4, 5, 6, 7 (G) MD P	F (NF)	PLM: TEM: No
2	LIBRARY + CONFERENCE ROOM	CAT423-2ND-ASB-29	15	WHITE RADIATOR SHIELDING		1, 2, 3, 4, 5, 6, 7 (G) MD P	F (NF)	PLM: TEM: No
3	ATTIC	CAT423-ATT-ASB-30	16	BLACK GASKET ON HVAC ACCESS ~~HATCH~~ UNIT		1, 2, 3, 4, 5, 6, 7 G MD (P)	F (NF)	PLM: TEM:
3	"	CAT423-ATT-ASB-31	16	BLACK GASKET ON FAN #2 ACCESS HATCH		1, 2, 3, 4, 5, 6, 7 (G) MD P	F (NF)	PLM: TEM:
3	"	CAT423-ATT-ASB-32	17	GREY CHIMNEY MORTAR		1, 2, 3, 4, 5, 6, 7 (G) MD P	F (NF)	PLM: TEM:
3	"	CAT423-ATT-ASB-33	17	GREY CHIMNEY MORTAR		1, 2, 3, 4, 5, 6, 7 (G) MD P	F (NF)	PLM: TEM:
1	GENERAL LAB	CAT423-1ST-ASB-34	18	BLACK LAB COUNTERTOP ~~HOLD~~		1, 2, 3, 4, 5, 6, 7 (G) MD P	F (NF)	PLM: TEM:
1	"	CAT423-1ST-ASB-35	19	BLACK COUNTERTOP BONDING AGENT		1, 2, 3, 4, 5, 6, 7 (G) MD P	F (NF)	PLM: TEM:
1	"	CAT423-1ST-ASB-36	19	BLACK COUNTERTOP BONDING AGENT		1, 2, 3, 4, 5, 6, 7 (G) MD P	F (NF)	PLM: TEM:

PHYSICAL CONDITION ASSESSMENT
1 Damaged or Significantly Damaged Friable TSI
2 Damaged Friable Surfacing ACM
3 Significantly Damaged Friable Surfacing ACM
4 Damaged or Significantly Damaged Friable Misc. ACM
5 ACBM with potential for Damage
6 ACBM with potential for Significant Damage
7 Remaining Friable or Suspect ACBM
G – Good / MD – Minor Damage / P -Poor

FRIABLE
Yes (Y)
No (N)

PLM - POLARIZED LIGHT MICROSCOPY TEM - TRANSMISSION ELECTRON MICROSCOPY

RELINQUISHED BY: [signature] DATE: 12/20/17 TIME: QC BY
RECEIVED BY: Rosemary Ratto DATE: 12/20/17 TIME:
RELINQUISHED BY: [signature] DATE: 12/20/17 TIME: AM
RECEIVED BY: [signature] DATE: 12/20/17 TIME: 1130

FIELD NOTES:

ANALYZE: ☐ ALL ☒ STOP AT FIRST POSITIVE ☐ PLM ☐ TEM

NYSDOL INSPECTOR:
CERTIFICATE NO.: 12 - 14716
TELEPHONE NO 845 545 0411
ADDRESS: 1353 KINGS HIGHWAY, SUGAR LOAF, NY

1. A visual determination of accessible suspect materials and condition.
2. Collect bulk samples of suspect building materials.
3. A physical "Hand Pressure" test for determining friability and condition.
4. Assessment of suspect friable and non-friable materials and locations.
5. Quantify the amount of suspect materials in their respective locations.
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8. A Chain of Custody record accompanied the samples to the laboratory.

NICHE ANALYSIS, INC.
399 Knollwood Road, Suite 208
White Plains, NY 10603
914-288-0805
914-288-0807 (Fax)

42846

TURN AROUND TIME:
☐ RUSH ☐ 6 HRS ___ ☐ 24 HRS ☐ OTHER ___

ASBESTOS FIELD SURVEY DATA SHEET / BULK SAMPLE LOG

PAGE 5 OF 8

PROJECT NO.:
CLIENT: BIOMED
PROJECT SITE: KENSICO LAB
INVESTIGATOR:

LOCATION(S) SURVEYED: KENSICO LAB
SCOPE OF WORK: INTERIOR RENOVATION
INSPECTOR: M. WELLOCK DATE(S) OF INSPECTION: 12/18 + 12/19/17

FUNCTIONAL SPACE		SAMPLE # OR ASSUMED	HOMOGENEOUS		QUANTITY	ASSESSMENT		ASBESTOS CONTENT
FLOOR	AREA DESCRIPTION		HID	MATERIAL DESCRIPTION	(LF/SF)	COND	FRIAB	%
1	PHYSICAL LAB	CAT423-1ST -ASB-37	18	BLACK COUNTERTOPS HOLD		1, 2, 3, 4, 5, 6, 7 G MD P	F NF	PLM: TEM:
1	GENERAL LAB	CAT423-1ST. -ASB-38	20	TAN CANVAS WIRE WRAP		1, 2, 3, 4, 5, 6, 7 G MD P	F NF	PLM: TEM:
1	GENERAL LAB	CAT423-1ST -ASB-39	20	TAN CANVAS WIRE WRAP		1, 2, 3, 4, 5, 6, 7 G MD P	F NF	PLM: TEM:
1	AUTOCLAVE ROOM	CAT423-1ST -ASB-40	21	WHITE ROPE GASKET		1, 2, 3, 4, 5, 6, 7 G MD P	F NF	PLM: TEM:
1	"	CAT423-1ST -ASB-41	21	WHITE ROPE GASKET		1, 2, 3, 4, 5, 6, 7 G MD P	F NF	PLM: TEM:
-1	BOILER ROOM	CAT423-BASE -ASB-42	22	SILVER BOILER PAINT		1, 2, 3, 4, 5, 6, 7 G MD P	F NF	PLM: TEM:
-1	"	CAT423-BASE -ASB-43	22	SILVER BOILER PAINT		1, 2, 3, 4, 5, 6, 7 G MD P	F NF	PLM: TEM:
-1	"	CAT423-BASE -ASB-44	23	BLACK BOILER PACKING ROPE		1, 2, 3, 4, 5, 6, 7 G MD P	F NF	PLM: TEM:
-1	"	CAT423-BASE -ASB-45	23	BLACK BOILER PACKING ROPE		1, 2, 3, 4, 5, 6, 7 G MD P	F NF	PLM: TEM:

PHYSICAL CONDITION ASSESSMENT
1 Damaged or Significantly Damaged Friable TSI
2 Damaged Friable Surfacing ACM
3 Significantly Damaged Friable Surfacing ACM
4 Damaged or Significantly Damaged Friable Misc. ACM
5 ACBM with potential for Damage
6 ACBM with potential for Significant Damage
7 Remaining Friable or Suspect ACBM
G – Good / MD – Minor Damage / P -Poor

FRIABLE
Yes (Y)
No (N)

PLM - POLARIZED LIGHT MICROSCOPY TEM - TRANSMISSION ELECTRON MICROSCOPY

RELINQUISHED BY: [signature] DATE: 12/20/17 TIME: QC BY
RECEIVED BY: Rosemary Reilly DATE: 12/20/17 TIME:
RELINQUISHED BY: [signature] DATE: 12/22/17 TIME:
RECEIVED BY: [signature] DATE: 12/23/17 TIME: 11:20

NYSDOL INSPECTOR: 12-14716
CERTIFICATE NO.:
TELEPHONE NO 845 545 0411
ADDRESS: 1353 KINGS HIGHWAY, SUGAR LOAF NY

1. A visual determination of accessible suspect materials and condition.
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FIELD NOTES:

ANALYZE: ☐ ALL ☐ STOP AT FIRST POSITIVE ☐ PLM ☐ TEM

NICHE ANALYSIS, INC.
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White Plains, NY 10603
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42846

TURN AROUND TIME:
☐ RUSH ☐ 6 HRS ☐ 24 HRS ☐ OTHER

ASBESTOS FIELD SURVEY DATA SHEET / BULK SAMPLE LOG

PROJECT NO.:
CLIENT: BIDWELL
PROJECT SITE: KENSICO LAB
INVESTIGATOR:

LOCATION(S) SURVEYED: KENSICO LAB
SCOPE OF WORK: INTERIOR RENOVATION
INSPECTOR: M. WELLOCK DATE(S) OF INSPECTION: 12/18 + 12/19/17

FLOOR	AREA DESCRIPTION	SAMPLE # OR ASSUMED	HID	MATERIAL DESCRIPTION	QUANTITY (LF/SF)	COND	FRIAB	ASBESTOS CONTENT %
-1	BOILER ROOM	CAT423-BASE-ASB-46	24	RED FIRE BRICK		1, 2, 3, 4, 5, 6, 7 G MD P (MD circled)	F NF (NF circled)	PLM: TEM:
-1	"	CAT423-BASE-ASB-47	24	RED FIRE BRICK		1, 2, 3, 4, 5, 6, 7 G MD P (MD circled)	F NF (NF circled)	PLM: TEM:
-1	"	CAT423-BASE-ASB-48	25	GREY WALL PENETRATION SEALANT		1, 2, 3, 4, 5, 6, 7 G MD P (G circled)	F NF (NF circled)	PLM: TEM:
-1	"	CAT423-BASE-ASB-49	25	GREY WALL PENETRATION SEALANT		1, 2, 3, 4, 5, 6, 7 G MD P (G circled)	F NF (NF circled)	PLM: TEM:
-1	"	CAT423-BASE-ASB-50	26	WHITE PAPER GASKET		1, 2, 3, 4, 5, 6, 7 G MD P (P circled)	F NF (NF circled)	PLM: TEM:
-1	"	CAT423-BASE-ASB-51	26	"		1, 2, 3, 4, 5, 6, 7 G MD P (P circled)	F NF (NF circled)	PLM: TEM:
-1	"	CAT423-BASE-ASB-52	27	BLACK BRAIDED WIRE		1, 2, 3, 4, 5, 6, 7 G MD P (G circled)	F NF (NF circled)	PLM: TEM:
-1	"	CAT423-BASE-ASB-53	27	BLACK BRAIDED WIRE		1, 2, 3, 4, 5, 6, 7 G MD P (G circled)	F NF (NF circled)	PLM: TEM:
-1	"	CAT423-BASE-ASB-54	28	GREY DOOR GLAZING		1, 2, 3, 4, 5, 6, 7 G MD P (G circled)	F NF (NF circled)	PLM: TEM:

PHYSICAL CONDITION ASSESSMENT
1 Damaged or Significantly Damaged Friable TSI
2 Damaged Friable Surfacing ACM
3 Significantly Damaged Friable Surfacing ACM
4 Damaged or Significantly Damaged Friable Misc. ACM
5 ACBM with potential for Damage
6 ACBM with potential for Significant Damage
7 Remaining Friable or Suspect ACBM
G – Good / MD – Minor Damage / P -Poor

FRIABLE
Yes (Y)
No (N)

PLM - POLARIZED LIGHT MICROSCOPY TEM - TRANSMISSION ELECTRON MICROSCOPY

QC BY

RELINQUISHED BY: [signature] DATE: 12/20/17 TIME:
RECEIVED BY: Rosemary [signature] DATE: 12/20/17 TIME:
RELINQUISHED BY: [signature] DATE: [illegible] TIME:
RECEIVED BY: [signature] DATE: 12/20/17 TIME: 11:20

NYSDOL INSPECTOR CERTIFICATE NO.: 12-14716
TELEPHONE NO: 845 545 0411
ADDRESS: 1353 KINGS HIGHWAY, SUGAR LOAF, NY

1. A visual determination of accessible suspect materials and condition.
2. Collect bulk samples of suspect building materials.
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FIELD NOTES:

ANALYZE: ☐ ALL ☒ STOP AT FIRST POSITIVE ☐ PLM ☐ TEM

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42846

TURN AROUND TIME:
☐ RUSH ☐ 6 HRS ☐ 24 HRS ☐ OTHER

ASBESTOS FIELD SURVEY DATA SHEET / BULK SAMPLE LOG

PAGE 7 OF 8

PROJECT NO.:
CLIENT: BIDWELL
PROJECT SITE: KENSICO LAB
INVESTIGATOR:

LOCATION(S) SURVEYED: KENSICO LAB
SCOPE OF WORK: INTERIOR RENOVATION
INSPECTOR: M. WELLOCK DATE(S) OF INSPECTION: 12/18 + 12/19/17

FUNCTIONAL SPACE		SAMPLE # OR ASSUMED	HOMOGENEOUS		QUANTITY	ASSESSMENT		ASBESTOS CONTENT
FLOOR	AREA DESCRIPTION		HID	MATERIAL DESCRIPTION	(LF/SF)	COND	FRIAB	%
-1	~~BOILER ROOM~~ MW STORAGE ROOM	CAT423-BASE-ASB-55	28	GREY DOOR GLAZING		1, 2, 3, 4, 5, 6, 7 G MD P	F (NF)	PLM: TEM:
1	EXTERIOR	CAT423-EXT-ASB-56	29	WHITE WINDOW CAULK		1, 2, 3, 4, 5, 6, 7 G MD P	F (NF)	PLM: TEM:
1	"	CAT423-EXT-ASB-57	29	WHITE WINDOW CAULK		1, 2, 3, 4, 5, 6, 7 G MD P	F (NF)	PLM: TEM:
1	GENERAL LAB	CAT423-1ST-ASB-58	30	BEIGE LINOLEUM FLOORING		1, 2, 3, 4, 5, 6, 7 G (MD) P	F (NF)	PLM: TEM:
1	"	CAT423-1ST-ASB-59	31	BROWN MASTIC UNDER LINOLEUM		1, 2, 3, 4, 5, 6, 7 G MD P	F NF	PLM: TEM:
1	WATER + SEWAGE LAB	CAT423-1ST-ASB-60	30	BEIGE LINOLEUM FLOORING		1, 2, 3, 4, 5, 6, 7 G MD P	F (NF)	PLM: TEM:
1	"	CAT423-1ST-ASB-61	31 MW	BROWN MASTIC UNDER LINOLEUM		1, 2, 3, 4, 5, 6, 7 G MD P	F (NF)	PLM: TEM:
-1	BOILER ROOM	CAT423-BASE-ASB-62	32	WHITE BRAIDED WIRE		1, 2, 3, 4, 5, 6, 7 G MD P	F (NF)	PLM: TEM:
-1	"	CAT423-BASE-ASB-63	32	WHITE BRAIDED WIRE		1, 2, 3, 4, 5, 6, 7 G MD P	F (NF)	PLM: TEM:

PHYSICAL CONDITION ASSESSMENT	FRIABLE
1 Damaged or Significantly Damaged Friable TSI 2 Damaged Friable Surfacing ACM 3 Significantly Damaged Friable Surfacing ACM 4 Damaged or Significantly Damaged Friable Misc. ACM 5 ACBM with potential for Damage 6 ACBM with potential for Significant Damage 7 Remaining Friable or Suspect ACBM G – Good / MD – Minor Damage / P -Poor	Yes (Y) No (N)

PLM - POLARIZED LIGHT MICROSCOPY TEM - TRANSMISSION ELECTRON MICROSCOPY

RELINQUISHED BY: [signature] DATE: 12/20/17 TIME: QC BY
RECEIVED BY: Rosemary Retta DATE: 12/20/17 TIME:
RELINQUISHED BY: [signature] DATE: 12/20/17 TIME: ALL
RECEIVED BY: [signature] DATE: 12/20/17 TIME: 1120

FIELD NOTES:

ANALYZE: ☐ ALL ☒ STOP AT FIRST POSITIVE ☐ PLM ☐ TEM

NYSDOL INSPECTOR: M. WELLOCK
CERTIFICATE NO.: 12-14716
TELEPHONE NO: 845 545 0411
ADDRESS: 1353 KINGS HIGHWAY, SUGAR LOAF NY

1. A visual determination of accessible suspect materials and condition.
2. Collect bulk samples of suspect building materials.
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White Plains, NY 10603
914-288-0805
914-288-0807 (Fax)

42846

TURN AROUND TIME:
☐ RUSH ☐ 6 HRS ___ ☐ 24 HRS ☐ OTHER ___

ASBESTOS FIELD SURVEY DATA SHEET / BULK SAMPLE LOG

PROJECT NO.:
CLIENT: BIDWELL
PROJECT SITE: KENSICO LAB
INVESTIGATOR:

LOCATION(S) SURVEYED: KENSICO LAB
SCOPE OF WORK: INTERIOR RENOVATION
INSPECTOR: M. WELLOCK DATE(S) OF INSPECTION: 12/18 + 12/19/17

FUNCTIONAL SPACE		SAMPLE # OR ASSUMED	HOMOGENEOUS		QUANTITY	ASSESSMENT		ASBESTOS CONTENT
FLOOR	AREA DESCRIPTION		HID	MATERIAL DESCRIPTION	(LF/SF)	COND	FRIAB	%
-1	BOILER ROOM	CAT40-BASE-ASB-64	33	RED BRAIDED WIRE		1, 2, 3, 4, 5, 6, 7 G MD P	F (NF)	PLM: TEM:
-1	"	CAT423-BASE-ASB-65	33	RED BRAIDED WIRE		1, 2, 3, 4, 5, 6, 7 G MD P	F (NF)	PLM: TEM:
1	WATER LAB	CAT423-1ST-ASB-66	34	TAN FUME HOOD SHELF		1, 2, 3, 4, 5, 6, 7 G MD P	F (NF)	PLM: TEM:
1	"	CAT423-1ST-ASB-67	34	TAN FUME HOOD SHELF		1, 2, 3, 4, 5, 6, 7 G MD P	F (NF)	PLM: TEM:
						1, 2, 3, 4, 5, 6, 7 G MD P	F NF	PLM: TEM:
						1, 2, 3, 4, 5, 6, 7 G MD P	F NF	PLM: TEM:
						1, 2, 3, 4, 5, 6, 7 G MD P	F NF	PLM: TEM:
						1, 2, 3, 4, 5, 6, 7 G MD P	F NF	PLM: TEM:
						1, 2, 3, 4, 5, 6, 7 G MD P	F NF	PLM: TEM:

PHYSICAL CONDITION ASSESSMENT
1 Damaged or Significantly Damaged Friable TSI
2 Damaged Friable Surfacing ACM
3 Significantly Damaged Friable Surfacing ACM
4 Damaged or Significantly Damaged Friable Misc. ACM
5 ACBM with potential for Damage
6 ACBM with potential for Significant Damage
7 Remaining Friable or Suspect ACBM
G – Good / MD – Minor Damage / P -Poor

FRIABLE
Yes (Y)
No (N)

PLM - POLARIZED LIGHT MICROSCOPY TEM - TRANSMISSION ELECTRON MICROSCOPY

RELINQUISHED BY: _____ DATE: 12/20/17 TIME: _____
RECEIVED BY: Rosemary Kelly DATE: 12/20/17 TIME: _____
RELINQUISHED BY: _____ DATE: _____ TIME: _____
RECEIVED BY: _____ DATE: 12/20/17 TIME: 1120

NYSDOL INSPECTOR:
CERTIFICATE NO.:
TELEPHONE NO
ADDRESS

1. A visual determination of accessible suspect materials and condition.
2. Collect bulk samples of suspect building materials.
3. A physical "Hand Pressure" test for determining friability and condition.
4. Assessment of suspect friable and non-friable materials and locations.
5. Quantify the amount of suspect materials in their respective locations.
6. Submit bulk samples for analysis by PLM and/or TEM Method.
7. Bulk Sample locations and suspect materials were identified on the appropriate building floor plan diagram with the sample number.
8. A Chain of Custody record accompanied the samples to the laboratory.

FIELD NOTES:

ANALYZE: ☐ ALL ☒ STOP AT FIRST POSITIVE ☐ PLM ☐ TEM

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Accreditations:
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ELAP 10879

Microscopes:
OLYMPUS BH-2 / NIKON OPTIPHOT

BULK ASBESTOS ANALYSIS SHEET

Client / Project N.Eche / Bidwell / Kensico Lak Project Number ______

Analysis Date 12/21/17 Analyst N. Forter Batch Number 42846

TEMPERATURE °c 21

1 Field Number 01

Stereoscopic Exam		PLM Optical Properties	Asbestos Results PLM %	Other Fibrous PLM %	Non Fibrous PLM %	SM-V Results	Gravimetric (NOB) Results
Color Gy	Texture NF	Morph / Extinction / RI ⊥ / RI ∥ / DS Color / Color, Pleo / Biref / Sign / Other / Identity	___ Chrysotile	___ Cellulose	___ Mineral Filler	☐ See SM-V (ELAP 198.8) Analysis Sheet for Results	☑ See Gravimetric (NOB) Analysis Sheet for Results
Homogenity	Vermiculite ☐ ☑		___ Amosite	___ Fiberglass	___ Organic Binders		
# of Layers	Asbestos ☐ ☑		___ Other	___ Other	___ Vermiculite *		
Color of Layer	Detected Yes No			Cellulose Ondulose Extinction ☐	___ Other		
Comments:				Fiberglass Isotropic ☐			
				Synthetic High Birefringence ☐			
				Horse Hair: Scales, Low to Moderate Birefringence ☐			

Gravimetric Required ☑ Recommended ☐
SM-V Required ☐
POINT COUNT RESULTS ON THE BACK
Method: ☑ ELAP ☐ EPA ☑ SCANNING OPTION: ELAP (P.C.) & EPA
See Note # 1 or Note # 2
Q.C. ☐
* If vermiculite is >10% the level of asbestos in a sample might be underestimated. See Note #3.

2 Field Number 02

Stereoscopic Exam		PLM Optical Properties	Asbestos Results PLM %	Other Fibrous PLM %	Non Fibrous PLM %	SM-V Results	Gravimetric (NOB) Results
Color Br	Texture NF	Morph / Extinction / RI ⊥ / RI ∥ / DS Color / Color, Pleo / Biref / Sign / Other / Identity	___ Chrysotile	___ Cellulose	___ Mineral Filler	☐ See SM-V (ELAP 198.8) Analysis Sheet for Results	☑ See Gravimetric (NOB) Analysis Sheet for Results
Homogenity	Vermiculite ☐ ☑		___ Amosite	___ Fiberglass	___ Organic Binders		
# of Layers	Asbestos ☐ ☑		___ Other	___ Other	___ Vermiculite *		
Color of Layer	Detected Yes No			Cellulose Ondulose Extinction ☐	___ Other		
Comments:				Fiberglass Isotropic ☐			
				Synthetic High Birefringence ☐			
				Horse Hair: Scales, Low to Moderate Birefringence ☐			

Gravimetric Required ☑ Recommended ☐
SM-V Required ☐
POINT COUNT RESULTS ON THE BACK
Method: ☑ ELAP ☐ EPA ☑ SCANNING OPTION: ELAP (P.C.) & EPA
See Note # 1 or Note # 2
Q.C. ☐
* If vermiculite is >10% the level of asbestos in a sample might be underestimated. See Note #3.

3 Field Number 03

Stereoscopic Exam		PLM Optical Properties	Asbestos Results PLM %	Other Fibrous PLM %	Non Fibrous PLM %	SM-V Results	Gravimetric (NOB) Results
Color Br	Texture NF	Morph / Extinction / RI ⊥ / RI ∥ / DS Color / Color, Pleo / Biref / Sign / Other / Identity	___ Chrysotile	___ Cellulose	___ Mineral Filler	☐ See SM-V (ELAP 198.8) Analysis Sheet for Results	☐ See Gravimetric (NOB) Analysis Sheet for Results
Homogenity	Vermiculite ☐ ☑		___ Amosite	___ Fiberglass	___ Organic Binders		
# of Layers	Asbestos ☐ ☑		___ Other	___ Other	___ Vermiculite *		
Color of Layer	Detected Yes No			Cellulose Ondulose Extinction ☐	___ Other		
Comments:				Fiberglass Isotropic ☐			
				Synthetic High Birefringence ☐			
				Horse Hair: Scales, Low to Moderate Birefringence ☐			

Gravimetric Required ☐ Recommended ☐
SM-V Required ☐
POINT COUNT RESULTS ON THE BACK
Method: ☐ ELAP ☐ EPA ☑ SCANNING OPTION: ELAP (P.C.) & EPA
See Note # 1 or Note # 2
Q.C. ☐
* If vermiculite is >10% the level of asbestos in a sample might be underestimated. See Note #3.

4 Field Number 04

Stereoscopic Exam		PLM Optical Properties	Asbestos Results PLM %	Other Fibrous PLM %	Non Fibrous PLM %	SM-V Results	Gravimetric (NOB) Results
Color Gy	Texture NF	Morph / Extinction / RI ⊥ / RI ∥ / DS Color / Color, Pleo / Biref / Sign / Other / Identity	___ Chrysotile	___ Cellulose	___ Mineral Filler	☐ See SM-V (ELAP 198.8) Analysis Sheet for Results	☐ See Gravimetric (NOB) Analysis Sheet for Results
Homogenity	Vermiculite ☐ ☑		___ Amosite	___ Fiberglass	___ Organic Binders		
# of Layers	Asbestos ☐ ☑		___ Other	___ Other	___ Vermiculite *		
Color of Layer	Detected Yes No			Cellulose Ondulose Extinction ☐	___ Other		
Comments:				Fiberglass Isotropic ☐			
				Synthetic High Birefringence ☐			
				Horse Hair: Scales, Low to Moderate Birefringence ☐			

Gravimetric Required ☑ Recommended ☐
SM-V Required ☐
POINT COUNT RESULTS ON THE BACK
Method: ☐ ELAP ☐ EPA ☑ SCANNING OPTION: ELAP (P.C.) & EPA
See Note # 1 or Note # 2
Q.C. ☐
* If vermiculite is >10% the level of asbestos in a sample might be underestimated. See Note #3.

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ELAP 10879

Microscopes:
OLYMPUS BH-2 / NIKON OPTIPHOT

BULK ASBESTOS ANALYSIS SHEET

Client / Project: MECNe / Bidwell / Kensico Lake   Project Number: ______

Analysis Date: 12/21/17   Analyst: NF   Batch Number: 42846   TEMPERATURE °c: 21

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1 — Field Number: 05

Stereoscopic Exam
- Gravimetric Required ☐ Recommended ☐
- SM-V Required ☐
- Color: Gy   Texture: NF
- Homogenity ______   Vermiculite ☐ ☐
- # of Layers ______   Asbestos ☐ ☐
- Color of Layer ______   Detected Yes No
- Comments:
- Method: ☐ ELAP ☐ EPA ☐ SCANNING OPTION: ELAP (P.C.) & EPA
- See Note # 1 or Note # 2
- POINT COUNT RESULTS ON THE BACK
- Q.C. ☐

PLM Optical Properties

Morph	Extinction	RI ⊥	RI ‖	DS Color	Color, Pleo	Biref	Sign	Other	Identity

Asbestos Results PLM %: ____ Chrysotile; ____ Amosite; ____ Other

Other Fibrous PLM %: ____ Cellulose; ____ Fiberglass; ____ Other; Cellulose Ondulose Extinction ☐; Fiberglass Isotopic ☐; Synthetic High Birefringence ☐; Horse Hair: Scales, Low to Moderate Birefringence ☐

Non Fibrous PLM %: ____ Mineral Filler; ____ Organic Binders; ____ Vermiculite *; ____ Other

* If vermiculite is >10% the level of asbestos in a sample might be underestimated. See Note #3.

SM-V Results: ☐ See SM-V (ELAP 198.8) Analysis Sheet for Results

Gravimetric (NOB) Results: ☐ See Gravimetric (NOB) Analysis Sheet for Results

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2 — Field Number: 06

Stereoscopic Exam
- Gravimetric Required ☐ Recommended ☐
- SM-V Required ☐
- Color: Bk   Texture: NF
- Homogenity ______   Vermiculite ☐ ☐
- # of Layers ______   Asbestos ☐ ☐
- Color of Layer ______   Detected Yes No
- Comments:
- Method: ☐ ELAP ☐ EPA ☐ SCANNING OPTION: ELAP (P.C.) & EPA
- See Note # 1 or Note # 2
- POINT COUNT RESULTS ON THE BACK
- Q.C. ☐

PLM Optical Properties

Morph	Extinction	RI ⊥	RI ‖	DS Color	Color, Pleo	Biref	Sign	Other	Identity

Asbestos Results PLM %: ____ Chrysotile; ____ Amosite; ____ Other

Other Fibrous PLM %: ____ Cellulose; ____ Fiberglass; ____ Other; Cellulose Ondulose Extinction ☐; Fiberglass Isotopic ☐; Synthetic High Birefringence ☐; Horse Hair: Scales, Low to Moderate Birefringence ☐

Non Fibrous PLM %: ____ Mineral Filler; ____ Organic Binders; ____ Vermiculite *; ____ Other

* If vermiculite is >10% the level of asbestos in a sample might be underestimated. See Note #3.

SM-V Results: ☐ See SM-V (ELAP 198.8) Analysis Sheet for Results

Gravimetric (NOB) Results: ☐ See Gravimetric (NOB) Analysis Sheet for Results

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3 — Field Number: 07

Stereoscopic Exam
- Gravimetric Required ☐ Recommended ☐
- SM-V Required ☐
- Color: Bk   Texture: NF
- Homogenity ______   Vermiculite ☐ ☐
- # of Layers ______   Asbestos ☐ ☐
- Color of Layer ______   Detected Yes No
- Comments:
- Method: ☐ ELAP ☐ EPA ☐ SCANNING OPTION: ELAP (P.C.) & EPA
- See Note # 1 or Note # 2
- POINT COUNT RESULTS ON THE BACK
- Q.C. ☐

PLM Optical Properties

Morph	Extinction	RI ⊥	RI ‖	DS Color	Color, Pleo	Biref	Sign	Other	Identity

Asbestos Results PLM %: ____ Chrysotile; ____ Amosite; ____ Other

Other Fibrous PLM %: ____ Cellulose; ____ Fiberglass; ____ Other; Cellulose Ondulose Extinction ☐; Fiberglass Isotopic ☐; Synthetic High Birefringence ☐; Horse Hair: Scales, Low to Moderate Birefringence ☐

Non Fibrous PLM %: ____ Mineral Filler; ____ Organic Binders; ____ Vermiculite *; ____ Other

* If vermiculite is >10% the level of asbestos in a sample might be underestimated. See Note #3.

SM-V Results: ☐ See SM-V (ELAP 198.8) Analysis Sheet for Results

Gravimetric (NOB) Results: ☐ See Gravimetric (NOB) Analysis Sheet for Results

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4 — Field Number: 08

Stereoscopic Exam
- Gravimetric Required ☐ Recommended ☐
- SM-V Required ☐
- Color: Gy   Texture: NF
- Homogenity ______   Vermiculite ☐ ☐
- # of Layers ______   Asbestos ☐ ☐
- Color of Layer ______   Detected Yes No
- Comments:
- Method: ☐ ELAP ☐ EPA ☐ SCANNING OPTION: ELAP (P.C.) & EPA
- See Note # 1 or Note # 2
- POINT COUNT RESULTS ON THE BACK
- Q.C. ☐

PLM Optical Properties

Morph	Extinction	RI ⊥	RI ‖	DS Color	Color, Pleo	Biref	Sign	Other	Identity

Asbestos Results PLM %: ____ Chrysotile; ____ Amosite; ____ Other

Other Fibrous PLM %: ____ Cellulose; ____ Fiberglass; ____ Other; Cellulose Ondulose Extinction ☐; Fiberglass Isotopic ☐; Synthetic High Birefringence ☐; Horse Hair: Scales, Low to Moderate Birefringence ☐

Non Fibrous PLM %: ____ Mineral Filler; ____ Organic Binders; ____ Vermiculite *; ____ Other

* If vermiculite is >10% the level of asbestos in a sample might be underestimated. See Note #3.

SM-V Results: ☐ See SM-V (ELAP 198.8) Analysis Sheet for Results

Gravimetric (NOB) Results: ☐ See Gravimetric (NOB) Analysis Sheet for Results

---

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ELAP 10879

Microscopes:
OLYMPUS BH-2 /
NIKON OPTIPHOT

BULK ASBESTOS ANALYSIS SHEET

Client / Project MEChe / Bidwell / Kensico Lab Project Number _____

Analysis Date 12/21/17 Analyst MF Batch Number 42846 TEMPERATURE °c 24°

1 Field Number 09

Gravimetric Required ☐ Recommended ☐
SM-V Required ☐
POINT COUNT RESULTS ON THE BACK

Stereoscopic Exam
Color Gry Texture NF
Homogenity ___ Vermiculite ☐ ☒
# of Layers ___ Asbestos ☐ ☒
Color of Layer ___ Detected Yes No
Comments:
Method: ☐ ELAP ☐ EPA ☐ SCANNING OPTION: ELAP (P.C.) & EPA
See Note # 1 or Note # 2

PLM Optical Properties

Morph	Extinction	RI ⊥	RI ∥	DS Color	Color, Pleo	Biref	Sign	Other	Identity

Q.C. ☐

Asbestos Results PLM %
___ Chrysotile
___ Amosite
___ Other

Other Fibrous PLM %
___ Cellulose
___ Fiberglass
___ Other
Cellulose Undulose Extinction ☐
Fiberglass Isotopic ☐
Synthetic High Birefringence ☐ Horse Hair: Scales, Low to Moderate Birefringence ☐

Non Fibrous PLM %
___ Mineral Filler
___ Organic Binders
___ Vermiculite *
___ Other

* If vermiculite is >10% the level of asbestos in a sample might be underestimated. See Note #3.

SM-V Results
☐ See SM-V (ELAP 198.8) Analysis Sheet for Results

Gravimetric (NOB) Results
☐ See Gravimetric (NOB) Analysis Sheet for Results

2 Field Number 10

Gravimetric Required ☐ Recommended ☐
SM-V Required ☐
POINT COUNT RESULTS ON THE BACK

Stereoscopic Exam
Color Brn Texture NF
Homogenity ___ Vermiculite ☐ ☐
# of Layers ___ Asbestos ☐ ☐
Color of Layer ___ Detected Yes No
Comments:
Method: ☐ ELAP ☐ EPA ☐ SCANNING OPTION: ELAP (P.C.) & EPA
See Note # 1 or Note # 2

PLM Optical Properties

Morph	Extinction	RI ⊥	RI ∥	DS Color	Color, Pleo	Biref	Sign	Other	Identity

Q.C. ☐

Asbestos Results PLM %
___ Chrysotile
___ Amosite
___ Other

Other Fibrous PLM %
___ Cellulose
___ Fiberglass
___ Other
Cellulose Undulose Extinction ☐
Fiberglass Isotopic ☐
Synthetic High Birefringence ☐ Horse Hair: Scales, Low to Moderate Birefringence ☐

Non Fibrous PLM %
___ Mineral Filler
___ Organic Binders
___ Vermiculite *
___ Other

* If vermiculite is >10% the level of asbestos in a sample might be underestimated. See Note #3.

SM-V Results
☐ See SM-V (ELAP 198.8) Analysis Sheet for Results

Gravimetric (NOB) Results
☐ See Gravimetric (NOB) Analysis Sheet for Results

3 Field Number 11

Gravimetric Required ☐ Recommended ☐
SM-V Required ☐
POINT COUNT RESULTS ON THE BACK

Stereoscopic Exam
Color Brn Texture NF
Homogenity ___ Vermiculite ☐ ☐
# of Layers ___ Asbestos ☐ ☐
Color of Layer ___ Detected Yes No
Comments:
Method: ☐ ELAP ☐ EPA ☐ SCANNING OPTION: ELAP (P.C.) & EPA
See Note # 1 or Note # 2

PLM Optical Properties

Morph	Extinction	RI ⊥	RI ∥	DS Color	Color, Pleo	Biref	Sign	Other	Identity

Q.C. ☐

Asbestos Results PLM %
___ Chrysotile
___ Amosite
___ Other

Other Fibrous PLM %
___ Cellulose
___ Fiberglass
___ Other
Cellulose Undulose Extinction ☐
Fiberglass Isotopic ☐
Synthetic High Birefringence ☐ Horse Hair: Scales, Low to Moderate Birefringence ☐

Non Fibrous PLM %
___ Mineral Filler
___ Organic Binders
___ Vermiculite *
___ Other

* If vermiculite is >10% the level of asbestos in a sample might be underestimated. See Note #3.

SM-V Results
☐ See SM-V (ELAP 198.8) Analysis Sheet for Results

Gravimetric (NOB) Results
☐ See Gravimetric (NOB) Analysis Sheet for Results

4 Field Number 12

Gravimetric Required ☐ Recommended ☐
SM-V Required ☐
POINT COUNT RESULTS ON THE BACK

Stereoscopic Exam
Color BK Texture NF
Homogenity ___ Vermiculite ☐ ☒
# of Layers ___ Asbestos ☐ ☐
Color of Layer ___ Detected Yes No
Comments:
Method: ☐ ELAP ☐ EPA ☐ SCANNING OPTION: ELAP (P.C.) & EPA
See Note # 1 or Note # 2

PLM Optical Properties

Morph	Extinction	RI ⊥	RI ∥	DS Color	Color, Pleo	Biref	Sign	Other	Identity

Q.C. ☐

Asbestos Results PLM %
___ Chrysotile
___ Amosite
___ Other

Other Fibrous PLM %
___ Cellulose
___ Fiberglass
___ Other
Cellulose Undulose Extinction ☐
Fiberglass Isotopic ☐
Synthetic High Birefringence ☐ Horse Hair: Scales, Low to Moderate Birefringence ☐

Non Fibrous PLM %
___ Mineral Filler
___ Organic Binders
___ Vermiculite *
___ Other

* If vermiculite is >10% the level of asbestos in a sample might be underestimated. See Note #3.

SM-V Results
☐ See SM-V (ELAP 198.8) Analysis Sheet for Results

Gravimetric (NOB) Results
☐ See Gravimetric (NOB) Analysis Sheet for Results

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ELAP 10879

Microscopes:
OLYMPUS BH-2 / NIKON OPTIPHOT

BULK ASBESTOS ANALYSIS SHEET

Client / Project: MECHE / Bidwell / Kensico Lak   Project Number: ______

Analysis Date: 12/21/17   Analyst: MF   Batch Number: 42846   TEMPERATURE °C: 21°

1 — Field Number 13

Gravimetric Required ☑ Recommended ☐ / SM-V Required ☐

Stereoscopic Exam: Color: Br; Texture: NF; Homogenity: Y; Vermiculite ☐ ☑; # of Layers: 1; Asbestos Detected Yes ☐ No ☑; Color of Layer: ______

PLM Optical Properties: Morph | Extinction | RI ⊥ | RI II | DS Color | Color, Pleo | Biref | Sign | Other | Identity

Asbestos Results PLM %: ___ Chrysotile, ___ Amosite, ___ Other

Other Fibrous PLM %: ___ Cellulose, ___ Fiberglass, ___ Other; Cellulose Ondulose Extinction ☐; Fiberglass Isotopic ☐; Synthetic High Birefringence ☐; Horse Hair: Scales, Low to Moderate Birefringence ☐

Non Fibrous PLM %: ___ Mineral Filler, ___ Organic Binders, ___ Vermiculite *, ___ Other

SM-V Results: ☐ See SM-V (ELAP 198.8) Analysis Sheet for Results

Gravimetric (NOB) Results: ☑ See Gravimetric (NOB) Analysis Sheet for Results

Comments:

POINT COUNT RESULTS ON THE BACK — Method: ☑ ELAP ☐ EPA ☑ SCANNING OPTION: ELAP (P.C.) & EPA — See Note # 1 or Note # 2 — Q.C. ☐

* If vermiculite is >10% the level of asbestos in a sample might be underestimated. See Note #3.

2 — Field Number 14

Gravimetric Required ☑ Recommended ☐ / SM-V Required ☐

Stereoscopic Exam: Color: Bg; Texture: NF; Homogenity: Y; Vermiculite ☐ ☑; # of Layers: 1; Asbestos Detected Yes ☐ No ☑; Color of Layer: ______

PLM Optical Properties: Morph | Extinction | RI ⊥ | RI II | DS Color | Color, Pleo | Biref | Sign | Other | Identity

Asbestos Results PLM %: ___ Chrysotile, ___ Amosite, ___ Other

Other Fibrous PLM %: ___ Cellulose, ___ Fiberglass, ___ Other; Cellulose Ondulose Extinction ☐; Fiberglass Isotopic ☐; Synthetic High Birefringence ☐; Horse Hair: Scales, Low to Moderate Birefringence ☐

Non Fibrous PLM %: ___ Mineral Filler, ___ Organic Binders, ___ Vermiculite *, ___ Other

SM-V Results: ☐ See SM-V (ELAP 198.8) Analysis Sheet for Results

Gravimetric (NOB) Results: ☑ See Gravimetric (NOB) Analysis Sheet for Results

Comments:

POINT COUNT RESULTS ON THE BACK — Method: ☑ ELAP ☐ EPA ☑ SCANNING OPTION: ELAP (P.C.) & EPA — See Note # 1 or Note # 2 — Q.C. ☐

* If vermiculite is >10% the level of asbestos in a sample might be underestimated. See Note #3.

3 — Field Number 15

Gravimetric Required ☑ Recommended ☐ / SM-V Required ☐

Stereoscopic Exam: Color: Br; Texture: NF; Homogenity: ______; Vermiculite ☐ ☑; # of Layers: ______; Asbestos Detected Yes ☐ No ☑; Color of Layer: ______

PLM Optical Properties: Morph | Extinction | RI ⊥ | RI II | DS Color | Color, Pleo | Biref | Sign | Other | Identity

Asbestos Results PLM %: ___ Chrysotile, ___ Amosite, ___ Other

Other Fibrous PLM %: ___ Cellulose, ___ Fiberglass, ___ Other; Cellulose Ondulose Extinction ☐; Fiberglass Isotopic ☐; Synthetic High Birefringence ☐; Horse Hair: Scales, Low to Moderate Birefringence ☐

Non Fibrous PLM %: ___ Mineral Filler, ___ Organic Binders, ___ Vermiculite *, ___ Other

SM-V Results: ☐ See SM-V (ELAP 198.8) Analysis Sheet for Results

Gravimetric (NOB) Results: ☑ See Gravimetric (NOB) Analysis Sheet for Results

Comments:

POINT COUNT RESULTS ON THE BACK — Method: ☑ ELAP ☐ EPA ☑ SCANNING OPTION: ELAP (P.C.) & EPA — See Note # 1 or Note # 2 — Q.C. ☐

* If vermiculite is >10% the level of asbestos in a sample might be underestimated. See Note #3.

4 — Field Number 16

Gravimetric Required ☑ Recommended ☐ / SM-V Required ☐

Stereoscopic Exam: Color: BK; Texture: NF; Homogenity: ______; Vermiculite ☐ ☑; # of Layers: ______; Asbestos Detected Yes ☐ No ☑; Color of Layer: ______

PLM Optical Properties: Morph | Extinction | RI ⊥ | RI II | DS Color | Color, Pleo | Biref | Sign | Other | Identity

Asbestos Results PLM %: ___ Chrysotile, ___ Amosite, ___ Other

Other Fibrous PLM %: ___ Cellulose, ___ Fiberglass, ___ Other; Cellulose Ondulose Extinction ☐; Fiberglass Isotopic ☐; Synthetic High Birefringence ☐; Horse Hair: Scales, Low to Moderate Birefringence ☐

Non Fibrous PLM %: ___ Mineral Filler, ___ Organic Binders, ___ Vermiculite *, ___ Other

SM-V Results: ☐ See SM-V (ELAP 198.8) Analysis Sheet for Results

Gravimetric (NOB) Results: ☑ See Gravimetric (NOB) Analysis Sheet for Results

Comments:

POINT COUNT RESULTS ON THE BACK — Method: ☑ ELAP ☐ EPA ☑ SCANNING OPTION: ELAP (P.C.) & EPA — See Note # 1 or Note # 2 — Q.C. ☐

* If vermiculite is >10% the level of asbestos in a sample might be underestimated. See Note #3.

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NIKON OPTIPHOT

BULK ASBESTOS ANALYSIS SHEET

Client / Project MEChe / Bidwell / Kennisco Lab Project Number _____

Analysis Date 12/21/17 Analyst MF Batch Number 42846 TEMPERATURE °c 24

	Stereoscopic Exam	PLM Optical Properties	Asbestos Results PLM %	Other Fibrous PLM %	Non Fibrous PLM %	SM-V Results	Gravimetric (NOB) Results
1 Field Number 17 Gravimetric Required ☐ Recommended ☐ SM-V Required ☐ POINT COUNT RESULTS ON THE BACK	Color BR Texture NF Homogenity ____ Vermiculite ☐ ☐ # of Layers ____ Asbestos ☐ ☐ Color of Layer ____ Detected Yes No Comments: Method: ☐ ELAP ☐ EPA ☐ SCANNING OPTION: ELAP (P.C.) & EPA See Note # 1 or Note # 2	Morph Extinction RI ⊥ RI ∥ DS Color Color, Pleo Biref Sign Other Identity Q.C. ☐	____ Chrysotile ____ Amosite ____ Other	____ Cellulose ____ Fiberglass ____ Other Cellulose Ondulose Extinction ☐ Fiberglass Isotopic ☐ Synthetic High Birefringence ☐ Horse Hair: Scales, Low to Moderate Birefringence ☐ * If vermiculite is >10% the level of asbestos in a sample might be underestimated. See Note #3.	____ Mineral Filler ____ Organic Binders ____ Vermiculite * ____ Other	☐ See SM-V (ELAP 198.8) Analysis Sheet for Results	☐ See Gravimetric (NOB) Analysis Sheet for Results
2 Field Number 18 Gravimetric Required ☐ Recommended ☐ SM-V Required ☐ POINT COUNT RESULTS ON THE BACK	Color BR Texture NF Homogenity ____ Vermiculite ☐ ☐ # of Layers ____ Asbestos ☐ ☐ Color of Layer ____ Detected Yes No Comments: Method: ☐ ELAP ☐ EPA ☐ SCANNING OPTION: ELAP (P.C.) & EPA See Note # 1 or Note # 2	Morph Extinction RI ⊥ RI ∥ DS Color Color, Pleo Biref Sign Other Identity Q.C. ☐	____ Chrysotile ____ Amosite ____ Other	____ Cellulose ____ Fiberglass ____ Other Cellulose Ondulose Extinction ☐ Fiberglass Isotopic ☐ Synthetic High Birefringence ☐ Horse Hair: Scales, Low to Moderate Birefringence ☐ * If vermiculite is >10% the level of asbestos in a sample might be underestimated. See Note #3.	____ Mineral Filler ____ Organic Binders ____ Vermiculite * ____ Other	☐ See SM-V (ELAP 198.8) Analysis Sheet for Results	☐ See Gravimetric (NOB) Analysis Sheet for Results
3 Field Number 19 Gravimetric Required ☐ Recommended ☐ SM-V Required ☐ POINT COUNT RESULTS ON THE BACK	Color BR Texture NF Homogenity ____ Vermiculite ☐ ☐ # of Layers ____ Asbestos ☐ ☐ Color of Layer ____ Detected Yes No Comments: Method: ☐ ELAP ☐ EPA ☐ SCANNING OPTION: ELAP (P.C.) & EPA See Note # 1 or Note # 2	Morph Extinction RI ⊥ RI ∥ DS Color Color, Pleo Biref Sign Other Identity Q.C. ☐	____ Chrysotile ____ Amosite ____ Other	____ Cellulose ____ Fiberglass ____ Other Cellulose Ondulose Extinction ☐ Fiberglass Isotopic ☐ Synthetic High Birefringence ☐ Horse Hair: Scales, Low to Moderate Birefringence ☐ * If vermiculite is >10% the level of asbestos in a sample might be underestimated. See Note #3.	____ Mineral Filler ____ Organic Binders ____ Vermiculite * ____ Other	☐ See SM-V (ELAP 198.8) Analysis Sheet for Results	☐ See Gravimetric (NOB) Analysis Sheet for Results
4 Field Number 20 Gravimetric Required ☐ Recommended ☐ SM-V Required ☐ POINT COUNT RESULTS ON THE BACK	Color BR Texture NF Homogenity ____ Vermiculite ☐ ☐ # of Layers ____ Asbestos ☐ ☐ Color of Layer ____ Detected Yes No Comments: Method: ☐ ELAP ☐ EPA ☐ SCANNING OPTION: ELAP (P.C.) & EPA See Note # 1 or Note # 2	Morph Extinction RI ⊥ RI ∥ DS Color Color, Pleo Biref Sign Other Identity Q.C. ☐	____ Chrysotile ____ Amosite ____ Other	____ Cellulose ____ Fiberglass ____ Other Cellulose Ondulose Extinction ☐ Fiberglass Isotopic ☐ Synthetic High Birefringence ☐ Horse Hair: Scales, Low to Moderate Birefringence ☐ * If vermiculite is >10% the level of asbestos in a sample might be underestimated. See Note #3.	____ Mineral Filler ____ Organic Binders ____ Vermiculite * ____ Other	☐ See SM-V (ELAP 198.8) Analysis Sheet for Results	☐ See Gravimetric (NOB) Analysis Sheet for Results

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Microscopes:
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BULK ASBESTOS ANALYSIS SHEET

Client / Project: M.Eche / Bidwell / Kensico Lak   Project Number: ______

Analysis Date: 12/21/17   Analyst: NF   Batch Number: 42846   TEMPERATURE °C: 21°

1 — Field Number: 22

Gravimetric Required ☑ / Recommended ☐ — **SM-V** Required ☐ — POINT COUNT RESULTS ON THE BACK

Stereoscopic Exam: Color: Gy; Texture: NF; Homogenity; Vermiculite ☐ ☑; # of Layers; Asbestos Detected Yes ☐ No ☑; Color of Layer; Comments:

Method: ☑ ELAP ☐ EPA ☑ SCANNING OPTION: ELAP (P.C.) & EPA — See Note # 1 or Note # 2 — Q.C. ☐

PLM Optical Properties: Morph | Extinction | RI ⊥ | RI ∥ | DS Color | Color, Pleo | Biref | Sign | Other | Identity

Asbestos Results PLM %: ___ Chrysotile, ___ Amosite, ___ Other

Other Fibrous PLM %: ___ Cellulose, ___ Fiberglass, ___ Other; Cellulose Ondulose Extinction ☐; Fiberglass Isotopic ☐; Synthetic High Birefringence ☐; Horse Hair: Scales, Low to Moderate Birefringence ☐

Non Fibrous PLM %: ___ Mineral Filler, ___ Organic Binders, ___ Vermiculite *, ___ Other

* If vermiculite is >10% the level of asbestos in a sample might be underestimated. See Note #3.

SM-V Results: ☐ See SM-V (ELAP 198.8) Analysis Sheet for Results

Gravimetric (NOB) Results: ☑ See Gravimetric (NOB) Analysis Sheet for Results

2 — Field Number: 23

Gravimetric Required ☑ / Recommended ☐ — **SM-V** Required ☐ — POINT COUNT RESULTS ON THE BACK

Stereoscopic Exam: Color: Br; Texture: NF; Homogenity: Y; Vermiculite ☐ ☑; # of Layers; Asbestos Detected Yes ☐ No ☑; Color of Layer; Comments:

Method: ☐ ELAP ☐ EPA ☑ SCANNING OPTION: ELAP (P.C.) & EPA — See Note # 1 or Note # 2 — Q.C. ☐

PLM Optical Properties: Morph | Extinction | RI ⊥ | RI ∥ | DS Color | Color, Pleo | Biref | Sign | Other | Identity

Asbestos Results PLM %: ___ Chrysotile, ___ Amosite, ___ Other

Other Fibrous PLM %: ___ Cellulose, ___ Fiberglass, ___ Other; Cellulose Ondulose Extinction ☐; Fiberglass Isotopic ☐; Synthetic High Birefringence ☐; Horse Hair: Scales, Low to Moderate Birefringence ☐

Non Fibrous PLM %: ___ Mineral Filler, ___ Organic Binders, ___ Vermiculite *, ___ Other

* If vermiculite is >10% the level of asbestos in a sample might be underestimated. See Note #3.

SM-V Results: ☐ See SM-V (ELAP 198.8) Analysis Sheet for Results

Gravimetric (NOB) Results: ☑ See Gravimetric (NOB) Analysis Sheet for Results

3 — Field Number: 24

Gravimetric Required ☑ / Recommended ☐ — **SM-V** Required ☐ — POINT COUNT RESULTS ON THE BACK

Stereoscopic Exam: Color: Br; Texture: NF; Homogenity; Vermiculite ☐ ☑; # of Layers; Asbestos Detected Yes ☐ No ☑; Color of Layer; Comments:

Method: ☐ ELAP ☐ EPA ☑ SCANNING OPTION: ELAP (P.C.) & EPA — See Note # 1 or Note # 2 — Q.C. ☐

PLM Optical Properties: Morph | Extinction | RI ⊥ | RI ∥ | DS Color | Color, Pleo | Biref | Sign | Other | Identity

Asbestos Results PLM %: ___ Chrysotile, ___ Amosite, ___ Other

Other Fibrous PLM %: ___ Cellulose, ___ Fiberglass, ___ Other; Cellulose Ondulose Extinction ☐; Fiberglass Isotopic ☐; Synthetic High Birefringence ☐; Horse Hair: Scales, Low to Moderate Birefringence ☐

Non Fibrous PLM %: ___ Mineral Filler, ___ Organic Binders, ___ Vermiculite *, ___ Other

* If vermiculite is >10% the level of asbestos in a sample might be underestimated. See Note #3.

SM-V Results: ☐ See SM-V (ELAP 198.8) Analysis Sheet for Results

Gravimetric (NOB) Results: ☑ See Gravimetric (NOB) Analysis Sheet for Results

4 — Field Number: 26

Gravimetric Required ☑ / Recommended ☐ — **SM-V** Required ☐ — POINT COUNT RESULTS ON THE BACK

Stereoscopic Exam: Color: Br; Texture: NF; Homogenity; Vermiculite ☐ ☑; # of Layers; Asbestos Detected Yes ☐ No ☑; Color of Layer; Comments:

Method: ☐ ELAP ☐ EPA ☑ SCANNING OPTION: ELAP (P.C.) & EPA — See Note # 1 or Note # 2 — Q.C. ☐

PLM Optical Properties: Morph | Extinction | RI ⊥ | RI ∥ | DS Color | Color, Pleo | Biref | Sign | Other | Identity

Asbestos Results PLM %: ___ Chrysotile, ___ Amosite, ___ Other

Other Fibrous PLM %: ___ Cellulose, ___ Fiberglass, ___ Other; Cellulose Ondulose Extinction ☐; Fiberglass Isotopic ☐; Synthetic High Birefringence ☐; Horse Hair: Scales, Low to Moderate Birefringence ☐

Non Fibrous PLM %: ___ Mineral Filler, ___ Organic Binders, ___ Vermiculite *, ___ Other

* If vermiculite is >10% the level of asbestos in a sample might be underestimated. See Note #3.

SM-V Results: ☐ See SM-V (ELAP 198.8) Analysis Sheet for Results

Gravimetric (NOB) Results: ☑ See Gravimetric (NOB) Analysis Sheet for Results

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BULK ASBESTOS ANALYSIS SHEET

Client / Project MECHE / Bidwell / Renwick Lab Project Number _____

Analysis Date 12/21/17 Analyst MF Batch Number 42846 TEMPERATURE °c 24

1 Field Number 27	Stereoscopic Exam	PLM Optical Properties	Asbestos Results PLM %	Other Fibrous PLM %	Non Fibrous PLM %	SM-V Results	Gravimetric (NOB) Results
Gravimetric Required ☑ Recommended ☐	Color BLK Texture NF	Morph Extinction RI ⊥ RI ∥ DS Color Color, Pleo Biref Sign Other Identity	_____ Chrysotile	_____ Cellulose	_____ Mineral Filler	☐ See SM-V (ELAP 198.8) Analysis Sheet for Results	☑ See Gravimetric (NOB) Analysis Sheet for Results
SM-V Required ☐	Homogenity _____ Vermiculite ☐ ☑		_____ Amosite	_____ Fiberglass	_____ Organic Binders		
	# of Layers _____ Asbestos ☐ ☑		_____ Other	_____ Other	_____ Vermiculite *		
	Color of Layer _____ Detected Yes No			Cellulose Ondulose Extinction ☐ Fiberglass Isotopic ☐ Synthetic High Birefringence ☐ Horse Hair: Scales, Low to Moderate Birefringence ☐	_____ Other		
	Comments:						
POINT COUNT RESULTS ON THE BACK	Method: ☐ ELAP ☐ EPA ☐ SCANNING OPTION: ELAP (P.C.) & EPA See Note # 1 or Note # 2	Q.C. ☐		* If vermiculite is >10% the level of asbestos in a sample might be underestimated. See Note #3.			

2 Field Number 30	Stereoscopic Exam	PLM Optical Properties	Asbestos Results PLM %	Other Fibrous PLM %	Non Fibrous PLM %	SM-V Results	Gravimetric (NOB) Results
Gravimetric Required ☐ Recommended ☐	Color BLK Texture NF	Morph Extinction RI ⊥ RI ∥ DS Color Color, Pleo Biref Sign Other Identity	_____ Chrysotile	_____ Cellulose	_____ Mineral Filler	☐ See SM-V (ELAP 198.8) Analysis Sheet for Results	☑ See Gravimetric (NOB) Analysis Sheet for Results
SM-V Required ☐	Homogenity _____ Vermiculite ☐ ☑		_____ Amosite	_____ Fiberglass	_____ Organic Binders		
	# of Layers _____ Asbestos ☐ ☐		_____ Other	_____ Other	_____ Vermiculite *		
	Color of Layer _____ Detected Yes No			Cellulose Ondulose Extinction ☐ Fiberglass Isotopic ☐ Synthetic High Birefringence ☐ Horse Hair: Scales, Low to Moderate Birefringence ☐	_____ Other		
	Comments:						
POINT COUNT RESULTS ON THE BACK	Method: ☐ ELAP ☐ EPA ☐ SCANNING OPTION: ELAP (P.C.) & EPA See Note # 1 or Note # 2	Q.C. ☐		* If vermiculite is >10% the level of asbestos in a sample might be underestimated. See Note #3.			

3 Field Number 31	Stereoscopic Exam	PLM Optical Properties	Asbestos Results PLM %	Other Fibrous PLM %	Non Fibrous PLM %	SM-V Results	Gravimetric (NOB) Results
Gravimetric Required ☑ Recommended ☐	Color BLK Texture NF	Morph Extinction RI ⊥ RI ∥ DS Color Color, Pleo Biref Sign Other Identity	_____ Chrysotile	_____ Cellulose	_____ Mineral Filler	☐ See SM-V (ELAP 198.8) Analysis Sheet for Results	☑ See Gravimetric (NOB) Analysis Sheet for Results
SM-V Required ☐	Homogenity _____ Vermiculite ☐ ☐		_____ Amosite	_____ Fiberglass	_____ Organic Binders		
	# of Layers _____ Asbestos ☐ ☐		_____ Other	_____ Other	_____ Vermiculite *		
	Color of Layer _____ Detected Yes No			Cellulose Ondulose Extinction ☐ Fiberglass Isotopic ☐ Synthetic High Birefringence ☐ Horse Hair: Scales, Low to Moderate Birefringence ☐	_____ Other		
	Comments:						
POINT COUNT RESULTS ON THE BACK	Method: ☐ ELAP ☐ EPA ☐ SCANNING OPTION: ELAP (P.C.) & EPA See Note # 1 or Note # 2	Q.C. ☐		* If vermiculite is >10% the level of asbestos in a sample might be underestimated. See Note #3.			

4 Field Number 36 ~~32~~ AA	Stereoscopic Exam	PLM Optical Properties	Asbestos Results PLM %	Other Fibrous PLM %	Non Fibrous PLM %	SM-V Results	Gravimetric (NOB) Results
Gravimetric Required ☑ Recommended ☐	Color BLK Texture NF	Morph Extinction RI ⊥ RI ∥ DS Color Color, Pleo Biref Sign Other Identity	_____ Chrysotile	_____ Cellulose	_____ Mineral Filler	☐ See SM-V (ELAP 198.8) Analysis Sheet for Results	☐ See Gravimetric (NOB) Analysis Sheet for Results
SM-V Required ☐	Homogenity _____ Vermiculite ☐ ☑		_____ Amosite	_____ Fiberglass	_____ Organic Binders		
	# of Layers _____ Asbestos ☐ ☐		_____ Other	_____ Other	_____ Vermiculite *		
	Color of Layer _____ Detected Yes No			Cellulose Ondulose Extinction ☐ Fiberglass Isotopic ☐ Synthetic High Birefringence ☐ Horse Hair: Scales, Low to Moderate Birefringence ☐	_____ Other		
	Comments:						
POINT COUNT RESULTS ON THE BACK	Method: ☐ ELAP ☐ EPA ☐ SCANNING OPTION: ELAP (P.C.) & EPA See Note # 1 or Note # 2	Q.C. ☐		* If vermiculite is >10% the level of asbestos in a sample might be underestimated. See Note #3.			

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BULK ASBESTOS ANALYSIS SHEET

Client / Project MECHE / Bidwell / Kensico Lake
Project Number ______
Analysis Date 12/21/17 Analyst NM
Batch Number 42846
TEMPERATURE °C 21

1 Field Number 42

Stereoscopic Exam	
Color	Silver
Texture	NF
Homogenity	Y
# of Layers	1
Color of Layer	
Vermiculite	☐ Yes ☑ No
Asbestos Detected	☐ Yes ☑ No

Gravimetric Required ☐ Recommended ☐
SM-V Required ☐
POINT COUNT RESULTS ON THE BACK
Comments:
Method: ☐ ELAP ☐ EPA ☐ SCANNING OPTION: ELAP (P.C.) & EPA
See Note # 1 or Note # 2
Q.C. ☐

PLM Optical Properties: Morph | Extinction | RI ⊥ | RI ∥ | DS Color | Color, Pleo | Biref | Sign | Other | Identity

Asbestos Results PLM %: ____ Chrysotile ____ Amosite ____ Other

Other Fibrous PLM %: ____ Cellulose ____ Fiberglass ____ Other
Cellulose Ondulose Extinction ☐
Fiberglass Isotopic ☐
Synthetic High Birefringence ☐
Horse Hair: Scales, Low to Moderate Birefringence ☐

Non Fibrous PLM %: ____ Mineral Filler ____ Organic Binders ____ Vermiculite * ____ Other

* If vermiculite is >10% the level of asbestos in a sample might be underestimated. See Note #3.

SM-V Results: ☐ See SM-V (ELAP 198.8) Analysis Sheet for Results

Gravimetric (NOB) Results: ☐ See Gravimetric (NOB) Analysis Sheet for Results

2 Field Number 43

Stereoscopic Exam	
Color	Silver
Texture	NF
Homogenity	Y
# of Layers	1
Color of Layer	
Vermiculite	☐ Yes ☑ No
Asbestos Detected	☐ Yes ☑ No

Gravimetric Required ☐ Recommended ☐
SM-V Required ☐
POINT COUNT RESULTS ON THE BACK
Comments:
Method: ☐ ELAP ☐ EPA ☐ SCANNING OPTION: ELAP (P.C.) & EPA
See Note # 1 or Note # 2
Q.C. ☐

PLM Optical Properties: Morph | Extinction | RI ⊥ | RI ∥ | DS Color | Color, Pleo | Biref | Sign | Other | Identity

Asbestos Results PLM %: ____ Chrysotile ____ Amosite ____ Other

Other Fibrous PLM %: ____ Cellulose ____ Fiberglass ____ Other
Cellulose Ondulose Extinction ☐
Fiberglass Isotopic ☐
Synthetic High Birefringence ☐
Horse Hair: Scales, Low to Moderate Birefringence ☐

Non Fibrous PLM %: ____ Mineral Filler ____ Organic Binders ____ Vermiculite * ____ Other

* If vermiculite is >10% the level of asbestos in a sample might be underestimated. See Note #3.

SM-V Results: ☐ See SM-V (ELAP 198.8) Analysis Sheet for Results

Gravimetric (NOB) Results: ☐ See Gravimetric (NOB) Analysis Sheet for Results

3 Field Number 54

Stereoscopic Exam	
Color	Gray
Texture	NF
Homogenity	
# of Layers	
Color of Layer	
Vermiculite	☐ Yes ☑ No
Asbestos Detected	☐ Yes ☑ No

Gravimetric Required ☐ Recommended ☐
SM-V Required ☐
POINT COUNT RESULTS ON THE BACK
Comments:
Method: ☐ ELAP ☐ EPA ☐ SCANNING OPTION: ELAP (P.C.) & EPA
See Note # 1 or Note # 2
Q.C. ☐

PLM Optical Properties: Morph | Extinction | RI ⊥ | RI ∥ | DS Color | Color, Pleo | Biref | Sign | Other | Identity

Asbestos Results PLM %: ____ Chrysotile ____ Amosite ____ Other

Other Fibrous PLM %: ____ Cellulose ____ Fiberglass ____ Other
Cellulose Ondulose Extinction ☐
Fiberglass Isotopic ☐
Synthetic High Birefringence ☐
Horse Hair: Scales, Low to Moderate Birefringence ☐

Non Fibrous PLM %: ____ Mineral Filler ____ Organic Binders ____ Vermiculite * ____ Other

* If vermiculite is >10% the level of asbestos in a sample might be underestimated. See Note #3.

SM-V Results: ☐ See SM-V (ELAP 198.8) Analysis Sheet for Results

Gravimetric (NOB) Results: ☐ See Gravimetric (NOB) Analysis Sheet for Results

4 Field Number 55

Stereoscopic Exam	
Color	Gray
Texture	NF
Homogenity	
# of Layers	
Color of Layer	
Vermiculite	☐ Yes ☑ No
Asbestos Detected	☐ Yes ☑ No

Gravimetric Required ☐ Recommended ☐
SM-V Required ☐
POINT COUNT RESULTS ON THE BACK
Comments:
Method: ☐ ELAP ☐ EPA ☐ SCANNING OPTION: ELAP (P.C.) & EPA
See Note # 1 or Note # 2
Q.C. ☐

PLM Optical Properties: Morph | Extinction | RI ⊥ | RI ∥ | DS Color | Color, Pleo | Biref | Sign | Other | Identity

Asbestos Results PLM %: ____ Chrysotile ____ Amosite ____ Other

Other Fibrous PLM %: ____ Cellulose ____ Fiberglass ____ Other
Cellulose Ondulose Extinction ☐
Fiberglass Isotopic ☐
Synthetic High Birefringence ☐
Horse Hair: Scales, Low to Moderate Birefringence ☐

Non Fibrous PLM %: ____ Mineral Filler ____ Organic Binders ____ Vermiculite * ____ Other

* If vermiculite is >10% the level of asbestos in a sample might be underestimated. See Note #3.

SM-V Results: ☐ See SM-V (ELAP 198.8) Analysis Sheet for Results

Gravimetric (NOB) Results: ☐ See Gravimetric (NOB) Analysis Sheet for Results

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BULK ASBESTOS ANALYSIS SHEET

Client / Project: MIChe / Bidwell / Kensico Lak   Project Number: ______

Analysis Date: 12/21/17   Analyst: MF   Batch Number: 42846   TEMPERATURE °c: 20

1 Field Number: 56

Gravimetric Required ☑ / Recommended ☐; SM-V Required ☐	Stereoscopic Exam	PLM Optical Properties	Asbestos Results PLM %	Other Fibrous PLM %	Non Fibrous PLM %	SM-V Results	Gravimetric (NOB) Results
	Color: Wh; Texture: NF; Homogenity ___; Vermiculite ☐ ☑; # of Layers ___; Asbestos Detected Yes ☐ No ☑; Color of Layer ___; Comments:	Morph / Extinction / RI ⊥ / RI ∥ / DS Color / Color, Pleo / Biref / Sign / Other / Identity	___ Chrysotile; ___ Amosite; ___ Other	___ Cellulose; ___ Fiberglass; ___ Other; Cellulose Ondulose Extinction ☐; Fiberglass Isotopic ☐; Synthetic High Birefringence ☐; Horse Hair: Scales, Low to Moderate Birefringence ☐	___ Mineral Filler; ___ Organic Binders; ___ Vermiculite *; ___ Other	☐ See SM-V (ELAP 198.8) Analysis Sheet for Results	☑ See Gravimetric (NOB) Analysis Sheet for Results

POINT COUNT RESULTS ON THE BACK — Method: ☐ ELAP ☐ EPA ☑ SCANNING OPTION: ELAP (P.C.) & EPA. See Note # 1 or Note # 2. Q.C. ☐

* If vermiculite is >10% the level of asbestos in a sample might be underestimated. See Note #3.

2 Field Number: 57

Gravimetric Required ☑ / Recommended ☐; SM-V Required ☐	Stereoscopic Exam	PLM Optical Properties	Asbestos Results PLM %	Other Fibrous PLM %	Non Fibrous PLM %	SM-V Results	Gravimetric (NOB) Results
	Color: Wh; Texture: NF; Homogenity ___; Vermiculite ☐ ☑; # of Layers ___; Asbestos Detected Yes ☐ No ☑; Color of Layer ___; Comments:	Morph / Extinction / RI ⊥ / RI ∥ / DS Color / Color, Pleo / Biref / Sign / Other / Identity	___ Chrysotile; ___ Amosite; ___ Other	___ Cellulose; ___ Fiberglass; ___ Other; Cellulose Ondulose Extinction ☐; Fiberglass Isotopic ☐; Synthetic High Birefringence ☐; Horse Hair: Scales, Low to Moderate Birefringence ☐	___ Mineral Filler; ___ Organic Binders; ___ Vermiculite *; ___ Other	☐ See SM-V (ELAP 198.8) Analysis Sheet for Results	☑ See Gravimetric (NOB) Analysis Sheet for Results

POINT COUNT RESULTS ON THE BACK — Method: ☐ ELAP ☐ EPA ☑ SCANNING OPTION: ELAP (P.C.) & EPA. See Note # 1 or Note # 2. Q.C. ☐

* If vermiculite is >10% the level of asbestos in a sample might be underestimated. See Note #3.

3 Field Number: 58

Gravimetric Required ☑ / Recommended ☐; SM-V Required ☐	Stereoscopic Exam	PLM Optical Properties	Asbestos Results PLM %	Other Fibrous PLM %	Non Fibrous PLM %	SM-V Results	Gravimetric (NOB) Results
	Color: Bg; Texture: NF; Homogenity ___; Vermiculite ☐ ☑; # of Layers ___; Asbestos Detected Yes ☐ No ☑; Color of Layer ___; Comments:	Morph / Extinction / RI ⊥ / RI ∥ / DS Color / Color, Pleo / Biref / Sign / Other / Identity	___ Chrysotile; ___ Amosite; ___ Other	___ Cellulose; ___ Fiberglass; ___ Other; Cellulose Ondulose Extinction ☐; Fiberglass Isotopic ☐; Synthetic High Birefringence ☐; Horse Hair: Scales, Low to Moderate Birefringence ☐	___ Mineral Filler; ___ Organic Binders; ___ Vermiculite *; ___ Other	☐ See SM-V (ELAP 198.8) Analysis Sheet for Results	☑ See Gravimetric (NOB) Analysis Sheet for Results

POINT COUNT RESULTS ON THE BACK — Method: ☐ ELAP ☐ EPA ☑ SCANNING OPTION: ELAP (P.C.) & EPA. See Note # 1 or Note # 2. Q.C. ☐

* If vermiculite is >10% the level of asbestos in a sample might be underestimated. See Note #3.

4 Field Number: 59

Gravimetric Required ☑ / Recommended ☐; SM-V Required ☐	Stereoscopic Exam	PLM Optical Properties	Asbestos Results PLM %	Other Fibrous PLM %	Non Fibrous PLM %	SM-V Results	Gravimetric (NOB) Results
	Color: Bg; Texture: NF; Homogenity ___; Vermiculite ☐ ☑; # of Layers ___; Asbestos Detected Yes ☐ No ☑; Color of Layer ___; Comments:	Morph / Extinction / RI ⊥ / RI ∥ / DS Color / Color, Pleo / Biref / Sign / Other / Identity	___ Chrysotile; ___ Amosite; ___ Other	___ Cellulose; ___ Fiberglass; ___ Other; Cellulose Ondulose Extinction ☐; Fiberglass Isotopic ☐; Synthetic High Birefringence ☐; Horse Hair: Scales, Low to Moderate Birefringence ☐	___ Mineral Filler; ___ Organic Binders; ___ Vermiculite *; ___ Other	☐ See SM-V (ELAP 198.8) Analysis Sheet for Results	☑ See Gravimetric (NOB) Analysis Sheet for Results

POINT COUNT RESULTS ON THE BACK — Method: ☐ ELAP ☐ EPA ☑ SCANNING OPTION: ELAP (P.C.) & EPA. See Note # 1 or Note # 2. Q.C. ☐

* If vermiculite is >10% the level of asbestos in a sample might be underestimated. See Note #3.

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BULK ASBESTOS ANALYSIS SHEET

Client / Project: MEChe / Bidwell / Kensico Lak
Project Number: ______

Analysis Date: 12/2/17 Analyst: MT Batch Number: 42846

TEMPERATURE °c: 21

---

1 Field Number: 60

Stereoscopic Exam

Gravimetric Required ☐ Recommended ☐

SM-V Required ☐

Color: Bg Texture: NF
Homogenity: Y Vermiculite ☐ ☑
# of Layers: 1 Asbestos ☐ ☑
Color of Layer: ______ Detected Yes No

Comments:

POINT COUNT RESULTS ON THE BACK — Method: ☐ ELAP ☐ EPA ☑ SCANNING OPTION: ELAP (P.C.) & EPA — See Note # 1 or Note # 2

Q.C. ☐

PLM Optical Properties

Morph	Extinction	RI ⊥	RI ∥	DS Color	Color, Pleo	Biref	Sign	Other	Identity

Asbestos Results PLM %: ______ Chrysotile; ______ Amosite; ______ Other

Other Fibrous PLM %: ______ Cellulose; ______ Fiberglass; ______ Other
Cellulose Ondulose Extinction ☐
Fiberglass Isotopic ☐
Synthetic High Birefringence ☐
Horse Hair: Scales, Low to Moderate Birefringence ☐

Non Fibrous PLM %: ______ Mineral Filler; ______ Organic Binders; ______ Vermiculite *; ______ Other

* If vermiculite is >10% the level of asbestos in a sample might be underestimated. See Note #3.

SM-V Results: ☐ See SM-V (ELAP 198.8) Analysis Sheet for Results

Gravimetric (NOB) Results: ☑ See Gravimetric (NOB) Analysis Sheet for Results

---

2 Field Number: 61

Stereoscopic Exam

Gravimetric Required ☑ Recommended ☐

SM-V Required ☐

Color: Br Texture: NF
Homogenity: ______ Vermiculite ☐ ☑
# of Layers: ______ Asbestos ☐ ☑
Color of Layer: ______ Detected Yes No

Comments:

POINT COUNT RESULTS ON THE BACK — Method: ☑ ELAP ☐ EPA ☑ SCANNING OPTION: ELAP (P.C.) & EPA — See Note # 1 or Note # 2

Q.C. ☐

PLM Optical Properties

Morph	Extinction	RI ⊥	RI ∥	DS Color	Color, Pleo	Biref	Sign	Other	Identity

Asbestos Results PLM %: ______ Chrysotile; ______ Amosite; ______ Other

Other Fibrous PLM %: ______ Cellulose; ______ Fiberglass; ______ Other
Cellulose Ondulose Extinction ☐
Fiberglass Isotopic ☐
Synthetic High Birefringence ☐
Horse Hair: Scales, Low to Moderate Birefringence ☐

Non Fibrous PLM %: ______ Mineral Filler; ______ Organic Binders; ______ Vermiculite *; ______ Other

* If vermiculite is >10% the level of asbestos in a sample might be underestimated. See Note #3.

SM-V Results: ☐ See SM-V (ELAP 198.8) Analysis Sheet for Results

Gravimetric (NOB) Results: ☑ See Gravimetric (NOB) Analysis Sheet for Results

---

3 Field Number: ______

Stereoscopic Exam

Gravimetric Required ☐ Recommended ☐

SM-V Required ☐

Color: ______ Texture: ______
Homogenity: ______ Vermiculite ☐ ☐
# of Layers: ______ Asbestos ☐ ☐
Color of Layer: ______ Detected Yes No

Comments:

POINT COUNT RESULTS ON THE BACK — Method: ☐ ELAP ☐ EPA ☐ SCANNING OPTION: ELAP (P.C.) & EPA — See Note # 1 or Note # 2

Q.C. ☐

PLM Optical Properties

Morph	Extinction	RI ⊥	RI ∥	DS Color	Color, Pleo	Biref	Sign	Other	Identity

Asbestos Results PLM %: ______ Chrysotile; ______ Amosite; ______ Other

Other Fibrous PLM %: ______ Cellulose; ______ Fiberglass; ______ Other
Cellulose Ondulose Extinction ☐
Fiberglass Isotopic ☐
Synthetic High Birefringence ☐
Horse Hair: Scales, Low to Moderate Birefringence ☐

Non Fibrous PLM %: ______ Mineral Filler; ______ Organic Binders; ______ Vermiculite *; ______ Other

* If vermiculite is >10% the level of asbestos in a sample might be underestimated. See Note #3.

SM-V Results: ☐ See SM-V (ELAP 198.8) Analysis Sheet for Results

Gravimetric (NOB) Results: ☐ See Gravimetric (NOB) Analysis Sheet for Results

---

4 Field Number: ______

Stereoscopic Exam

Gravimetric Required ☐ Recommended ☐

SM-V Required ☐

Color: ______ Texture: ______
Homogenity: ______ Vermiculite ☐ ☐
# of Layers: ______ Asbestos ☐ ☐
Color of Layer: ______ Detected Yes No

Comments:

POINT COUNT RESULTS ON THE BACK — Method: ☐ ELAP ☐ EPA ☐ SCANNING OPTION: ELAP (P.C.) & EPA — See Note # 1 or Note # 2

Q.C. ☐

PLM Optical Properties

Morph	Extinction	RI ⊥	RI ∥	DS Color	Color, Pleo	Biref	Sign	Other	Identity

Asbestos Results PLM %: ______ Chrysotile; ______ Amosite; ______ Other

Other Fibrous PLM %: ______ Cellulose; ______ Fiberglass; ______ Other
Cellulose Ondulose Extinction ☐
Fiberglass Isotopic ☐
Synthetic High Birefringence ☐
Horse Hair: Scales, Low to Moderate Birefringence ☐

Non Fibrous PLM %: ______ Mineral Filler; ______ Organic Binders; ______ Vermiculite *; ______ Other

* If vermiculite is >10% the level of asbestos in a sample might be underestimated. See Note #3.

SM-V Results: ☐ See SM-V (ELAP 198.8) Analysis Sheet for Results

Gravimetric (NOB) Results: ☐ See Gravimetric (NOB) Analysis Sheet for Results

ATC Group Services LLC
GRAVIMETRIC (NOB) ANALYSIS SHEET

Client/Project: NICHE | **PLM Batch #** 42846 | **TEM Batch #** 99648 | **Start Date:** 12/22/17

NOB PLM PREP: MG/DA | **NOB PLM Analyst:** AF | **NOB TEM PREP:** SH | **NOB TEM Analyst:** MP | **Date Completed:** 12/23/17

	5	11	12	9	13		Methods		
	%	Non Asb Residue %	%	Asbestos Types	% Total Asbestos		NOB		
Field #	Organic	NFr	Carbonate	or Vermiculite	or Vermiculite	Notes	PREP	PLM	TEM
1	54.0	3.2	42.8	ND			✔	✔	✔
2	65.8	31.6	2.6	ND			✔	✔	✔
3	49.4	38.1	12.5	ND			✔	✔	✔
4	15.1	1.6	83.3	ND			✔	✔	✔
5	18.2	1.6	80.2	ND			✔	✔	✔
6	25.1	34.6	40.3	ND			✔	✔	✔
7	25.0	39.7	35.3	ND			✔	✔	✔
8	68.4	1.6	30.0	ND			✔	✔	✔
9	94.1	1.3	4.6	ND			✔	✔	✔
10	73.3	18.6	8.1	ND			✔	✔	✔

Note 1: Methods: ELAP as per items 198.6 and 198.4.
Note 2: Vermiculite not reported = not detected.

Client Copy

ATC Group Services LLC
GRAVIMETRIC (NOB) ANALYSIS SHEET

Client/Project: NICHE | **PLM Batch #** 42846 | **TEM Batch #** 99648 | **Start Date:** 12/22/17

NOB PLM PREP: MG/DA | **NOB PLM Analyst:** AF | **NOB TEM PREP:** SH | **NOB TEM Analyst:** MP | **Date Completed:** 12/23/17

9	513	11	12	9	13		Methods		
Asbestos Types (Vermiculite)	% Total Asbestos (Vermiculite)	Non Asb Residue % NFr	% Carbonate	Asbestos Types (Non-Vermiculite)	% Total Asbestos (Vermiculite)	Notes	NOB PREP	NOB PLM	NOB TEM
11	35.9	56.5	7.6	ND			✔	✔	✔
12	29.8	1.6	68.6	ND			✔	✔	✔
13	40.7	8.6	50.7	ND			✔	✔	✔
14	49.8	6.9	43.3	ND			✔	✔	✔
15	37.2	27.9	34.9	ND			✔	✔	✔
16	32.2	1.8	66.0	ND			✔	✔	✔
17	54.0	23.8	22.2	ND			✔	✔	✔
18	47.2	3.7	49.1	ND			✔	✔	✔
19	35.9	35.1	29.0	ND			✔	✔	✔
20	44.3	26.2	29.5	ND			✔	✔	✔

Note 1: Methods: ELAP as per items 198.6 and 198.4.
Note 2: Vermiculite not reported = not detected.

Client Copy

ATC Group Services LLC
GRAVIMETRIC (NOB) ANALYSIS SHEET

Client/Project: NICHE **PLM Batch #** 42846 **TEM Batch #** 99648 **Start Date:** 12/22/17

NOB PLM PREP: MG/DA **NOB PLM Analyst:** AF **NOB TEM PREP:** SH **NOB TEM Analyst:** MP **Date Completed:** 12/23/17

			%	Asbestos Types	% Total		NOB		
22	53.6	1.6	44.8	ND			✓	✓	✓
23	55.5	42.6	1.9	ND			✓	✓	✓
24	45.1	27.0	27.9	ND			✓	✓	✓
26	30.7	22.0	32.3	Chrysotile	15		✓	✓	✓
27	26.6	21.5	30.9	Chrysotile	21		✓	✓	✓
30	68.7	5.1	26.2	Chrysotile	TR		✓	✓	✓
31	64.2	6.9	28.9	ND			✓	✓	✓
36	58.1	37.9	4.0	ND			✓	✓	✓
42	30.0	54.3	15.7	ND			✓	✓	✓
43	73.7	9.2	17.1	ND			✓	✓	✓

Note 1: Methods: ELAP as per items 198.6 and 198.4.
Note 2: Vermiculite not reported = not detected.

Client Copy

ATC Group Services LLC
GRAVIMETRIC (NOB) ANALYSIS SHEET

Client/Project: NICHE **PLM Batch #** 42846 **TEM Batch #** 99648 **Start Date:** 12/22/17

NOB PLM PREP: MG/DA **NOB PLM Analyst:** AF **NOB TEM PREP:** SH **NOB TEM Analyst:** MP **Date Completed:** 12/23/17

				Asbestos Types	% Total		NO		
54	10.4	2.2	87.4	ND			✔	✔	✔
55	13.3	1.2	85.5	ND			✔	✔	✔
56	70.8	2.8	26.4	ND			✔	✔	✔
57	71.6	2.1	26.3	ND			✔	✔	✔
58	50.8	5.6	43.6	ND			✔	✔	✔
59	42.4	25.6	32.0	ND			✔	✔	✔
60	50.3	5.4	44.3	ND			✔	✔	✔
61	59.7	35.2	5.1	ND			✔	✔	✔

Note 1: Methods: ELAP as per items 198.6 and 198.4.
Note 2: Vermiculite not reported = not detected.

Client Copy

NICHE ANALYSIS, INC.
399 Knollwood Road, Suite 208 · White Plains, NY 10603
Tel: (914) 288-0805 · Fax: (914) 288-0807

BULK SAMPLE ANALYSIS REPORT

BIDWELL ENVIRONMENTAL, LLC
1353 KINGS HIGHWAY
P.O. BOX 266
SUGAR LOAF, NY 10981

Niche 18-22174-1A

PROJECT:	Kensico Lab	**ANALYST:**	Bing Liang
BIDWELL PROJECT #:	21704	**DATE SAMPLED:**	01-25-18
LOCATION:	Entire Kensico Lab	**DATE RECEIVED:**	01-31-18
SCOPE OF WORK:	Building Renovation	**DATE ANALYZED:**	02-01-18

Sample No./ Lab ID	Type of Material	Color	Area	Asbestos Content & Percent	Non-Asbestos Fiber Content & Percent	Non Fibrous
CAT423-1ST ASB-68 *B0100459*	Grey Brick Wall Mortar	Gray	1st Floor/ Garage	ND	ND	100% Mineral Filler
CAT423-1ST ASB-69 *B0100460*	Grey Brick Wall Mortar	Gray	1st Floor/ Garage	ND	ND	100% Mineral Filler
CAT423-EXT ASB-78 *B0100461*	Grey Mortar In Stone Base	Gray	Exterior/ North Wall	ND	ND	100% Mineral Filler
CAT423-EXT ASB-79 *B0100462*	Grey Mortar In Stone Base	Gray	Exterior/ South Wall	ND	ND	100% Mineral Filler
CAT423-EXT ASB-80 *B0100463*	Tan Motar In Brick Wall	Light Gray	Exterior/ North Wall	ND	ND	100% Mineral Filler
CAT423-EXT ASB-81 *B0100464*	Tan Motar In Brick Wall	Light Gray	Exterior/ North Wall	ND	ND	100% Mineral Filler
CAT423-EXT ASB-86 *B0100465*	Black Expansion Joint In Curb	Dark Brown	Exterior/ North Wall	ND	95% Cellulose	5% Other
CAT423-EXT ASB-87 *B0100466*	Black Expansion Joint In Curb	Dark Brown	Exterior/ North Wall	ND	95% Cellulose	5% Other

Report Prepared By:
Rosemary Relta
2/9/2018 11:27 AM

NICHE ANALYSIS, INC.

399 Knollwood Road, Suite 208 · White Plains, NY 10603

Tel: (914) 288-0805 · Fax: (914) 288-0807

Sample No./ Lab ID	Type of Material	Color	Area	Asbestos Content & Percent	Non-Asbestos Fiber Content & Percent	Non Fibrous
CAT423-1ST ASB-94 *B0100469*	Brown 4" Pipe Gasket	Brown	Basement/ Crawl Space	80% Chrysotile	ND	20% Other
CAT423-1ST ASB-95 *B0100470*	Brown 4" Pipe Gasket	NA	Basement/ Crawl Space	NA/PS	NA/PS	NS/PS

Note 1: The balance of each sample is non-fibrous particulates. Please contact us promptly if you have any question about these results. Analysis was performed by using "Point Count Technique" as required and recommended by the New York State Department of Health and USEPA Interim Method for "Identification of Asbestos Fibers in Bulk Samples". This report must not be used by the client to claim product endorsements by NVLAP or any agency of the US government. This report relates only to the items listed. The above samples were collected and submitted to NICHE by the client. All sample information was provided by the client. *Polarized light microscopy is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Quantitative transmission electron microscopy is currently the only method that can be used to determine if the material can be considered or treated as non-asbestos-containing.
Note 2: NA/PS = Not Analyzed/Stop on Positive, ND = None Detected

SAMPLE ANALYSIS BY:		POLARIZED LIGHT MICROSCOPY – DISPERSION STANDING (PLM-DS)
METHOD OF SAMPLE PREPARATION & ANALYSIS:		ALL SAMPLES WERE PREPARED AND ANALYZED IN ACCORDANCE WITH THE NYSDOH ELAP "POLARIZED-LIGHT MICROSCOPE METHODS FOR IDENTIFYING AND QUANTITATING ASBESTOS IN BULK SAMPLES" ELAP ITEM 198.1, 04/14/10
INSTRUMENT:		OLYMPUS POLARIZED LIGHT MICROSCOPY, MODEL BH-2
Revision #1	**Date: 2/9/18**	Revised as per clinets request.

ELAP#: 11236

BING LIANG
Laboratory Director

Approved Signatory

Report Prepared By:
Rosemary Relta
2/9/2018 11:27 AM

NICHE ANALYSIS, INC.

399 Knollwood Road, Suite 208 · White Plains, NY 10603

Tel: (914) 288-0805 · Fax: (914) 288-0807

BIDWELL ENVIRONMENTAL, LLC
1353 KINGS HIGHWAY
P.O. BOX 266
SUGAR LOAF, NY 10981

Niche Project 18-22174-1B

PROJECT:	Kensico Lab	**ANALYST:**	Bing Liang
BIDWELL PROJECT #:	21704	**DATE SAMPLED:**	01-25-18
LOCATION:	Entire Kensico Lab	**DATE RECEIVED:**	01-31-18
SCOPE OF WORK:	Building Renovation	**DATE ANALYZED:**	02-01-18

QUALITATIVE ANALYSIS

Sample No./ Lab ID	Type of Material	Sample Location	Asbestos Content	Non-Asbestos Fiber Content	Non Fibrous
CAT423-BASE ASB-90 *B0100467*	Soil on Floor	Basement/ Crawl Space	ND	Trace Cellulose	Soil
CAT423-BASE ASB-91 *B0100468*	Soil on Floor	Basement/ Crawl Space	ND	Trace Cellulose Trace Mineral Wool	Soil

Note 1: The balance of each sample is non-fibrous particulates. Please contact us promptly if you have any question about these results. Analysis was performed by using "Point Count Technique" as required and recommended by the New York State Department of Health and USEPA Interim Method for "Identification of Asbestos Fibers in Bulk Samples". This report must not be used by the client to claim product endorsements by NVLAP or any agency of the US government. This report relates only to the items listed. The above samples were collected and submitted to NICHE by the client. All sample information was provided by the client. *Polarized light microscopy is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Quantitative transmission electron microscopy is currently the only method that can be used to determine if the material can be considered or treated as non-asbestos-containing.

Note 2: Note 2: NA/PS = Not Analyzed/Stop on Positive, ND = None Detected

Note 3: There is currently no government regulated method for dust sample collection and asbestos analysis. The only written method for wipe sampling is ASTM D6480-05 (2010)/ "Standard Test Method for wipe sampling surfaces indirect preparation and analysis for Asbestos Structure Number Concentration by Transmission Electron Microscopy". Sample analysis via PLM is a qualitative analysis and only should be used as a reference. This report must not be used by the client to claim product endorsement by NVLAP or any agency of the US government. This report relates only to the items listed. Direction limit is 1% for asbestos. NICHE's liability not to exceed the invoice amount.

SAMPLE ANALYSIS BY:		POLARIZED LIGHT MICROSCOPY – DISPERSION STANDING (PLM-DS)
METHOD OF SAMPLE PREPARATION & ANALYSIS:		ALL SAMPLES WERE PREPARED AND ANALYZED IN ACCORDANCE WITH THE NYSDOH ELAP "POLARIZED-LIGHT MICROSCOPE METHODS FOR IDENTIFYING AND QUANTITATING ASBESTOS IN BULK SAMPLES" ELAP ITEM 198.1, 04/14/10
INSTRUMENT:		OLYMPUS POLARIZED LIGHT MICROSCOPY, MODEL BH-2
Revision #1	**Date: 2/9/18**	Revised as per clinets request.

ELAP#: 11236

BING LIANG
Laboratory Director

Approved Signatory

Prepared By: Rosemary Relta
2/9/2018 11:30 AM

KAM CONSULTANTS
35-40 36th Street
Long Island City
New York, 11106
Tel: (718) 729-1997
Fax: (718) 729-1876

ANALYSIS REPORT - ASBESTOS IN BULK SAMPLE

CLIENT: NICHE ANALYSIS, INC.
PROJECT: KENSICO LAB / 21704
PROJECT ADDRESS: Entire Kensico Lab
CLIENT PROJECT INFO : BIDWELL
DATE OF COLLECTION: 01/25/18
DATE OF REVISION: 02/09/18 **Report ID: 182611.2**

CLIENT SAMPLE ID#	SAMPLE DESCRIPTION	SAMPLE LOCATION	LAB ID#	ANALYTICAL METHOD	PLM RESULT			PLM-NOB RESULT		TEM RESULT	COMMENTS	
					Asbestos Percentage and Type	Other Fiber Material Percentage and Type	Non-Fibrous Material Percentage and Type	Asbestos Percentage and Type	Other Fiber Material Percentage and Type	Asbestos Percentage and Type	1 LAYER	2 OR MORE LAYERS
CAT 423 1st-ASB-70	Grey Glazing in Garage Door	1st Floor, Garage	182611-01	PLM & TEM NOB				ND		ND	x	
CAT 423 1st-ASB-71	Grey Glazing in Garage Door	1st Floor, Garage	182611-02	PLM & TEM NOB				ND		ND	x	
CAT 423 1st-ASB-72	Black Gasket in Garage Door Panel	1st Floor, Garage	182611-03	PLM & TEM NOB				ND		ND	x	
CAT 423 1st-ASB-73	Black Gasket in Garage Door Panel	1st Floor, Garage	182611-04	PLM & TEM NOB				ND		ND	x	
CAT 423 1st-ASB-74	Green Caulk in Floor Joint	1st Floor, Garage	182611-05	PLM & TEM NOB				ND		ND	x	
CAT 423 1st-ASB-75	Green Caulk in Floor Joint	1st Floor, Garage	182611-06	PLM & TEM NOB				ND		ND	x	
CAT 423 1st-ASB-76	Yellow Wall Caulk	1st Floor, Garage	182611-07	PLM & TEM NOB				ND		ND	x	
CAT 423 1st-ASB-77	Yellow Wall Caulk	1st Floor, Garage	182611-08	PLM & TEM NOB				ND		ND	x	
CAT 423 EXT-ASB-82	Black Tar at Base of Wall	Exterior North Wall	182611-09	PLM & TEM NOB				ND		ND	x	
CAT 423 EXT-ASB-83	Black Tar at Base of Wall	Exterior South Wall	182611-10	PLM & TEM NOB				ND		ND	x	
CAT 423 EXT-ASB-84	White Caulk Around Vent	Exterior South Wall	182611-11	PLM NOB				**1.7%ANTH** 0.57%CHR **Total: 2.3%**			x	
CAT 423 EXT-ASB-85	White Caulk Around Vent	Exterior South Wall	182611-12	PLM NOB				**ANR**				
CAT 423 Base-ASB-88	Black Tar at Base of Wall	Basement, Crawl Space	182611-13	PLM & TEM NOB				ND		ND	x	
CAT 423 Base-ASB-89	Black Tar at Base of Wall	Basement, Crawl Space	182611-14	PLM & TEM NOB				ND		ND	x	
CAT 423 Base-ASB-92	Red 6" Pipe Gasket	Basement, Crawl Space	182611-15	PLM & TEM NOB				ND		ND	x	
CAT 423 Base-ASB-93	Red 6" Pipe Gasket	Basement, Crawl Space	182611-16	PLM & TEM NOB				ND		ND	x	

PLM Method of analysis : ☒ NYS- DOH ELAP 198.1 & 198.6 ☐ EPA 600/M4-82-020 ☐ NYS- DOH ELAP 198.8 (for SM-V Sample)
TEM Method of Analysis: NYS-DOH ELAP 198.4

*PLM RL=0.25% (RL represented by the detection of ones absestos in 400 points). * TRACE= Asbestos appears in a field but does not lie directly under a point. * TEM RL=1% * ND= NONE DETECTED * ANR =Analysis Not Required
*NA = Not analyzed due to residue <1%. Samples are reported as Non-ACM * All PLM-NOB samples with 1% asbestos or less are "Inconclusive" TEM is the only method that can verify that a NOB is inconclusive result in PLM
The results relate only to the items calibrated or tested. Samples will be stored for ninety (90) days and then returned to the client upon request. The certificate of report shall not reproduced without approval of the laboratory. This report must not be used by the client to claim product, certification, approval, or endorsement by NVLAP, NIST or any agency of the Federal Government.
TEM results are not covered by NVLAP and AIHA-LAP.
*Samples condition upon receipt: Acceptable
*If the material contains greater than 10% Vermiculte, Item 198.6 from NYS DOH will be use for analysis. This method does not remove vermiculite and underestimate the level of asbestos in a sample containing greater than 10% vermiculite.

Analyst PLM: Yinglong Guan
Date of Analysis: 02/02/18
NYS-DOH ELAP#: 11273

Analyst TEM: Hao Wu
Date of Analysis: 02/02/18
AIHA-LAP#: 100269

Laboratory Manager: Mei Liu
Date of Report: 02/09/18
NVLAP Lab Code: 102047-0

NICHE ANALYSIS, INC.
399 Knollwood Road, Suite 208
White Plains, NY 10603
914-288-0805
914-288-0807 (Fax)

RECEIVED
KAH CONSULTANTS
2018 FEB -1 A 8:00

182611

TURN AROUND TIME:
☐ RUSH ☐ 6 HRS ☐ 24 HRS ☒ OTHER STANDARD

ASBESTOS FIELD SURVEY DATA SHEET / BULK SAMPLE LOG

PAGE 1 OF 4

PROJECT NO.: 21704
CLIENT: BIDWELL
PROJECT SITE: KENSICO LAB
INVESTIGATOR:

LOCATION(S) SURVEYED: ENTIRE KENSICO LAB
SCOPE OF WORK: BUILDING RENOVATION
INSPECTOR: M WELLOCK DATE(S) OF INSPECTION: 1/25/18

FUNCTIONAL SPACE		SAMPLE # OR ASSUMED	HOMOGENEOUS		QUANTITY	ASSESSMENT		ASBESTOS CONTENT
FLOOR	AREA DESCRIPTION		HID	MATERIAL DESCRIPTION	(LF/SF)	COND	FRIAB	%
	1ST Floor, Garage	CAT423-1ST-ASB-68	1	GREY BRICK WALL MORTAR		1, 2, 3, 4, 5, 6, 7 G MD P	F (NF)	PLM: TEM:
	"	CAT423-1ST-ASB-69	1	"		1, 2, 3, 4, 5, 6, 7 G MD P	F (NF)	PLM: TEM:
	"	CAT423-1ST-ASB-70	2	GREY GLAZING IN GARAGE DOOR		1, 2, 3, 4, 5, 6, 7 G MD P	F (NF)	PLM: TEM:
	"	CAT423-1ST-ASB-71	2	"		1, 2, 3, 4, 5, 6, 7 G MD P	F (NF)	PLM: TEM:
	"	CAT423-1ST-ASB-72	3	BLACK GASKET IN GARAGE DOOR PANEL		1, 2, 3, 4, 5, 6, 7 G MD P	F (NF)	PLM: TEM:
	"	CAT423-1ST-ASB-73	3	"		1, 2, 3, 4, 5, 6, 7 G MD P	F (NF)	PLM: TEM:
	"	CAT423-1ST-ASB-74	4	GREEN CAULK IN FLOOR JOIST		1, 2, 3, 4, 5, 6, 7 G MD P	F (NF)	PLM: TEM:
	"	CAT423-1ST-ASB-75	4	"		1, 2, 3, 4, 5, 6, 7 G MD P	F (NF)	PLM: TEM:
						1, 2, 3, 4, 5, 6, 7 G MD P	F NF	PLM: TEM:

PHYSICAL CONDITION ASSESSMENT
1 Damaged or Significantly Damaged Friable TSI
2 Damaged Friable Surfacing ACM
3 Significantly Damaged Friable Surfacing ACM
4 Damaged or Significantly Damaged Friable Misc. ACM
5 ACBM with potential for Damage
6 ACBM with potential for Significant Damage
7 Remaining Friable or Suspect ACBM
G – Good / MD – Minor Damage / P -Poor

FRIABLE: Yes (Y) / No (N)

PLM - POLARIZED LIGHT MICROSCOPY
TEM - TRANSMISSION ELECTRON MICROSCOPY

RELINQUISHED BY: M Wellock DATE: 1/26/18 TIME:
RECEIVED BY: Rosemary Relta DATE: 1/31/18 TIME:
RELINQUISHED BY: DATE: TIME:
RECEIVED BY: Hoolu DATE: 2/1/18 TIME:

FIELD NOTES:

ANALYZE: ☐ ALL ☒ STOP AT FIRST POSITIVE ☐ PLM ☐ TEM

NYSDOL INSPECTOR:
CERTIFICATE NO.: 12-14716
TELEPHONE NO 845 543 0411
ADDRESS 353 KINGS HIGHWAY, CHESTER

1. A visual determination of accessible suspect materials and condition.
2. Collect bulk samples of suspect building materials.
3. A physical "Hand Pressure" test for determining friability and condition.
4. Assessment of suspect friable and non-friable materials and locations.
5. Quantify the amount of suspect materials in their respective locations.
6. Submit bulk samples for analysis by PLM and/or TEM Method.
7. Bulk Sample locations and suspect materials were identified on the appropriate building floor plan diagram with the sample number.
8. A Chain of Custody record accompanied the samples to the laboratory.

NICHE ANALYSIS, INC.
399 Knollwood Road, Suite 208
White Plains, NY 10603
914-288-0805
914-288-0807 (Fax)

TURN AROUND TIME:
☐ RUSH ☐ 6 HRS ___ ☐ 24 HRS ☒ OTHER STANDARD

ASBESTOS FIELD SURVEY DATA SHEET / BULK SAMPLE LOG

PROJECT NO.: 21704
CLIENT: BIDWELL
PROJECT SITE: KENSICO LAB
INVESTIGATOR:

LOCATION(S) SURVEYED: ENTIRE KENSICO LAB
SCOPE OF WORK: BUILDING RENOVATION
INSPECTOR: M. WELLOCK DATE(S) OF INSPECTION: 1/25/18

FUNCTIONAL SPACE FLOOR	FUNCTIONAL SPACE AREA DESCRIPTION	SAMPLE # OR ASSUMED	HOMOGENEOUS HID	HOMOGENEOUS MATERIAL DESCRIPTION	QUANTITY (LF/SF)	ASSESSMENT COND	ASSESSMENT FRIAB	ASBESTOS CONTENT %
	1ST Floor, Garage	CAT123-1ST-ASB-76	5	YELLOW WALL CAULK		1, 2, 3, 4, 5, 6, 7 G MD P	F (NF)	PLM: TEM:
	"	CAT123-1ST-ASB-77	5	"		1, 2, 3, 4, 5, 6, 7 G MD P	F (NF)	PLM: TEM:
	Exterior, North Wall	CAT123-EXT-ASB-78	6	Grey mortar in stone		1, 2, 3, 4, 5, 6, 7 G MD P	F (NF)	PLM: TEM:
	Exterior, South Wall	CAT123-EXT-ASB-79	6	"		1, 2, 3, 4, 5, 6, 7 G MD P	F (NF)	PLM: TEM:
	Exterior, North Wall	CAT123-EXT-ASB-80	7	TAN MORTAR IN BRICK WALL		1, 2, 3, 4, 5, 6, 7 G MD P	F (NF)	PLM: TEM:
	"	CAT123-EXT-ASB-81	7	"		1, 2, 3, 4, 5, 6, 7 G MD P	F (NF)	PLM: TEM:
	Exterior, North Wall	CAT123-EXT-ASB-82	8	Black tar at base of wall		1, 2, 3, 4, 5, 6, 7 G MD P	F (NF)	PLM: TEM:
	Exterior, South Wall	CAT123-EXT-ASB-83	8	"		1, 2, 3, 4, 5, 6, 7 G MD P	F (NF)	PLM: TEM:
						1, 2, 3, 4, 5, 6, 7 G MD P	F NF	PLM: TEM:

PHYSICAL CONDITION ASSESSMENT
1 Damaged or Significantly Damaged Friable TSI
2 Damaged Friable Surfacing ACM
3 Significantly Damaged Friable Surfacing ACM
4 Damaged or Significantly Damaged Friable Misc. ACM
5 ACBM with potential for Damage
6 ACBM with potential for Significant Damage
7 Remaining Friable or Suspect ACBM
G – Good / MD – Minor Damage / P -Poor

FRIABLE: Yes (Y) / No (N)

PLM - POLARIZED LIGHT MICROSCOPY
TEM - TRANSMISSION ELECTRON MICROSCOPY

RELINQUISHED BY: _____ DATE: 1/26/18 TIME: _____
RECEIVED BY: Rosemary Ro DATE: 1/31/18 TIME: _____
RELINQUISHED BY: _____ DATE: _____ TIME: _____
RECEIVED BY: _____ DATE: 2/1/18 TIME: _____

FIELD NOTES:

ANALYZE: ☐ ALL ☒ STOP AT FIRST POSITIVE ☐ PLM ☐ TEM

NYSDOL INSPECTOR: _____
CERTIFICATE NO.: 12-14716
TELEPHONE NO 845 545 0411
ADDRESS: 1353 KINGS HIGHWAY, CHESTER

1. A visual determination of accessible suspect materials and condition.
2. Collect bulk samples of suspect building materials.
3. A physical "Hand Pressure" test for determining friability and condition.
4. Assessment of suspect friable and non-friable materials and locations.
5. Quantify the amount of suspect materials in their respective locations.
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NICHE ANALYSIS, INC.
399 Knollwood Road, Suite 208
White Plains, NY 10603
914-288-0805
914-288-0807 (Fax)

TURN AROUND TIME:
☐ RUSH ☐ 6 HRS ☐ 24 HRS ☒ OTHER STANDARD

ASBESTOS FIELD SURVEY DATA SHEET / BULK SAMPLE LOG

PAGE 3 OF 4

PROJECT NO.: 21704
CLIENT: BIDWELL
PROJECT SITE: KENSICO CAB
INVESTIGATOR:

LOCATION(S) SURVEYED: ENTIRE KENSICO CAB
SCOPE OF WORK: BUILDING RENOVATION
INSPECTOR: M. WELLOCK DATE(S) OF INSPECTION: 1/25/18

FUNCTIONAL SPACE: FLOOR	FUNCTIONAL SPACE: AREA DESCRIPTION	SAMPLE # OR ASSUMED	HOMOGENEOUS: HID	HOMOGENEOUS: MATERIAL DESCRIPTION	QUANTITY (LF/SF)	ASSESSMENT: COND	ASSESSMENT: FRIAB	ASBESTOS CONTENT %
	Exterior, South Wall	CAT423-EXT-ASB-84	9	White caulk around vent		1, 2, 3, 4, 5, 6, 7 G MD P	F NF	PLM: TEM:
	Exterior, South Wall	CAT423-EXT-ASB-85	9			1, 2, 3, 4, 5, 6, 7 G MD P	F NF	PLM: TEM:
	Exterior, North Wall	CAT423-EXT-ASB-86	10	Black expansion joint behind curb		1, 2, 3, 4, 5, 6, 7 G MD P	F NF	PLM: TEM:
	Exterior, North Wall	CAT423-EXT-ASB-87	10			1, 2, 3, 4, 5, 6, 7 G MD P	F NF	PLM: TEM:
						1, 2, 3, 4, 5, 6, 7 G MD P	F NF	PLM: TEM:
	Basement, Crawl Space	CAT423 Base-ASB 88	11	Black tar at base of wall		1, 2, 3, 4, 5, 6, 7 G MD P	F NF	PLM: TEM:
	Basement, Crawl Space	CAT423 Base-ASB-89	11	Black tar at base of wall		1, 2, 3, 4, 5, 6, 7 G MD P	F NF	PLM: TEM:
	Basement, Crawl Space	CAT423 Base-ASB 90	12	Soil on floor		1, 2, 3, 4, 5, 6, 7 G MD P	F NF	PLM: TEM:
	Basement, Crawl Space	CAT423 Base-ASB 91	12	Soil on floor		1, 2, 3, 4, 5, 6, 7 G MD P	F NF	PLM: TEM:

PHYSICAL CONDITION ASSESSMENT
1 Damaged or Significantly Damaged Friable TSI
2 Damaged Friable Surfacing ACM
3 Significantly Damaged Friable Surfacing ACM
4 Damaged or Significantly Damaged Friable Misc. ACM
5 ACBM with potential for Damage
6 ACBM with potential for Significant Damage
7 Remaining Friable or Suspect ACBM
G – Good / MD – Minor Damage / P -Poor

FRIABLE: Yes (Y) / No (N)

PLM - POLARIZED LIGHT MICROSCOPY
TEM - TRANSMISSION ELECTRON MICROSCOPY

RELINQUISHED BY: _____ DATE: 1/26/18 TIME: _____
RECEIVED BY: Rosemary DATE: 1/31/18 TIME: _____
RELINQUISHED BY: _____ DATE: _____ TIME: _____
RECEIVED BY: _____ DATE: 2/1/18 TIME: _____

FIELD NOTES:

ANALYZE: ☐ ALL ☒ STOP AT FIRST POSITIVE ☐ PLM ☐ TEM

NYSDOL INSPECTOR CERTIFICATE NO.: 12-14716
TELEPHONE NO: 845 545 0411
ADDRESS: 1353 KINGS HIGHWAY, CHESTER

1. A visual determination of accessible suspect materials and condition.
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8. A Chain of Custody record accompanied the samples to the laboratory.

NICHE ANALYSIS, INC.
399 Knollwood Road, Suite 208
White Plains, NY 10603
914-288-0805
914-288-0807 (Fax)

TURN AROUND TIME:
☐ RUSH ☐ 6 HRS ☐ 24 HRS ☒ OTHER STANDARD

ASBESTOS FIELD SURVEY DATA SHEET / BULK SAMPLE LOG

PROJECT NO.: 21704
CLIENT: BIDWELL
PROJECT SITE: KENSICO LAB
INVESTIGATOR:

LOCATION(S) SURVEYED: ENTIRE KENSICO LAB
SCOPE OF WORK: BUILDING RENOVATION
INSPECTOR: M. WELLOCK DATE(S) OF INSPECTION: 1/25/18

FUNCTIONAL SPACE FLOOR	FUNCTIONAL SPACE AREA DESCRIPTION	SAMPLE # OR ASSUMED	HOMOGENEOUS HID	HOMOGENEOUS MATERIAL DESCRIPTION	QUANTITY (LF/SF)	ASSESSMENT COND	ASSESSMENT FRIAB	ASBESTOS CONTENT %
	Basement, Crawl Space	CAT423 Base-ASB 92	13	Red 6" pipe gasket		1, 2, 3, 4, 5, 6, 7 G MD P	F NF	PLM: TEM:
	Basement, Crawl Space	CAT423 Base ASB 93	13	Red 6" pipe gasket		1, 2, 3, 4, 5, 6, 7 G MD P	F NF	PLM: TEM:
	Basement, Crawl Space	CAT423 Base ASB 94	14	Brown 4" pipe gasket		1, 2, 3, 4, 5, 6, 7 G MD P	F NF	PLM: TEM:
	Basement, Crawl Space	CAT423 Base ASB 95	14	Brown 4" pipe gasket		1, 2, 3, 4, 5, 6, 7 G MD P	F NF	PLM: TEM:
						1, 2, 3, 4, 5, 6, 7 G MD P	F NF	PLM: TEM:
						1, 2, 3, 4, 5, 6, 7 G MD P	F NF	PLM: TEM:
						1, 2, 3, 4, 5, 6, 7 G MD P	F NF	PLM: TEM:
						1, 2, 3, 4, 5, 6, 7 G MD P	F NF	PLM: TEM:
						1, 2, 3, 4, 5, 6, 7 G MD P	F NF	PLM: TEM:

PHYSICAL CONDITION ASSESSMENT	FRIABLE	PLM - POLARIZED LIGHT MICROSCOPY	TEM - TRANSMISSION ELECTRON MICROSCOPY
1 Damaged or Significantly Damaged Friable TSI 2 Damaged Friable Surfacing ACM 3 Significantly Damaged Friable Surfacing ACM 4 Damaged or Significantly Damaged Friable Misc. ACM 5 ACBM with potential for Damage 6 ACBM with potential for Significant Damage 7 Remaining Friable or Suspect ACBM G – Good / MD – Minor Damage / P -Poor	Yes (Y) No (N)	RELINQUISHED BY: [signature] DATE: 1/[illegible]/18 TIME: RECEIVED BY: Rosemary DATE: 1/31/18 TIME: RELINQUISHED BY: DATE: / / TIME: RECEIVED BY: [signature] DATE: 2/1/18 TIME:	

FIELD NOTES:

ANALYZE: ☐ ALL ☒ STOP AT FIRST POSITIVE ☐ PLM ☐ TEM

NYSDOL INSPECTOR:
CERTIFICATE NO.:
TELEPHONE NO
ADDRESS:

1. A visual determination of accessible suspect materials and condition.
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4. Assessment of suspect friable and non-friable materials and locations.
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6. Submit bulk samples for analysis by PLM and/or TEM Method.
7. Bulk Sample locations and suspect materials were identified on the appropriate building floor plan diagram with the sample number.
8. A Chain of Custody record accompanied the samples to the laboratory.

CHAIN OF CUSTODY
(BULK-NOB SAMPLE ANALYSIS)

NICHE ANALYSIS, INC.
399 KNOLLWOOD ROAD, SUITE 208
WHITE PLAINS. NY 10605
P: (914) 288-0805; F: (914) 288-0807

NICHE File #: 18-22174-2
Reference #:

PROJECT NAME:	Kensico Lab
PROJECT ADDRESS:	

Page 1 of 1

Client: Bidwell	Sampled By:	Turnaround Time
Report to: Bill to:	Sampled Date: 1/25/18	Rush__; 24 hrs✓; 48 hrs__; 72 hrs__; 5 days__; Other__
Results email to:	Contact To:	Delivered Method # of Samples
☐ rosemary@nicheanalysisinc.com ☐ annie@nicheanalysisinc.com ☐ james@nicheanalysisinc.com ☐ bing@nicheanalysisinc.com	Phone: Fax:	Lab Name

Sample ID	HID	Location	Description (Material)	Color	Method (ELAP) 198.6	198.1	198.4
		Please analyze the samples highlighted in green on the attached COC.			✓	✓	✓
		✱ Stop on 1st Positive ✱					

Received By:	Signature: RR	Date: 1/31/18	Lab Received By:	Signature:	Date: 2/1/18
Relinquished By:	Signature:	Date:	Lab Analyzed By:	Signature:	Date: 2/2/18

HID = Homogenous ID

Analyze: ☐ ALL ☐ STOP @ 1ST POSITIVE

NOTES:

KAM CONSULTANTS
35-40 36th Street
Long Island City
New York, 11106
Tel: (718) 729-1997
Fax: (718) 729-1876

ANALYSIS REPORT - ASBESTOS IN BULK SAMPLE

CLIENT: NICHE ANALYSIS, INC.
PROJECT: KENSICO LAB
PROJECT ADDRESS: N/A
CLIENT PROJECT INFO : BIDWELL
DATE OF COLLECTION: 03/06/18
DATE REVISED : 03/09/18 Report ID: 183081.1

CLIENT SAMPLE ID#	SAMPLE DESCRIPTION	SAMPLE LOCATION	LAB ID#	ANALYTICAL METHOD	PLM RESULT			PLM-NOB RESULT		TEM RESULT	COMMENTS	
					Asbestos Percentage and Type	Other Fiber Material Percentage and Type	Non-Fibrous Material Percentage and Type	Asbestos Percentage and Type	Other Fiber Material Percentage and Type	Asbestos Percentage and Type	1 LAYER	2 OR MORE LAYERS
CAT-423-BASE-ASB-96	Grey Joint Packing	Bsmt./Crawl Space	183081-01	PLM&TEM NOB				ND		ND	x	
CAT-423-BASE-ASB-97	Grey Joint Packing	Bsmt./Crawl Space	183081-02	PLM&TEM NOB				ND		ND	x	

PLM Method of analysis : ☒ NYS- DOH ELAP 198.1 & 198.6 ☐ EPA 600/M4-82-020 ☐ NYS- DOH ELAP 198.8 (for SM-V Sample)
TEM Method of Analysis: NYS-DOH ELAP 198.4

*PLM RL=0.25% (RL represented by the detection of ones absestos in 400 points). * TRACE= Asbestos appears in a field but does not lie directly under a point. * TEM RL=1% * ND= NONE DETECTED * ANR =Analysis Not Required
*NA = Not analyzed due to residue <1%. Samples are reported as Non-ACM * All PLM-NOB samples with 1% asbestos or less are "Inconclusive" TEM is the only method that can verify that a NOB is inconclusive result in PLM
The results relate only to the items calibrated or tested. Samples will be stored for ninety (90) days and then returned to the client upon request. The certificate of report shall not reproduced without approval of the laboratory. This report must not be used by the client to claim product, certification, approval, or endorsement by NVLAP, NIST or any agency of the Federal Government.
TEM results are not covered by NVLAP and AIHA-LAP.
*Samples condition upon receipt: Acceptable
*If the material contains greater than 10% Vermiculte, Item 198.6 from NYS DOH will be use for analysis. This method does not remove vermiculite and underestimate the level of asbestos in a sample containing greater than 10% vermiculite.

Analyst PLM: Roody Louis
Date of Analysis: 03/07/18
NYS-DOH ELAP #: 11273

Analyst TEM: Hao Wu
Date of Analysis: 03/08/18
AIHA-LAP#: 100269 *NVLAP Lab Code: 102047-0*

Laboratory Manager: Mei Liu
Date of Report: 03/09/18

NICHE ANALYSIS, INC.
399 Knollwood Road, Suite 208
White Plains, NY 10603
914-288-0805
914-288-0807 (Fax)

TURN AROUND TIME: ☐ RUSH ☐ 6 HRS ___ ☐ 24 HRS ☐ OTHER ______

ASBESTOS FIELD SURVEY DATA SHEET / BULK SAMPLE LOG

PROJECT NO.:
CLIENT: BIDWELL
PROJECT SITE: KENSICO LAB
INVESTIGATOR:

LOCATION(S) SURVEYED: BASEMENT, CRAWLSPACE
SCOPE OF WORK: BUILDING RENOVATION
INSPECTOR: M. WELLOCK DATE(S) OF INSPECTION: 3/6/18

FUNCTIONAL SPACE FLOOR	AREA DESCRIPTION	SAMPLE # OR ASSUMED	HID	HOMOGENEOUS MATERIAL DESCRIPTION	QUANTITY (LF/SF)	ASSESSMENT COND	FRIAB	ASBESTOS CONTENT %
B	BASEMENT, CRAWLSPACE	CAT423-BASE-ASB-96	1	GREY DRAIN JOINT PACKING		1, 2, 3, 4, 5, 6, 7 (G) MD P	F (NF)	PLM: TEM:
B	"	CAT423-BASE-ASB-97	1	GREY DRAIN JOINT PACKING		1, 2, 3, 4, 5, 6, 7 (G) MD P	F (NF)	PLM: TEM:
						1, 2, 3, 4, 5, 6, 7 G MD P	F NF	PLM: TEM:
						1, 2, 3, 4, 5, 6, 7 G MD P	F NF	PLM: TEM:
						1, 2, 3, 4, 5, 6, 7 G MD P	F NF	PLM: TEM:
						1, 2, 3, 4, 5, 6, 7 G MD P	F NF	PLM: TEM:
						1, 2, 3, 4, 5, 6, 7 G MD P	F NF	PLM: TEM:
						1, 2, 3, 4, 5, 6, 7 G MD P	F NF	PLM: TEM:
						1, 2, 3, 4, 5, 6, 7 G MD P	F NF	PLM: TEM:

PHYSICAL CONDITION ASSESSMENT
1 Damaged or Significantly Damaged Friable TSI
2 Damaged Friable Surfacing ACM
3 Significantly Damaged Friable Surfacing ACM
4 Damaged or Significantly Damaged Friable Misc. ACM
5 ACBM with potential for Damage
6 ACBM with potential for Significant Damage
7 Remaining Friable or Suspect ACBM
G – Good / MD – Minor Damage / P - Poor

FRIABLE
Yes (Y)
No (N)

PLM - POLARIZED LIGHT MICROSCOPY TEM - TRANSMISSION ELECTRON MICROSCOPY

RELINQUISHED BY: M. Wellock DATE: 3/6/18 TIME:
RECEIVED BY: Rosemary Ro DATE: 3/6/18 TIME:
RELINQUISHED BY: DATE: TIME:
RECEIVED BY: DATE: TIME:

NYSDOL INSPECTOR: M. WELLOCK
CERTIFICATE NO.: 12-14716
TELEPHONE NO.: 845 610 3993
ADDRESS:

1. A visual determination of accessible suspect materials and condition.
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5. Quantify the amount of suspect materials in their respective locations.
6. Submit bulk samples for analysis by PLM and/or TEM Method.
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8. A Chain of Custody record accompanied the samples to the laboratory.

FIELD NOTES:

ANALYZE: ☐ ALL ☒ STOP AT FIRST POSITIVE ☐ PLM ☐ TEM

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

Niche Analysis, Inc.
Suite 208
399 Knollwood Road

White Plains, NY 10603

FILE NUMBER: 99-0933
LICENSE NUMBER: 28914
LICENSE CLASS: RESTRICTED
DATE OF ISSUE: 11/25/2017
EXPIRATION DATE: 12/31/2018

Duly Authorized Representative – Bing Liang:

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)

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER

Expires 12:01 AM April 01, 2018
Issued April 01, 2017

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

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

MR. BING LIANG
NICHE ANALYSIS INC
399 KNOLLWOOD ROAD SUITE 208
WHITE PLAINS, NY 10603

NY Lab Id No: 11236

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

Serial No.: 55924

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 Labor
Division of Safety and Health
License and Certificate Unit
State Campus, Building 12
Albany, NY 12240

ASBESTOS HANDLING LICENSE

KAM Consultants Corporation

35-40 36th Street

Long Island Cty, NY 11106

FILE NUMBER: 99-0898
LICENSE NUMBER: 28659
LICENSE CLASS: RESTRICTED
DATE OF ISSUE: 10/06/2017
EXPIRATION DATE: 10/31/2018

Duly Authorized Representative – George Kouvaras:

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)

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER

Expires 12:01 AM April 01, 2018
Issued April 01, 2017

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

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

MR. GEORGE KOUVARAS
KAM CONSULTANTS
35-40 36TH ST
LONG ISLAND CITY, NY 11106

NY Lab Id No: 11273

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
Asbestos-Vermiculite-Containing Material	Item 198.8 of Manual
Lead in Dust Wipes	EPA 7000B
Lead in Paint	EPA 7000B

Sample Preparation Methods

	EPA 3050B
	ASTM E-1979-12

Serial No.: 55940

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

ATC Group Services, LLC
10th Floor
104 East 25th Street

New York, NY 10010

FILE NUMBER: 99-0121
LICENSE NUMBER: 29902
LICENSE CLASS: RESTRICTED
DATE OF ISSUE: 03/29/2017
EXPIRATION DATE: 03/31/2018

Duly Authorized Representative – Mark Terjesen:

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)

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER

Expires 12:01 AM April 01, 2018
Issued April 01, 2017

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

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

MS. MILENA BONEZZI
ATC GROUP SERVICES LLC
104 EAST 25TH STREET 10TH FLOOR
NEW YORK, NY 10010

NY Lab Id No: 10879

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
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
Asbestos-Vermiculite-Containing Material	Item 198.8 of Manual

Serial No.: 55817

ATTACHMENT C

Data Reports and Sample Locations from
Previous Surveys and Sampling Events

Lead and PCB Data Reports

AmeriSci Boston
Eight School Street
Weymouth, MA 02189
781-337-9334

Laboratory Report

Report Date 10/13/2004
Workorder No. 0410-00032

Customer: URS Corporation-New York
5 Penn Plaza
13th Floor
New York, NY 10001

Attention: Mr. Tom Gibbons

Subject: BWS 191: PAINT CHIPS

Sample: 001 191-LBP-01: BEIGE PAINT-MICROBIOLOGY OFFICE,ABOVE SUSPENDED CEILING TILE
Date: 09/28/2004
Matrix: CHIP

Parameter	Method	Results	Units	PQL	Analyst	Analysis Date	Qual
Lead, Chip	7420, SW-846	0.0912	%	0.0124	JRH	10/11/2004	

Sample: 002 191-LBP-02: BLACK PAINT ON DUCT-BASEMENT BOILER ROOM
Date: 09/28/2004
Matrix: CHIP

Parameter	Method	Results	Units	PQL	Analyst	Analysis Date	Qual
Lead, Chip	7420, SW-846	0.264	%	0.0247	JRH	10/11/2004	

Sample: 003 191-LBP-03: SILVER PAINT ON MILLS-WATER TUBE BOILER
Date: 09/28/2004
Matrix: CHIP

Parameter	Method	Results	Units	PQL	Analyst	Analysis Date	Qual
Lead, Chip	7420, SW-846	0.213	%	0.0181	JRH	10/11/2004	

Sample: 004 191-LBP-04: BEIGE CEILING PAINT-BASEMENT STORAGE ROOM
Date: 09/28/2004
Matrix: CHIP

Parameter	Method	Results	Units	PQL	Analyst	Analysis Date	Qual
Lead, Chip	7420, SW-846	0.512	%	0.0374	JRH	10/11/2004	

Certifications: MA: MA069 NY:10982 CT: PH0119 RI:A45 CA:2050 NJ: 59744

ND = Not Detected **PQL= Practical Quantitation Limit**

AmeriSci Boston
Eight School Street
Weymouth, MA 02189
781-337-9334

Laboratory Report

Report Date 05/23/2005
Workorder No. 0505-00140

Customer: URS Corporation-New York
5 Penn Plaza
13th Floor
New York, NY 10001

Attention: Mr. Tom Gibbons

Subject: BWS-191: KENSILO LAB

Sample: 001 191-01-LCP-01 BLACK DUST IN BASEMENT
Date: 05/04/2005
Matrix: CHIP

Parameter	Method	Results	Units	PQL	Analyst	Analysis Date	Qual
Lead, Chip	7420, SW-846	0.205	%	0.0138	NAP	05/12/2005	
Mercury	SW-846; 7471	2.00	mg/Kg	0.10	JRH	05/19/2005	
PCB 8082-SOIL/SOLID					LMS	05/18/2005	
PCB-1016	EPA 8082	ND	ug/Kg	3330	LMS	05/18/2005	
PCB-1221	EPA 8082	ND	ug/Kg	3330	LMS	05/18/2005	
PCB-1232	EPA 8082	ND	ug/Kg	3330	LMS	05/18/2005	
PCB-1242	EPA 8082	ND	ug/Kg	3330	LMS	05/18/2005	
PCB-1248	EPA 8082	ND	ug/Kg	3330	LMS	05/18/2005	
PCB-1254	EPA 8082	ND	ug/Kg	3330	LMS	05/18/2005	
PCB-1260	EPA 8082	ND	ug/Kg	3330	LMS	05/18/2005	
PCB-1262	EPA 8082	ND	ug/Kg	3330	LMS	05/18/2005	
PCB-1268	EPA 8082	ND	ug/Kg	3330	LMS	05/18/2005	
TCMX (SURROGATE)		120	%		LMS	05/18/2005	
DCB (SURROGATE)		150	%		LMS	05/18/2005	
Percent Solids		100	%		EBH	05/17/2005	
PCB OIL/SOIL EXTRACTION		0.30			MEW	05/17/2005	

Sample: 002 191-01-LCP-02 SILVER BOILER IN BASEMENT
Date: 05/04/2005
Matrix: CHIP

Parameter	Method	Results	Units	PQL	Analyst	Analysis Date	Qual
Lead, Chip	7420, SW-846	0.104	%	0.0154	NAP	05/12/2005	
Mercury	SW-846; 7471	0.14	mg/Kg	0.10	JRH	05/19/2005	
PCB 8082-SOIL/SOLID					LMS	05/18/2005	
PCB-1016	EPA 8082	ND	ug/Kg	2700	LMS	05/18/2005	

Certifications: MA: MA069 NY:10982 CT: PH0119 RI:A45 CA:2050 NJ: 59744

ND = Not Detected **PQL= Practical Quantitation Limit**

Sample: 002 191-01-LCP-02 SILVER BOILER IN BASEMENT
(Continued)

Parameter	Method	Results	Units	PQL	Analyst	Analysis Date	Qual
PCB-1221	EPA 8082	ND	ug/Kg	2700	LMS	05/18/2005	
PCB-1232	EPA 8082	ND	ug/Kg	2700	LMS	05/18/2005	
PCB-1242	EPA 8082	ND	ug/Kg	2700	LMS	05/18/2005	
PCB-1248	EPA 8082	ND	ug/Kg	2700	LMS	05/18/2005	
PCB-1254	EPA 8082	ND	ug/Kg	2700	LMS	05/18/2005	
PCB-1260	EPA 8082	ND	ug/Kg	2700	LMS	05/18/2005	
PCB-1262	EPA 8082	ND	ug/Kg	2700	LMS	05/18/2005	
PCB-1268	EPA 8082	ND	ug/Kg	2700	LMS	05/18/2005	
TCMX (SURROGATE)		123	%		LMS	05/18/2005	
DCB (SURROGATE)		154	%		LMS	05/18/2005	
Percent Solids		100	%		EBH	05/17/2005	
PCB OIL/SOIL EXTRACTION		0.37			MEW	05/17/2005	

Sample: 003 191-19-LCP-01 CREAM CEILING PAINT IN 2ND FLOOR MICROBIOLOGY OFFICE
Date: 05/04/2005
Matrix: CHIP

Parameter	Method	Results	Units	PQL	Analyst	Analysis Date	Qual
Lead, Chip	7420, SW-846	0.105	%	0.0128	NAP	05/12/2005	
Mercury	SW-846; 7471	5.05	mg/Kg	0.19	JRH	05/19/2005	
PCB 8082-SOIL/SOLID					LMS	05/18/2005	
PCB-1016	EPA 8082	ND	ug/Kg	1230	LMS	05/18/2005	
PCB-1221	EPA 8082	ND	ug/Kg	1230	LMS	05/18/2005	
PCB-1232	EPA 8082	ND	ug/Kg	1230	LMS	05/18/2005	
PCB-1242	EPA 8082	ND	ug/Kg	1230	LMS	05/18/2005	
PCB-1248	EPA 8082	ND	ug/Kg	1230	LMS	05/18/2005	
PCB-1254	EPA 8082	5610	ug/Kg	1230	LMS	05/18/2005	
PCB-1260	EPA 8082	ND	ug/Kg	1230	LMS	05/18/2005	
PCB-1262	EPA 8082	ND	ug/Kg	1230	LMS	05/18/2005	
PCB-1268	EPA 8082	ND	ug/Kg	1230	LMS	05/18/2005	
TCMX (SURROGATE)		122	%		LMS	05/18/2005	
DCB (SURROGATE)		152	%		LMS	05/18/2005	
Percent Solids		100	%		EBH	05/17/2005	
PCB OIL/SOIL EXTRACTION		0.81			MEW	05/17/2005	

EcoTest Laboratories Inc
377 Sheffield Ave
North Babylon, NY 11703
631 422-5777

LAB NO.264428.01 11/16/06

NYC-DEP, Sutton Park Offices
465 Columbus Ave., 2nd Floor
Valhalla, NY 10595
ATTN: Patricia Daye PO#:

SOURCE OF SAMPLE: Kensico Lab,
SOURCE OF SAMPLE: 19 West Lake Drive, Valhalla, NY
COLLECTED BY: Client DATE COL'D:11/01/06 RECEIVED:11/09/06
TIME COL'D:1700
MATRIX:.Solid SAMPLE: Lunch Room Window Caulking
Grab

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Aroclor 1016	mg/Kg	< 1		11/15/06	1	EPA8082
Aroclor 1221	mg/Kg	< 1		11/15/06	1	EPA8082
Aroclor 1232	mg/Kg	< 1		11/15/06	1	EPA8082
Aroclor 1242	mg/Kg	< 1		11/15/06	1	EPA8082
Aroclor 1248	mg/Kg	< 1		11/15/06	1	EPA8082
Aroclor 1254	mg/Kg	< 1		11/15/06	1	EPA8082
Aroclor 1260	mg/Kg	< 1		11/15/06	1	EPA8082

cc:Edward Walters

LRL=laboratory Reporting Limit

REMARKS:

DIRECTOR

rn = 31874 NYSDOH ID # 10320

EcoTest Laboratories Inc
377 Sheffield Ave
North Babylon, NY 11703
631 422-5777

LAB NO.264428.02 11/16/06

NYC-DEP, Sutton Park Offices
465 Columbus Ave., 2nd Floor
Valhalla, NY 10595
ATTN: Patricia Daye PO#:

SOURCE OF SAMPLE: Kensico Lab,
SOURCE OF SAMPLE: 19 West Lake Drive, Valhalla, NY
COLLECTED BY: Client DATE COL'D:11/06/06 RECEIVED:11/09/06
TIME COL'D:1100
MATRIX:.Solid SAMPLE: Attic Duct Work
Grab

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Aroclor 1016	mg/Kg	< 1		11/15/06	1	EPA8082
Aroclor 1221	mg/Kg	< 1		11/15/06	1	EPA8082
Aroclor 1232	mg/Kg	< 1		11/15/06	1	EPA8082
Aroclor 1242	mg/Kg	< 1		11/15/06	1	EPA8082
Aroclor 1248	mg/Kg	< 1		11/15/06	1	EPA8082
Aroclor 1254	mg/Kg	2.9		11/15/06	1	EPA8082
Aroclor 1260	mg/Kg	< 1		11/15/06	1	EPA8082
Arsenic as As	mg/Kg	< 5		11/15/06	5	EPA6010
Barium as Ba	mg/Kg	77		11/15/06	2.5	EPA6010
Cadmium as Cd	mg/Kg	13		11/15/06	2.5	EPA6010
Chromium as Cr	mg/Kg	41		11/15/06	2.5	EPA6010
Lead as Pb	mg/Kg	820		11/15/06	2.5	EPA6010
Mercury as Hg	mg/Kg	0.67		11/14/06	0.1	EPA7470A
Selenium as Se	mg/Kg	< 1		11/15/06	1	EPA7740
Silver as Ag	mg/Kg	< 2.5		11/15/06	2.5	EPA6010

cc:Edward Walters

LRL=laboratory Reporting Limit

REMARKS:

DIRECTOR

rn = 31875 NYSDOH ID # 10320

EcoTest Laboratories Inc
377 Sheffield Ave
North Babylon, NY 11703
631 422-5777

LAB NO.264428.03 11/16/06

NYC-DEP, Sutton Park Offices
465 Columbus Ave., 2nd Floor
Valhalla, NY 10595
ATTN: Patricia Daye PO#:

SOURCE OF SAMPLE: Kensico Lab,
SOURCE OF SAMPLE: 19 West Lake Drive, Valhalla, NY
COLLECTED BY: Client DATE COL'D:11/06/06 RECEIVED:11/09/06
TIME COL'D:1115
MATRIX:.Solid SAMPLE: Lunch Room White Paint
Grab

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Aroclor 1016	mg/Kg	< 1		11/15/06	1	EPA8082
Aroclor 1221	mg/Kg	< 1		11/15/06	1	EPA8082
Aroclor 1232	mg/Kg	< 1		11/15/06	1	EPA8082
Aroclor 1242	mg/Kg	< 1		11/15/06	1	EPA8082
Aroclor 1248	mg/Kg	< 1		11/15/06	1	EPA8082
Aroclor 1254	mg/Kg	3.7		11/15/06	1	EPA8082
Aroclor 1260	mg/Kg	< 1		11/15/06	1	EPA8082
Arsenic as As	mg/Kg	5.6		11/15/06	5	EPA6010
Barium as Ba	mg/Kg	31		11/15/06	2.5	EPA6010
Cadmium as Cd	mg/Kg	2.7		11/15/06	2.5	EPA6010
Chromium as Cr	mg/Kg	2.5		11/15/06	2.5	EPA6010
Lead as Pb	mg/Kg	1000		11/15/06	2.5	EPA6010
Mercury as Hg	mg/Kg	7.3		11/14/06	0.5	EPA7470A
Selenium as Se	mg/Kg	< 1		11/15/06	1	EPA7740
Silver as Ag	mg/Kg	< 2.5		11/15/06	2.5	EPA6010

cc:Edward Walters

LRL=laboratory Reporting Limit

REMARKS:

DIRECTOR

rn = 31876 NYSDOH ID # 10320

EcoTest Laboratories Inc
377 Sheffield Ave
North Babylon, NY 11703
631 422-5777

LAB NO.264428.04 11/16/06

NYC-DEP, Sutton Park Offices
465 Columbus Ave., 2nd Floor
Valhalla, NY 10595
ATTN: Patricia Daye PO#:

SOURCE OF SAMPLE: Kensico Lab.
SOURCE OF SAMPLE: 19 West Lake Drive, Valhalla, NY
COLLECTED BY: Client DATE COL'D:11/06/06 RECEIVED:11/09/06
TIME COL'D:1120
MATRIX:.Solid SAMPLE: Lunch Room Beige Paint
Grab

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Aroclor 1016	mg/Kg	< 1		11/15/06	1	EPA8082
Aroclor 1221	mg/Kg	< 1		11/15/06	1	EPA8082
Aroclor 1232	mg/Kg	< 1		11/15/06	1	EPA8082
Aroclor 1242	mg/Kg	< 1		11/15/06	1	EPA8082
Aroclor 1248	mg/Kg	< 1		11/15/06	1	EPA8082
Aroclor 1254	mg/Kg	< 1		11/15/06	1	EPA8082
Aroclor 1260	mg/Kg	< 1		11/15/06	1	EPA8082
Arsenic as As	mg/Kg	5.5		11/15/06	5	EPA6010
Barium as Ba	mg/Kg	37		11/15/06	2.5	EPA6010
Cadmium as Cd	mg/Kg	< 2.5		11/15/06	2.5	EPA6010
Chromium as Cr	mg/Kg	39		11/15/06	2.5	EPA6010
Lead as Pb	mg/Kg	350		11/15/06	2.5	EPA6010
Mercury as Hg	mg/Kg	1.3		11/14/06	0.1	EPA7470A
Selenium as Se	mg/Kg	< 1		11/15/06	1	EPA7740
Silver as Ag	mg/Kg	< 2.5		11/15/06	2.5	EPA6010

cc:Edward Walters

LRL=laboratory Reporting Limit

REMARKS:

DIRECTOR

rn = 31877 NYSDOH ID # 10320

EcoTest Laboratories Inc
377 Sheffield Ave
North Babylon, NY 11703
631 422-5777

LAB NO.264428.05 11/16/06

NYC-DEP, Sutton Park Offices
465 Columbus Ave., 2nd Floor
Valhalla, NY 10595
ATTN: Patricia Daye PO#:

SOURCE OF SAMPLE: Kensico Lab,
SOURCE OF SAMPLE: 19 West Lake Drive, Valhalla, NY
COLLECTED BY: Client DATE COL'D:11/06/06 RECEIVED:11/09/06
TIME COL'D:1130
MATRIX:.Solid SAMPLE: Drafting Room Ceiling Beams
Grab

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Aroclor 1016	mg/Kg	< 1		11/15/06	1	EPA8082
Aroclor 1221	mg/Kg	< 1		11/15/06	1	EPA8082
Aroclor 1232	mg/Kg	< 1		11/15/06	1	EPA8082
Aroclor 1242	mg/Kg	< 1		11/15/06	1	EPA8082
Aroclor 1248	mg/Kg	< 1		11/15/06	1	EPA8082
Aroclor 1254	mg/Kg	3.2		11/15/06	1	EPA8082
Aroclor 1260	mg/Kg	< 1		11/15/06	1	EPA8082
Arsenic as As	mg/Kg	< 5		11/15/06	5	EPA6010
Barium as Ba	mg/Kg	200		11/15/06	2.5	EPA6010
Cadmium as Cd	mg/Kg	< 2.5		11/15/06	2.5	EPA6010
Chromium as Cr	mg/Kg	230		11/15/06	2.5	EPA6010
Lead as Pb	mg/Kg	1800		11/15/06	2.5	EPA6010
Mercury as Hg	mg/Kg	6.3		11/14/06	0.5	EPA7470A
Selenium as Se	mg/Kg	< 1		11/15/06	1	EPA7740
Silver as Ag	mg/Kg	< 2.5		11/15/06	2.5	EPA6010

cc:Edward Walters

LRL=laboratory Reporting Limit

REMARKS:

DIRECTOR

rn = 31878 NYSDOH ID # 10320

EcoTest Laboratories Inc
377 Sheffield Ave
North Babylon, NY 11703
631 422-5777

LAB NO.264428.06 11/16/06

NYC-DEP, Sutton Park Offices
465 Columbus Ave., 2nd Floor
Valhalla, NY 10595
ATTN: Patricia Daye PO#:

SOURCE OF SAMPLE: Kensico Lab,
SOURCE OF SAMPLE: 19 West Lake Drive, Valhalla, NY
COLLECTED BY: Client DATE COL'D:11/06/06 RECEIVED:11/09/06
TIME COL'D:1140
MATRIX:.Solid SAMPLE: Library & Conference Room Wall
Grab

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Aroclor 1016	mg/Kg	< 1		11/15/06	1	EPA8082
Aroclor 1221	mg/Kg	< 1		11/15/06	1	EPA8082
Aroclor 1232	mg/Kg	< 1		11/15/06	1	EPA8082
Aroclor 1242	mg/Kg	< 1		11/15/06	1	EPA8082
Aroclor 1248	mg/Kg	< 1		11/15/06	1	EPA8082
Aroclor 1254	mg/Kg	3.3		11/15/06	1	EPA8082
Aroclor 1260	mg/Kg	< 1		11/15/06	1	EPA8082
Arsenic as As	mg/Kg	< 5		11/15/06	5	EPA6010
Barium as Ba	mg/Kg	680		11/15/06	2.5	EPA6010
Cadmium as Cd	mg/Kg	< 2.5		11/15/06	2.5	EPA6010
Chromium as Cr	mg/Kg	44		11/15/06	2.5	EPA6010
Lead as Pb	mg/Kg	320		11/15/06	2.5	EPA6010
Mercury as Hg	mg/Kg	7.3		11/14/06	0.5	EPA7470A
Selenium as Se	mg/Kg	< 1		11/15/06	1	EPA7740
Silver as Ag	mg/Kg	< 2.5		11/15/06	2.5	EPA6010

cc:Edward Walters

LRL=laboratory Reporting Limit

REMARKS:

DIRECTOR

rn = 31879 NYSDOH ID # 10320

EcoTest Laboratories Inc
377 Sheffield Ave
North Babylon, NY 11703
631 422-5777

LAB NO.264428.07 11/16/06

NYC-DEP, Sutton Park Offices
465 Columbus Ave., 2nd Floor
Valhalla, NY 10595
ATTN: Patricia Daye PO#:

SOURCE OF SAMPLE: Kensico Lab,
SOURCE OF SAMPLE: 19 West Lake Drive, Valhalla, NY
COLLECTED BY: Client DATE COL'D:11/06/06 RECEIVED:11/09/06
TIME COL'D:1150
MATRIX:.Solid SAMPLE: First Floor Ceiling Tiles
Grab

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Aroclor 1016	mg/Kg	< 1		11/15/06	1	EPA8082
Aroclor 1221	mg/Kg	< 1		11/15/06	1	EPA8082
Aroclor 1232	mg/Kg	< 1		11/15/06	1	EPA8082
Aroclor 1242	mg/Kg	< 1		11/15/06	1	EPA8082
Aroclor 1248	mg/Kg	< 1		11/15/06	1	EPA8082
Aroclor 1254	mg/Kg	2.6		11/15/06	1	EPA8082
Aroclor 1260	mg/Kg	< 1		11/15/06	1	EPA8082
Arsenic as As	mg/Kg	17		11/15/06	5	EPA6010
Barium as Ba	mg/Kg	300		11/15/06	2.5	EPA6010
Cadmium as Cd	mg/Kg	100		11/15/06	2.5	EPA6010
Chromium as Cr	mg/Kg	6.6		11/15/06	2.5	EPA6010
Lead as Pb	mg/Kg	20		11/15/06	2.5	EPA6010
Mercury as Hg	mg/Kg	2.7		11/14/06	0.1	EPA7470A
Selenium as Se	mg/Kg	< 1		11/15/06	1	EPA7740
Silver as Ag	mg/Kg	< 2.5		11/15/06	2.5	EPA6010

cc:Edward Walters

LRL=laboratory Reporting Limit

REMARKS:

DIRECTOR

rn = 31880 NYSDOH ID # 10320

EcoTest Laboratories Inc
377 Sheffield Ave
North Babylon, NY 11703
631 422-5777

LAB NO.264428.08 11/16/06

NYC-DEP, Sutton Park Offices
465 Columbus Ave., 2nd Floor
Valhalla, NY 10595
ATTN: Patricia Daye PO#:

SOURCE OF SAMPLE: Kensico Lab,
SOURCE OF SAMPLE: 19 West Lake Drive, Valhalla, NY
COLLECTED BY: Client DATE COL'D:11/06/06 RECEIVED:11/09/06
TIME COL'D:1200
MATRIX:.Solid SAMPLE: Boiler Room Wall
Grab

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Aroclor 1016	mg/Kg	< 1		11/15/06	1	EPA8082
Aroclor 1221	mg/Kg	< 1		11/15/06	1	EPA8082
Aroclor 1232	mg/Kg	< 1		11/15/06	1	EPA8082
Aroclor 1242	mg/Kg	< 1		11/15/06	1	EPA8082
Aroclor 1248	mg/Kg	< 1		11/15/06	1	EPA8082
Aroclor 1254	mg/Kg	26		11/15/06	5	EPA8082
Aroclor 1260	mg/Kg	< 1		11/15/06	1	EPA8082
Arsenic as As	mg/Kg	< 5		11/15/06	5	EPA6010
Barium as Ba	mg/Kg	100		11/15/06	2.5	EPA6010
Cadmium as Cd	mg/Kg	< 2.5		11/15/06	2.5	EPA6010
Chromium as Cr	mg/Kg	440		11/15/06	2.5	EPA6010
Lead as Pb	mg/Kg	5600		11/15/06	2.5	EPA6010
Mercury as Hg	mg/Kg	1.2		11/14/06	0.1	EPA7470A
Selenium as Se	mg/Kg	< 1		11/15/06	1	EPA7740
Silver as Ag	mg/Kg	< 2.5		11/15/06	2.5	EPA6010

cc:Edward Walters

LRL=laboratory Reporting Limit

REMARKS:

DIRECTOR

rn = 31881 NYSDOH ID # 10320

Asbestos Data Reports

New York City Department of Enviromental Protection

Item Type	Item Id	Building Name	Functional Area Descrption	Material COC	Material Location	Material Description	Homogen- ous Id	Recomm endation	Item Created Date	Target Date	Status	Sample Results
Facility Sampling	15_LATS1	Kensico Laboratory - BWS-191	5 - Main Level	Asbestos	Floor	Floor Tile Green 9 in. x 9 in.	11	Manage In Place	8/29/2005	8/18/2017	Manage	
	Comments		**Comment Type**	**Comment Description**								
			Item	Manage in place According to DEP Asbestos Policy Guidelines. Tiles were covered with linoleum sheeting in early 2008. ----------								
			Recommendation	Being managed in PMIS -Recomendation- Manage in Place								
Facility Sampling	15036	Kensico Laboratory - BWS-191	1st Floor - Throughout	Lead, PCB	Laboratory Areas	Ceiling Tile		Follow OSHA 1926	1/26/2017		Closed	PCB-4.43mg/kg (PPM), Lead-13.0mg/kg (PPM), Lead-0.096mg/L, PCB-0.70mg/kg (PPM), Lead-172mg/kg (PPM), Lead-<0.005mg/L, Lead-20mg/kg (PPM), PCB-2.6mg/kg (PPM)
	Sample Comments		Non-Haz; Aroclor 1254,1260 LCP Non-Haz TCLP Non-Haz; Aroclor 1254,1260 LCP Non-Haz TCLP LCP Non-Haz PCB; Aroclor 1254									
	Comments		**Comment Type**	**Comment Description**								
			Item	Historical results extracted from 2003 Fleet Environmental survey (2003) and In-House Sampling activity (2006)								
			Recommendation	LCP <5000 mg/kg; Non-Haz PCB <50 ppm								
Facility Sampling	15037	Kensico Laboratory - BWS-191	1st Floor - Throughout	Asbestos	Chemistry Room	Ceiling Tile		No action is required	1/26/2017		Closed	Asbestos-0%
	Sample Comments		Non-ACM; Homogenous throughout 1st Floor Lab Areas; BWS-U2006-58E									
	Comments		**Comment Type**	**Comment Description**								
			Recommendation	Non-ACM; Ceiling Tile Mastic Non-ACM; Sampled during URS inspection, please view Facility FSAR for results								

New York City Department of Enviromental Protection

Item Type	Item Id	Building Name	Functional Area Descrption	Material COC	Material Location	Material Description	Homogen- ous Id	Recomm endation	Item Created Date	Target Date	Status	Sample Results
Facility Sampling	BWS-191-05	Kensico Laboratory - BWS-191	Interior	Asbestos	Conduits	Wire Insulation		No action is required			Closed	Asbestos-0%
	Comments		**Comment Type**	**Comment Description**								
			Item	Samples collected from wire insulatioon associated with outlets and light fixtures								
Facility Sampling	BWS-191-06	Kensico Laboratory - BWS-191	3 - Stairs/ Hallway	Asbestos	Floor	Terrazzo Floor		No action is required			Closed	Asbestos-0%
	Comments		**Comment Type**	**Comment Description**								
			Item	Revised functional area description to include area #								
Facility Sampling	BWS-191-07	Kensico Laboratory - BWS-191	Interior	Asbestos	Door Frames	Caulk		Manage In Place		8/18/2017	Manage	Asbestos-1.89%
	Comments		**Comment Type**	**Comment Description**								
			Item	Material located below metal frames T/O facility								

Kensico
Additional

NICHE ANALYSIS, INC.

BULK SAMPLE ANALYSIS REPORT

NICHE FILE: 04-2530-0
HUDSON RIVER PUMPING STATION

NEW YORK CITY - DEP
P.O. BOX 9, RIVER ROAD
CHELSEA, NY 12512
PHONE: (845) 831-6130; FAX (845) 831-3601

PROJECT NAME	Kensico Lab	**COMP#**	BWS-U2004-05E
LOCATION	Upstairs	**PURCHASE ORDER#**	826 20044013093
ADDRESS	West Lake Drive Valhalla, NY 10595	**INVESTIGATOR**	Dieter Schmidt
		DATE RECEIVED	02-11-04
		DATE ANALYZED	02-12,13-04

Sample No.	Type Of Material Condition / Appearance	Sample Location	Asbestos Content And Percent	Non-Asbestos Fiber Content And Percent
0210040201E	Plaster/ White-Brown	Upstairs/ Office/ Left front/ Chimney	ND	<1% CELL
0210040202E	Plaster/ White-Brown	Upstairs/ Office/ Left front/ Chimney	ND	ND
0210040203E	Plaster/ Brown	Upstairs/ Office/ Left front/ Chimney	ND	ND
0210040204E	Plaster/ White-Gray	Upstairs/ Office/ Right rear	ND	2% CELL 3% AH
0210040205E	Plaster/ White-Brown	Upstairs/ Office/ Right rear	ND	2% CELL 2% AH
0210040206E	Sheet floor covering material/ Green-Brown	Upstairs/ Hallway by main door	IND	10% CELL
0210040207E	Sheet floor covering material/ Green-Brown	Upstairs/ Dave Robinson Office/ Right front	IND	30% CELL
0210040208E	Sheet floor covering material/ Green-Brown	Upstairs/ Left office/ By divider wall	IND	30% CELL

Note: The balance of each sample is non-fibrous particulates. Please contact us promptly if you have any question about these results. Analysis was performed by using "Point Count Technique" as required and recommended by the New York State Department of Health and USEPA Interim Method for "Identification of Asbestos Fibers in Bulk Samples". This report must not be used by the client to claim product endorsement by NVLAP or any agency of the US government. This report relates only to the items listed. All samples were collected by client and sample information were provided by client. NICHE's liability not to exceed the invoice amount.
*Polarized light microscopy is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Quantitative transmission electron microscopy is currently the only method that can be used to determine if the material can be considered or treated as non-asbestos-containing. (NYSDOH-ELAP 198.1)

SAMPLE ANALYSIS BY:	POLARIZED LIGHT MICROSCOPY - DISPERSION STAINING (PLM-DS)
METHOD OF SAMPLE PREPARATION & ANALYSIS:	ALL SAMPLES WERE PREPARED AND ANALYZED IN ACCORDANCE WITH THE EPA "METHOD FOR THE DETERMINATION OF ASBESTOS IN BULK BUILDING MATERIALS" USEPA 600/R-93/116, JULY 1993 (EPA 600/M4/82/020)
INSTRUMENT:	OLYMPUS POLARIZED LIGHT MICROSCOPY, MODEL BH-2

ND = NONE DETECTED IND = INCONCLUSIVE NONE DETECTED*
CELL = CELLULOSE FIBG = FIBERGLASS AH= ANIMAL HAIR
ELAP#: **11236**

BING LIANG
Laboratory Director

Approved Signatory

2-17-04

2-24-04

BWS-U2004-42E
KENSCO LAB
CEILING TILE GLUE -
MAIN FLOOR
TEM

EMSL Analytical, Inc.
307 West 38th Street, New York, NY 10018
Phone: (212) 290-0051 Fax: (212) 290-0058 Email: manhattanlab@emsl.com

EMSL

Attn: **Niche Analysis, Inc.**
10 Fiske Place
Suite 517
Mount Vernon, NY 10550

Fax: (914) 663-8782 Phone: (914) 663-8937
Project: 04-3288-2/ KENSTCO LAB, VALHALLA, NY

Customer ID: NICH50
Customer PO:
Received: 09/20/04 8:30 AM
EMSL Order: 030417840

EMSL Proj:
Analysis Date: 9/21/2004
Report Date: 9/27/2004

Asbestos Analysis of Non-Friable Organically Bound materials by Transmission Electron Microscopy via NYS ELAP Method 198.4

SAMPLE ID	DESCRIPTION	APPEARANCE	% MATRIX MATERIAL	% NON-ASBESTOS FIBERS	ASBESTOS TYPES	% TOTAL ASBESTOS
09130402204E 030417840-0001	BOTTLE WASH ROOM/ CEILING TILE GLUE	Brown/Beige Fibrous Heterogeneous	100.0	None	No Asbestos Detected	

Analyst(s)
Ben Ho (1)

José Arriaga
or other approved signatory

THIS IS THE LAST PAGE OF THE REPORT.

NICHE ANALYSIS, INC. BWS-U2004-42E

AND 2nd DAVE

BULK SAMPLE ANALYSIS REPORT

NICHE FILE: 04-3229-0

NEW YORK CITY - DEP
59-17 JUNCTION BOULEVARD, 11TH FLOOR
FLUSHING, NEW YORK 11373-5108
PHONE: (718) 595-4384, FAX: (718) 595-4387

HUDSON RIVER PUMPING STATION

CONTRACT #	ASB9-00	COMP#	BWS-U2004-42E
PROJECT NAME	Kensico Lab	CONTRACT REG #	CTC 82620040026513
LOCATION	Main Floor	DEP INSPECTOR	Dieter Schmidt
PROJECT ADDRESS	Columbus Avenue Valhalla, NY	ANALYST	Bing Liang
		DATE RECEIVED	09-15-04
		DATE ANALYZED	09-16-04

Sample No.	Type Of Material Condition / Appearance	Sample Location	Asbestos Content And Percent	Non-Asbestos Fiber Content And Percent
0913040201E	Pipe insulation/ White	Main floor/ Back door room/ Heat pipes	27.3% Amosite 9.1% Crocidolite	ND
0913040202E	Pipe insulation/ White	Main floor/ Main Lab area/ Heat pipes	33.3% Amosite 11.1% Crocidolite	ND
0913040203E	Pipe insulation/ White	Main floor/ Bottle Wash Room/ Heat pipes	30% Amosite 10% Crocidolite	ND
0913040204E	Ceiling tile glue/ Dark Brown	Main floor/ Bottle Wash Room/ Ceiling	IND	<1% Fiberglass / TEM ND
0913040205E	Ceiling tile glue/ Dark Brown	Main floor/ Back door left/ Ceiling	IND	<1% Fiberglass <1% Cellulose
0913040206E	Ceiling tile glue/ Dark Brown	Main floor/ East back door/ Ceiling	IND	<1% Fiberglass
0913040207E	Ceiling tile/ Brown	Main floor/ Back door left/ Ceiling	ND	90% Fiberglass

Note 1: The balance of each sample is non-fibrous particulates. Please contact us promptly if you have any question about these results. Analysis was performed by using "Point Count Technique" as required and recommended by the New York State Department of Health and USEPA Interim Method for "Identification of Asbestos Fibers in Bulk Samples". This report must not be used by the client to claim product endorsement by NVLAP or any agency of the US government. This report relates only to the items tested. NICHE's liability not to exceed the invoice amount. All sample were collected by client, sample location was provided by the client.
*Polarized light microscopy is not consistently reliable in detecting asbestos in floor coverings and similar non friable organically bound materials. Quantitative transmission electron microscopy is currently the only method that can be used to determine if the material can be considered or treated as non-asbestos-containing.
Note 2: NOB samples were prepared in accordance with ELAP 198.1, by NICHE's sub-lab, EMSL Analytical, Inc. an ELAP approved lab (ELAP # 11683)

SAMPLE ANALYSIS BY:	POLARIZED LIGHT MICROSCOPY - DISPERSION STAINING (PLM-DS)
METHOD OF SAMPLE PREPARATION & ANALYSIS:	ALL SAMPLES WERE PREPARED AND ANALYZED IN ACCORDANCE WITH THE EPA "METHOD FOR THE DETERMINATION OF ASBESTOS IN BULK BUILDING MATERIALS" USEPA 600/R 93/116, JULY 1993. (EPA 600/M4/82/020)
INSTRUMENT:	OLYMPUS POLARIZED LIGHT MICROSCOPY, MODEL BH-2

ND = NONE DETECTED
ELAP#: **11236**

Bing Liang
Laboratory Director

Approved Signatory

JEFF H.
MARK D.

NICHE ANALYSIS, INC.

BULK SAMPLE ANALYSIS REPORT

NICHE FILE: 04-2449-0

NEW YORK CITY - DEP
P.O. BOX 9, RIVER ROAD
CHELSEA, NY 12512
PHONE: (845) 831-6130; FAX (845) 831-3601

HUDSON RIVER PUMPING STATION

PROJECT NAME	Kensico Lab	**COMP#**	BWS-U2004-01E
LOCATION	Garage / Cabinet	**PURCHASE ORDER#**	826 20044013093
ADDRESS	NA	**INVESTIGATOR**	Dieter Schmidt
		DATE RECEIVED	01-09-04
		DATE ANALYZED	01-09-04

Sample No.	Type Of Material Condition / Appearance	Sample Location	Asbestos Content And Percent	Non-Asbestos Fiber Content And Percent
0105040201E	Coordinated Air Cell Sheet Insulation/ Grayish	Cabinet/ Old incubator/ Top cavity	28.57% Chrysotile	55% CELL
0105040202E	Coordinated Air Cell Sheet Insulation/ Grayish	Left door cavity	33.33% Chrysotile	50% CELL

Note: The balance of each sample is non-fibrous particulates. Please contact us promptly if you have any question about these results. Analysis was performed by using "Point Count Technique" as required and recommended by the New York State Department of Health and USEPA Interim Method for "Identification of Asbestos Fibers in Bulk Samples". This report must not be used by the client to claim product endorsement by NVLAP or any agency of the US government. This report relates only to the items listed. Detection limit is 1% for asbestos. NICHE's liability not to exceed the invoice amount. Polarized light microscopy is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Quantitative transmission electron microscopy is currently the only method that can be used to determine if the material can be considered or treated as non-asbestos-containing.

SAMPLE ANALYSIS BY:	POLARIZED LIGHT MICROSCOPY - DISPERSION STAINING (PLM-DS)
METHOD OF SAMPLE PREPARATION & ANALYSIS:	ALL SAMPLES WERE PREPARED AND ANALYZED IN ACCORDANCE WITH THE EPA "METHOD FOR THE DETERMINATION OF ASBESTOS IN BULK BUILDING MATERIALS" USEPA 600/R-93/116, JULY 1993 (EPA 600/M4/82/020)
INSTRUMENT:	OLYMPUS POLARIZED LIGHT MICROSCOPY, MODEL BH-2

ND = NONE DETECTED CELL = CELLULOSE
ELAP#: **11236**

BING LIANG
Laboratory Director

Approved Signatory

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

Client: DEP

Sampling Date : 12/18/2007

Date Received : 12/24/2007

Date Analyzed : 12/24/2007

Project: KENSICO MANOR

ATC Batch # 7-2116

Methods: EPA 600/M4-82-020
EPA 600/R-93/116
ELAP 198.1, 198.6 and 198.4

Location: KENSICO LAB, COLUMBUS AVE., VALHALL, NY - HVAC DUCT INSULATION / CEILING PLASTER

Project # BWS ~~U2007-68E~~ U2006-68E

Bulk Asbestos Analysis Results

Sample #	Location	Type of Material	Method	Non-Asbestos % Fibrous	Non-Asbestos % Non-Fibrous	NOB % Type	Asbestos % Type
12180702O1E	CHEM. ROOM HVAC DUCT INSULATION	GRYA VAPOR BARRIER - BELOW BATTING - HARD	PLM	15% FiberGlass	79% Mineral Filler		6% Chrysotile
7-2116-1		Color: BRN/YL					
Analyzed By: Yelena Peysakhova							Total Asbestos: 6 %
12180702O2E	CHEM. ROOM HVAC DUCT INSULATION	GRYA VAPOR BARRIER - BELOW BATTING - HARD	PLM	17% FiberGlass	77% Mineral Filler		6% Chrysotile
7-2116-2		Color: BRN/YL					
Analyzed By: Yelena Peysakhova							Total Asbestos: 6 %
12180702O3E	CHEM. ROOM HVAC DUCT INSULATION	GRYA VAPOR BARRIER - BELOW BATTING - HARD	PLM	15% FiberGlass	79% Mineral Filler		6% Chrysotile
7-2116-3		Color: BRN/YL					
Analyzed By: Yelena Peysakhova							Total Asbestos: 6 %
12180702O4E	AUTO CLAVE ROOM CEILING PLASTER	GRAY - HARD CONCRETE	PLM		100% Mineral Filler		
7-2116-4		Color: BROWN					NONE DETECTED
Analyzed By: Yelena Peysakhova							
12180702O5E	AUTO CLAVE ROOM CEILING PLASTER	GRAY - HARD CONCRETE	PLM		100% Mineral Filler		
7-2116-5		Color: BROWN					NONE DETECTED
Analyzed By: Yelena Peysakhova							
12180702O6E	AUTO CLAVE ROOM CEILING PLASTER	GRAY - HARD CONCRETE	PLM		100% Mineral Filler		
7-2116-6		Color: BROWN					NONE DETECTED
Analyzed By: Yelena Peysakhova							

Report Prepared By: Inna Kipen

RON B

NICHE ANALYSIS, INC.

BULK SAMPLE ANALYSIS REPORT

NICHE FILE: 06-5512-0
ASBESTOS TASK FORCE

NEW YORK CITY - DEP
59-17 JUNCTION BOULEVARD, 11TH FLOOR
FLUSHING, NEW YORK 11373-5108
PHONE: (718) 595-4384; FAX: (718) 595-4387

CONTRACT #	ASB9-00	COMP #	BWSU-2006-54E
PROJECT NAME	Kensico Lab	CONTRACT REG. #	CTC 826 20050031206
LOCATION	West Roof - Front Entrance/ Canopies	DEP INSPECTOR	Dieter Schmidt
ADDRESS	19 West Lake Valhalla, NY	DATE SAMPLED	08-25-06
		DATE RECEIVED	08-27-06
		DATE ANALYZED	08-29-06

Sample No.	Type Of Material	Appearance	Sample Location	Asbestos Content And Percent	Non-Asbestos Fiber Content And Percent
08210602 01E	Drain Tar	Black	West Roof	16.7% Chrysotile	ND
08210602 02E	Vent Pipe	Black	West Roof	13.8% Chrysotile	ND
08210602 03E	Membrane Sealant	Black	West Roof	IND	ND
08210602 04E	Felt-Cloth Layer	Black	West Roof	IND	ND
08210602 05E	Drain Tar	Black	West Roof	15.0% Chrysotile	ND
08210602 06E	Vent Pipe Tar	Black	West Roof	11.7% Chrysotile	ND
08210602 10E	Membrane Tar	Black	Front Door/ Canopy	IND	ND
08210602 11E	Membrane Tar	Black	Front Door/ Canopy	IND	ND
08210602 12E	Membrane Tar	Black	Front Door/ Canopy	IND	ND
08210602 13E	Membrane Tar	Black	Front Door/ Canopy	10.6% Chrysotile	ND

TOR ND

Lab ID: 08004472 to 08004481

Note 1: The balance of each sample is non-fibrous particulates. Please contact us promptly if you have any question about these results. Analysis was performed by using "Point Count Technique" as required and recommended by the New York State Department of Health and USEPA Interim Method for "Identification of Asbestos Fibers in Bulk Samples". This report must not be used by the client to claim product endorsement by NVLAP or any agency of the US government. This report relates only to the items listed. NICHE's liability not to exceed the invoice amount. All sample were collected by client, sample location was provided by the client.

"Polarized light microscopy is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Quantitative transmission electron microscopy is currently the only method that can be used to determine if the material can be considered or treated as non-asbestos-containing.

Note 2: NOB samples were prepared in accordance with ELAP 198.6, by NICHE's sub-lab, Earth Research Labs, Inc. an ELAP approved lab (ELAP # 11810).

SAMPLE ANALYSIS BY:	POLARIZED LIGHT MICROSCOPY - DISPERSION STAINING (PLM-DS)
METHOD OF SAMPLE PREPARATION & ANALYSIS:	ALL SAMPLES WERE PREPARED AND ANALYZED IN ACCORDANCE WITH THE EPA "METHOD FOR THE DETERMINATION OF ASBESTOS IN BULK BUILDING MATERIALS" (USEPA 600/R-93/116, JULY 1993) (EPA 600/M4/82/020)
INSTRUMENT:	OLYMPUS POLARIZED LIGHT MICROSCOPY, MODEL BH-2

ND = NONE DETECTED IND = INCONCLUSIVE NONE DETECTED*
ELAP#: 11236

BING LIANG
Laboratory Director

Approved Signatory

NICHE ANALYSIS, INC.

DAVE R
JEFF H.

BULK SAMPLE ANALYSIS REPORT

NICHE FILE: 06-4791-0

NEW YORK CITY - DEP
59-17 JUNCTION BOULEVARD, 11TH FLOOR
FLUSHING, NEW YORK 11373-5108
PHONE: (718) 595-4384; FAX: (718) 595-4387

HUDSON RIVER PUMPING STATION
P.O. BOX 9
CHELSEA, NY 12512
PHONE: (845) 831-6130; FAX: (845) 831-3601

PROJECT NAME	Kensico Lab	COMP#	BWSU2006-08E
DEP INSPECTOR	Dieter Schmidt	CONTRACT #	ASB9-00
LOCATION	Chemical Lab	CONTRACT REG.#	CTC 82820050031206
PROJECT ADDRESS	Columus Avenue Valhalla, NY	DATE COLLECTED	02-22-06
		DATE RECEIVED	02-26-06
		DATE ANALYZED	02-27-06

Sample No.	Type Of Material Condition / Appearance	Sample Location	Asbestos Content And Percent	Non-Asbestos Fiber Content And Percent
0222060201E	Ceiling debris/ Brown	Chemical Lab	ND	ND
0222060202E	Ceiling debris/ Brown	Chemical Lab	ND	<1% Cellulose

Note 1: The balance of each sample is non-fibrous particulates. Please contact us promptly if you have any question about these results. Analysis was performed by using "Point Count Technique" as required and recommended by the New York State Department of Health and USEPA Interim Method for "Identification of Asbestos Fibers in Bulk Samples". This report must not be used by the client to claim product endorsement by NVLAP or any agency of the US government. This report relates only to the items tested. NICHE's liability not to exceed the invoice amount. All sample were collected by client, sample location was provided by the client.
*Polarized light microscopy is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Quantitative transmission electron microscopy is currently the only method that can be used to determine if the material can be considered or treated as non-asbestos-containing.
Note 2: NOB samples were prepared in accordance with ELAP 198.4, by NICHE's subslab, Earth Research Laboratories, LLC. an ELAP approved lab (ELAP # 11010).

SAMPLE ANALYSIS BY:	POLARIZED LIGHT MICROSCOPY - DISPERSION STAINING (PLM-DS)
METHOD OF SAMPLE PREPARATION & ANALYSIS:	ALL SAMPLES WERE PREPARED AND ANALYZED IN ACCORDANCE WITH THE EPA "METHOD FOR THE DETERMINATION OF ASBESTOS IN BULK BUILDING MATERIALS" USEPA 600/R-93/116, JULY 1993 (EPA 600/M4/82/020)
INSTRUMENT:	OLYMPUS POLARIZED LIGHT MICROSCOPY, MODEL BH-2

ND = NONE DETECTED IND = INCONCLUSIVE NONE DETECTED*
CELL = CELLULOSE FIBG = FIBERGLASS
ELAP#: **11236**

Bing Liang
Laboratory Director

Approved Signatory

Kensico

ATC ASSOCIATES INC

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

Client: DEP

Sampling Date : 2/13/2008

Date Received : 2/19/2008

Date Analyzed : 2/21/2008

Project: HUDSON RIVER PUMPING STATION

ATC Batch # 8-282

Methods: EPA 600/M4-82-020
EPA 600/R-93/116
ELAP 198.1, 198.6 and 198.4

Location: KENSICO LABORATORY / 19 W. LAKE DR., VALHALLA, NY

Project # BWS-U2008-13E

Bulk Asbestos Analysis Results

Sample #	Location	Type of Material	Method	Non-Asbestos % Fibrous	Non-Asbestos % Non-Fibrous	NOB % Type	Asbestos % Type
02130802-01E	ATTIC - INSIDE HVAC UNIT	INSULATION LINER (FIBERGLASS)	PLM	100% FiberGlass			NONE DETECTED
8-282-1		Color: BROWN					
Analyzed By: Yelena Peysakhova							
02130802-02E	ATTIC - INSIDE HVAC UNIT	INSULATION LINER (FIBERGLASS)	PLM	100% FiberGlass			NONE DETECTED
8-282-2		Color: BROWN					
Analyzed By: Yelena Peysakhova							
02130802-03E	ATTIC - INSIDE HVAC UNIT	INSULATION LINER (FIBERGLASS)	PLM	100% FiberGlass			NONE DETECTED
8-282-3		Color: BROWN					
Analyzed By: Yelena Peysakhova							
02130802-04E	ATTIC - INSIDE HVAC UNIT	BLACK ADHESIVE	PLM, NOB-PLM/TEM			84.7% Organic 3.2% Residue 12.1% Carbonate	Trace% Chrysotile
8-282-4		Color: BLACK					
Analyzed By: Yelena Peysakhova		Second Analyst: Mark Peysakhov					Total Asbestos: TRACE
02130802-05E	ATTIC - INSIDE HVAC UNIT	BLACK ADHESIVE	PLM, NOB-PLM/TEM			88.9% Organic 3% Residue 8.1% Carbonate	NONE DETECTED
8-282-5		Color: BLACK					
Analyzed By: Yelena Peysakhova		Second Analyst: Mark Peysakhov					
02130802-06E	ATTIC - INSIDE HVAC UNIT	BLACK ADHESIVE	PLM, NOB-PLM/TEM			89.6% Organic 2.1% Residue 8.3% Carbonate	Trace% Anthophyllite
8-282-6		Color: BLACK					
Analyzed By: Yelena Peysakhova		Second Analyst: Mark Peysakhov					Total Asbestos: TRACE
02130802-07E	ATTIC - INSIDE HVAC UNIT	GASKET AT TOP SEAM	PLM, NOB-PLM/TEM			92.7% Organic 3.1% Residue 2.8% Carbonate	1.4% Chrysotile Trace% Anthophyllite
8-282-7		Color: BLACK					
Analyzed By: Yelena Peysakhova		Second Analyst: Mark Peysakhov					Total Asbestos: 1.4 %

Report Prepared By: Inna Kipen

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

Sample #	Location	Type of Material	Method	Non-Asbestos % Fibrous	Non-Asbestos % Non-Fibrous	NOB % Type	Asbestos % Type
02130802-08E	ATTIC - INSIDE HVAC UNIT	GASKET AT TOP SEAM	PLM, NOB-PLM/TEM			89.4% Organic 3.6% Residue 6.8% Carbonate	0.2% Chrysotile Trace% Anthophyllite
8-282 -8		Color: BLACK					
Analyzed By: Yelena Peysakhova		Second Analyst: Mark Peysakhov					Total Asbestos: 0.2 %
02130802-09E	ATTIC - INSIDE HVAC UNIT	GASKET AT TOP SEAM	PLM, NOB-PLM/TEM			75.3% Organic 1.5% Residue 23% Carbonate	0.2% Chrysotile Trace% Anthophyllite
8-282 -9		Color: BLACK					
Analyzed By: Yelena Peysakhova		Second Analyst: Mark Peysakhov					Total Asbestos: 0.2 %
02130802-10E	ATTIC - HVAC DUCT	RESIDUAL TAR COVERING	PLM, NOB-PLM			65.6% Organic 8.3% Residue 13.6% Carbonate	12.5% Chrysotile
8-282 -10		Color: BLACK					
Analyzed By: Yelena Peysakhova		Second Analyst: Milana Granovsky					Total Asbestos: 12.5 %
02130802-11E	ATTIC - HVAC DUCT	RESIDUAL TAR COVERING	PLM, NOB-PLM			60.3% Organic 11.8% Residue 10.2% Carbonate	17.7% Chrysotile
8-282 -11		Color: BLACK					
Analyzed By: Yelena Peysakhova		Second Analyst: Milana Granovsky					Total Asbestos: 17.7 %
02130802-12E	ATTIC - HVAC DUCT	RESIDUAL TAR COVERING	PLM, NOB-PLM			60.5% Organic 9.9% Residue 14.8% Carbonate	14.8% Chrysotile
8-282 -12		Color: BLACK					
Analyzed By: Yelena Peysakhova		Second Analyst: Milana Granovsky					Total Asbestos: 14.8 %
02130802-13E	AUTOCLAVE RM.	CERAMIC PANELS	PLM		100% Mineral Filler		
8-282 -13		Color: TAN					NONE DETECTED
Analyzed By: Yelena Peysakhova							
02130802-14E	AUTOCLAVE RM.	CERAMIC PANELS	PLM		100% Mineral Filler		
8-282 -14		Color: TAN					NONE DETECTED
Analyzed By: Yelena Peysakhova							
02130802-15E	AUTOCLAVE RM.	CERAMIC PANELS	PLM		100% Mineral Filler		
8-282 -15		Color: TAN					NONE DETECTED
Analyzed By: Yelena Peysakhova							
02130802-16E	MAIN FLOOR - ENTRY FOYER	TERRAZZO FLOOR	PLM		100% Mineral Filler		
8-282 -16		Color: WT/BLK					NONE DETECTED
Analyzed By: Yelena Peysakhova							
02130802-17E	MAIN FLOOR - ENTRY FOYER	TERRAZZO FLOOR	PLM		100% Mineral Filler		
8-282 -17		Color: WT/BLK					NONE DETECTED
Analyzed By: Yelena Peysakhova							

Report Prepared By: Inna Kipen

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

Sample #	Location	Type of Material	Method	Non-Asbestos % Fibrous	Non-Asbestos % Non-Fibrous	NOB % Type	Asbestos % Type
02130802-18E	MAIN FLOOR - ENTRY FOYER	TERRAZZO FLOOR	PLM		100% Mineral Filler		
8-282-18							NONE DETECTED
			Color: WT/BLK				

Analyzed By: Yelena Peysakhova

NOTES:

1) LOD is the same as the Reporting Limit (Limit of Quantitation) for these results.

2) Reporting Limit - For point counts the limit of quantitation of 0.25% is based on one asbestos point counter over 400 non-empty points.

3) Asbestos Containing Material (ACM) Definition: > 1% asbestos by weight is considered an ACM

4) Disclaimer: The laboratory is not responsible for sample collection. Please refer to enclosed letter. This report may not be reproduced, except in full, without written approval by ATC Associates Inc. This report may not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government. This report relates only to the samples reported above. Quality control data is available upon request.

5) Accredited by NVLAP #101187-0 and by NY State ELAP #10679

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8) When the results display more than three digits, only the first three are significant. The data within this report is reliable to 3 significant figures.

9) The condition of all samples was acceptable upon receipt.

10) The laboratory certifies that the test results meet all requirements of NELAC.

11) Supplement to test report batch # _____. Amendments: ____. Amendment Dates:

12) PLM Letter is attached to this report.

13) TRACE = LESS THAN LIMIT OF QUANTITATION (<0.25%)

Yelena Peysakhova
Analyzed by:

Milena Bonezzi
Approved by Laboratory Director: M. Bonezzi

Milana Granovsky
Second Analyst:

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

Client: DEP

Sampling Date : 10/6/2008

Date Received : 10/6/2008

Date Analyzed : 10/6/2008

Project: KENSICO LAB
2 WEST LAKE DR. NY

ATC Batch # 8-1905

Methods: EPA 600/M4-82-020
EPA 600/R-93/116
ELAP 198.1, 198.6 and 198.4

Location: 2 WEST LAKE DR. NY

Project # 015.22906.5003

Bulk Asbestos Analysis Results

Sample #	Location	Type of Material	Method	Non-Asbestos % Fibrous	Non-Asbestos % Non-Fibrous	NOB % Type	Asbestos % Type
1E	Boiler Room - Main Distribution Panel	Bridge Feeder Insulation	PLM, NOB-PLM/TEM			48.7% Organic 31.4% Residue 19.9% Carbonate	NONE DETECTED
8-1905 -1		Color: Black					
Analyzed By: Yelena Peysakhova		Second Analyst: Mark Peysakhov		Comments: Homogenous to main feeders.			
2E	Boiler Room - Main Distribution Panel	Bridge Feeder Insulation	PLM, NOB-PLM/TEM			45% Organic 33.9% Residue 21.1% Carbonate	NONE DETECTED
8-1905 -2		Color: Black					
Analyzed By: Yelena Peysakhova		Second Analyst: Mark Peysakhov		Comments: Homogenous to main feeders.			
3E	Boiler Room - Main Distribution Panel	Bridge Feeder Insulation	PLM, NOB-PLM/TEM			54.3% Organic 7% Residue 38.7% Carbonate	NONE DETECTED
8-1905 -3		Color: Black					
Analyzed By: Yelena Peysakhova		Second Analyst: Mark Peysakhov		Comments: Homogenous to main feeders.			
4E	Boiler Room - Main Distribution Panel	Wire Insulation	PLM, NOB-PLM/TEM			60.6% Organic 32.4% Residue 7% Carbonate	NONE DETECTED
8-1905 -4		Color: Brown					
Analyzed By: Yelena Peysakhova		Second Analyst: Mark Peysakhov		Comments: Leads to conduit rn. - stairwells, exits 1st & 2nd.			
5E	Boiler Room - Main Distribution Panel	Wire Insulation	PLM, NOB-PLM/TEM			45.3% Organic 42.1% Residue 12.6% Carbonate	NONE DETECTED
8-1905 -5		Color: Black					
Analyzed By: Yelena Peysakhova		Second Analyst: Mark Peysakhov					
6E	Boiler Room - Main Distribution Panel	Wire Insulation	PLM, NOB-PLM/TEM			68.7% Organic 2.7% Residue 28.6% Carbonate	NONE DETECTED
8-1905 -6		Color: Black					
Analyzed By: Yelena Peysakhova		Second Analyst: Mark Peysakhov		Comments: All other rubber coated			
7E	1st floor - Panel in Hallway	Wire Insulation	PLM, NOB-PLM/TEM			60.3% Organic 4.8% Residue 34.9% Carbonate	NONE DETECTED
8-1905 -7		Color: Black					
Analyzed By: Yelena Peysakhova		Second Analyst: Mark Peysakhov		Comments: Labe storage room light.			

Report Prepared By: Chad Wyckoff

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Sample #	Location	Type of Material	Method	Non-Asbestos % Fibrous	Non-Asbestos % Non-Fibrous	NOB % Type	Asbestos % Type
8E	1st floor - Panel in Hallway	Wire Insulation	PLM, NOB-PLM/TEM			53% Organic 5.4% Residue 41.6% Carbonate	NONE DETECTED
8-1905 -8							
Analyzed By: Yelena Peysakhova		Color: Black Second Analyst: Mark Peysakhov		Comments: Crawlspace			
9E	1st floor - Panel in Hallway	Wire Insulation	PLM, NOB-PLM/TEM			54.8% Organic 13.4% Residue 31.8% Carbonate	NONE DETECTED
8-1905 -9							
Analyzed By: Yelena Peysakhova		Color: Black Second Analyst: Mark Peysakhov		Comments: Boiler room light.			
10E	1st floor - Panel in Hallway	Wire Insulation	PLM, NOB-PLM/TEM			52.9% Organic 13.4% Residue 33.7% Carbonate	NONE DETECTED
8-1905 -10							
Analyzed By: Yelena Peysakhova		Color: Black Second Analyst: Mark Peysakhov		Comments: Neutral			
11E	1st floor - Panel in Hallway	Main Panel Feed Insulation	PLM, NOB-PLM/TEM			58.5% Organic 5% Residue 36.5% Carbonate	NONE DETECTED
8-1905 -11							
Analyzed By: Yelena Peysakhova		Color: Black Second Analyst: Mark Peysakhov		Comments: Blue			
12E	1st floor - Panel in Hallway	Main Panel Feed Insulation	PLM, NOB-PLM/TEM			59.5% Organic 5.6% Residue 34.9% Carbonate	NONE DETECTED
8-1905 -12							
Analyzed By: Yelena Peysakhova		Color: Black Second Analyst: Mark Peysakhov		Comments: Red			
13E	1st floor - Panel in Hallway	Main Panel Feed Insulation	PLM, NOB-PLM/TEM			60.8% Organic 2.6% Residue 36.6% Carbonate	NONE DETECTED
8-1905 -13							
Analyzed By: Yelena Peysakhova		Color: Black Second Analyst: Mark Peysakhov		Comments: Neutral			
14E	Attic - Air Conditioner Panel	Main Panel Feed Insulation	PLM, NOB-PLM/TEM			46.2% Organic 34.7% Residue 19.1% Carbonate	NONE DETECTED
8-1905 -14							
Analyzed By: Yelena Peysakhova		Color: Black Second Analyst: Mark Peysakhov		Comments: Black			
15E	Attic - Air Conditioner Panel	Main Panel Feed Insulation	PLM, NOB-PLM/TEM			47.6% Organic 37% Residue 15.4% Carbonate	NONE DETECTED
8-1905 -15							
Analyzed By: Yelena Peysakhova		Color: Black Second Analyst: Mark Peysakhov		Comments: Black			
16E	Attic - Air Conditioner Panel	Main Panel Feed Insulation	PLM, NOB-PLM/TEM			48.6% Organic 32.6% Residue 18.8% Carbonate	NONE DETECTED
8-1905 -16							
Analyzed By: Yelena Peysakhova		Color: Black Second Analyst: Mark Peysakhov		Comments: Black			
17E	Attic - Air Conditioner Panel	Wire Insulation	PLM, NOB-PLM/TEM			96.4% Organic 2.7% Residue 0.9% Carbonate	NONE DETECTED
8-1905 -17							
Analyzed By: Yelena Peysakhova		Color: Black Second Analyst: Mark Peysakhov		Comments: Red			

Report Prepared By: Chad Wyckoff

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Sample #	Location	Type of Material	Method	Non-Asbestos % Fibrous	Non-Asbestos % Non-Fibrous	NOB % Type	Asbestos % Type
18E	Attic - Air Conditioner Panel	Wire Insulation	PLM, NOB-PLM/TEM			26.8% Organic 11% Residue 62.2% Carbonate	NONE DETECTED
8-1905 -18							
Analyzed By: Yelena Peysakhova		Color: Black Second Analyst: Mark Peysakhov		Comments: Black			
19E	4th flr - Air Conditioner Panel	Wire Insulation	PLM, NOB-PLM/TEM			60% Organic 20.8% Residue 19.2% Carbonate	NONE DETECTED
8-1905 -19							
Analyzed By: Yelena Peysakhova		Color: Black Second Analyst: Mark Peysakhov		Comments: Neutral			
20E	Light Switch in Main Lab	Wire Insulation	PLM, NOB-PLM/TEM			56.4% Organic 10.9% Residue 32.7% Carbonate	NONE DETECTED
8-1905 -20							
Analyzed By: Yelena Peysakhova		Color: Black Second Analyst: Mark Peysakhov		Comments: Leads to florescent light.			

NOTES:

1) LOD is the same as the Reporting Limit (Limit of Quantitation) for these results.

2) Reporting Limit - For point counts the limit of quantitation of 0.25% is based on one asbestos point counter over 400 non-empty points.

3) Asbestos Containing Material (ACM) Deifinition: > 1% asbestos by weight is considered an ACM

4) Disclaimer: The laboratory is not responsible for sample collection. Please refer to enclosed letter. This report may not be reproduced, except in full, without written approval by ATC Associates Inc. This report may not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government. This report relates only to the samples reported above. Quality control data is available upon request.

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Yelena Peysakhova
Analyzed by:

Milena Bonezzi
Approved by Laboratory Director: M. Bonezzi

Mark Peysakhov
Second Analyst:

Report Prepared By: Chad Wyckoff

ENVIRONMENTAL SOLUTIONS

NICHE ANALYSIS, INC.

BULK SAMPLE ANALYSIS REPORT

NICHE FILE: 06-5834-0

NEW YORK CITY - DEP
59-17 JUNCTION BOULVARD, 11TH FLOOR
FLUSHING, NEW YORK 11373-5108
PHONE: (718) 595-4384; FAX: (718) 595-4387

ASBESTOS TASK FORCE

COMP. #	BWSU2006-68E	**WORK ORDER LTR. #**	ABS9-00-
PROJECT NAME	Kensico Lab	**CONTRACT REG. #**	826 20050031206
LOCATION	Attic, 2nd Floor, 1st Floor, & Basement	**INSPECTOR**	Bing Liang
PROJECT ADDRESS	19 Westlake Drive Valhalla, NY	**DATE SAMPLED**	11-01-06
		DATE RECEIVED	11-01-06
		DATE ANALYZED	11-05-06

Sample No.	Type Of Material	Appearance	Sample Location	Asbestos Content And Percent	Non-Asbestos Fiber Content And Percent
7	Duct Vibration	Dark Brown	Attic/ Main Air Handler	ND	98% Cellulose
8	Duct Vibration	Black	Attic/ Fan #1	ND	ND
9	Duct Vibration	Dark Brown	Attic/ Fan #2	ND	95% Cellulose
10	Duct Vibration	Dark Brown	Attic/ Fan #2	ND	95% Cellulose
11	Duct Vibration	Dark Brown	Attic/ Fan #3	ND	97% Cellulose
12	2x4 Ceiling Tile	Brown	2nd Floor/ Lunch Room/ Southeast Corner	ND	90% Cellulose
13	2x4 Ceiling Tile	Brown	2nd Floor/ Lunch Room/ Southwest Corner	ND	95% Cellulose
14	2x4 Ceiling Tile	Brown	2nd Floor/ Lunch Room/ Southwest Corner	ND	40% Cellulose

Note 1: The balance of each sample is non-fibrous particulates. Please contact us promptly if you have any question about these results. Analysis was performed by using "Point Count Technique" as required and recommended by the New York State Department of Health and USEPA Interim Method for "Identification of Asbestos Fibers in Bulk Samples". This report must not be used by the client to claim product endorsement by NVLAP or any agency of the US government. This report relates only to the items listed. NICHE's liability not to exceed the invoice amount. All sample were collec tedby client, sample location was provided by the client.

*Polarized light microscopy is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organially bound materials. Quantitative transmission electron microscopy is currently the only method that can be used to determine if the material can be considered or treated as non-asbestos-containing.

Note 2: NOB samples were prepared in accordance with ELAP 198.6, by NICHE's sub-lab, Earth Research Labs, Inc. an ELAP approved lab (ELAP # 11818).

SAMPLE ANALYSIS BY:	POLARIZED LIGHT MICROSCOPY - DISPERSION STAINING (PLM-DS)
METHOD OF SAMPLE PREPARATION & ANALYSIS:	ALL SAMPLES WERE PREPARED AND ANALYZED IN ACCORDANCE WITH THE EPA "METHOD FOR THE DETERMINATION OF ASBESTOS IN BULK BUILDING MATERIALS" USEPA 600/R-93/116, JULY 1993 (EPA 600/M4/82/020)
INSTRUMENT:	OLYMPUS POLARIZED LIGHT MICROSCOPY, MODEL BH-2

ND = NONE DETECTED IND = INCONCLUSIVE NONE DETECTED*
CELL = CELLULSOE; FIBG = FIBERGLASS
ELAP#: **11236**

BING LIANG
Laboratory Director

Approved Signatory

BULK SAMPLE ANALYSIS REPORT

NICHE FILE: 06-5834-0

NEW YORK CITY - DEP
59-17 JUNCTION BOULVARD, 11TH FLOOR
FLUSHING, NEW YORK 11373-5108
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ASBESTOS TASK FORCE

COMP. #	BWSU2006-68E	**WORK ORDER LTR. #**	ABS9-00-
PROJECT NAME	Kensico Lab	**CONTRACT REG. #**	826 20050031206
LOCATION	Attic, 2nd Floor, 1st Floor, & Basement	**INSPECTOR**	Bing Liang
PROJECT ADDRESS	19 Westlake Drive Valhalla, NY	**DATE SAMPLED**	11-01-06
		DATE RECEIVED	11-01-06
		DATE ANALYZED	11-05-06

Sample No.	Type Of Material	Appearance	Sample Location	Asbestos Content And Percent	Non-Asbestos Fiber Content And Percent
15A	Ceiling Plaster (White Coat)	White	2nd Floor/ Lunch Room/ East Side/ Southeast Corner	ND	ND
15B	Ceiling Plaster (Brown Coat)	Gray	2nd Floor/ Lunch Room/ East Side/ Southeast Corner	ND	3% Cellulose
16A	Ceiling Plaster (White Coat)	White	2nd Floor/ Lunch Room/ West Side/ Southwest Corner	ND	ND
16B	Ceiling Plaster (Brown Coat)	Gray	2nd Floor/ Lunch Room/ West Side/ Southwest Corner	ND	2% Cellulose
17A	Ceiling Plaster (White Coat)	White	2nd Floor/ Lunch Room/ West Side/ Southwest Corner	ND	ND
17B	Ceiling Plaster (Brown Coat)	Gray	2nd Floor/ Lunch Room/ West Side/ Southwest Corner	ND	2% Cellulose

Note 1: The balance of each sample is non-fibrous particulates. Please contact us promptly if you have any question about these results. Analysis was performed by using "Point Count Technique" as required and recommended by the New York State Department of Health and USEPA Interim Method for "Identification of Asbestos Fibers in Bulk Samples". This report must not be used by the client to claim product endorsement by NVLAP or any agency of the US government. This report relates only to the items listed. NICHE's liability not to exceed the invoice amount. All sample were collec tedby client, sample location was provided by the client.

*Polarized light microscopy is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organially bound materials. Quantitative transmission electron microscopy is currently the only method that can be used to determine if the material can be considered or treated as non-asbestos-containing.

Note 2: NOB samples were prepared in accordance with ELAP 198.6, by NICHE's sub-lab, Earth Research Labs, Inc. an ELAP approved lab (ELAP # 11818).

SAMPLE ANALYSIS BY:	POLARIZED LIGHT MICROSCOPY - DISPERSION STAINING (PLM-DS)
METHOD OF SAMPLE PREPARATION & ANALYSIS:	ALL SAMPLES WERE PREPARED AND ANALYZED IN ACCORDANCE WITH THE EPA "METHOD FOR THE DETERMINATION OF ASBESTOS IN BULK BUILDING MATERIALS" USEPA 600/R-93/116, JULY 1993 (EPA 600/M4/82/020)
INSTRUMENT:	OLYMPUS POLARIZED LIGHT MICROSCOPY, MODEL BH-2

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CELL = CELLULSOE; FIBG = FIBERGLASS
ELAP#: **11236**

BING LIANG
Laboratory Director

Approved Signatory

ENVIRONMENTAL SOLUTIONS

NICHE ANALYSIS, INC.

BULK SAMPLE ANALYSIS REPORT

NICHE FILE: 06-5834-0
ASBESTOS TASK FORCE

NEW YORK CITY - DEP
59-17 JUNCTION BOULVARD, 11TH FLOOR
FLUSHING, NEW YORK 11373-5108
PHONE: (718) 595-4384; FAX: (718) 595-4387

COMP. #	BWSU2006-68E	**WORK ORDER LTR. #**	ABS9-00-
PROJECT NAME	Kensico Lab	**CONTRACT REG. #**	826 20050031206
LOCATION	Attic, 2nd Floor, 1st Floor, & Basement	**INSPECTOR**	Bing Liang
PROJECT ADDRESS	19 Westlake Drive Valhalla, NY	**DATE SAMPLED**	11-01-06
		DATE RECEIVED	11-01-06
		DATE ANALYZED	11-05-06

Sample No.	Type Of Material	Appearance	Sample Location	Asbestos Content And Percent	Non-Asbestos Fiber Content And Percent
18	2x4 Ceiling Tile	Brown	2nd Floor/ Library-Conference Room/ Northeast Corner	ND	70% Cellulose 20% Fiberglass
19	2x4 Ceiling Tile	White-Gray	2nd Floor/ Library-Conference Room/ Southwest Corner	ND	75% Cellulose 15% Fiberglass
20	2x4 Ceiling Tile	White-Gray	2nd Floor/ Library-Conference Room/ Southwest Corner	ND	70% Cellulose 20% Fiberglass
21A	Ceiling Plaster (White Coat)	White	2nd Floor/ Library-Conference Room/ Southwest Corner	ND	ND
21B	Ceiling Plaster (Brown Coat)	Gray	2nd Floor/ Library-Conference Room/ Southwest Corner	ND	1% Cellulose
22A	Ceiling Plaster (White Coat)	White	2nd Floor/ Library-Conference Room/ Southwest Corner	ND	ND
22B	Ceiling Plaster (Brown Coat)	Gray	2nd Floor/ Library-Conference Room/ Southwest Corner	ND	22% Cellulose

Note 1: The balance of each sample is non-fibrous particulates. Please contact us promptly if you have any question about these results. Analysis was performed by using "Point Count Technique" as required and recommended by the New York State Department of Health and USEPA Interim Method for "Identification of Asbestos Fibers in Bulk Samples". This report must not be used by the client to claim product endorsement by NVLAP or any agency of the US government. This report relates only to the items listed. NICHE's liability not to exceed the invoice amount. All sample were collec tedby client, sample location was provided by the client.
*Polarized light microscopy is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organially bound materials. Quantitative transmission electron microscopy is currently the only method that can be used to determine if the material can be considered or treated as non-asbestos-containing.
Note 2: NOB samples were prepared in accordance with ELAP 198.6, by NICHE's sub-lab, Earth Research Labs, Inc. an ELAP approved lab (ELAP # 11818).

SAMPLE ANALYSIS BY:	POLARIZED LIGHT MICROSCOPY - DISPERSION STAINING (PLM-DS)
METHOD OF SAMPLE PREPARATION & ANALYSIS:	ALL SAMPLES WERE PREPARED AND ANALYZED IN ACCORDANCE WITH THE EPA "METHOD FOR THE DETERMINATION OF ASBESTOS IN BULK BUILDING MATERIALS" USEPA 600/R-93/116, JULY 1993 (EPA 600/M4/82/020)
INSTRUMENT:	OLYMPUS POLARIZED LIGHT MICROSCOPY, MODEL BH-2

ND = NONE DETECTED IND = INCONCLUSIVE NONE DETECTED*
CELL = CELLULSOE; FIBG = FIBERGLASS
ELAP#: **11236**

BING LIANG
Laboratory Director

Approved Signatory

BULK SAMPLE ANALYSIS REPORT

NICHE FILE: 06-5834-0

NEW YORK CITY - DEP
59-17 JUNCTION BOULVARD, 11TH FLOOR
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ASBESTOS TASK FORCE

COMP. #	BWSU2006-68E	**WORK ORDER LTR. #**	ABS9-00-
PROJECT NAME	Kensico Lab	**CONTRACT REG. #**	826 20050031206
LOCATION	Attic, 2nd Floor, 1st Floor, & Basement	**INSPECTOR**	Bing Liang
PROJECT ADDRESS	19 Westlake Drive Valhalla, NY	**DATE SAMPLED**	11-01-06
		DATE RECEIVED	11-01-06
		DATE ANALYZED	11-05-06

Sample No.	Type Of Material	Appearance	Sample Location	Asbestos Content And Percent	Non-Asbestos Fiber Content And Percent
23A	Ceiling Plaster (White Coat)	White	2nd Floor/ Library-Conference Room/ Northeast Corner	ND	ND
23B	Ceiling Plaster (Brown Coat)	Gray	2nd Floor/ Library-Conference Room/ Northeast Corner	ND	2% Cellulose
24	Beam Coat (Plaster)	White	1st Floor/ Auto Clave Room/ Northeast Corner	ND	ND
25	9x9 Ceiling Tile	Yellow	1st Floor/ Auto Clave Room/ Northeast Corner	ND	95% Fiberglass
26	9x9 Ceiling Tile	Yellow	1st Floor/ Auto Clave Room/ Northeast Corner	ND	95% Fiberglass
27	9x9 Ceiling Tile	Yellow	1st Floor/ Auto Clave Room/ Northeast Corner/ Duct Wall	ND	90% Fiberglass

Note 1: The balance of each sample is non-fibrous particulates. Please contact us promptly if you have any question about these results. Analysis was performed by using "Point Count Technique" as required and recommended by the New York State Department of Health and USEPA Interim Method for "Identification of Asbestos Fibers in Bulk Samples". This report must not be used by the client to claim product endorsement by NVLAP or any agency of the US government. This report relates only to the items listed. NICHE's liabilitly not to exceed the invoice amount. All sample were collec tedby client, sample location was provided by the client.

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Note 2: NOB samples were prepared in accordance with ELAP 198.6, by NICHE's sub-lab, Earth Research Labs, Inc. an ELAP approved lab (ELAP # 11818).

SAMPLE ANALYSIS BY:	POLARIZED LIGHT MICROSCOPY - DISPERSION STAINING (PLM-DS)
METHOD OF SAMPLE PREPARATION & ANALYSIS:	ALL SAMPLES WERE PREPARED AND ANALYZED IN ACCORDANCE WITH THE EPA "METHOD FOR THE DETERMINATION OF ASBESTOS IN BULK BUILDING MATERIALS" USEPA 600/R-93/116, JULY 1993 (EPA 600/M4/82/020)
INSTRUMENT:	OLYMPUS POLARIZED LIGHT MICROSCOPY, MODEL BH-2

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ELAP#: **11236**

BING LIANG
Laboratory Director

Approved Signatory

BULK SAMPLE ANALYSIS REPORT

NICHE FILE: 06-5834-0

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ASBESTOS TASK FORCE

COMP. #	BWSU2006-68E	**WORK ORDER LTR. #**	ABS9-00-
PROJECT NAME	Kensico Lab	**CONTRACT REG. #**	826 20050031206
LOCATION	Attic, 2nd Floor, 1st Floor, & Basement	**INSPECTOR**	Bing Liang
PROJECT ADDRESS	19 Westlake Drive Valhalla, NY	**DATE SAMPLED**	11-01-06
		DATE RECEIVED	11-01-06
		DATE ANALYZED	11-05-06

Sample No.	Type Of Material	Appearance	Sample Location	Asbestos Content And Percent	Non-Asbestos Fiber Content And Percent
28	Duct Mesh Plaster	Brown	1st Floor/ Auto Clave Room/ Northeast Corner/ Duct Wall	ND	ND
29	Duct Mesh Plaster	Brown	1st Floor/ Auto Clave Room/ Northeast Corner/ Duct Wall	ND	1% Cellulose
30B	Duct Insulation	Yellow	1st Floor/ Auto Clave Room/ Northeast Corner/ Duct East	ND	95% Fiberglass
31B	Duct Insulation	Yellow	1st Floor/ Auto Clave Room/ Northeast Corner/ Duct East	ND	95% Fiberglass
35A	Wall Plaster (White Coat)	White	1st Floor/ Auto Clave Room/ South/ Middle Area/ Upper	ND	ND
35B	Wall Plaster (Brown Coat)	Gray	1st Floor/ Auto Clave Room/ South/ Middle Area/ Upper	ND	ND

Note 1: The balance of each sample is non-fibrous particulates. Please contact us promptly if you have any question about these results. Analysis was performed by using "Point Count Technique" as required and recommended by the New York State Department of Health and USEPA Interim Method for "Identification of Asbestos Fibers in Bulk Samples". This report must not be used by the client to claim product endorsement by NVLAP or any agency of the US government. This report relates only to the items listed. NICHE's liability not to exceed the invoice amount. All sample were collec tedby client, sample location was provided by the client.

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SAMPLE ANALYSIS BY:	POLARIZED LIGHT MICROSCOPY - DISPERSION STAINING (PLM-DS)
METHOD OF SAMPLE PREPARATION & ANALYSIS:	ALL SAMPLES WERE PREPARED AND ANALYZED IN ACCORDANCE WITH THE EPA "METHOD FOR THE DETERMINATION OF ASBESTOS IN BULK BUILDING MATERIALS" USEPA 600/R-93/116, JULY 1993 (EPA 600/M4/82/020)
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ELAP#: **11236**

BING LIANG
Laboratory Director

Approved Signatory

BULK SAMPLE ANALYSIS REPORT

NICHE FILE: 06-5834-0

NEW YORK CITY - DEP
59-17 JUNCTION BOULVARD, 11TH FLOOR
FLUSHING, NEW YORK 11373-5108
PHONE: (718) 595-4384; FAX: (718) 595-4387

ASBESTOS TASK FORCE

COMP. #	BWSU2006-68E	**WORK ORDER LTR. #**	ABS9-00-
PROJECT NAME	Kensico Lab	**CONTRACT REG. #**	826 20050031206
LOCATION	Attic, 2nd Floor, 1st Floor, & Basement	**INSPECTOR**	Bing Liang
PROJECT ADDRESS	19 Westlake Drive Valhalla, NY	**DATE SAMPLED**	11-01-06
		DATE RECEIVED	11-01-06
		DATE ANALYZED	11-05-06

Sample No.	Type Of Material	Appearance	Sample Location	Asbestos Content And Percent	Non-Asbestos Fiber Content And Percent
36A	Wall Plaster (White Coat)	White	1st Floor/ Auto Clave Room/ South/ Middle Area/ Upper	ND	ND
36B	Wall Plaster (Brown Coat)	Gray	1st Floor/ Auto Clave Room/ South/ Middle Area/ Upper	ND	ND
37A	Wall Plaster (White Coat)	White	1st Floor/ Auto Clave Room/ Northwest Corner/ Upper Area	ND	ND
37B	Wall Plaster (Brown Coat)	Gray	1st Floor/ Auto Clave Room/ Northwest Corner/ Upper Area	ND	ND
38	Ceramic Brick	Pale Green-Cream	1st Floor/ Auto Clave Room/ South Wall/ Upper Area	ND	ND
39	Ceramic Brick	Pale Green-Cream	1st Floor/ Auto Clave Room/ South Wall/ Upper Area	ND	ND
40	Ceramic Brick	Pale Green-Cream	1st Floor/ Auto Clave Room/ South Wall/ Upper Area	ND	ND

Note 1: The balance of each sample is non-fibrous particulates. Please contact us promptly if you have any question about these results. Analysis was performed by using "Point Count Technique" as required and recommended by the New York State Department of Health and USEPA Interim Method for "Identification of Asbestos Fibers in Bulk Samples". This report must not be used by the client to claim product endorsement by NVLAP or any agency of the US government. This report relates only to the items listed. NICHE's liabilily not to exceed the invoice amount. All sample were collec tedby client, sample location was provided by the client.

*Polarized light microscopy is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organially bound materials. Quantitative transmission electron microscopy is currently the only method that can be used to determine if the material can be considered or treated as non-asbestos-containing.

Note 2: NOB samples were prepared in accordance with ELAP 198.6, by NICHE's sub-lab, Earth Research Labs, Inc. an ELAP approved lab (ELAP # 11818).

SAMPLE ANALYSIS BY:	POLARIZED LIGHT MICROSCOPY - DISPERSION STAINING (PLM-DS)
METHOD OF SAMPLE PREPARATION & ANALYSIS:	ALL SAMPLES WERE PREPARED AND ANALYZED IN ACCORDANCE WITH THE EPA "METHOD FOR THE DETERMINATION OF ASBESTOS IN BULK BUILDING MATERIALS" USEPA 600/R-93/116, JULY 1993 (EPA 600/M4/82/020)
INSTRUMENT:	OLYMPUS POLARIZED LIGHT MICROSCOPY, MODEL BH-2

ND = NONE DETECTED IND = INCONCLUSIVE NONE DETECTED*
CELL = CELLULSOE; FIBG = FIBERGLASS
ELAP#: **11236**

BING LIANG
Laboratory Director

Approved Signatory

BULK SAMPLE ANALYSIS REPORT

NICHE FILE: 06-5834-0

NEW YORK CITY - DEP
59-17 JUNCTION BOULVARD, 11TH FLOOR
FLUSHING, NEW YORK 11373-5108
PHONE: (718) 595-4384; FAX: (718) 595-4387

ASBESTOS TASK FORCE

COMP. #	BWSU2006-68E	**WORK ORDER LTR. #**	ABS9-00-
PROJECT NAME	Kensico Lab	**CONTRACT REG. #**	826 20050031206
LOCATION	Attic, 2nd Floor, 1st Floor, & Basement	**INSPECTOR**	Bing Liang
PROJECT ADDRESS	19 Westlake Drive Valhalla, NY	**DATE SAMPLED**	11-01-06
		DATE RECEIVED	11-01-06
		DATE ANALYZED	11-05-06

Sample No.	Type Of Material	Appearance	Sample Location	Asbestos Content And Percent	Non-Asbestos Fiber Content And Percent
41	Duct Mesh Plaster	Brown	1st Floor/ Water & Sewer Lab/ West Side/ Duct Wall	ND	<1% Cellulose
42	Duct Mesh Plaster	Brown	1st Floor/ Water & Sewer Lab/ West Side/ Duct Wall	ND	2% Cellulose
43	9x9 Ceiling Tile	Yellow	1st Floor/ Water & Sewer Lab/ West Side/ Middle Area	ND	95% Fiberglass
44B	Duct Insulation	Yellow	1st Floor/ Water & Sewer Lab/ South	ND	90% Fiberglass
45	Duct Insulation Cement	Gray	1st Floor/ Water & Sewer Lab/ South End	ND	ND
46	Duct Insulation Cement	Gray	1st Floor/ Water & Sewer Lab/ South End	ND	ND

Note 1: The balance of each sample is non-fibrous particulates. Please contact us promptly if you have any question about these results. Analysis was performed by using "Point Count Technique" as required and recommended by the New York State Department of Health and USEPA Interim Method for "Identification of Asbestos Fibers in Bulk Samples". This report must not be used by the client to claim product endorsement by NVLAP or any agency of the US government. This report relates only to the items listed. NICHE's liability not to exceed the invoice amount. All sample were collec tedby client, sample location was provided by the client.

*Polarized light microscopy is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organially bound materials. Quantitative transmission electron microscopy is currently the only method that can be used to determine if the material can be considered or treated as non-asbestos-containing.

Note 2: NOB samples were prepared in accordance with ELAP 198.6, by NICHE's sub-lab, Earth Research Labs, Inc. an ELAP approved lab (ELAP # 11818).

SAMPLE ANALYSIS BY:	POLARIZED LIGHT MICROSCOPY - DISPERSION STAINING (PLM-DS)
METHOD OF SAMPLE PREPARATION & ANALYSIS:	ALL SAMPLES WERE PREPARED AND ANALYZED IN ACCORDANCE WITH THE EPA "METHOD FOR THE DETERMINATION OF ASBESTOS IN BULK BUILDING MATERIALS" USEPA 600/R-93/116, JULY 1993 (EPA 600/M4/82/020)
INSTRUMENT:	OLYMPUS POLARIZED LIGHT MICROSCOPY, MODEL BH-2

ND = NONE DETECTED IND = INCONCLUSIVE NONE DETECTED*
CELL = CELLULSOE; FIBG = FIBERGLASS
ELAP#: **11236**

BING LIANG
Laboratory Director

Approved Signatory

BULK SAMPLE ANALYSIS REPORT

NICHE FILE: **06-5834-0**

NEW YORK CITY - DEP
59-17 JUNCTION BOULVARD, 11TH FLOOR
FLUSHING, NEW YORK 11373-5108
PHONE: (718) 595-4384; FAX: (718) 595-4387

ASBESTOS TASK FORCE

COMP. #	BWSU2006-68E	**WORK ORDER LTR. #**	ABS9-00-
PROJECT NAME	Kensico Lab	**CONTRACT REG. #**	826 20050031206
LOCATION	Attic, 2nd Floor, 1st Floor, & Basement	**INSPECTOR**	Bing Liang
PROJECT ADDRESS	19 Westlake Drive Valhalla, NY	**DATE SAMPLED**	11-01-06
		DATE RECEIVED	11-01-06
		DATE ANALYZED	11-05-06

Sample No.	Type Of Material	Appearance	Sample Location	Asbestos Content And Percent	Non-Asbestos Fiber Content And Percent
47	Duct Insulation Cement	Gray	1st Floor/ Water & Sewer Lab/ South End	ND	5% Fiberglass
48	Wall Concrete	Gray	Basement/ Boiler Room/ South Side/ Middle	ND	ND
49	Wall Concrete	Gray	Basement/ Boiler Room/ South Side/ Middle	ND	ND
50	Wall Concrete	Gray	Basement/ Boiler Room/ South Side/ Middle	ND	ND
51	Beam Concrete	Gray	Basement/ Boiler Room/ South Side/ Above Boiler	ND	ND
52	Beam Concrete	Gray	Basement/ Boiler Room/ South Side/ Above Boiler	ND	ND
53	Beam Concrete	Gray	Basement/ Boiler Room/ South Side/ Above Boiler	ND	ND

Note 1: The balance of each sample is non-fibrous particulates. Please contact us promptly if you have any question about these results. Analysis was performed by using "Point Count Technique" as required and recommended by the New York State Department of Health and USEPA Interim Method for "Identification of Asbestos Fibers in Bulk Samples". This report must not be used by the client to claim product endorsement by NVLAP or any agency of the US government. This report relates only to the items listed. NICHE's liability not to exceed the invoice amount. All sample were collec tedby client, sample location was provided by the client.

*Polarized light microscopy is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organially bound materials. Quantitative transmission electron microscopy is currently the only method that can be used to determine if the material can be considered or treated as non-asbestos-containing.

Note 2: NOB samples were prepared in accordance with ELAP 198.6, by NICHE's sub-lab, Earth Research Labs, Inc. an ELAP approved lab (ELAP # 11818).

SAMPLE ANALYSIS BY:	POLARIZED LIGHT MICROSCOPY - DISPERSION STAINING (PLM-DS)
METHOD OF SAMPLE PREPARATION & ANALYSIS:	ALL SAMPLES WERE PREPARED AND ANALYZED IN ACCORDANCE WITH THE EPA "METHOD FOR THE DETERMINATION OF ASBESTOS IN BULK BUILDING MATERIALS" USEPA 600/R-93/116, JULY 1993 (EPA 600/M4/82/020)
INSTRUMENT:	OLYMPUS POLARIZED LIGHT MICROSCOPY, MODEL BH-2

ND = NONE DETECTED IND = INCONCLUSIVE NONE DETECTED*
CELL = CELLULSOE; FIBG = FIBERGLASS
ELAP#: **11236**

BING LIANG
Laboratory Director

Approved Signatory

kam

KAM CONSULTANTS
35-40 36th Street
Long Island City
New York, 11106
Tel: (718) 729-1997
Fax: (718) 729-1876

BULK SAMPLE ANALYSIS REPORT

CLIENT: NICHE ANALYSIS, INC. - 10 Fiske Place, Suite 517, Mount Vernon, NY 10550
BUILDING ADDRESS: 19 West Lake Drive, Valhalla, NY
PROJECT#: NYC DEP - KENSICO LAB

Client Sample ID# :	01	02	03	04	05
Lab Sample ID# :	061102G-602	061102G-603	061102G-604	061102G-605	061102G-606
Sample Location:	2nd Floor / Lunch Room / Left Side	2nd Floor / Lunch Room / Left Side	2nd Floor / Lunch Room / Left Side	Attic / Duct Exhaust	Attic / Duct Exhaust
Homogeneity:	Yes	Yes	Yes	Yes	Yes
Sample Description:	S.O. Window Frame Caulking	S.O. Window Frame Caulking	S.O. Window Frame Caulking	Mastic (Glue)	Mastic (Glue)
Color:	Gr	Gr	Gr	Brn	Brn
Texture:	Mixed	Mixed	Mixed	Mixed	Mixed
Sample Treatment:	Acid Digestion & Ashing	Acid Digestion & Ashing	Acid Digestion & Ashing	Acid Digestion & Ashing	Acid Digestion & Ashing
Asbestos Present: (Type & Percent)	3.6%ANTH 1.5%CHR	3%ANTH 1.2%CHR	4.3%ANTH 1.5%CHR	6%CHR	4%CHR
Total Percent Asbestos:	**5.1%**	**4.2%**	**5.8%**	**6%**	**4%**
Other Fibr. Mat. (Type & Percent):	0%	0%	0%	0%	0%
Non Fibr. Mat. (Percent):	94.9%	95.8%	94.2%	96%	96%

Date Received: 11/2/2006
Date of Analysis: 11/3/2006
Date of Report: 11/3/2006

Analyst: Roody Louis

Lab Director: George Kouvaras

* RL = 0.25% , RL = ND
* All PLM-NOB samples with 1% asbestos or less are "Inconclusive".
* TEM is the only method that can verify that an NOB is not an asbestos-containing material.
* Sample Condition upon receipt: Acceptable
* Analytical Quality Control Requirements were met for this set of samples.
* Analysis of samples is performed by Polarized Light Microscopy (PLM) - Point Counting Method (EPA 600/M4-82-020) (ELAP 198.6)
* Analytical equipments: Stereobinocular microscope (MEIJI EMT-Serial # 25930), Polarized Light Microscope (MEIJI ML-POL-Serial # 88034)
* PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Quantitative transmission electron microscopy is currently the only method that can be used to determine if this material can be considered or treated as non-asbestos-containing
* Samples will be stored for ninety (90) days and then returned to the client upon request
* The results relate only to the items calibrated or tested.
* The certificate of report shall not be reproduced without the written approval of the laboratory.
* The report must not be used by the client to claim endorsement by NVLAP or any agency of the US Government.

NYS-DOH ELAP # 11273 *NIST-NVLAP # 102047* *AIHA #: 100269*

kam

KAM CONSULTANTS
35-40 36th Street
Long Island City
New York, 11106
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Fax: (718) 729-1876

BULK SAMPLE ANALYSIS REPORT

CLIENT: NICHE ANALYSIS, INC. - 10 Fiske Place, Suite 517, Mount Vernon, NY 10550
BUILDING ADDRESS: 19 West Lake Drive, Valhalla, NY
PROJECT#: NYC DEP - KENSICO LAB

Client Sample ID# :	06	30A	31A	32	33
Lab Sample ID# :	061102G-607	061102G-608	061102G-609	061102G-610	061102G-611
Sample Location:	Attic / Duct Exhaust	1st Floor / Auto Clave Room / Duct Work / East Side	1st Floor / Auto Clave Room / Duct Work / East Side	1st Floor / Auto Clave Room / NE Corner / Ceiling	1st Floor / Auto Clave Room / NE Corner / Duct East Wall
Homogeneity:	Yes	Yes	Yes	Yes	Yes
Sample Description:	Mastic (Glue)	Duct Insulation Spot Coating	Duct Insulation Spot Coating	Ceiling Tile Glue	Ceiling Tile Glue
Color:	Brn	Blk	Blk	Brn	Brn
Texture:	Mixed	Mixed	Mixed	Non Fibrous	Non Fibrous
Sample Treatment:	Acid Digestion & Ashing	Acid Digestion & Ashing	Acid Digestion & Ashing	Acid Digestion & Ashing	Acid Digestion & Ashing
Asbestos Present: (Type & Percent)	4.5%CHR	8%CHR	7.5%CHR	ND	ND
Total Percent Asbestos:	**4.5%**	**8%**	**7.5%**	**0%**	**0%**
Other Fibr. Mat. (Type & Percent):	0%	0%	0%	0%	0%
Non Fibr. Mat. (Percent):	95.5%	92%	92.5%	100%	100%

Date Received: 11/2/2006
Date of Analysis: 11/3/2006
Date of Report: 11/3/2006

Analyst: Roody Louis

Lab Director: George Kouvaras

* RL = 0.25% , RL = ND
* All PLM-NOB samples with 1% asbestos or less are "Inconclusive".
* TEM is the only method that can verify that an NOB is not an asbestos-containing material.
* Sample Condition upon receipt: Acceptable
* Analytical Quality Control Requirements were met for this set of samples.
* Analysis of samples is performed by Polarized Light Microscopy (PLM) - Point Counting Method (EPA 600/M4-82-020) (ELAP 198.6)
* Analytical equipments: Stereobinocular microscope (MEIJI EMT-Serial # 25930), Polarized Light Microscope (MEIJI ML-POL-Serial # 88034)
* PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Quantitative transmission electron microscopy is currently the only method that can be used to determine if this material can be considered or treated as non-asbestos-containing
* Samples will be stored for ninety (90) days and then returned to the client upon request
* The results relate only to the items calibrated or tested.
* The certificate of report shall not be reproduced without the written approval of the laboratory.
* The report must not be used by the client to claim endorsement by NVLAP or any agency of the US Government.

NYS-DOH ELAP # 11273 *NIST-NVLAP # 102047* *AIHA #: 100269*

kam

KAM CONSULTANTS
35-40 36th Street
Long Island City
New York, 11106
Tel: (718) 729-1997
Fax: (718) 729-1876

BULK SAMPLE ANALYSIS REPORT

CLIENT: NICHE ANALYSIS, INC. - 10 Fiske Place, Suite 517, Mount Vernon, NY 10550
BUILDING ADDRESS: 19 West Lake Drive, Valhalla, NY
PROJECT#: NYC DEP - KENSICO LAB

Client Sample ID# :	34	44A
Lab Sample ID# :	061102G-612	061102G-613
Sample Location:	1st Floor / Auto Clave Room / NE Corner / Duct East Wall	1st Floor / Water & Sewer Lab / South End
Homogeneity:	Yes	Yes
Sample Description:	Ceiling Tile Glue	Duct Insulation Spot Coating
Color:	Brn	Blk
Texture:	Non Fibrous	Mixed
Sample Treatment:	Acid Digestion & Ashing	Acid Digestion & Ashing
Asbestos Present: (Type & Percent)	ND	6.4%CHR
Total Percent Asbestos:	**0%**	**6.4%**
Other Fibr. Mat. (Type & Percent):	0%	0%
Non Fibr. Mat. (Percent):	100%	93.6%
Date Received:	11/2/2006	
Date of Analysis:	11/3/2006	
Date of Report:	11/3/2006	

Analyst: Roody Louis

Lab Director: George Kouvaras

* RL = 0.25% , RL = ND
* All PLM-NOB samples with 1% asbestos or less are "Inconclusive".
* TEM is the only method that can verify that an NOB is not an asbestos-containing material.
* Sample Condition upon receipt: Acceptable
* Analytical Quality Control Requirements were met for this set of samples.
* Analysis of samples is performed by Polarized Light Microscopy (PLM) - Point Counting Method (EPA 600/M4-82-020) (ELAP 198.6)
* Analytical equipments: Stereobinocular microscope (MEIJI EMT-Serial # 25930), Polarized Light Microscope (MEIJI ML-POL-Serial # 88034)
* PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Quantitative transmission electron microscopy is currently the only method that can be used to determine if this material can be considered or treated as non-asbestos-containing
* Samples will be stored for ninety (90) days and then returned to the client upon request
* The results relate only to the items calibrated or tested.
* The certificate of report shall not be reproduced without the written approval of the laboratory.
* The report must not be used by the client to claim endorsement by NVLAP or any agency of the US Government.

NYS-DOH ELAP # 11273 *NIST-NVLAP # 102047* *AIHA #: 100269*

NICHE ANALYSIS, INC.

BULK SAMPLE ANALYSIS REPORT

(NON-FRIABLE ORGANICALLY BOUND MATERIALS BY PLM AND/OR TEM VIA NYS ELAP 198.6 & 198.4)

NICHE FILE: 13-15732-0
COMPLIANCE DIVISION

NEW YORK CITY - DEP
BUREAU OF WATER SUPPLY
465 COLUMBUS AVENUE
VALHALLA, NEW YORK 10595-1336
PHONE : (914) 773-4555; FAX: (914) 773-4530

SUB-LAB	ATC Associates Inc	**Batch #**	# 27329
COMPLAINT #	BWS-U2013-51A	**DEP CONTACT**	Anthony Purchia
FACILITY	(AP) ~~Hudson~~ Kensico Lab	**DATE SAMPLED**	08-13-13
PROJECT ADDRESS	19 West Lake Drive Valhalla, NY 10595	**DATE RELINQUISHED**	08-15-13
		DATE ANALYZED	08-19-13
		DATE REPORTED	08-20-13

Sample No.	Type Of Material	Appearance	Sample Location	Asbestos Content And Percent	Non-Asbestos Fiber Content And Percent	Gravimetric NOB Results
1E	Tar Coating	Black	Area # 2/ Lab Storage/ Floor Drain	ND	ND	64.6% Organic 8.7% Residue 26.7% Carbonate
2E	Tar Coating	Black	Area # 2/ Lab Storage/ Floor Drain	ND	ND	64.2% Organic 2.9% Residue 32.9% Carbonate

Note: All NOB samples were prepared and analyzed in accordance with NYS DOH- ELAP methods 198.6 and 198.4 via Transmission Electron Microscopy (TEM) by NICHE's sub-lab, ATC Associates, Inc., an ELAP approved lab (ELAP # 10879), and this report is generated with their permission and approval.

SAMPLE ANALYSIS BY	POLARIZED-LIGHT MICROSCOPY (PLM) AND/OR TRANSMISSION ELECTRON MICROSCOPY TEM
METHOD OF SAMPLE PREPARATION & ANALYSIS	ALL SAMPLES WERE PREPARED AND ANALYZED IN ACCORDANCE WITH THE NYS DOH ELAP METHODS 198.6 "POLARIZED-LIGHT MICROSCOPE METHOD FOR IDENTIFYING AND QUANTITATING ASBESTOS IN NON-FRIABLE ORGANICALLY BOUND BULK SAMPLES" AND 198.4 "TRANSMISSION ELECTRON MICROSCOPE METHOD FOR IDENTIFYING AND QUANITATING ASBESTOS IN NON-FRIABLE ORGANICALLY BOUND BULK SAMPLES"

ND = NONE DETECTED
NICHE ELAP#: 11236

BING LIANG
Laboratory Director/Contact Person

Approved Signatory

ENVIRONMENTAL SOLUTIONS
NICHE

NICHE ANALYSIS, INC.

BULK SAMPLE ANALYSIS REPORT

(NON-FRIABLE ORGANICALLY BOUND MATERIALS BY PLM AND/OR TEM VIA NYS ELAP 198.6 & 198.4)

NICHE FILE: 13-15693-0
COMPLIANCE DIVISION

NEW YORK CITY - DEP
BUREAU OF WATER SUPPLY
465 COLUMBUS AVENUE
VALHALLA, NEW YORK 10595-1336
PHONE : (914) 773-4555; FAX: (914) 773-4530

SUB-LAB	ATC Associates Inc.	**Batch #**	# 27284
COMPLAINT #	BWS-U2013-49E	**DEP CONTACT**	Anthony Purchia
FACILITY	Kensico Laboratory	**DATE SAMPLED**	08-06-13
PROJECT ADDRESS	West Lake Drive Valhalla, NY 10595	**DATE RELINQUISHED**	08-07-13
		DATE ANALYZED	08-11-13
		DATE REPORTED	08-12-13

Sample No.	Type Of Material	Appearance	Sample Location	Asbestos Content And Percent	Non-Asbestos Fiber Content And Percent	Gravimetric NOB Results
1E	Tar Coating	Black	Area # 2 Lab Storage Floor Drain	ND	ND	72.8% Organic 6.2% Residue 21% Carbonate
2E	Tar Coating	Black	Area # 2 Lab Storage Along Wall	1.4% Chrysotile	ND	63.8% Organic 12.7% Residue 22.1% Carbonate

Note: All NOB samples were prepared and analyzed in accordance with NYS DOH- ELAP methods 198.6 and 198.4 via Transmission Electron Microscpoy (TEM) by NICHE's sub-lab, ATC Associates Inc., an ELAP approved lab (ELAP # 10879), and this report is generated with their permission and approval.

SAMPLE ANALYSIS BY	POLARIZED-LIGHT MICROSCOPY (PLM) AND/OR TRANSMISSION ELECTRON MICROSCOPY (TEM)
METHOD OF SAMPLE PREPARATION & ANALYSIS	ALL SAMPLES WERE PREPARED AND ANALYZED IN ACCORDANCE WITH THE NYS DOH ELAP METHODS 198.6 "POLARIZED-LIGHT MICROSCOPE METHOD FOR IDENTIFYING AND QUANTITATING ASBESTOS IN NON-FRIABLE ORGANICALLY BOUND BULK SAMPLES", AND 198.4 "TRANSMISSION ELECTRON MICROSCOPE METHOD FOR IDENTIFYING AND QUANITATING ASBESTOS IN NON-FRIABLE ORGANICALLY BOUND BULK SAMPLES"

ND = NONE DETECTED
NICHE ELAP#: 11236

BING LIANG
Laboratory Director/Contact Person

Approved Signatory

AMERI SCI

AmeriSci New York
117 EAST 30TH STREET
NEW YORK, NY 10016
TEL: (212) 679-8600 • FAX: (212) 679-9392

PLM Bulk Asbestos Report

URS Corporation
Attn: Thomas Gibbons
5 Penn Plaza
13th Floor
New York, NY 10001

Date Received 10/01/04 **AmeriSci Job No.**204101135
Date Examined 10/06/04 **P.O. #**
ELAP Number 11480 **Page** 1 **of** 5
RE 38547721.11912; DEP; Kensico Lab (BWS 191)

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
191-01-01	204101135-01	*Yes*	7 %
1	**Location:** Attic - HVAC System		
	Description: Black, Homogeneous, Duct Batting Mastic		
	Asbestos Types: Chrysotile 7.0 %		
	Other Material: Fibrous glass 5. %, Non-fibrous 88. %		
191-01-02	204101135-02		NA/PS
1	**Location:** Attic - HVAC System		
	Description: Duct Batting Mastic		
	Asbestos Types:		
	Other Material:		
191-01-03	204101135-03		NA/PS
1	**Location:** Attic - HVAC System		
	Description: Duct Batting Mastic		
	Asbestos Types:		
	Other Material:		
191-02-01	204101135-04	*No*	NAD
2	**Location:** Microbiology Office		
	Description: Grey, Homogeneous, Suspended Ceiling Tile		
	Asbestos Types:		
	Other Material: Cellulose 50. %, Fibrous glass 25. %, Non-fibrous 25. %		
191-02-02	204101135-05	*No*	NAD
2	**Location:** Microbiology Office		
	Description: Grey, Homogeneous, Suspended Ceiling Tile		
	Asbestos Types:		
	Other Material: Cellulose 50. %, Fibrous glass 25. %, Non-fibrous 25. %		

AMERI SCI

AmeriSci New York
117 EAST 30TH STREET
NEW YORK, NY 10016
TEL: (212) 679-8600 • FAX: (212) 679-9392

PLM Bulk Asbestos Report

URS Corporation
Attn: Thomas Gibbons
5 Penn Plaza
13th Floor
New York, NY 10001

Date Received 10/01/04 **AmeriSci Job No.**204101135
Date Examined 10/06/04 **P.O. #**
ELAP Number 11480 **Page** 2 **of** 5
RE 38547721.11912; DEP; Kensico Lab (BWS 191)

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
191-02-03	204101135-06	*No*	NAD
2	**Location:** Microbiology Office		
	Description: Grey, Homogeneous, Suspended Ceiling Tile		
	Asbestos Types:		
	Other Material: Cellulose 50. %, Fibrous glass 25. %, Non-fibrous 25. %		
191-03-01	204101135-07		NA
3	**Location:** Autoclave And Bottle Lab Ceiling		
	Description: Mastic On Ceiling Tile		
	Asbestos Types:		
	Other Material:		
	Comment: No Sample Submitted		
191-03-02	204101135-08		NA
3	**Location:** Autoclave And Bottle Lab Ceiling		
	Description: Mastic On Ceiling Tile		
	Asbestos Types:		
	Other Material:		
	Comment: No Sample Submitted		
191-03-03	204101135-09		NA
3	**Location:** Autoclave And Bottle Lab Ceiling		
	Description: Mastic On Ceiling Tile		
	Asbestos Types:		
	Other Material:		
	Comment: No Sample Submitted		

AMERI SCI

AmeriSci New York
117 EAST 30TH STREET
NEW YORK, NY 10016
TEL: (212) 679-8600 • FAX: (212) 679-9392

PLM Bulk Asbestos Report

URS Corporation
Attn: Thomas Gibbons
5 Penn Plaza
13th Floor
New York, NY 10001

Date Received 10/01/04 **AmeriSci Job No.**204101135
Date Examined 10/06/04 **P.O. #**
ELAP Number 11480 **Page** 3 **of** 5
RE 38547721.11912; DEP; Kensico Lab (BWS 191)

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
191-04-01	204101135-10		NA
4	**Location:** Autoclave And Bottle Lab Ceiling		
	Description: Brown Coat On Duct		
	Asbestos Types:		
	Other Material:		
	Comment: No Sample Submitted		
191-04-02	204101135-11		NA
4	**Location:** Autoclave And Bottle Lab Ceiling		
	Description: Brown Coat On Duct		
	Asbestos Types:		
	Other Material:		
	Comment: No Sample Submitted		
191-04-03	204101135-12		NA
4	**Location:** Autoclave And Bottle Lab Ceiling		
	Description: Brown Coat On Duct		
	Asbestos Types:		
	Other Material:		
	Comment: No Sample Submitted		
191-05-01	204101135-13	*Yes*	< 1.% [1, 2]
5	**Location:** Wet Chemistry Lab		
	Description: Grey, Homogeneous, Doorway Caulking		
	Asbestos Types: Anthophyllite 0.5 %		
	Other Material: Fibrous Talc 2. %, Non-fibrous 97.5 %		

AMERI SCI

AmeriSci New York
117 EAST 30TH STREET
NEW YORK, NY 10016
TEL: (212) 679-8600 • FAX: (212) 679-9392

PLM Bulk Asbestos Report

URS Corporation
Attn: Thomas Gibbons
5 Penn Plaza
13th Floor
New York, NY 10001

Date Received 10/01/04 **AmeriSci Job No.**204101135
Date Examined 10/06/04 **P.O. #**
ELAP Number 11480 **Page** 4 **of** 5
RE 38547721.11912; DEP; Kensico Lab (BWS 191)

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
191-05-02	204101135-14	*Yes*	< 1.% [1]
5	**Location:** Wet Chemistry Lab		
	Description: Grey/Green, Heterogeneous, Doorway Caulking		
	Asbestos Types: Anthophyllite Trace		
	Other Material: Fibrous Talc 1. %, Non-fibrous 99. %		
	Comment: Composite Analysis		
191-05-03	204101135-15	*Yes*	< 1.% [1]
5	**Location:** Wet Chemistry Lab		
	Description: Grey/Green, Heterogeneous, Doorway Caulking		
	Asbestos Types: Anthophyllite Trace		
	Other Material: Fibrous Talc 1. %, Non-fibrous 99. %		
	Comment: Composite Analysis		
191-06-01	204101135-16	*Yes*	2.25 % [1]
6	**Location:** Basement Boiler Room		
	Description: Beige, Homogeneous, Doorway Caulking		
	Asbestos Types: Anthophyllite Trace, Chrysotile 2.25 %		
	Other Material: Non-fibrous 97.75 %		
191-06-02	204101135-17		NA/PS
6	**Location:** Basement Boiler Room		
	Description: Doorway Caulking		
	Asbestos Types:		
	Other Material:		

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117 EAST 30TH STREET
NEW YORK, NY 10016
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PLM Bulk Asbestos Report

URS Corporation
Attn: Thomas Gibbons
5 Penn Plaza
13th Floor
New York, NY 10001

Date Received 10/01/04 **AmeriSci Job No.**204101135
Date Examined 10/06/04 **P.O. #**
ELAP Number 11480 **Page** 5 **of** 5
RE 38547721.11912; DEP; Kensico Lab (BWS 191)

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
191-06-03	204101135-18		NA/PS
6	**Location:** Basement Boiler Room		

Description: Doorway Caulking
Asbestos Types:
Other Material:

Reporting Notes:

(1) PLM analysis by EPA 400 Point Count Method
(2) TEM confirmation of PLM results recommended

Analyzed by: David W. Roderick

*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 #200546-0) and ELAP PLM Analysis Protocol 198.1 for New York samples (NYSDOH ELAP Lab # 11480); Note: PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. 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 New York 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 laboratory. This PLM report relates ONLY to the items tested. AIHA# 102843.

Reviewed By:_____

AMERI SCI

AmeriSci New York
117 EAST 30TH STREET
NEW YORK, NY 10016
TEL: (212) 679-8600 • FAX: (212) 679-9392

PLM Bulk Asbestos Report

URS Corporation
Attn: Thomas Gibbons
5 Penn Plaza
13th Floor
New York, NY 10001

Date Received 10/13/04 **AmeriSci Job No.**204102457
Date Examined 10/14/04 **P.O. #**
ELAP Number 11480 **Page** 1 **of** 2
RE 38547721.11912; dep; Kensico Lab

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
191-03-01	204102457-01	*No*	NAD

Location: Autoclave And Bottle Lab Ceiling

Description: Brown, Homogeneous, Ceiling Tile Mastic
Asbestos Types:
Other Material: Fibrous glass Trace, Non-fibrous 100. %

191-03-02	204102457-02	*No*	NAD

Location: Autoclave And Bottle Lab Ceiling

Description: Brown, Homogeneous, Ceiling Tile Mastic
Asbestos Types:
Other Material: Fibrous glass Trace, Non-fibrous 100. %

191-03-03	204102457-03	*No*	NAD

Location: Autoclave And Bottle Lab Ceiling

Description: Brown, Homogeneous, Ceiling Tile Mastic
Asbestos Types:
Other Material: Fibrous glass Trace, Non-fibrous 100. %

191-03-04-01	204102457-04	*No*	NAD

Location: Autoclave And Bottle Lab Ceiling

Description: Brown, Homogeneous, Cementitious, Brown Coat/Duct (Scratch Coat)
Asbestos Types:
Other Material: Cellulose Trace, Non-fibrous 100. %

191-03-04-02	204102457-05	*No*	NAD

Location: Autoclave And Bottle Lab Ceiling

Description: Brown, Homogeneous, Cementitious, Brown Coat/Duct (Scratch Coat)
Asbestos Types:
Other Material: Cellulose Trace, Non-fibrous 100. %

KAM CONSULTANTS
35-40 36th Street
Long Island City
New York, 11106
Tel: (718) 729-1997
Fax: (718) 729-1876

QUANTITATIVE ANALYSIS REPORT
ASBESTOS IN BULK MATERIAL
Transmission Electron Microscopy

CLIENT: NICHE ANALYSIS INC. – 10 Fiske Place, Suite 517, Mt. Vernon, NY 10550
BUILDING ADDRESS: NYC DEP – KENSICO LAB – 19 West Lake Drive, Valhalla, NY

Sample Description (Homogen. Material)	Sample Location	Client Sample ID #	Lab ID#	Color	Organic Component	Acid Soluble Inorganic	NA Acid Insoluble Inorganic	Asbestos (Percentage & Type)
Ceiling Tile Glue	1st Floor/ Auto Clave Room/ NE Corner/ Ceiling	32	T061102G-610	Brn	52.3%	12.0%	35.7%	ND
Ceiling Tile Glue	1st Floor/ Auto Clave Room/ NE Corner/ Duct East Wall	33	T061102G-611	Brn	51.6%	7.9%	40.5%	ND
Ceiling Tile Glue	1st Floor/ Auto Clave Room/ NE Corner/ Duct East Wall	34	T061102G-612	Brn	50.3%	14.4%	35.3%	ND

Date Received: 11/02/06
Date Analyzed: 11/06/06
Date of Report: 11/06/06

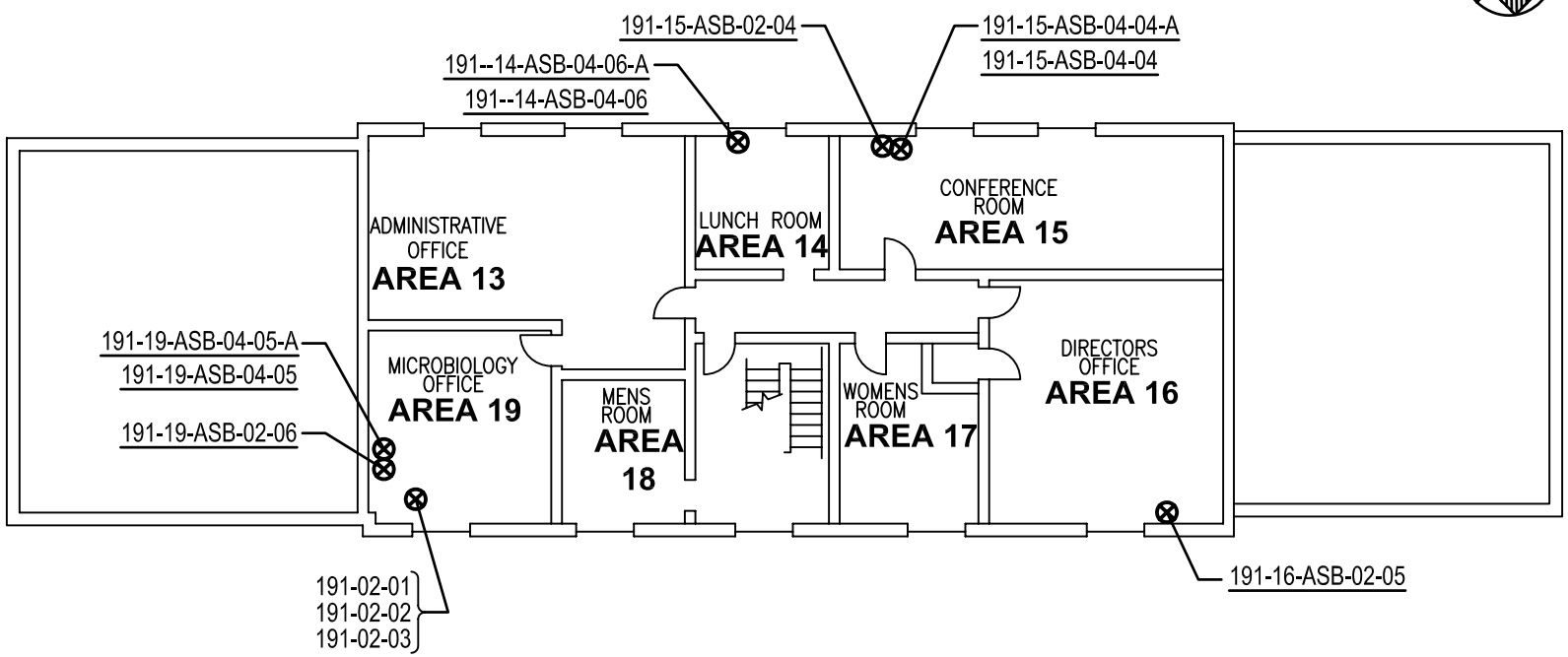
Analyst: Alex Barengolts

Lab Director: George Kouvaras

- Sample Condition: Acceptable
- Analytical Quality Control Requirements were met for this set of samples.
- Analysis performed by New York State ELAP 198.4 Method for NOB's (Non-Friable Organically Bound Bulk Samples)
- This report relates only to specific items tested
- Samples will be stored for ninety (90) days and then returned to the client upon request
- CH: Chrysotile, AMO: Amosite, CRO: Crocidolite, ACT: Actinolite, ANTH: Anthophylite, TRE: Tremolite, ND: Not Detected, Trc: Trace, NA: Non Asbestos
- KAM's Laboratory must report as verifiable only those operations and analysis performed in-lab. If a filter with residue was received from non-laboratory personnel then the laboratory report should report as verifiable only the structures / cm^3

AIHA #: 100269 **NIST-NVLAP #: 102047** **NYS-DOH ELAP#: 11273**

Sample Locations from Previous Surveys and Sample Events



NOT TO SCALE

LEGEND:

⊗ SAMPLE IDENTIFICATION AND LOCATION
UNDERLINE DENOTES SAMPLES RE-VISIT LOCATIONS

THE CITY OF NEW YORK
DEPARTMENT OF ENVIRONMENTAL PROTECTION

URS CORPORATION
5 PENN PLAZA
NEW YORK, NY 10001
TEL: (212) 840-0595
FAX: (212) 921-0388

Project
NYCDEP LEGACY ASSESSMENTS

Facility Name and Number:
KENSICO LABORATORY BWS-191

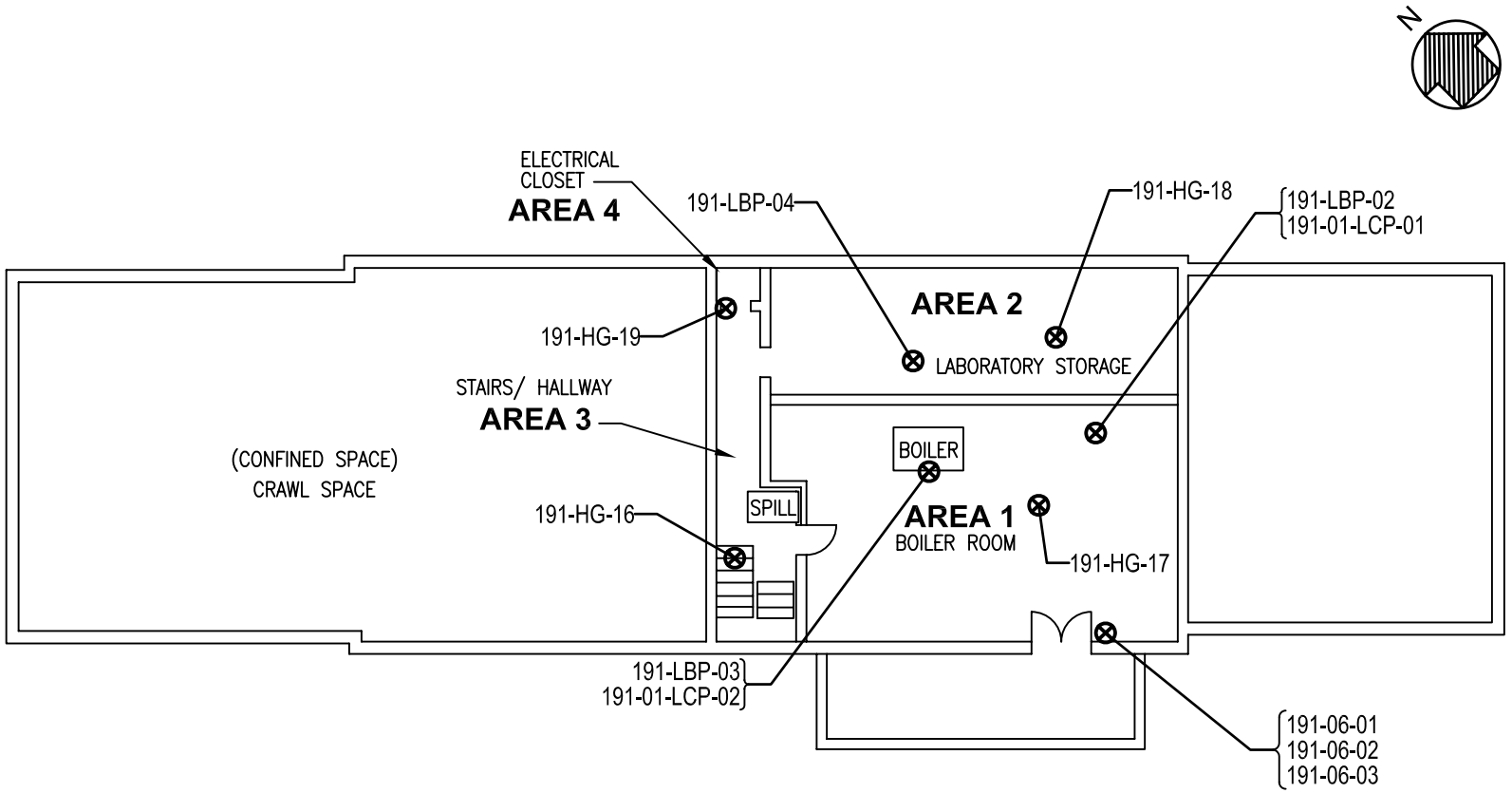
Sheet Title:
SECOND LEVEL FLOOR PLAN

(AREA 13 THROUGH AREA 19)

Date: 06/20/06

Project Number: 38547721

Sheet Number: FIGURE 2



NOT TO SCALE

LEGEND:

⊗ SAMPLE IDENTIFICATION AND LOCATION

THE CITY OF NEW YORK
DEPARTMENT OF ENVIRONMENTAL PROTECTION

URS CORPORATION
5 PENN PLAZA
NEW YORK, NY 10001
TEL: (212) 840-0595
FAX: (212) 921-0388

Project
NYCDEP LEGACY ASSESSMENTS

Facility Name and Number:
KENSICO LABORATORY BWS-191

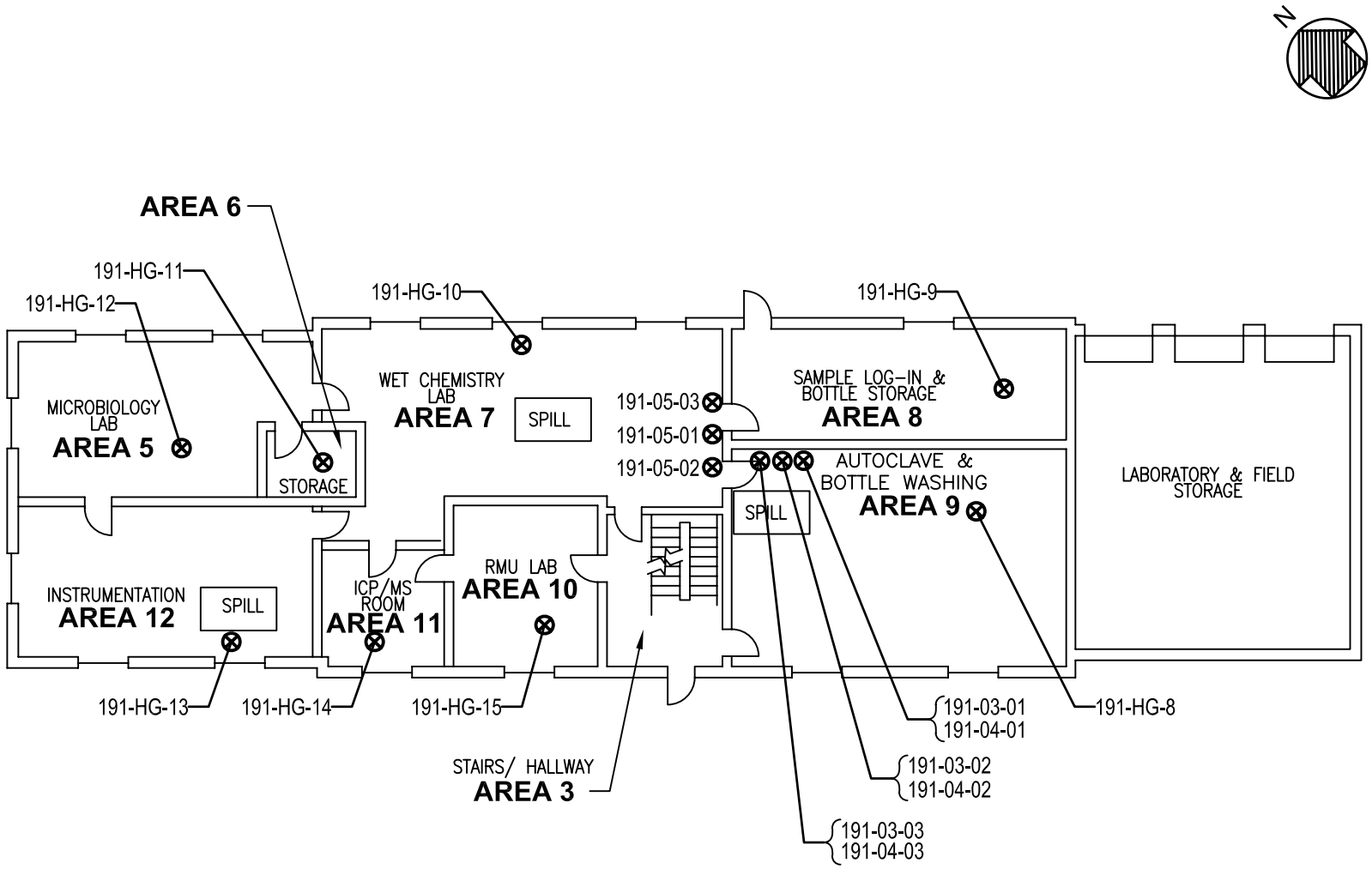
Sheet Title:
BASEMENT LEVEL FLOOR PLAN

(AREA 1 THROUGH AREA 4)

Date: 03/02/05

Project Number: 38547721

Sheet Number: FIGURE 2



NOT TO SCALE

LEGEND:

⊗ SAMPLE IDENTIFICATION AND LOCATION

S:\Projects\NYCDEP-Legacy\38547721\EastOfHudson\BWS-191\Plot\BWS-191-003.dwg 8/19/2005 11:39:26 AM EST

THE CITY OF NEW YORK
DEPARTMENT OF ENVIRONMENTAL PROTECTION

URS CORPORATION
5 PENN PLAZA
NEW YORK, NY 10001
TEL: (212) 840-0595
FAX: (212) 921-0388

Project
NYCDEP LEGACY ASSESSMENTS

Facility Name and Number:
KENSICO LABORATORY BWS-191

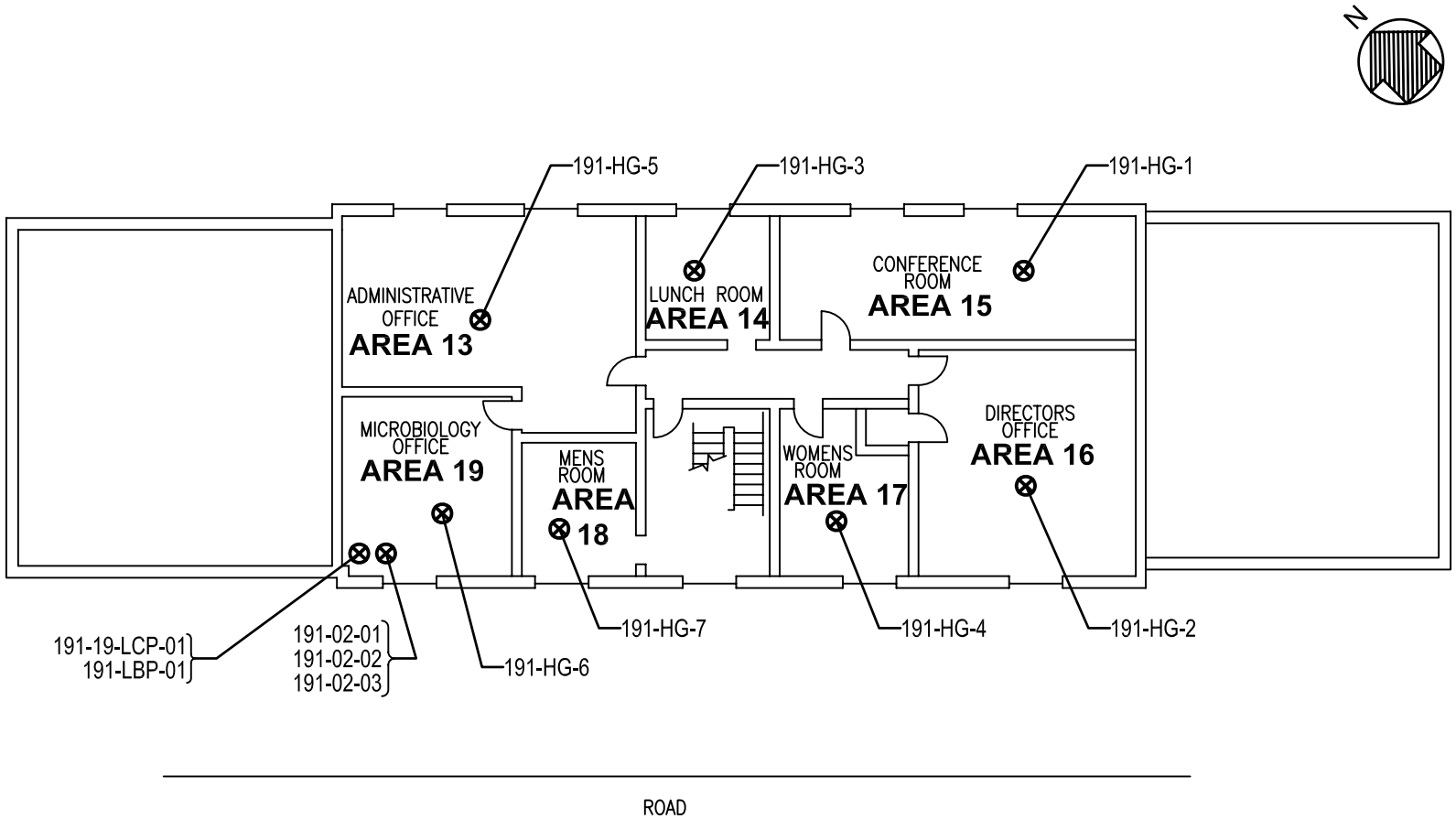
Sheet Title:
MAIN LEVEL FLOOR PLAN

(AREA 5 THROUGH AREA 12)

Date: 03/02/05

Project Number: 38547721

Sheet Number: FIGURE 3



NOT TO SCALE

LEGEND:

⊗ SAMPLE IDENTIFICATION AND LOCATION

THE CITY OF NEW YORK
DEPARTMENT OF ENVIRONMENTAL PROTECTION

URS CORPORATION
5 PENN PLAZA
NEW YORK, NY 10001
TEL: (212) 840-0595
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Project
NYCDEP LEGACY ASSESSMENTS

Facility Name and Number:
KENSICO LABORATORY BWS-191

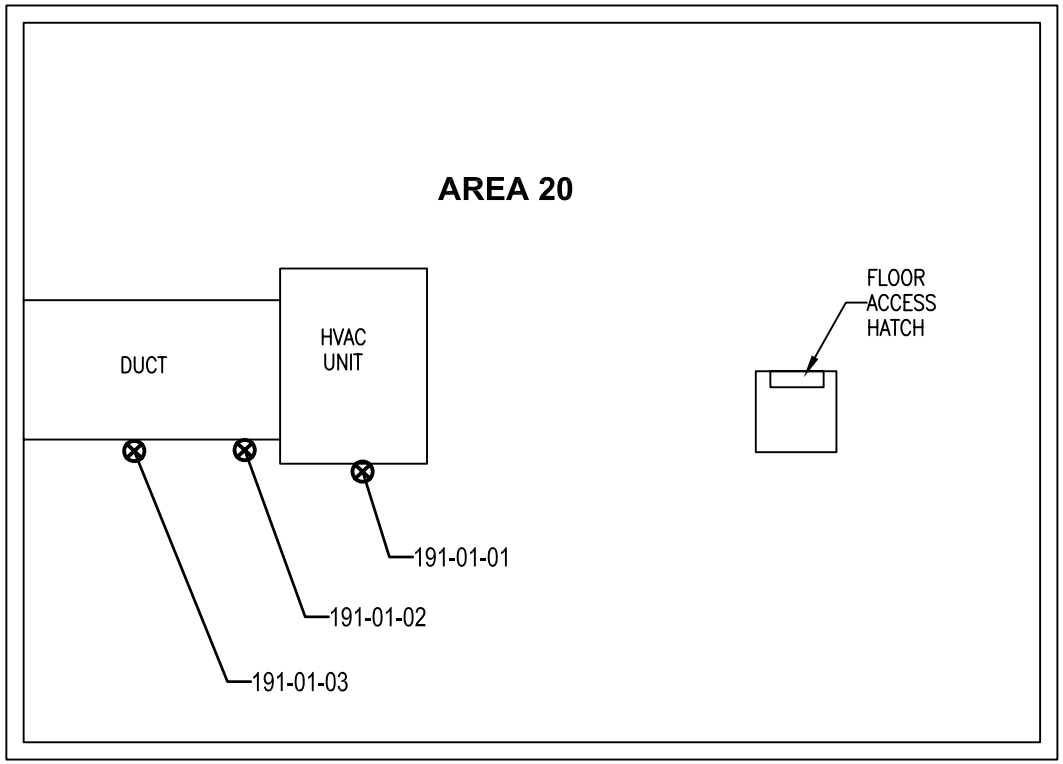
Sheet Title:
SECOND LEVEL FLOOR PLAN

(AREA 13 THROUGH AREA 19)

Date: 03/02/05

Project Number: 38547721

Sheet Number: FIGURE 4



FRONT OF BUILDING

NOT TO SCALE

LEGEND:

⊗ SAMPLE IDENTIFICATION AND LOCATION

THE CITY OF NEW YORK
DEPARTMENT OF ENVIRONMENTAL PROTECTION

URS CORPORATION
5 PENN PLAZA
NEW YORK, NY 10001
TEL: (212) 840-0595
FAX: (212) 921-0388

Project
NYCDEP LEGACY ASSESSMENTS

Facility Name and Number:
KENSICO LABORATORY BWS-191

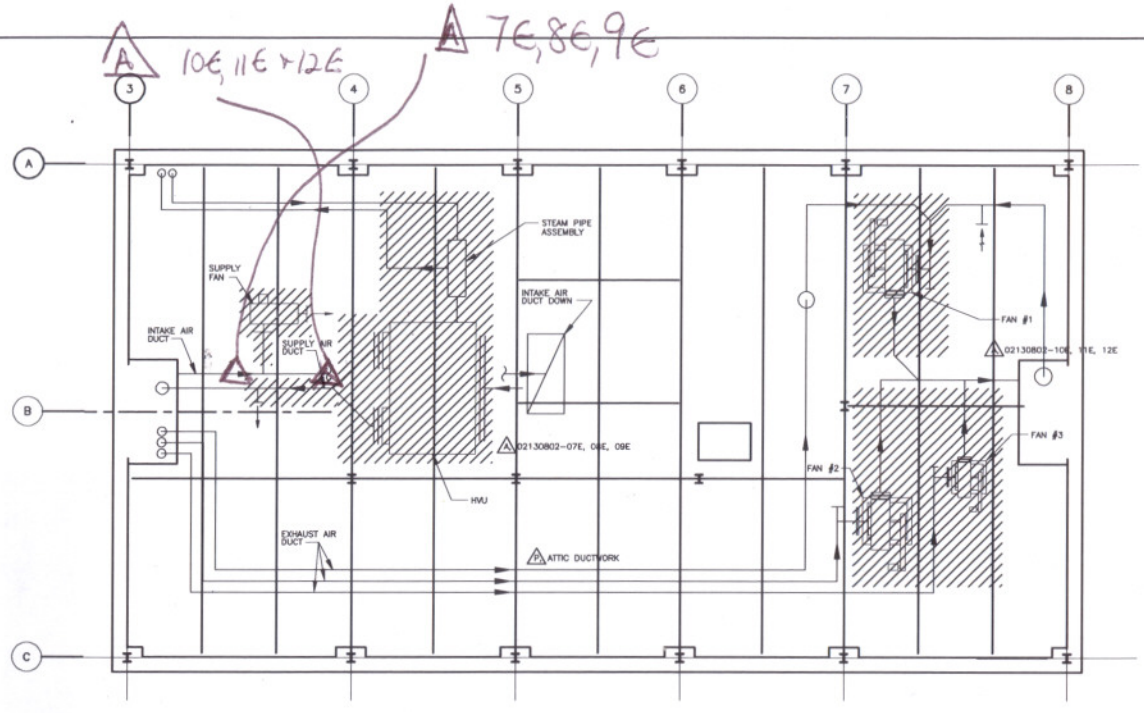
Sheet Title:
ATTIC LEVEL FLOOR PLAN

(AREA 20)

Date: 03/02/05

Project Number: 38547721

Sheet Number: FIGURE 5



ATTIC FLOOR PLAN

SCALE: 1/4" = 1'-0"

ACM Removal Kensico Laboratory Facility - ATTIC				
Sample No(s)	Location	Sample Description	Analytical Results	Estimated Quantity
02130802-07E, 08E, 09E	Attic HVAC Unit	Gasket at Top Seam	0.2 - 1.4% Chrysotile	
02130802-10E,11E, 12E	Attic HVAC Duct	Residual Tar	12.5 – 17.7% Chrysotile	

Summary of Paint Chip Sample Data Kensico Laboratory Facility - Attic			
Sample ID	**Location**	**Parameter**	**Concentration**
Attic Duct Work	Attic – Paint on Duct Work	PCBs	2.9 mg/kg
Attic Duct Work	Attic – Paint on Duct Work	mercury	0.67 mg/kg
Attic Duct Work	Attic – Paint on Duct Work	lead	820 mg/kg

NOTES:

1. THIS DRAWING ONLY SHOWS PROPOSED LOCATIONS OF CONTAINMENT FOR ASBESTOS ABATEMENT AND APPROXIMATE BOUNDARIES OF THE ABATEMENT WORKS. ABATEMENT CONTRACTOR SHOULD DETERMINE A FINAL PLAN AS NECESSARY TO COMPELETE THE WORK. ALL EXISTING DUCT HAVE ASBESTOS CONTAINING VAPOR VARRIER. SEE SPECIFICATION 13282 AND 13283 FOR KNOWN LOCATIONS OF ACM AND PAINT CONTAINING LEAD.

2. CONTRACTOR SHOULD REMEDIATE THE ASBESTOS CONTAINING MATERIALS AS NECESSARY TO CONNECT THE NEW DUCTWORKS. SEE THE PLANS AND SECTIONS FOR THE CONNECTIONS MADE TO THE EXISTING DUCTWORKS. ALL ABATEMENT WORK SHOULD BE DONE IN ACCORDANCE WITH SPECIFICATION 13281 AS WELL AS 13283.

3. CONTRACTOR SHOULD PERFORM SPOT ABATEMENT OF PAINT AND DEMOLITION OF MATERRIAL REQUIRED TO COMPLETE THE WORK IN ACCORDANCE WITH SPECIFICATION SECTION 13283.

4. POTENTIAL ACM (ASBESTOS CONTAINING MATERIAL) IS PRESENT BEHIND THE ALL EXISTING UTILITY SHAFT.

5. CONTRACTOR TO CAREFULLY OPEN EXISTING CEILING CONSTRUCTION ONLY TO THE EXTENT NEEDED TO CONDUCT THE ABATEMENT WORKS AS REQUIRED. UPON COMPLETION OF ABATEMENT, EXISTING CEILING AREAS ACCESSED IN SUCH A MANNER SHALL BE SEALED AS REQUIRED AND APPROVED BY THE ENGINEER UNTIL THE NEW HVAC DUCTWORK TO BE INITIATED.

6. THE FUME HOODS AND AUTOCLAVE IN REAGENT AND MEDIA PREPARATION ROOM CAN NOT BE RELOCATED DURING THE WORK.

7. TEMPORARY ENCLOSURE AROUND THE ACM MATERIAL IN THE VICINITY OF THE WOKR AREA SHOULD BE PROVIDED AS SHOWN.

3. THE EXISTING WINDOW IN THE EMPLOYEE LUNCH ROOM MAY BE REMOVED TEMPORARILY FOR A SHORT DURATION AS ALLOWED BY THE ENGINEER FOR HVAC EQUIPMENT ACCESS PURPOSES ONLY. IF REMOVED, THE H CONTRANCTOR SHALL ABATE ASBESTOS IN GLAZING AND CAULKING IN ACCORDANCE WITH SPECIFICATION 13281. THE ABATEMENT WILL BE PAID PER UNIT PRICE ITEM H-UP-2. THE WINDOW SHALL BE REPLACED UPON USE FOR HVAC EQUIPMENT ACCESS. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO NOT DAMAGE THE WINDOW. IF DAMAGED, THE CONTRACTOR SHALL REPLACE THE WINDOW IN KIND AT NO EXTRA COST TO THE OWNER.

LEGEND

////// – DENOTES DEMOLITION

4 0 4 8 FT 1/4"=1'-0"

WARNING
IT IS A VIOLATION OF SECTION 7209.2 OF THE NEW YORK STATE EDUCATION LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER IN ANY WAY PLANS, SPECIFICATIONS, PLATS OR REPORTS TO WHICH THE SEAL OF A PROFESSIONAL ENGINEER HAS BEEN AFFIXED. IF AN ITEM BEARING THE SEAL OF A PROFESSIONAL ENGINEER IS ALTERED, THE ALTERING ENGINEER SHALL AFFIX TO THE ITEM HIS SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY HIS SIGNATURE, THE DATE, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

NO.	DATE	ISSUED FOR	BY

DESIGNED RM/TK
DRAWN TK
CHECKED GVS
PROJ.ENGR.

SCALE 1/4"=1'-0"

GREELEY AND HANSEN

CITY OF NEW YORK
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WATER SUPPLY
CATSKILL-CAT-184
KENSICO LAB HVAC UPGRADE

CAT-184-H
HVAC
KANSICO LABORATORY

DEMOLITION PLAN

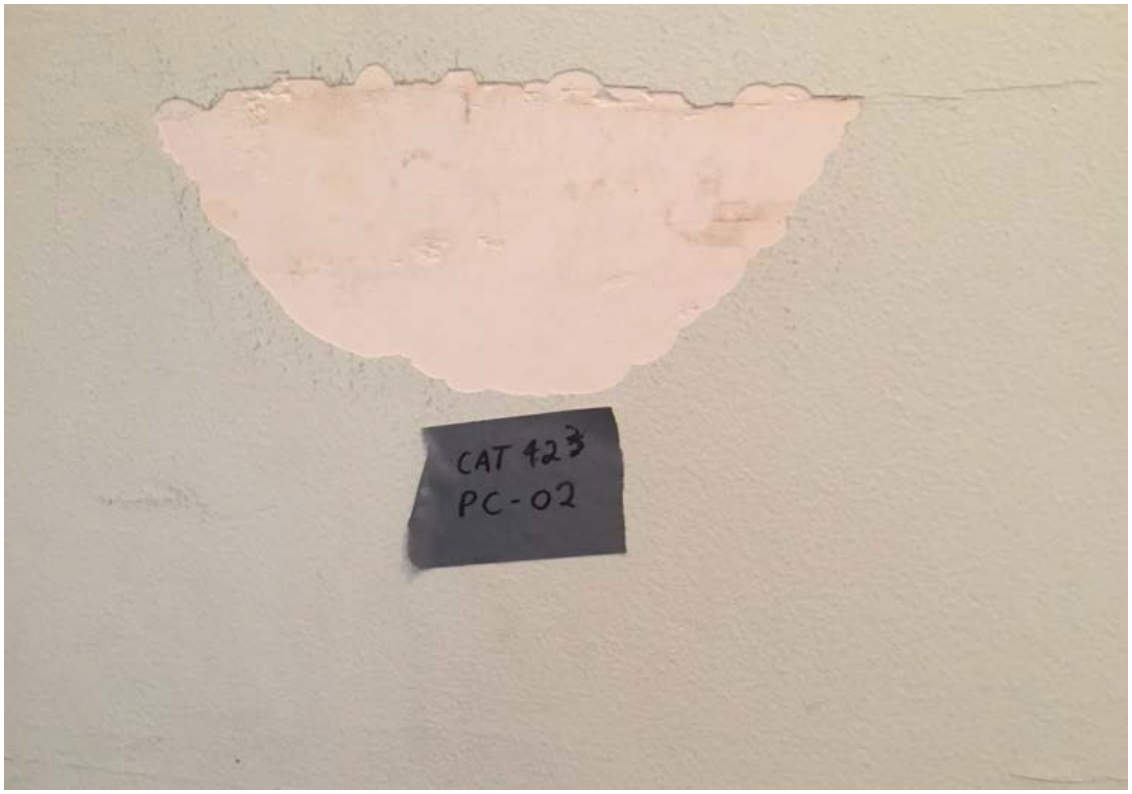
DATE: APRIL 2005
DWG. NO.: DH01
SHEET NO.: OF
FILE NAME: CAT160H010

FILE: CAT160H010 1:1 01/18/05 12:18 GH-A
16grid
opp16bl
cat039rd
XREFS:

ATTACHMENT D

Pictures of Confirmed PCB and Asbestos-Containing Materials

Picture 1. Lead-based and PCB-containing blue over beige wall paint in the Second Floor, Library and Conference Room (CAT423-2ND-PC-01).

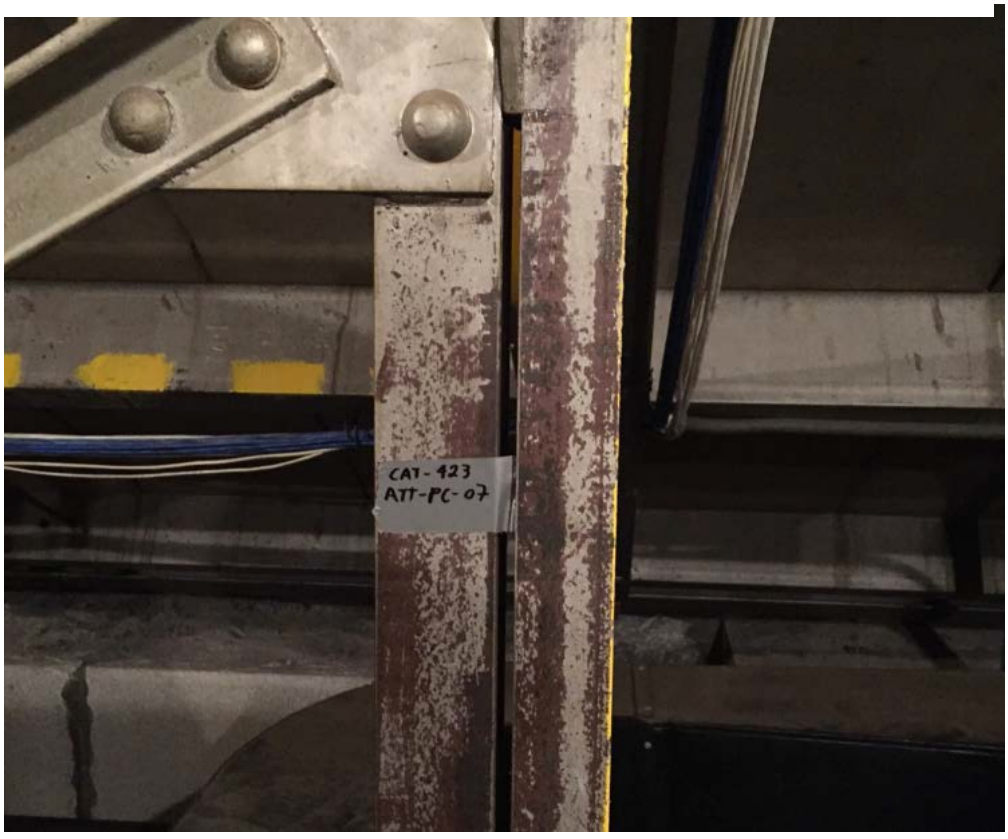


Picture 2. Lead and PCB-containing green wall paint in the Second Floor, Hallway (CAT423-2ND-PC-02).

Picture 3. Lead and PCB-containing white sink drain paint in the Second Floor, Men's Bathroom (CAT423-2ND-PC-03).

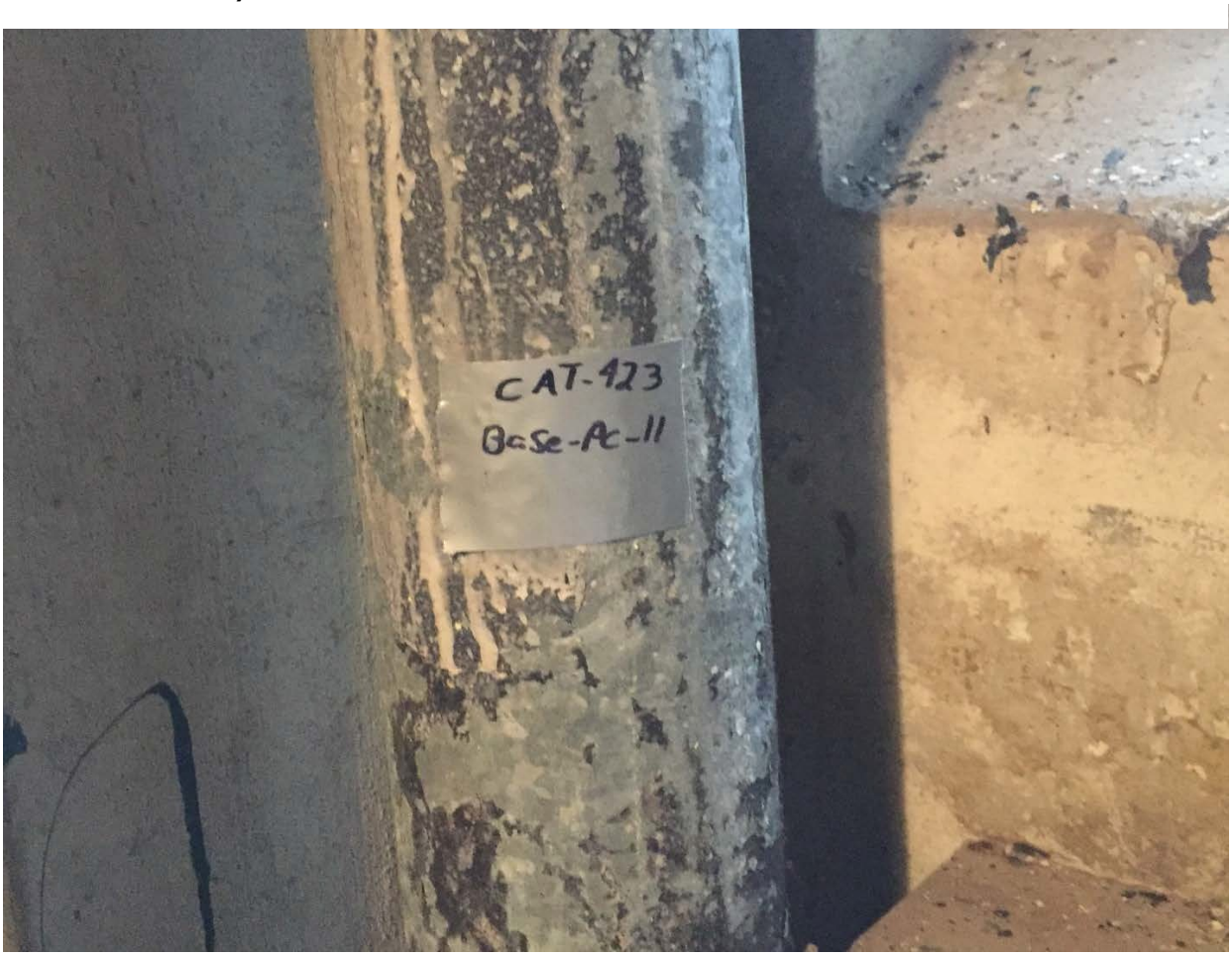
Picture 4. Lead and PCB-containing beige over blue wall paint in the Second Floor, Watershed Division Engineer's Office (CAT423-2ND-PC-04).

Picture 5. Lead and PCB-containing yellow wall paint in the Second Floor, Watershed Engineer's Office closet (CAT423-2ND-PC-05).



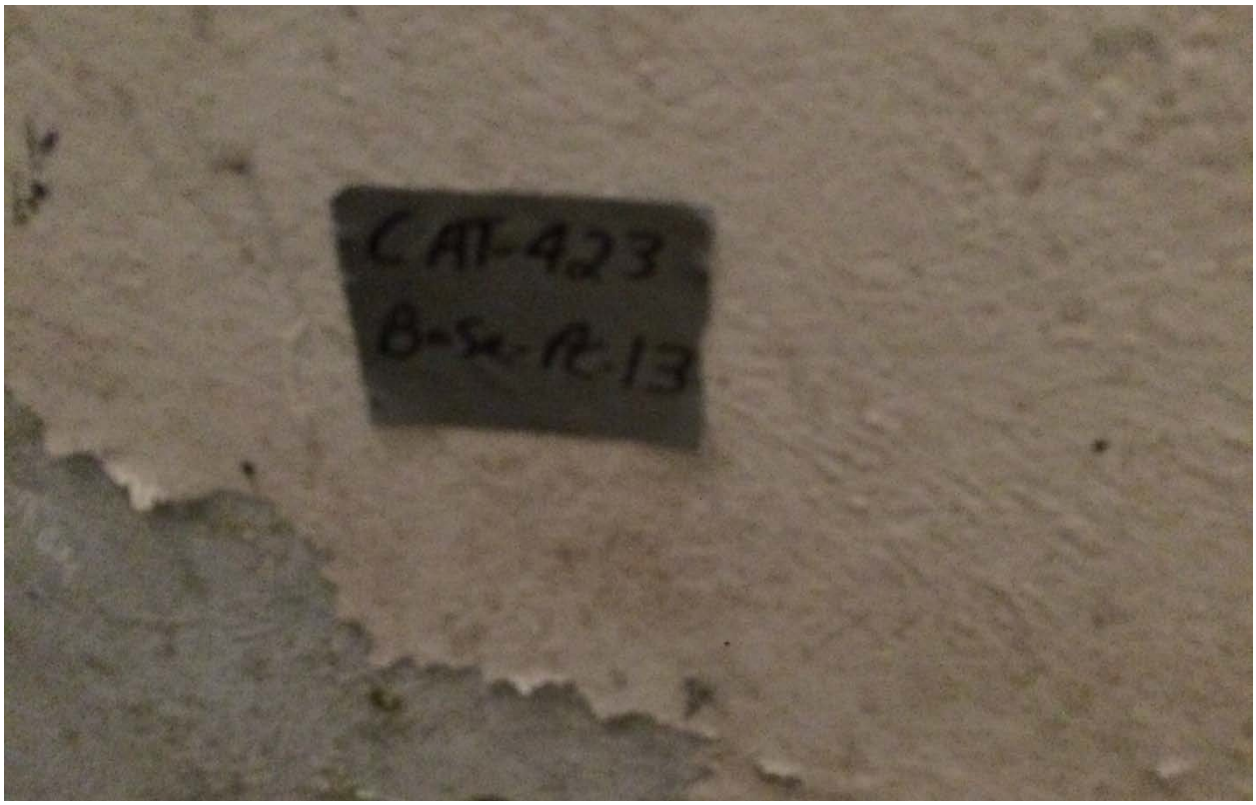
Picture 6. Lead-based and PCB-containing silver framework paint in the Attic (CAT423-ATT-PC-07).

Picture 7. Lead and PCB-containing beige over green door paint in the First Floor, Office (CAT423-1ST-PC-10).

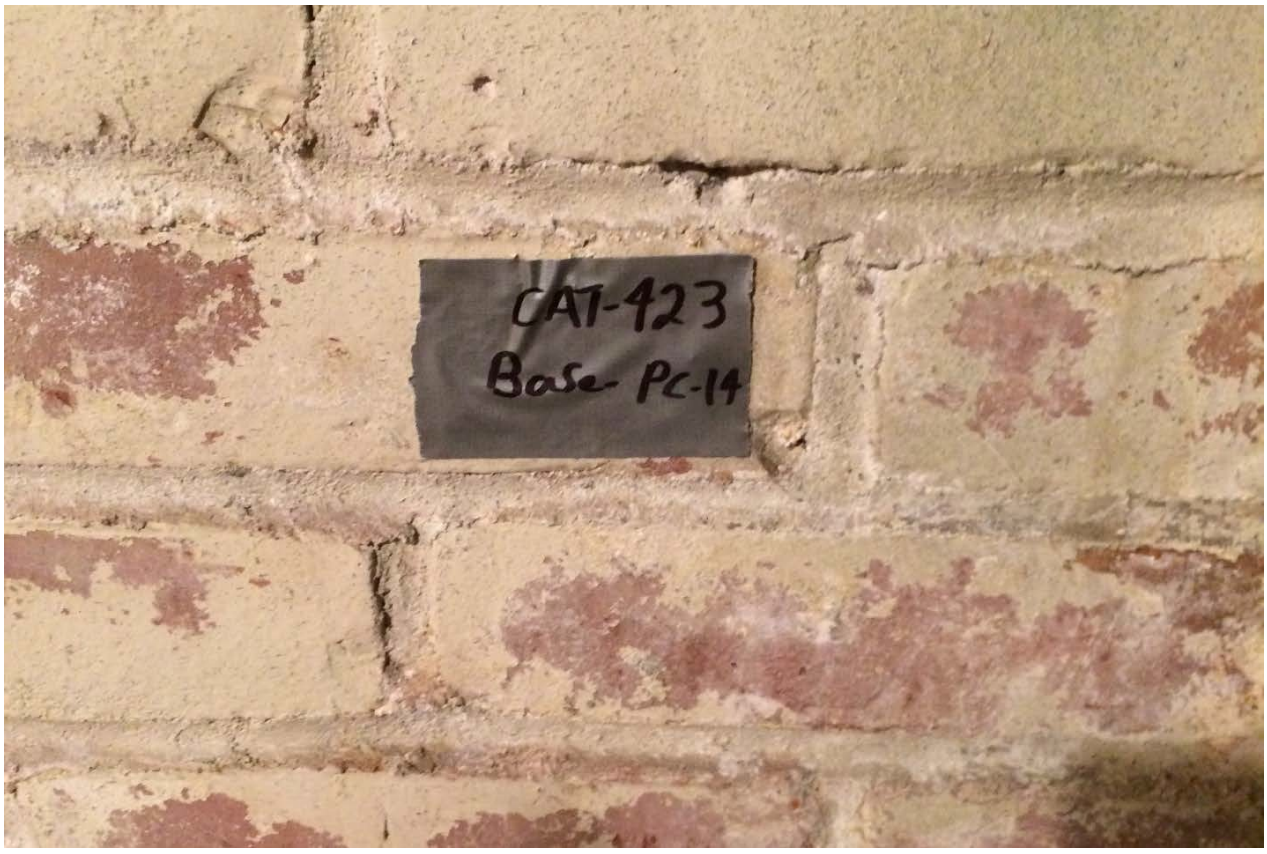


Picture 8. Lead and PCB-containing black drain pipe paint in the Basement, Boiler Room (CAT423-BASE-PC-11).

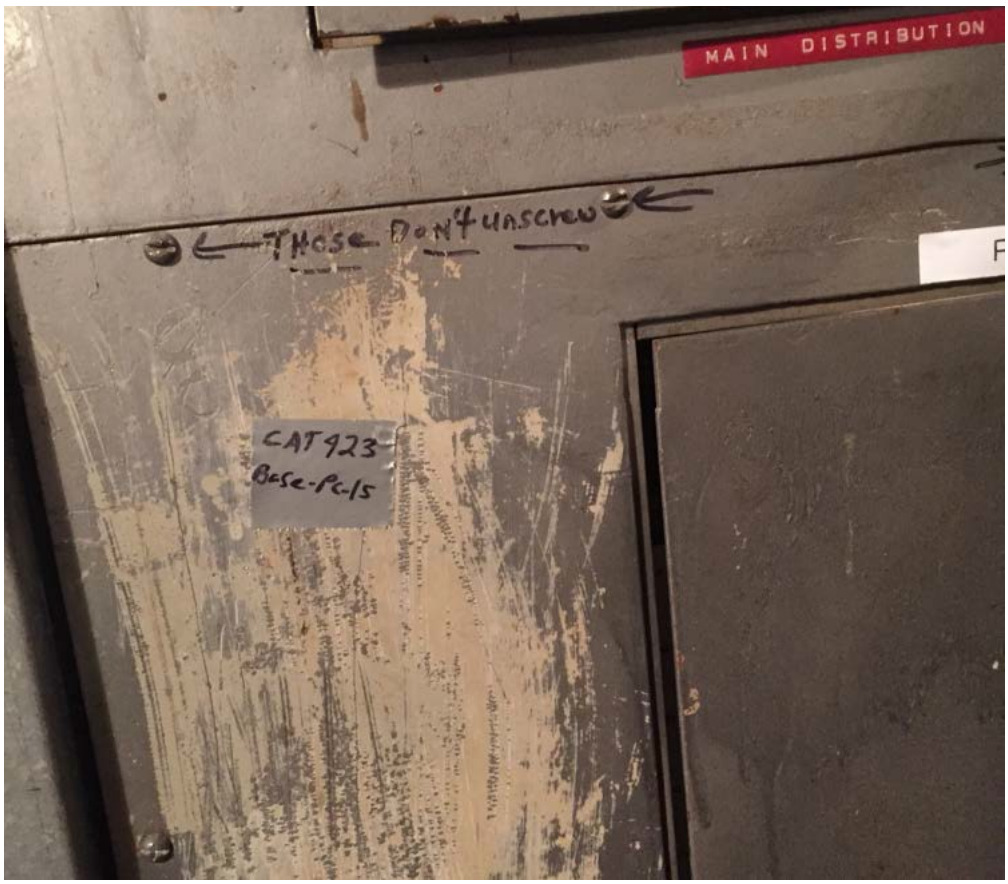
Picture 9. Lead and PCB-containing green floor paint in the Basement, Storage Room (CAT423-BASE-PC-12).



Picture 10. Lead-based and PCB-containing white wall paint in the Basement, Hallway (CAT423-BASE-PC-13).



Picture 11. Lead-based and PCB-containing beige wall paint in the Basement, Storage Room (CAT423-BASE-PC-14).



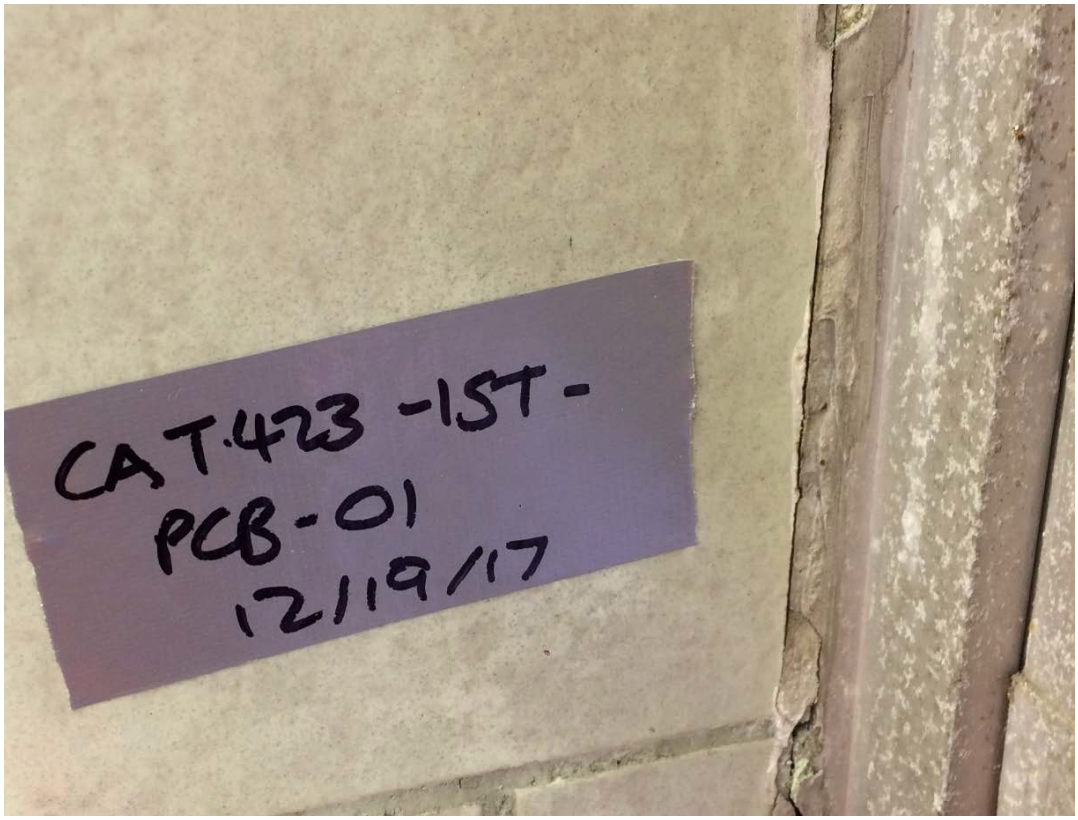
Picture 12. Lead and PCB-containing silver electrical panel paint in the Basement, Boiler Room (CAT423-BASE-PC-15).

Picture 13. Lead-based and TSCA-regulated PCB black drain pipe paint in the Basement, Crawlspace (CAT423-BASE-PC-18).

Picture 14. Lead-based and TSCA-regulated PCB brown drain pipe paint in the Basement, Crawlspace (CAT423-BASE-PC-19).

Picture 15. Lead-based and TSCA-regulated PCB blue pipe paint in the Basement, Crawlspace (CAT423-BASE-PC-20).

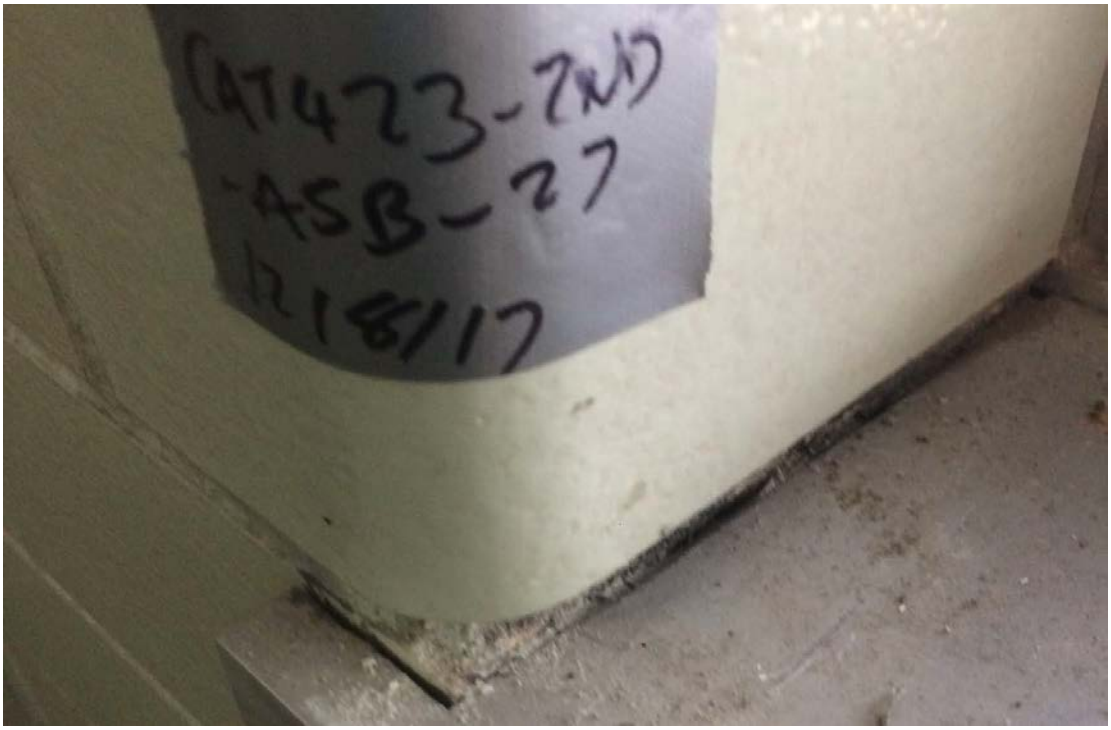
Picture 16. Lead-based and TSCA-regulated PCB green and yellow paints on pipes in the Basement, Storage Room (CAT423-BASE-PC-21,22).



Picture 17. PCB-containing caulk around the interior window of the First Floor, General Lab (CAT423-1ST-PCB-01).

Picture 18. PCB-containing caulk around the Basement, Boiler Room door (CAT423-BASE-PCB-02).

Picture 19. Door Closer with PCB-containing oil on Basement, Boiler Room Door (CAT423-1ST-PCB-11)



Picture 20. Asbestos-containing black caulk on the radiators in the Second Floor, Men's and Women's Bathrooms (CAT423-2ND-ASB-26,27).

Picture 21. Asbestos-containing black radiator shielding in the Second Floor, Stairwell (CAT423-2ND-ASB-28,29).

Picture 22. Asbestos-containing brown canvas wire wrap in the radiator of the First Floor, General Lab (CAT423-1ST-ASB-38,39).

Picture 23. Asbestos-containing white caulk around Exterior, South Wall vent (CAT423-EXT-ASB-84,85).

Picture 24. Asbestos-containing brown 4" gasket in the Basement, Crawlspace (CAT423-BASE-ASB-94,95).

Picture 25. Gasket in Attic HVAC unit containing trace asbestos (CAT423-ATT-ASB-30).

ATTACHMENT E

Bidwell Environmental LLC
Asbestos Handling Licenses and Certificates

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

Bidwell Environmental, L.L.C.

P.O. Box 266

SugarLoaf, NY 10981

FILE NUMBER: 09-48940
LICENSE NUMBER: 48940
LICENSE CLASS: RESTRICTED
DATE OF ISSUE: 11/02/2017
EXPIRATION DATE: 11/30/2018

Duly Authorized Representative – Ellen Metzger:

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)

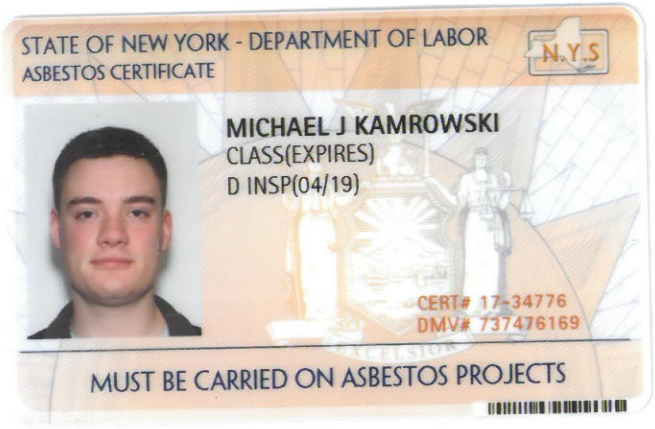
STATE OF NEW YORK - DEPARTMENT OF LABOR
ASBESTOS CERTIFICATE

N.Y.S

MICHAEL L WELLOCK
CLASS(EXPIRES)
D INSP(06/18)

CERT# 12-14716
DMV# 819360714

MUST BE CARRIED ON ASBESTOS PROJECTS


STATE OF NEW YORK - DEPARTMENT OF LABOR
ASBESTOS CERTIFICATE
N.Y.S
MICHAEL J KAMROWSKI
CLASS(EXPIRES)
D INSP(04/19)
CERT# 17-34776
DMV# 737476169
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